



HOWARD COUNTY HEALTH DEPARTMENT

62933

DATE 3/20/18

A5

Received From

PHONE #

443-791-8581

For

Proc App/ 30555 Rosanna U
Dr.

☐ CASH

☒ CHECK

NO.

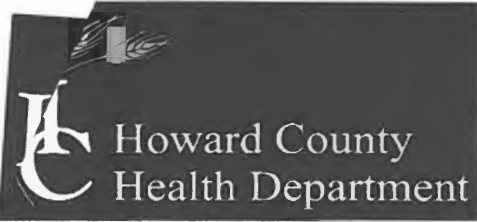
112

Five hundred and no/ Dollars

\$ 500.00

Received By

King

**Bureau of Environmental Health**

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

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Maura J. Rossman, M.D., Health Officer**APPLICATION****FOR PERCOLATION TESTING AND SITE EVALUATION****PROPERTY LOCATION**

SUBDIVISION/PROPERTY NAME _____

PROPERTY ADDRESS 3255 Roscommon Dr, Glennville MD 21737
STREET TOWN ZIPTAX ACCOUNT # 03-287343 TAX MAP 22 GRID 1 PARCEL 549 LOT NO. 9 PROPOSED LOT SIZE (ACRES) 3.000ZONING CATEGORY RR-DEO TIER 3PROPERTY OWNER(S) ELEONORA DON-MINEVICHDAYTIME PHONE 443-791-8881 CELL 410-404-0706 EMAIL ELEONORA.DON@YAHOO.COMMAILING ADDRESS 3255 Roscommon Dr, Glennville MD 21737
STREET CITY, STATE ZIPAPPLICANT ELEONORA DON-MINEVICH RELATIONSHIP TO OWNER: SELFDAYTIME PHONE 443-791-8881 CELL 410-404-0706 EMAIL ELEONORA.DON@YAHOO.COMMAILING ADDRESS 3255 Roscommon Dr, Glennville MD 21737
STREET CITY, STATE ZIP**I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):****PROPERTY:**

- ☐ SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: _____
SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) ☐ MAJOR ☐ MINOR
- ☐ CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
- ☐ REPAIR OR REPLACE FAILING OSDS
- ☒ UPGRADE EXISTING OSDS

BUILDING:

- ☒ RESIDENTIAL WITH 8 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
- ☐ COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- ☐ YES
- ☒ NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

SIGNATURE OF APPLICANT

DATE

PLEASE
CONTACT

MAX MINEVICH,

ELEONORA'S HUSBAND

AT 415-4154-0706

EMAIL:

PARNISH123@YAHOO.COM

RECEIVED

MAR 26 2018

HOWARD COUNTY DEPT.
SUPPORTIVE ENVIRONMENTAL HEALTH

3255

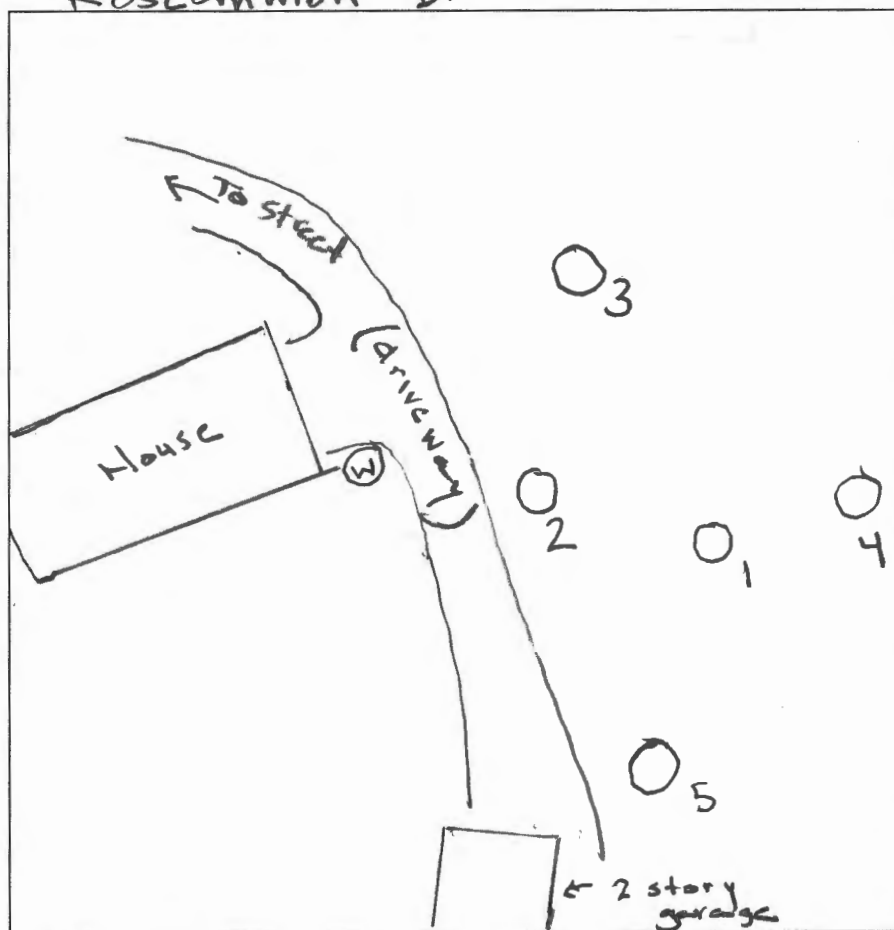
Roscommon Di

⑥ 562933

1
brl
1' - yel-red
cl
7' - red
sl
14' - dry

2
0.9' - brl
yel-red
cl
7' - red
sl
12' - tan sl
5-10' -
13' - dry

3
0.6' - brl
red
sl
5 1/2 - 6' - yel
red
tan
sl
13' - dry



4
brl
1' - yel-red
cl
6' - yel-red
sl
5 1/2' -
12' - dry

5
1' - brl
yel
cl
3.5' - red
cl
6 1/2' - yel-red
cl
13' - dry

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/16/18	1	6'/14'	8:59	- too long -			
4/16/18	2	8'/13'	9:18	- cnc in -			
4/17/18	1	8'/14'	7:59	7:59	8:06	75	P
4/17/18	2	8'/13'	7:45	7:54	8:14	20'	P
4/17/18	3	6.8'/13'	8:36	8:43	8:57	14	P
4/17/18	4	7'/12'	8:16	8:22	8:34	12	P
4/17/18	5	7 1/2'/13'	8:05	8:08	8:22	14	P

REMARKS Very rainy on 4/16/18, Owner cancelled testing aft 1 & 2, holes
LEHS
SANITARIAN H. Oswald BACKHOE Fogles OTHERS Owner

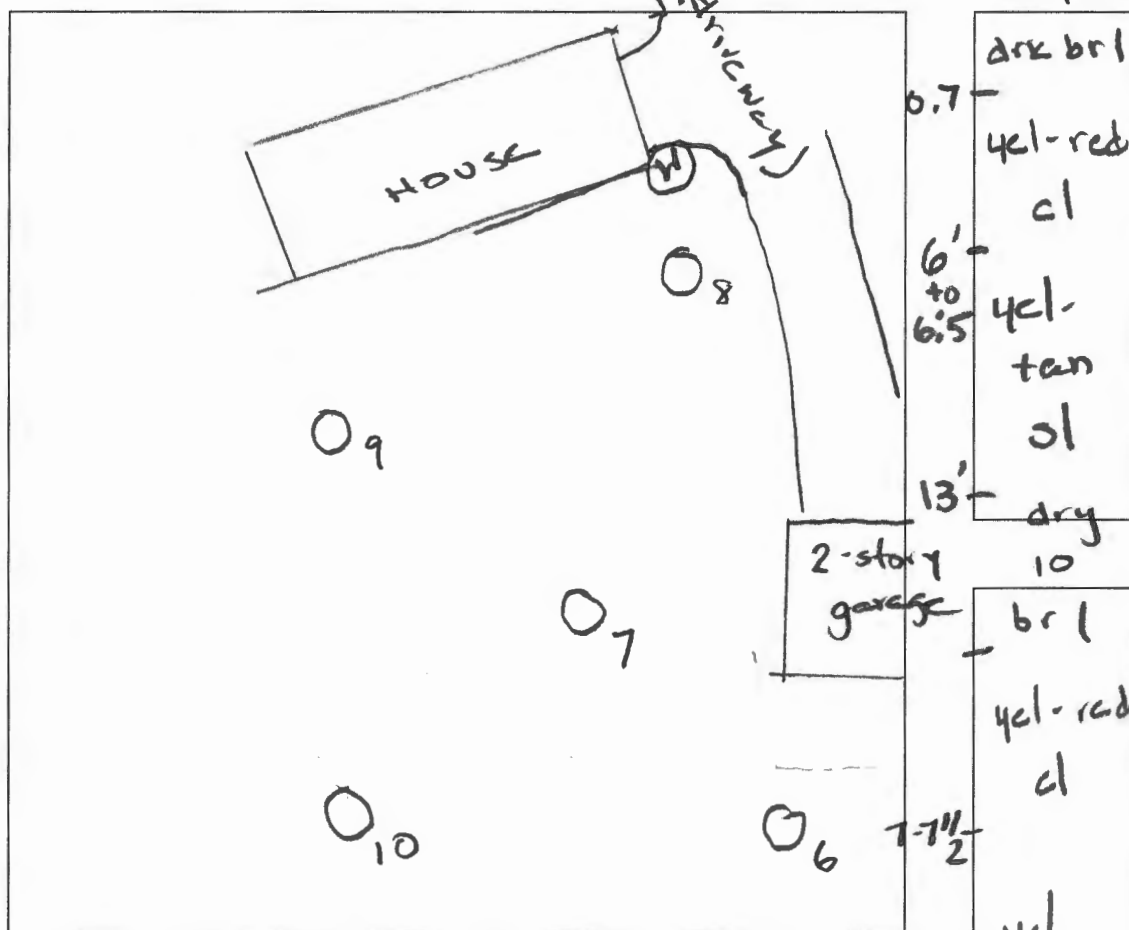
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

$$\frac{w+2}{w+1+2(d)} =$$

3.5

A 562933



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/17/18	6	6.5/2.4	10:20	10:26	10:34	B	P
4/17/18	7	6/2.2	10:11	11:02	- Too Long	F	
4/17/18	7	8/2.2	11:41	12:18	- Too Long	F	
4/17/18	8	8'/2	10:43	11:33	- Too Long	F	
4/17/18	9	7/13	9:55	10:05	10:35	30	P
4/17/18	10	7.5/2.3	11:34	- Too Long	-	F	
4/17/18	6	8/2.3	12:21	12:25	12:32	7	P

REMARKS

LENS
SANITARIAN

H. Oswald

BACKHOE

Fogles

OTHERS

TEST HOLES USED IN SDA

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE SW

0.6' - drk br
red
cl
5' - yel tan
sl
12.4' - dry

0.4' - drk br
br cl
3' - red cl
7' - yel-red
sl
12.2' - dry

brl
red cl
br cl
yel-red
cl
8' - sl
12' - dry

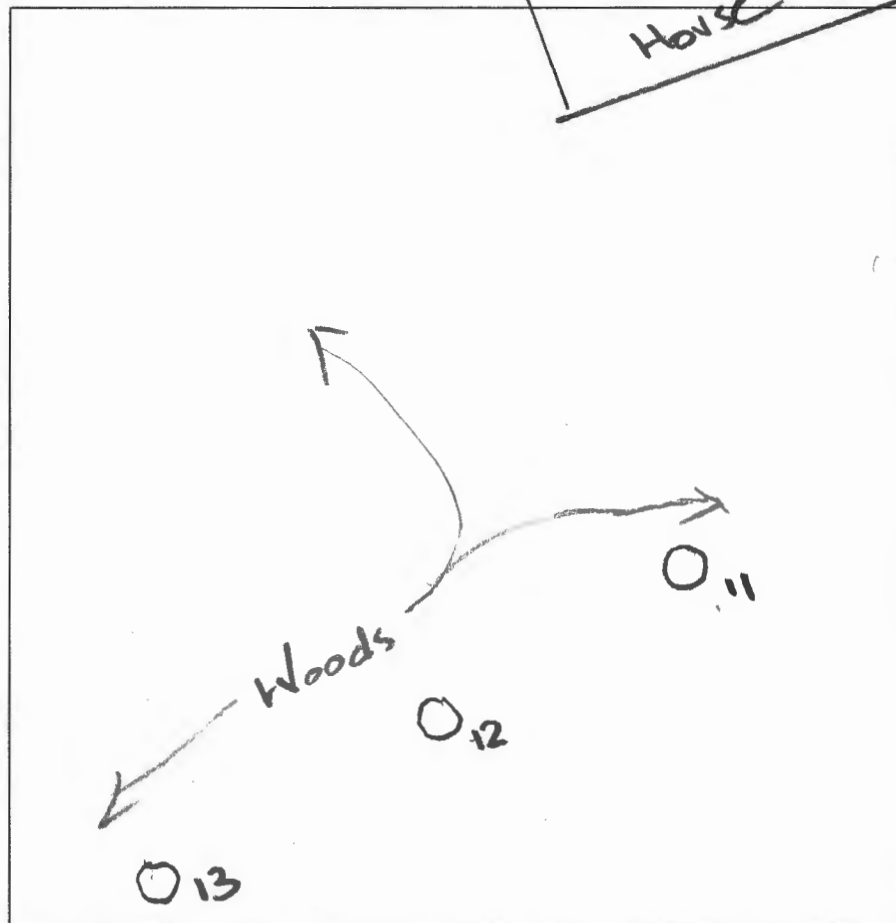
0.7' - drk brl
yel-red
cl
6' to 6.5' - yel-tan
sl
13' - dry
10' - brl
yel-red
cl
1-1 1/2' - yel
sl
12.3' - dry

AP 562933

11
br l
(roots)
4' -
yel -
red
cl
4' -
to 5' -
pale
red
sl
12.4' -
dry

12
br l
(roots)
Sim.
to
11

13
br l
red
cl
4.5' -
to 5' -
pale
red.
yel
sl
11' -
5 1/2' rock
12.4' -
dry



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/17/18	11	5.1/12.4	10:57	11:00	11:04	4	P
4/17/18	12	5.6/12.4	11:07	11:09	11:11	3	P
4/17/18	13	5.5/12.4	11:21	11:23	11:27	4	P

REMARKS _____
 LEHS _____
 SANITARIAN H. Oswald BACKHOE Fogles OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

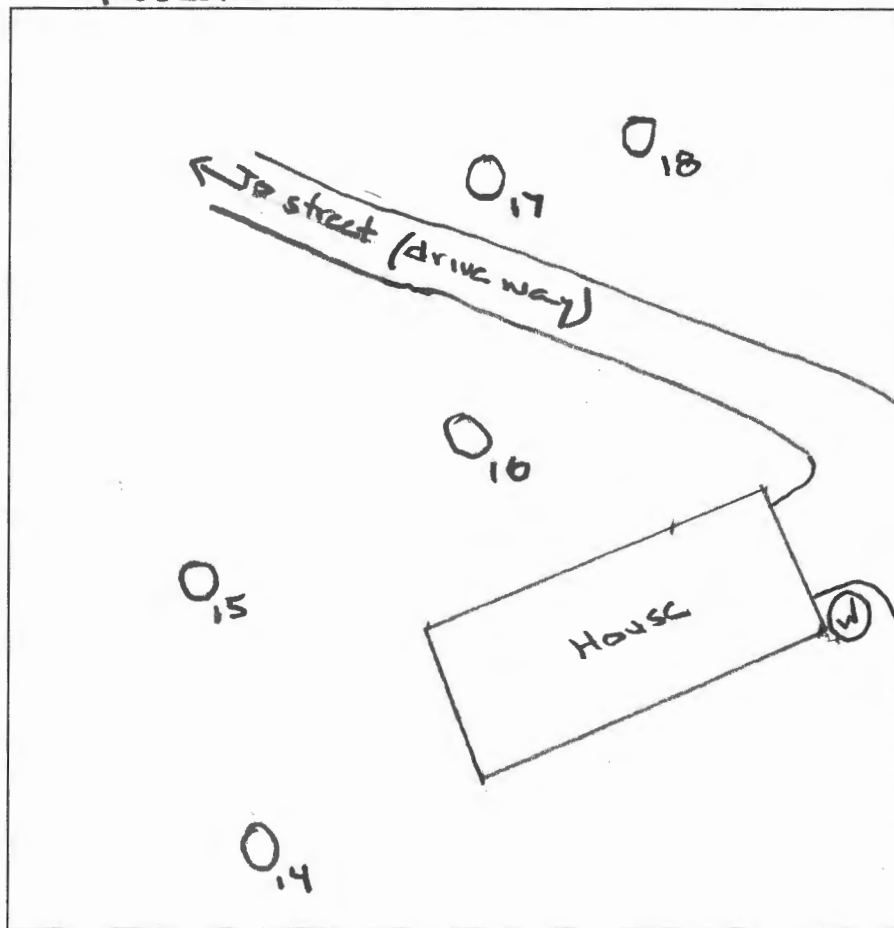
3255
Roscommon Dr

AP 562933

14
0.8' brl
red cl
5' pale red sl
13' dry

15
5' br
red cl
pale red sl
5 1/2' rock
13'

16
5 1/2' brl
red scl
pale red sl
13'



17
0.8' drk brl
red cl
5 1/2' yel tan sl
13' 5 1/2' rock

18
0.5' drk brl
yel-red scl
5' yel-tan sl
12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/17/18	14	6' 13'	9:43	9:52	10:20	28	P
4/17/18	15	6' 13'	9:30	9:34	9:41	7	P
4/17/18	16	6' 9/13	9:16	9:28	9:49	21	P
4/17/18	17	6' 5/13	9:07	9:10	9:17	7	P
4/17/18	18	6' 1 1/2'	8:50	8:55	9:01	6	P

REMARKS
LEHS
SANITARIAN H. Oswald BACKHOE Foghs OTHERS
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Max 410,404.0706



Bureau of Environmental Health

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Maura J. Rossman, M.D., Health Officer

April 23, 2018

To: Eleonora Don - Minevich (Applicant); Shanaberger & Lane (Engineer)

Percolation Test Report; 3255 Roscommon Drive,

Percolation tests were conducted at 4979 Sheppard Lane (Tax Map 22, Parcel 549) on April 16 & 17th, 2018. Tests and profile descriptions were documented for 18 locations. All test holes except 7 & 8 passed. Test holes 7 & 8 had too much clay/sandy clay loam which prevented an acceptable percolation rate.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in the septic reserve area are represented by test locations having satisfactory soil condition (The area has to be bound by the passing holes- see attachment).

If the property was created with a 10,000 sq. ft. sewage disposal area (SDA), then it must maintain 10,000 sq. ft. The SDA must also be large enough to accommodate 3 systems for the planned facility (Assistant Living Facility). In addition, Non-residential strength of waste must include a pre-treatment unit. Please show the calculations for each system and how they will fit within the area. You will have to let us know which area you proposing for each system(s), in order for us to provide the septic specs.

Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-1786 or by email hoswald@howardcountymd.gov

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Test Field Notes

Oswald, Hank

From: Oswald, Hank
Sent: Monday, April 02, 2018 10:16 AM
To: 'ELEONORADON6@YAHOO.COM'
Cc: home@shanlane.com
Subject: Perc Test Plan_3255 Roscommon Drive
Attachments: perc test plan.pdf

Hello Mr. Minevich:

Good morning. The perc test plan has been reviewed and we can proceed with testing all holes but #1 and relocation of #3 and one added to the middle of the same area (see attachment). Eventually we would like the topography field run/verified in order to ensure the area near holes 14 and 10 aren't up-gradient of the well next door.

We might need 3 days to conduct the test but I think we can get it done in two days. I am available this Wednesday 4th and Thursday 5th, Monday April 16th and Tuesday 17th, or 24th – 26th. Let me know what works best for everyone.

The holes will need to be field located and staked prior to testing. Also, miss utility must be notified. As we discussed, we will need a septic contractor with a backhoe to dig the test holes along with a water source.

Let me know if you have any questions.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, April 24, 2018 9:16 AM
To: 'Shanaberger & Lane'
Subject: RE: question about Perc Test Report_Roscommon_2018
Attachments: Septic Specs_3255 Roscommon Drive_2018.pdf

Hi Scott:

Attached, please find septic specs for 3255 Roscommon Drive. You may show trenches under the driveway between holes 16, 17, and 18 but you will need to add a note about using schedule 40 pvc underneath driveway.

Thanks,

Hank

From: Shanaberger & Lane [<mailto:home@shanlane.com>]
Sent: Monday, April 23, 2018 1:45 PM
To: Oswald, Hank
Subject: question about Perc Test Report_Roscommon_2018

Hi Hank

Thanks for getting these out so quickly. I'm unclear on how I can show the calculations for each system, and how they will fit in proposed sewage disposal areas, without the specs for infiltration rates. The rates (along with number of bedrooms) determine the amount of sidewall needed which in turn with the inlet dept and bottom depth determines the linear feet of trench involved.

Maybe I'm missing something obvious, but I'm unclear how to do this without specs. Thanks for the help.

Scott
G. Scott Shanaberger
Professional Land Surveyor
Shanaberger & Lane
8726 Town & Country Blvd., Suite 201
Ellicott City, MD 21043
410-461-9563
410-461-9693 fax
home@shanlane.com

Oswald, Hank

From: Oswald, Hank
Sent: Monday, April 23, 2018 9:56 AM
To: home@shanlane.com; Eleonora Don
Subject: Perc Test Results_3255 Roscommon Drive
Attachments: Perc Test Field Note_3255 Roscommon.pdf; Perc Test Report_Roscommon_2018.pdf; Plan_Roscommon.pdf

Good morning:

Attached, please find the perc test results for 3255 Roscommon Drive. Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Monday, October 22, 2018 11:14 AM
To: 'anita@sillengineering.com'
Cc: ELEONORADON6@YAHOO.COM
Subject: LPD Plan_3255 Roscommon Drive

Hi Anita:

Thank you for taking my call this morning on such short notice. I made the changes that we spoke about. The LPD plan for 3255 Roscommon Drive has been approved by the Health Department. Thank you for all your efforts and speedy responses on this plan.

The next step in the process is to abandon the old well and drill a new well by a MD licensed well driller. Once this has been completed/approved, a septic permit may be issued to licensed BAT septic contractor install the new system. The building permit can be approved once the new system has been finalized.

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Thursday, October 11, 2018 11:43 AM
To: 'anita@sillengineering.com'
Subject: LPD_3255 Roscommon Drive
Attachments: BAT LPD Memo_2018.pdf

Hi Anita:

I think we are real close to approval. I made a few comments based on last revision and included MDE's comment based on your last pdf. Steve K. of MDE would like to review the plan when he comes to our office on October 19th, 2018. You're welcome to make these changes and send in a new set of plans, or wait until the meeting with Steve for final remarks.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Oswald, Hank

From: Steven Krieg -MDE- <steven.krieg@maryland.gov>
Sent: Wednesday, October 03, 2018 3:34 PM
To: Oswald, Hank
Cc: Williams, Jeffrey
Subject: Re: FW: OSDS Plan_3255 Roscommon_2018

Here are some problems:

- 1) EQ tank pump has the run time, but not the off time. They need to specify the off time and contact Matt Geckle again although he told them this.
- 2) Is the LPD demand dosed? If so, take the pump run time off the notes and change note to say demand dose. (I would demand dose the LPD)

On Wed, Oct 3, 2018 at 11:57 AM, Oswald, Hank <hoswald@howardcountymd.gov> wrote:

Hi Steve:

Can you take a look at the proposed setup/design (see below) for the assistant living facility located on Roscommon and comment.

Thanks in advance,

Hank

From: Anita Allen [mailto:anita@sillengineering.com]
Sent: Tuesday, October 02, 2018 11:36 AM
To: Oswald, Hank
Subject: RE: OSDS Plan_3255 Roscommon_2018

Good Morning Hank,

I would like to send in the Roscommon LPDS for resubmittal. I just wanted to run by you what the design looks like based on the input of Matt G. from Back river precast.

As designed:

- The waste leaves the house and first enters a 2,000 gallon two compartment septic chamber The chamber will have an effluent filter at the outlet.
- From there it enters a 2,000 gallon single compartment pump chamber that houses a effluent pump that is time dosed into the BAT unit.
- The effluent gravity flows out of the BAT unit and enters the pump chamber to the trenches.
- Two control panels will be needed for this set-up and will be set side by side.

That's the basic setup. If you don't see any red flags I'm going to re-submit the plan as soon as I hear back from you.

I never did receive the details that were suppose to be on the memo. But I've attached a copy of the plan if you want to check and see the charts on page two and see if that is what you are looking for.

Let me know if you have any questions.

Thank you,

Anita

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Wednesday, September 19, 2018 9:51 AM
To: Anita Allen <anita@sillengineering.com>
Subject: RE: OSDS Plan_3255 Roscommon_2018

Hi Anita:

Yes, this is fine.

Thanks,

Hank

From: Anita Allen [<mailto:anita@sillengineering.com>]
Sent: Wednesday, September 19, 2018 9:17 AM
To: Oswald, Hank
Subject: FW: OSDS Plan_3255 Roscommon_2018

✓
Good Morning Hank,

The plan attached should make clear what I was trying to explain on the phone. The intention is to have the manifold and laterals at the same elevation. Since trench 1 is offset from trenches 2 and 3 I've designed the manifold with 2 90 degree bends.

I just want to make sure that as long as I account for the bends in the report and calculations there will not be an issue with the manifold design and that this design does not require anti-siphon turn downs.

Thank you for your continued assistance,

Anita

From: Paul Sill
Sent: Friday, August 31, 2018 12:04 PM
To: Anita Allen <anita@sillengineering.com>
Cc: Lori Makowski <lori@sillengineering.com>
Subject: FW: OSDS Plan_3255 Roscommon_2018

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Friday, August 31, 2018 11:44 AM
To: Paul Sill <paul@sillengineering.com>
Cc: ELEONORADON6@YAHOO.COM
Subject: OSDS Plan_3255 Roscommon_2018

Hello Paul:

Attached, please find memo with comments pertaining to the review of the OSDS Plan for 3255 Roscommon Drive.

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald

Licensed Environmental Health Specialist

Howard County Health Department

Bureau of Environmental Health

Well & Septic Program

8930 Stanford Boulevard

Columbia, MD 21045

410.313.1786 (Office)

hoswald@howardcountymd.gov

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--

Steven R. Krieg, LEHS, REHS/RS
Regional Consultant for Mid & Western Maryland

On-site Systems Division
Wastewater Permits Program
Water and Science Administration
Maryland Department of the Environment
1800 Washington Boulevard, Suite 455
Baltimore, MD 21230-1708

(410) 537-3680 (Office)

(410) 537-3163 (FAX)

On-site Systems Division Webpage

[Click here](#) to complete a three question customer experience survey.

Oswald, Hank

From: Collins, Sarah
Sent: Thursday, February 28, 2019 9:59 AM
To: eleonoradon6@yahoo.com
Cc: Oswald, Hank
Subject: FW: 3255 Roscommon Drive

Hi Max,

My supervisor, Kevin, has been looking into the yield test for the well and it sounds like we're requiring Philip and Sons to repeat it (see below). Fogle's can install the well line but they should not install the pump until the yield test is approved.

Thanks,
Sarah

From: Carrie Condon <Carrie@foglesinc.com>
Sent: Thursday, February 28, 2019 9:51 AM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Cc: Collins, Sarah <SCollins@howardcountymd.gov>
Subject: RE: 3255 Roscommon Drive

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Ok thanks for that information.

Dave is meeting Sarah onsite at 12pm on Monday. We will wait to hear back from you regarding the yield before any installation. Thanks!

From: Wolf, Kevin <KWolf@howardcountymd.gov>
Sent: Thursday, February 28, 2019 9:47 AM
To: Carrie Condon <Carrie@foglesinc.com>
Cc: Collins, Sarah <SCollins@howardcountymd.gov>
Subject: 3255 Roscommon Drive

Carrie,
We have outstanding issues with the yield test that was completed by Philip and Son's drilling. They will need to perform the yield test again per COMAR specifications. I would advise not setting the pump until you have confirmation from us that the test is approved. You may still install the well line if you choose to. I am awaiting correspondence from Philip and Son's drilling.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045

(o) 410-313-2645
(f) 410-313-2648



kwolf@howardcountymd.gov

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Collins, Sarah

From: Collins, Sarah
Sent: Thursday, February 28, 2019 9:57 AM
To: 'eleonoradon6@yahoo.com'
Cc: Oswald, Hank
Subject: FW: 3255 Roscommon Drive well line

Sorry.. I spelled the email address wrong on the first attempt.

From: Collins, Sarah
Sent: Thursday, February 28, 2019 9:55 AM
To: 'eleonoradon6@yahoo.com' <eleonoradon6@yahoo.com>
Cc: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: 3255 Roscommon Drive well line

Hi Max,

Per our discussion over the phone, the well line may be installed to the south of the sewage disposal area (SDA). If the line is within 10' of the SDA or the tanks, it must be sleeved with a material equivalent to or stronger than the well line (PVC pipe is sufficient). If the well line crosses the old dry wells or tank on the property it should also be sleeved to protect against settling. Also, the installer must include tracer tape for future locating of the line. The Health Department will red line the current septic plan and no revisions are needed from the engineer.

I am meeting with Kenny Hatfield on site on Monday, 3/4 at 12pm to discuss the location of the line going around the SDA. I spoke with Dave Fogle and it sounds like he'll also be there.

Let me know if you have any questions.

Thanks,
Sarah

Sarah Collins, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
SCollins@howardcountymd.gov
410-313-6287

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3255 Roscommon Pr.

FILE INQUIRY NOTES

[illegible]

Maura J. Rossman, M.D., Health Officer

MEMORANDUM

TO: Sill Engineering Group, LLC

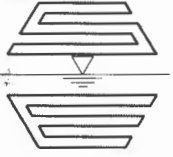
FROM: Hank Oswald, L.E.H.S.
Well & Septic Program

RE: OSDS Plan
3255 Roscommon Drive

Date: October 10, 2018

The following comments pertain to the review of the OSDS Plan for 3255 Roscommon Drive:

- 1.) Add additional labeling to each tank on first page of plan (i.e. 2k gal-2comp. tank etc.)
- 2.) Add purpose statement just above title block
- 3.) Add trench length column and lateral diameter to chart on 2nd page.
- 4.) Orifice flow rate should be 1.63 (not 1.41) per our manual
- 5.) Show TDH calculations for pump in last tank.
- 6.) MDE recommends demand dose the LPD. Take run time off plan and change note to say demand does.



11130 Dovedale Court, Suite 200
Marriottsville, MD 21104
Website: www.sillengineering.com
Civil Engineering for Land Development

Office: 443-325-5076
Fax: 410-696-2022
Email: info@sillengineering.com

SILL ENGINEERING GROUP, LLC

October 12, 2018

Howard County Health Department
Bureau of Environmental Health
8390 Stanford Boulevard
Columbia, Maryland 21045

Attn: Mr. Hank Oswald

Re: OSDS Plan
32255 Roscommon Drive
Response Letter

Dear Mr. Oswald:

Please find a point by point response to your comments dated October 10, 2018 below:

1. The additional labeling has been added to the tanks on sheet 1.
2. A purpose statement has been added to the plan above the title block on sheet 1.
3. On sheet 2 a trench length column has been added to the trench design chart and a lateral diameter column has been added to the SDA lateral sizing summary chart.
4. The laterals are 1.5" in diameter. The erroneous 2.0" labels have been removed from within the Dosing field trench detail.
5. The total dynamic head calculations have been added to the plan as BAT Note 17 on sheet 2.
6. BAT Note 11 has been revised to show demand dose of 144 gallons to the LPDS.

Please find attached three copies of the revised plan and the report. Should you have any questions or comments regarding this matter, please do not hesitate to contact this office.

Sincerely,
Sill Engineering Group, LLC

Anita Allen

Oswald, Hank

From: Williams, Jeffrey
Sent: Friday, June 22, 2018 10:02 AM
To: Steven Krieg -MDE- (steven.krieg@maryland.gov)
Cc: Oswald, Hank
Subject: variance request 3255 Roscommon
Attachments: WS_RoscommonDrive_3255_Jeff.pdf; 20180622094245050.pdf

Hi Steve. Sorry I forgot to go over this with you when you were here. This property has a funky shaped sewage disposal area. They are converting a house to a small assisted living facility. As you can see on the plan, the contour is a little tricky, but by my assessment the initial system is not upgrade of any neighboring wells, but the 2nd replacement and possible a portion of the first replacement is upgrade of the one neighboring well.

I don't know what you want to do with conditions for this type of thing. They are showing a pretreatment unit with a note that one is needed if their waste strength is over 300/300. We don't have any data to suggest that a small assisted living would be stronger than 300/300. I suspect not. Do you have any insight on that? If the waste strength is not high, the only reason they would need pretreatment is if it were a variance condition, but the first system is not upgrade of anything. Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, July 11, 2018 9:20 AM
To: 'Shanaberger & Lane'
Cc: ELEONORADON6@YAHOO.COM
Subject: Perc Cert_Roscommon_Variance Request

Hello All:

Good morning. MDE has approved the variance request. Please add the following note to the plan.

MDE has approved a variance to allow the sewage disposal area to be up-gradient of the neighboring well and subject to the following condition:

1.) The BAT unit must be timed dosed (Install a 2-compartment tank with a pump in the second chamber on a timer before the BAT unit).

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Wolf, Kevin

From: Cheyenne Phillips <phillipssondrill@aol.com>
Sent: Wednesday, January 16, 2019 12:22 PM
To: Wolf, Kevin
Subject: 3255 Roscommon Road Hydrofrac

OK KAW

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Kevin,

We are planning on Hydrofrac the well at 3255 Roscommon Road Glenelg, MD 21737 on Friday 1/18/19 the Well depth is 700ft with 80ft of Casing we have requested the completion report from Fogles and are waiting to see if they have it completed once I receive it I will forward it to you. Please let me know if Sara finds it ok to Hydrofrac once she checks the adjacent properties. Thanks

*Cheyenne Phillips
Office Manager*

**Phillips & Son Drilling Inc.
2624 Kaetzel Road
Knoxville, MD 21758
301-432-5755 Office
301-432-6776 Fax**

Oswald, Hank

From: Oswald, Hank
Sent: Thursday, April 05, 2018 10:05 AM
To: 'Eleonora Don'
Cc: home@shanlane.com
Subject: RE: Perc Test Plan_3255 Roscommon Drive

Hello:

I wanted to follow-up to let you know about two things. First, should this project take longer than two days, I would not be able to accommodate Wednesday 18th, 19th or 20th. I am scheduled off. Second, our inspectors including me were just put on notice about wet season perc testing which will only be open for a short period time. With that said, your project may be postponed. I will let you know next week if we need to reschedule.

Should you have any questions, please don't hesitate to ask.

Hank

From: Eleonora Don [<mailto:eleonoradon6@yahoo.com>]
Sent: Monday, April 02, 2018 3:45 PM
To: ELEONORADON6@YAHOO.COM; Oswald, Hank
Cc: home@shanlane.com
Subject: Re: Perc Test Plan_3255 Roscommon Drive

Hello Hank,

Thank you for your email!

I appreciate your reviewing our plans and offering us some dates. I have spoken to Kim at Fogles, and she said that they would be available to dig the holes this week, however, it would not allow enough time for miss utilities to come out and mark the area. According to Kim, we need to give miss utilities at least 3 days notice to provide them with enough time to mark everything, and if we call today, it does not give us 3 days.

Kim asked , and I am joining her with this request, is there a way that you could be available at some point next week? If we wait until 4/16 and 4/17, this means that we have to put the work on hold for another 2 weeks. If there is absolutely no way that you could be available next week, then we have no choice and we'd have to wait, but it would be great if we could start digging next week.

Please take a look at your availability and let me know.

Thank you!

On Monday, April 02, 2018 10:16:18 AM, Oswald, Hank <hoswald@howardcountymd.gov> wrote:

Hello Mr. Minevich:

Good morning. The perc test plan has been reviewed and we can proceed with testing all holes but #1 and relocation of #3 and one added to the middle of the same area (see attachment). Eventually we would like the topography field run/verified in order to ensure the area near holes 14 and 10 aren't up-gradient of the well next door.

We might need 3 days to conduct the test but I think we can get it done in two days. I am available this Wednesday 4th and Thursday 5th, Monday April 16th and Tuesday 17th, or 24th – 26th. Let me know what works best for everyone.

The holes will need to be field located and staked prior to testing. Also, miss utility must be notified. As we discussed, we will need a septic contractor with a backhoe to dig the test holes along with a water source.

Let me know if you have any questions.

Thanks,

Hank

Hank Oswald

Licensed Environmental Health Specialist

Howard County Health Department

Bureau of Environmental Health

Well & Septic Program

8930 Stanford Boulevard

Columbia, MD 21045

410.313.1786 (Office)

hoswald@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, April 03, 2018 11:07 AM
To: 'Eleonora Don'
Subject: RE: RE: Perc Test Plan_3255 Roscommon Drive

Confirmed. I will be onsite by 830. Please call Miss Utility prior to those dates.

Thanks,

Hank

From: Eleonora Don [<mailto:eleonoradon6@yahoo.com>]
Sent: Tuesday, April 03, 2018 9:37 AM
To: Oswald, Hank
Subject: Re: RE: Perc Test Plan_3255 Roscommon Drive

Good morning,

I see. So please take this email as confirmation that we will do the work on 04/16-4/17. We will have Scott Shanaberger go out to mark the holes and we will employ Fogles to do the actual digging.

Please let me know if there is anything we need to arrange prior to above dates.

Thank you for your help, Hank!

On Tuesday, April 03, 2018 07:01:23 AM, Oswald, Hank <hoswald@howardcountymd.gov> wrote:

I am not available next week that's why I didn't offer those dates. Please confirm 4/16 and 4/17.

Thanks,

Hank

From: Eleonora Don [<mailto:eleonoradon6@yahoo.com>]
Sent: Monday, April 02, 2018 3:45 PM
To: ELEONORADON6@YAHOO.COM; Oswald, Hank

Cc: home@shanlane.com

Subject: Re: Perc Test Plan_3255 Roscommon Drive

Hello Hank,

Thank you for your email!

I appreciate your reviewing our plans and offering us some dates. I have spoken to Kim at Fogles, and she said that they would be available to dig the holes this week, however, it would not allow enough time for miss utilities to come out and mark the area. According to Kim, we need to give miss utilities at least 3 days notice to provide them with enough time to mark everything, and if we call today, it does not give us 3 days.

Kim asked, and I am joining her with this request, is there a way that you could be available at some point next week? If we wait until 4/16 and 4/17, this means that we have to put the work on hold for another 2 weeks. If there is absolutely no way that you could be available next week, then we have no choice and we'd have to wait, but it would be great if we could start digging next week.

Please take a look at your availability and let me know.

Thank you!

On Monday, April 02, 2018 10:16:18 AM, Oswald, Hank <hoswald@howardcountymd.gov> wrote:

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Good morning. The perc test plan has been reviewed and we can proceed with testing all holes but #1 and relocation of #3 and one added to the middle of the same area (see attachment). Eventually we would like the topography field run/verified in order to ensure the area near holes 14 and 10 aren't up-gradient of the well next door.

We might need 3 days to conduct the test but I think we can get it done in two days. I am available this Wednesday 4th and Thursday 5th, Monday April 16th and Tuesday 17th, or 24th – 26th. Let me know what works best for everyone.

The holes will need to be field located and staked prior to testing. Also, miss utility must be notified. As we discussed, we will need a septic contractor with a backhoe to dig the test holes along with a water source.

Let me know if you have any questions.

Thanks,

Hank

Hank Oswald

Licensed Environmental Health Specialist

Howard County Health Department

Bureau of Environmental Health

Well & Septic Program

8930 Stanford Boulevard

Columbia, MD 21045

410.313.1786 (Office)

hoswald@howardcountymd.gov

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FILE INQUIRY NOTES

FILE INQUIRY NOTES

[illegible]

SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

<p>INITIAL SYSTEM:</p> <ul style="list-style-type: none"> - APPLICATION RATE: 0.6 - EFFECTIVE AREA BEGINNING DEPTH: 5.5' - BOTTOM MAXIMUM DEPTH: 8' <p>1. DESIGN FLOW: - 8 RESIDENTS AT 100 GAL/DAY/RESIDENT - 8 X 100 GPD = 800 GPD</p> <p>2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: - DESIGN FLOW (800 GPD) / APPLICATION RATE (0.6) = 1333.3 SF</p> <p>3. SIDEWALL REDUCTION CREDIT: - TRENCH WIDTH (W) = 3' - TRENCH EFFECTIVE DEPTH (D) = 2.5' - (W+2) / (W+1+2D) X 100 = 55.55%</p> <p>4. LINEAR LENGTH OF TRENCH REQUIRED: - DRAIN FIELD SQUARE FOOTAGE (1333.3) X 9' SIDEWALL REDUCTION CREDIT (55.55%) / TRENCH WIDTH (3') = 740.69/3 = 246.9 LF</p> <p>5. LINEAR LENGTH OF TRENCH PROVIDED = 246.9' - THREE TRENCHES 82.3 LF/EACH</p> <p>6. EXISTING GRADE: TRENCH R1-1: 628.4 TRENCH R1-2: 627.9 TRENCH R1-3: 627.3 TRENCH R1-4: 622.9</p> <p>7. INVERT: TRENCH R1-2: 622.4 TRENCH R1-3: 621.8</p>	<p>REPLACEMENT SYSTEM #1:</p> <ul style="list-style-type: none"> - APPLICATION RATE: 0.6 - EFFECTIVE AREA BEGINNING DEPTH: 5.5' - BOTTOM MAXIMUM DEPTH: 8' <p>1. DESIGN FLOW: - 8 RESIDENTS AT 100 GAL/DAY/RESIDENT - 8 X 100 GPD = 800 GPD</p> <p>2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: - DESIGN FLOW (800 GPD) / APPLICATION RATE (0.6) = 1333.3 SF</p> <p>3. SIDEWALL REDUCTION CREDIT: - TRENCH WIDTH (W) = 3' - TRENCH EFFECTIVE DEPTH (D) = 2.5' - (W+2) / (W+1+2D) X 100 = 55.55%</p> <p>4. LINEAR LENGTH OF TRENCH REQUIRED: - DRAIN FIELD SQUARE FOOTAGE (1333.3) X 9' SIDEWALL REDUCTION CREDIT (55.55%) / TRENCH WIDTH (3') = 740.69/3 = 246.9 LF</p> <p>5. LINEAR LENGTH OF TRENCH PROVIDED = 247' - FOUR TRENCHES 61.75 LF/EACH</p> <p>6. EXISTING GRADE: TRENCH R1-1: 628.3 TRENCH R1-2: 628.0 TRENCH R1-3: 627.9 TRENCH R1-4: 627.5</p> <p>7. INVERT: TRENCH R1-1: 622.8 TRENCH R1-2: 622.5 TRENCH R1-3: 622.4 TRENCH R1-4: 622.3</p>	<p>REPLACEMENT SYSTEM #2:</p> <ul style="list-style-type: none"> - APPLICATION RATE: 0.8 - EFFECTIVE AREA BEGINNING DEPTH: 5.5' - BOTTOM MAXIMUM DEPTH: 8' <p>1. DESIGN FLOW: - 8 RESIDENTS AT 100 GAL/DAY/RESIDENT - 8 X 100 GPD = 800 GPD</p> <p>2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: - DESIGN FLOW (800 GPD) / APPLICATION RATE (0.8) = 1000 SF</p> <p>3. SIDEWALL REDUCTION CREDIT: - TRENCH WIDTH (W) = 3' - TRENCH EFFECTIVE DEPTH (D) = 2.5' - (W+2) / (W+1+2D) X 100 = 55.55%</p> <p>4. LINEAR LENGTH OF TRENCH REQUIRED: - DRAIN FIELD SQUARE FOOTAGE (1000) X 9' SIDEWALL REDUCTION CREDIT (55.55%) / TRENCH WIDTH (3') = 185.17'</p> <p>5. LINEAR LENGTH OF TRENCH PROVIDED = 186' - THREE TRENCHES 62 LF/EACH</p> <p>6. EXISTING GRADE: TRENCH R2-1: 628.1 TRENCH R2-2: 627.8 TRENCH R2-3: 627.5 TRENCH R2-4: 627.2</p> <p>7. INVERT: TRENCH R2-1: 621.1 TRENCH R2-2: 620.8 TRENCH R2-3: 620.5 TRENCH R2-4: 620.2</p>
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NOTES:

- THE PURPOSE OF THIS PLAN IS TO OBTAIN APPROVAL FOR A PRIVATE SEWAGE AREA OF 10,000 SQUARE FEET OR GREATER TO UPGRADE THE CURRENT HOUSE TO AN ASSISTED LIVING FACILITY WITH 8 BEDROOMS.
- EMPLOYEES WILL WORK IN SHIFTS (MAX. 2 EMPLOYEES PER SHIFT). DESIGN FLOW FOR FACILITY IS 100 GALLONS/DAY/BED.
- TOPOGRAPHY SHOWN ON THIS LOT WAS FIELD RUN BY SHANABERGER & LANE IN APRIL, 2018 WITHIN THE LIMITS SHOWN. OTHER TOPOGRAPHY IS FROM 2013 HOWARD COUNTY LIDAR.
- ONSITE IMPROVEMENTS WITHIN THE LIMITS OF FIELD RUN TOPOGRAPHY WERE LOCATED BY SHANABERGER & LANE IN APRIL, 2018. OTHER IMPROVEMENTS SHOWN ARE FROM 2013 HOWARD COUNTY LIDAR. ONSITE WELL AND 4 EXISTING OFFSITE WELLS WERE FIELD-LOCATED IN APRIL, 2018.
- OTHER EXISTING WELL AND SEPTIC SYSTEM LOCATIONS SHOWN HEREON ARE FROM AVAILABLE HOWARD COUNTY HEALTH DEPARTMENT RECORDS.
- W PROPOSED WELL AREA

W EXISTING WELL

SOIL TYPE BOUNDARY

WOODS/LINE/TREES

3 SUCCESSFUL PERC TEST

5 FAILED PERC TEST

DRAINAGE DIVIDES
- SOIL TYPES PER N.C.S. WEB SOIL SURVEY:
GgB - Glenelg loam, 3 to 8 percent slopes
GgC - Glenelg loam, 8 to 15 percent slopes
GnB - Glenelg-Bell silt loam, 0 to 8 percent slopes
- BOUNDARY LINES SHOWN HEREON ARE FROM HOWARD COUNTY TAX MAP INFORMATION AND FROM DEEDS OR PLATS OF RECORD. THEY DO NOT REPRESENT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN ARE FROM DEEDS OR PLATS OF RECORD AND DO NOT REPRESENT A BOUNDARY SURVEY BY SHANABERGER & LANE.
- DESIGNATES LIMITS OF FIELD-RUN TOPOGRAPHY
- ANY CHANGE TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- ALL KNOWN EXISTING WELLS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND WELLS WITHIN 200' DOWNSLOPE OF THE PROPOSED SDA HAVE BEEN SHOWN PER FIELD LOCATION WHEN POSSIBLE AND PER AVAILABLE RECORDS WHEN NOT POSSIBLE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA TO ACCOMMODATE 3 SYSTEMS AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- A PRETREATMENT UNIT SHALL BE REQUIRED FOR A DOWN GRADIENT WELL AND/OR FOR EFFLUENT QUALITY STRONGER THAN 300 mg/l BIOLOGICAL OXYGEN DEMAND OR 300 mg/l SUSPENDED SOLIDS PER COMAR 26.04.02.
- EXISTING WELL MUST BE SEALED AND ABANDONED WITH COMPLETION REPORT SUBMITTED TO THE HEALTH DEPARTMENT, AND A NEW WELL MUST BE DRILLED WITH COMPLETION REPORT SUBMITTED TO THE HEALTH DEPARTMENT AND APPROVED PRIOR TO HEALTH APPROVAL OF A BUILDING PERMIT.
- THE EXISTING WELL MUST BE PROPERLY ABANDONED AND SEALED BY A LICENSED WELL DRILLER. THE DRILLER MUST COORDINATE WITH THE HEALTH DEPARTMENT PRIOR TO ABANDONMENT SO THAT THE HEALTH DEPARTMENT MAY BE PRESENT ON-SITE TO OVERSEE THE ABANDONMENT. AN ABANDONMENT REPORT MUST BE SUBMITTED TO THE HEALTH DEPARTMENT FOR REVIEW PRIOR TO ISSUANCE OF A SEPTIC PERMIT.
- THE NEW SEPTIC SYSTEM MUST BE INSTALLED PRIOR TO HEALTH DEPARTMENT APPROVAL OF A BUILDING PERMIT.
- DESIGNATES APPROVED PERC AREA.
- DESIGNATES APPROVED PERC AREA ON PLAT #8262 TO BE ABANDONED.
- MDE HAS APPROVED A VARIANCE TO ALLOW THE SEWAGE DISPOSAL AREA ON LOT 9 TO BE UP-GRADE/INTEGRATION OF THE WELL LOCATED ON LOT 8 (3246 ROSCOMMON DRIVE) AND ITS SUBJECT TO THE FOLLOWING CONDITION:
1.) A BAT UNIT IS REQUIRED AND IT MUST BE TIMED DOSED (INSTALL A 2-COMPARTMENT TANK WITH A PUMP IN THE SECOND CHAMBER ON A TIMER BEFORE THE BAT UNIT).

SHANABERGER & LANE

8726 TOWN & COUNTRY BLVD.
SUITE 201
ELLCOTT CITY, MD 21043
(410) 461-9563
(410) 461-9693 fax
home@sharlane.com

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON REFLECTS WORK DONE BY ME OR UNDER MY DIRECT SUPERVISION USING AVAILABLE PUBLIC AND PRIVATE INFORMATION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

G. Scott Shanabarger
G. SCOTT SHANABARGER
PROFESSIONAL LAND SURVEYOR #10845
LICENSE EXPIRATION DATE 4/2/2020

DATE 8/23/18

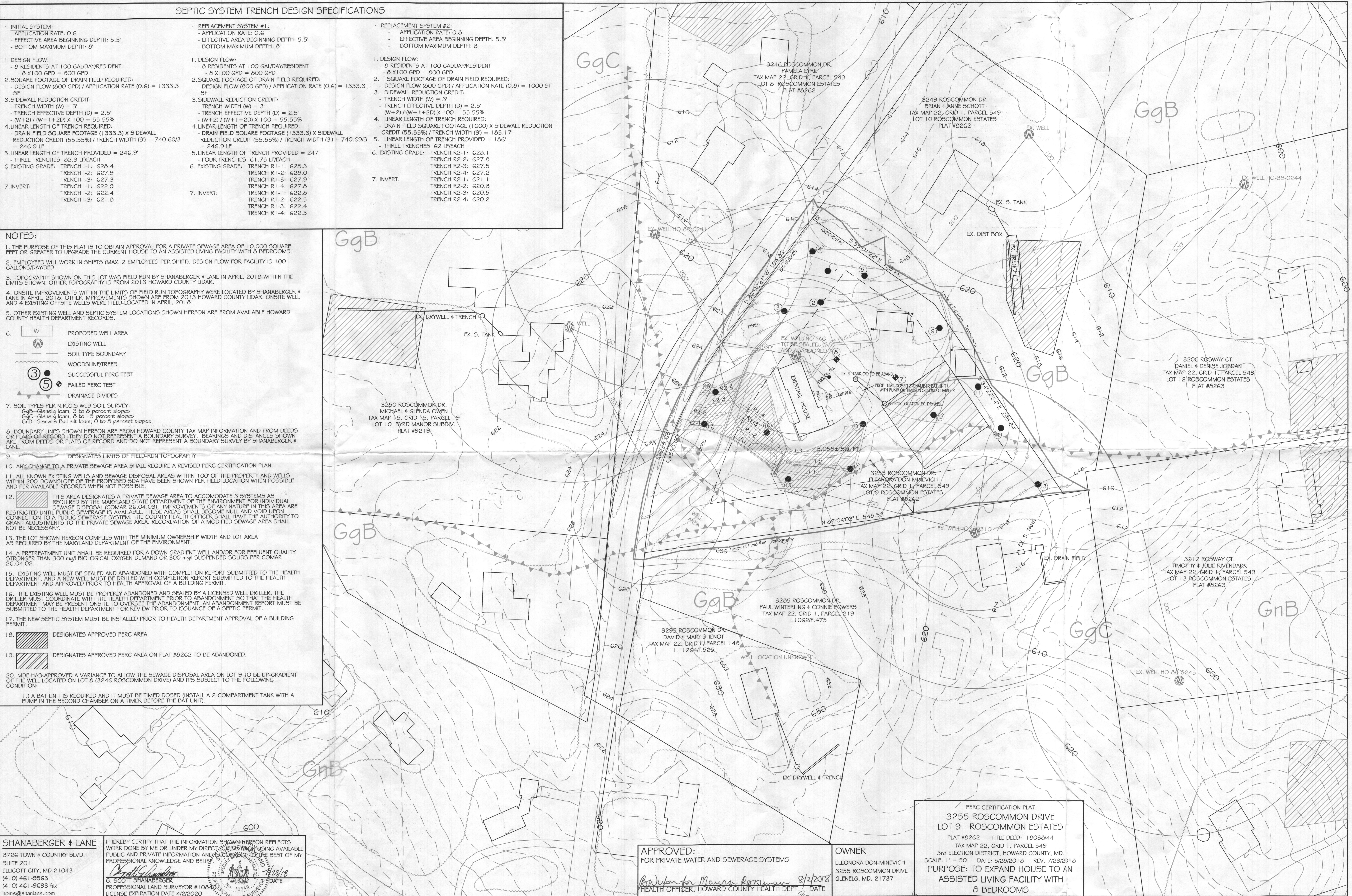
APPROVED:
FOR PRIVATE WATER AND SEWERAGE SYSTEMS

Maura Roman 8/2/2018
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. / DATE

OWNER

ELEONORA DON-MINEVICH
3255 ROSCOMMON DRIVE
GLENELG, MD. 21737

PERC CERTIFICATION PLAN
3255 ROSCOMMON DRIVE
LOT 9 ROSCOMMON ESTATES
PLAT #8262 TITLE DEED: 18038/44
TAX MAP 22, GRID 1, PARCEL 549
3rd ELECTION DISTRICT, HOWARD COUNTY, MD.
SCALE: 1" = 50' DATE: 5/28/2018 REV. 7/23/2018
PURPOSE: TO EXPAND HOUSE TO AN ASSISTED LIVING FACILITY WITH 8 BEDROOMS



8 BR's @ 100 GPD
/ 24968

SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

INITIAL SYSTEM: <ul style="list-style-type: none">- APPLICATION RATE: 0.6- EFFECTIVE AREA BEGINNING DEPTH: 5.5'- BOTTOM MAXIMUM DEPTH: 8'	REPLACEMENT SYSTEM #1: <ul style="list-style-type: none">- APPLICATION RATE: 0.8- EFFECTIVE AREA BEGINNING DEPTH: 5.5'- BOTTOM MAXIMUM DEPTH: 8'	REPLACEMENT SYSTEM #2: <ul style="list-style-type: none">- APPLICATION RATE: 0.8- EFFECTIVE AREA BEGINNING DEPTH: 7'- BOTTOM MAXIMUM DEPTH: 8'
1. DESIGN FLOW: <ul style="list-style-type: none">- 8 BEDROOMS AT 150 GPD- 8 X 150 GPD = 1200 GPD	1. DESIGN FLOW: <ul style="list-style-type: none">- 8 BEDROOMS AT 150 GPD- 8 X 150 GPD = 1200 GPD	1. DESIGN FLOW: <ul style="list-style-type: none">- 8 BEDROOMS AT 150 GPD- 8 X 150 GPD = 1200 GPD
2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: <ul style="list-style-type: none">- DESIGN FLOW (1200 GPD) / APPLICATION RATE (0.6) = 2000 SF	2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: <ul style="list-style-type: none">- DESIGN FLOW (1200 GPD) / APPLICATION RATE (0.8) = 1500 SF	2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED: <ul style="list-style-type: none">- DESIGN FLOW (1200 GPD) / APPLICATION RATE (0.8) = 1500 SF
3. SIDEWALL REDUCTION CREDIT: <ul style="list-style-type: none">- TRENCH WIDTH (W) = 3'- TRENCH EFFECTIVE DEPTH (D) = 2.5'- (W+2) / (W+1+2D) X 100 = 55.55%	3. SIDEWALL REDUCTION CREDIT: <ul style="list-style-type: none">- TRENCH WIDTH (W) = 3'- TRENCH EFFECTIVE DEPTH (D) = 2.5'- (W+2) / (W+1+2D) X 100 = 55.55%	3. SIDEWALL REDUCTION CREDIT: <ul style="list-style-type: none">- TRENCH WIDTH (W) = 3'- TRENCH EFFECTIVE DEPTH (D) = 1'- (W+2) / (W+1+2D) X 100 = 83.33%
4. LINEAR LENGTH OF TRENCH REQUIRED: <ul style="list-style-type: none">- DRAIN FIELD SQUARE FOOTAGE (1200) X SIDEWALL REDUCTION CREDIT (55.55%) / TRENCH WIDTH (3') = 1111.11/3 = 370.37 LF	4. LINEAR LENGTH OF TRENCH REQUIRED: <ul style="list-style-type: none">- DRAIN FIELD SQUARE FOOTAGE (1500) X SIDEWALL REDUCTION CREDIT (55.55%) / TRENCH WIDTH (3') = 277.75 LF	4. LINEAR LENGTH OF TRENCH REQUIRED: <ul style="list-style-type: none">- DRAIN FIELD SQUARE FOOTAGE (1500) X SIDEWALL REDUCTION CREDIT (83.33%) / TRENCH WIDTH (3') = 416.65'
5. LINEAR LENGTH OF TRENCH PROVIDED = 370.5' <ul style="list-style-type: none">- FIVE TRENCHES 74.1 LF/EACH	5. LINEAR LENGTH OF TRENCH PROVIDED = 278' <ul style="list-style-type: none">- FOUR TRENCHES 69.5 LF/EACH	5. LINEAR LENGTH OF TRENCH PROVIDED = 417' <ul style="list-style-type: none">- FIVE TRENCHES 83.4 LF/EACH
6. EXISTING GRADE: <ul style="list-style-type: none">TRENCH R-1: 628.6TRENCH R-2: 628.1TRENCH R-3: 628.3TRENCH R-4: 627.9TRENCH R-5: 627.8	6. EXISTING GRADE: <ul style="list-style-type: none">TRENCH R-1-1: 628.2TRENCH R-1-2: 627.8TRENCH R-1-3: 627.4TRENCH R-1-4: 627.1TRENCH R-2-1: 622.7TRENCH R-2-2: 622.3TRENCH R-2-3: 621.9TRENCH R-2-4: 621.6	6. EXISTING GRADE: <ul style="list-style-type: none">TRENCH R2-1: 621.7TRENCH R2-2: 620.8TRENCH R2-3: 620.0TRENCH R2-4: 619.4TRENCH R2-5: 618.8TRENCH R2-6: 618.7TRENCH R2-7: 618.0TRENCH R2-8: 617.3TRENCH R2-9: 616.4TRENCH R2-10: 615.8
7. INVERT: <ul style="list-style-type: none">TRENCH R-1: 623.1TRENCH R-2: 622.6TRENCH R-3: 622.8TRENCH R-4: 622.4TRENCH R-5: 622.3		7. INVERT: <ul style="list-style-type: none">TRENCH R2-1: 614.7TRENCH R2-2: 613.8TRENCH R2-3: 613.0TRENCH R2-4: 612.4TRENCH R2-5: 611.8

NOTES:

- THE PURPOSE OF THIS PLAT IS TO OBTAIN APPROVAL FOR A PRIVATE SEWAGE AREA OF 10,000 SQUARE FEET OR GREATER TO UPGRADE THE CURRENT HOUSE TO 8 BEDROOMS.
- TOPOGRAPHY SHOWN ON THIS LOT WAS FIELD RUN BY SHANABERGER & LANE IN APRIL, 2018 WITHIN THE LIMITS SHOWN. OTHER TOPOGRAPHY IS FROM 2013 HOWARD COUNTY LIDAR.
- ONSITE IMPROVEMENTS WITHIN THE LIMITS OF FIELD RUN TOPOGRAPHY WERE LOCATED BY SHANABERGER & LANE IN APRIL, 2018. OTHER IMPROVEMENTS SHOWN ARE FROM 2013 HOWARD COUNTY LIDAR. ONSITE WELL AND 4 EXISTING OFFSITE WELLS WERE FIELD-LOCATED IN APRIL, 2018.
- OTHER EXISTING WELL AND SEPTIC SYSTEM LOCATIONS SHOWN HEREON ARE FROM AVAILABLE HOWARD COUNTY HEALTH DEPARTMENT RECORDS.
- PROPOSED WELL AREA

EXISTING WELL

SOIL TYPE BOUNDARY

WOODS/LINE/TREES

SUCCESSFUL PERC TEST

FAILED PERC TEST

DRAINAGE DIVIDES
- SOIL TYPES PER N.R.C.S. WEB SOIL SURVEY:
GgB-Glenelg loam, 3 to 8 percent slopes
GgC-Glenelg loam, 8 to 15 percent slopes
GnB-Glenelg-Ball silt loam, 0 to 8 percent slopes
- BOUNDARY LINES SHOWN HEREON ARE FROM HOWARD COUNTY TAX MAP INFORMATION AND FROM DEEDS OR PLATS OF RECORD. THEY DO NOT REPRESENT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN ARE FROM DEEDS OR PLATS OF RECORD AND DO NOT REPRESENT A BOUNDARY SURVEY BY SHANABERGER & LANE.
- DESIGNATES LIMITS OF FIELD-RUN TOPOGRAPHY
- ANY CHANGE TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION FORM.
- ALL KNOWN EXISTING WELLS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND WELLS WITHIN 200' DOWNSLOPE OF THE PROPOSED SDA HAVE BEEN SHOWN PER FIELD LOCATION WHEN POSSIBLE AND PER AVAILABLE RECORDS WHEN NOT POSSIBLE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- PRETREATMENT OF EFFLUENT IS REQUIRED.
- EXISTING WELL MUST BE SEALD AND ABANDONED WITH COMPLETION REPORT SUBMITTED TO THE HEALTH DEPARTMENT, AND A NEW WELL MUST BE DRILLED WITH COMPLETION REPORT SUBMITTED TO THE HEALTH DEPARTMENT AND APPROVED PRIOR TO HEALTH APPROVAL OF A BUILDING PERMIT.
- THE EXISTING WELL MUST BE PROPERLY ABANDONED AND SEALED BY A LICENSED WELL DRILLER. THE DRILLER MUST COORDINATE WITH THE HEALTH DEPARTMENT PRIOR TO ABANDONMENT SO THAT THE HEALTH DEPARTMENT MAY BE PRESENT ON SITE TO OVERSEE THE ABANDONMENT. AN ABANDONMENT REPORT MUST BE SUBMITTED TO THE HEALTH DEPARTMENT FOR REVIEW PRIOR TO ISSUANCE OF A SEPTIC PERMIT.

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 201
ELICOTT CITY, MD 21043
(410) 461-9563
(410) 461-9693 fax
home@shanlane.com

I HEREBY CERTIFY THAT THE INFORMATION SHOWN ON THIS PLAT REFLECTS WORK DONE BY ME OR UNDER MY DIRECT SUPERVISION USING AVAILABLE PUBLIC AND PRIVATE INFORMATION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

G. Scott Shanaberger
G. SCOTT SHANABERGER
PROFESSIONAL LAND SURVEYOR #10849
LICENSE EXPIRATION DATE 4/2/2020

APPROVED:
FOR PRIVATE WATER AND SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER DATE

OWNER
ELEONORA DON-MINEVICH
3255 ROSCOMMON DRIVE
GLENELG, MD, 21737

PERC CERTIFICATION PLAT
3255 ROSCOMMON DRIVE
LOT 9 ROSCOMMON ESTATES
PLAT #8262 TITLE DEED: 18038/44
TAX MAP 22, GRID 1, PARCEL 549
3rd ELECTION DISTRICT, HOWARD COUNTY, MD.
SCALE: 1" = 50' DATE: 5/4/2018
PURPOSE: TO EXPAND SEWAGE DISPOSAL
AREA TO ACCOMMODATE 8 BEDROOMS

Health office,

At time of ODS plan
300ppm BOD \approx 1551
BOD \approx 1551
common
204002