

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 www.hchealth.org

Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME KEENY PROPERTY
PROPERTY ADDRESS 14041 HOWARD ROAD, DAYTON MD Z1036 TOWN ZIP
TAX ACCOUNT # 352355 TAX MAP 27 GRID 6 PARCEL 94 LOT NO. 3 SIZE (ACRES) 3.96
ZONING CATEGORY RC-DEO TIER
PROPERTY OWNER(S) ROY E. KEENY JR.
DAYTIME PHONE CELL EMAIL
MAILING ADDRESS 14026 HOWARD ROAD, DAYTON MD Z1036
APPLICANT DEVIA KEENS RELATIONSHIP TO OWNER: SOM
DAYTIME PHONE 443-677-4866 CELL Same EMAIL devin. Keens @ Inp. com
MAILING ADDRESS 14043 Howard Road Dayton, MD 21036 STREET CHY, STATE ZIP
I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):
SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING)
IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR? U YES
S 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.
Deoni 6 10/26/18
SIGNATURE OF APPLICANT DATE



Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

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

MEMORANDUM

TO:

Benchmark

8480 Baltimore National Pike

Ellicott City, MD 21043

FROM:

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

RE:

14041 Howard Road

Date:

December 20, 2018

The perc cert plan for 14041 Howard Road has been reviewed with the following comments:

- 1.) Add note The existing well and septic system must be properly abandoned with documentation sent to the Health Department prior to the issuance of the demo permit.
- 2.) Add note Existing septic system must be properly abandoned with documentation sent to Health Department prior to issuance of any well permit within 100 feet.
- 3.) Show future septic tank (s) locations on plan.
- 4.) Field locate the existing drywell on plan.
- 5.) Remove existing sewage disposal area from plan and legend.

From: Sent:

То:	'Chris Malagari'; Oswald, Hank
Cc:	Mark Potter
Subject:	RE: 14041 Perc Cert resubmission
Hi Chris. The issue is that the an	proximate drywell location is right next to the corner of the proposed SDA. The existing
	es from the septic tank to the drywell. One of the distances has it 65' from the tank,
	ht in the corner of the SDA. This makes it an issue, because any proposed trenches have
	rywell. With the ambiguity of the drywell location in the old records and the possible
	we need to see an exact drywell location on the perc cert.
, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,
The record from 1986 indicates	a drywell clean out. I suggest probing or using a metal detector in that area and you
might be able to find it without	having to get any heavy equipment onsite. Thanks
Jeff	
<u> </u>	nalagari@bei-civilengineering.com]
Sent: Wednesday, December 26 To: Oswald, Hank	o, 2018 10:11 AM
Cc: Mark Potter; Williams, Jeffre	av
Subject: Re: 14041 Perc Cert re	
-	from outside of the organization. Please only click on links or attachments if
you know the sender.]	
TT 1 T4 ! 1 ! 11	4.41. A
	at the drywell is on the side of the house where we dug. The existing septic tank is
	showed the drywell just down slope from the tank near the location we show on
	ly bring lived in and the owner does not want to disturb the system until they are
ready to tear down house.	he drywell will be properly abandoned during house abandonment. Chris
On Wed. Dec 26, 2018 at 8:33	8 AM Oswald, Hank < <u>hoswald@howardcountymd.gov</u> > wrote:
Hi Mark:	
What hannens if we discover	r that the drywell is not where you are showing it on the plan but in the location of
1 1	don't think there is any way around this. I've copied my supervisor on this email.
the new system of tanks:	don't timik there is any way around this. I we copied my supervisor on this email.
Thanks,	
Hank	
Tank	
	•

Williams, Jeffrey

Monday, December 31, 2018 9:42 AM

From: Mark Potter [mailto:mpotter@bei-civilengineering.com]

Sent: Thursday, December 20, 2018 12:10 PM

To: Oswald, Hank **Cc:** 'Chris Malagari'

Subject: 14041 Perc Cert resubmission

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

Hank,

Attached is the revised Perc Cert for 14041 Howard Road. I added the two notes, showed the potential septic tank, pump tank, and distribution box locations (for initial and future OSDS), and removed the existing sewage disposal area.

As for field locating the existing dry well, I would like to ask if we can avoid doing that. We did a field survey and they came back with data to their fullest extent, meaning we don't have the ability to locate this dry well without digging. For the client and current tenants sake, we would like to dig up and properly abandon with documentation during the demo/construction phase of the project. Based on the old health department and septic system plans, we believe the approximate location of the dry well is accurate.

Thanks for getting back to us so quick and let me know what you think,

Mark Potter

Design Engineer

Benchmark Engineering, Inc.

8480 Baltimore National Pike, Suite 315

Ellicott City, MD 21043

410-465-6105 ext. 1154

Hatfield's Equipment and Dedication Services, Inc.

P.O. Box 519 • Annapolis Junction, MD 20701-0519 Office: 301-490-4289 / 888-490-4289 • Fax: 301-490-5794

Howard County Health Department 8930 Stanford Drive Columbia, MD 21045

January 11, 2019

Owner: Sharon Keeny & Roy Keeny Jr.

Address: 14041 Howard Road

Dayton, MD 21036

Hatfield's Equipment and Dedication Services, Inc. located the septic and drywell for the above property.

The septic tank has a visible 6"terracotta pipe above grade. The drywell was located with a cement cover just inches below the ground with no cleanout or observation port. The system was installed as per county sketch. A marked wooden stake was placed above the invert area of the drywell. The area is marked in orange paint.

Ken Hatfield, president

Hank Oswald

From:	Oswald, Hank
Sent:	Thursday, January 17, 2019 1:27 PM
То:	'mpotter@bei-civilengineering.com'
Subject:	RE: Perc Cert_14041 Howard Road
Hi Mark:	
-	Il today at 14049 Howard Road. It's located 21 feet off rear of home. I am going to nature with this information. I will keep you posted.
Thanks,	
Hank	
Sent: Thursday, January 17, 2019	
To: Oswald, Hank <hoswald@how Subject: RE: Perc Cert_14041 How</hoswald@how 	•
[Note: This email originated for you know the sender.]	rom outside of the organization. Please only click on links or attachments if
Hank,	
to find out where the existing wel information, but came up empty. chance that the well(s) are shown	shared property line with 14049 Howard Road is 251 feet, so I thought it wasn't critical I(s) for that property are. I did do a quick search for 14049 Howard Road well I think I would have to do a Public Information Request through the Health Dept for a accurately by old records. But since there's no way a well could be any closer than In't need to spend the time to do so.
Let me know what you think, thar Mark	ıks,
From: Oswald, Hank < hoswald@h Sent: Thursday, January 17, 2019 To: mpotter@bei-civilengineering Subject: Perc Cert_14041 Howard	10:14 AM .com
Hi Mark:	
• • • • • • • • • • • • • • • • • • • •	Do you know where the well is located on 14049 Howard Road? We want to ensure t/within the area where you are showing the soil unit on the lot.
Thanks,	
Hank	

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

CONFIDENTIALITY NOTICE

From:

Oswald, Hank

Sent:

Monday, January 14, 2019 9:56 AM

To:

'mpotter@bei-civilengineering.com'

Cc:

cmalagari@bei-civilengineering.com

Subject:

RE: 14041 Perc Cert Resubmission

Hi Mark:

Since you are proposing the first system to be located within the smaller SDA, we would like to see how the trench(s) fit. Also, please show the calculations on the plan. I've attached a copy of the septic specs for your convenience. Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

From: mpotter@bei-civilengineering.com [mailto:mpotter@bei-civilengineering.com]

Sent: Friday, January 11, 2019 4:20 PM

To: Oswald, Hank

Cc: <u>cmalagari@bei-civilengineering.com</u> **Subject:** 14041 Perc Cert Resubmission

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

Hank,

Attached is the revised Perc Cert. Hatfield's Equipment and Dedication Services, Inc. went out and field located the dry well on 1/10/19 and this Per Cert Plan includes the updated location and label. I also attached their confirmation letter.

Can I print out copies and bring them down for approval/signature? If you would like a note or anything added on let me know.

Thanks,

Mark Potter

Design Engineer Benchmark Engineering, Inc. 8480 Baltimore National Pike, Suite 315 Ellicott City, MD 21043 410-465-6105 ext. 1154

From:

Oswald, Hank

Sent:

Thursday, December 20, 2018 9:24 AM

To:

mpotter@bei-civilengineering.com; Chris Malagari (cmalagari@bei-

civilengineering.com)

Subject:

Perc Cert Plan_14041 Howard Road

Attachments:

PERC CERT Memo_Benchmark_2018.pdf

Hello Mark & Chris:

Attached, please find comments to the perc cert plan for 14041 Howard Road.

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

CONFIDENTIALITY NOTICE

ENGINEERING, INC. 8480 Baltimore National Pike • Suite 315 • Ellicott City Maryle

LETTER OF TRANSMITTAL

410-465-61	105 410	0-465-6644 (Fax)	DATE 12/18/18	PROJECT No. Z914
				DSWALD
			RE: 14041 How	
TO: How	ARD (DONITY		PERC CERT PLAN
HEAL	ARD CO) 		DRC CIAT 1 ZIVIO
IILAL	IN DE	. [
WE ARE SEND	DING YOU	☐ Attached ☐ U	nder separate cover via	the following items
] Photocopies		☐ Originals ☐	
] Specifications	☐ Invoices	☐ Change Order ☐	Other
COPIES of	No. of SHEETS		DESCRIPTION	
3	1	PERU CER		
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		as checked below For your use	DV For Approval	
	For Review	•	☑ For Approval☐ Other	
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REMARKS:			·	
		1 5		
COPY TO:	\mathcal{N}		11	/ 11
RECEIVED BY:	///	Whl	SIGNED: //	CTV .
	If enclosures are not a	s noted, kindly notify us at once.		•

From:

Oswald, Hank

Sent:

Monday, December 10, 2018 10:56 AM

To:

'Mark Potter'

Cc:

'Chris Malagari'; 'Devin Keeny'

Subject:

Perc Test Report_14041 Howard Road

Attachments:

Perc Test Report_14041 Howard Road_12.18.pdf; Perc test notes and septic specs_14041

Howard.pdf

Hello All:

Attached, please find the perc test report, field notes and septic specs for 14041 Howard Road.

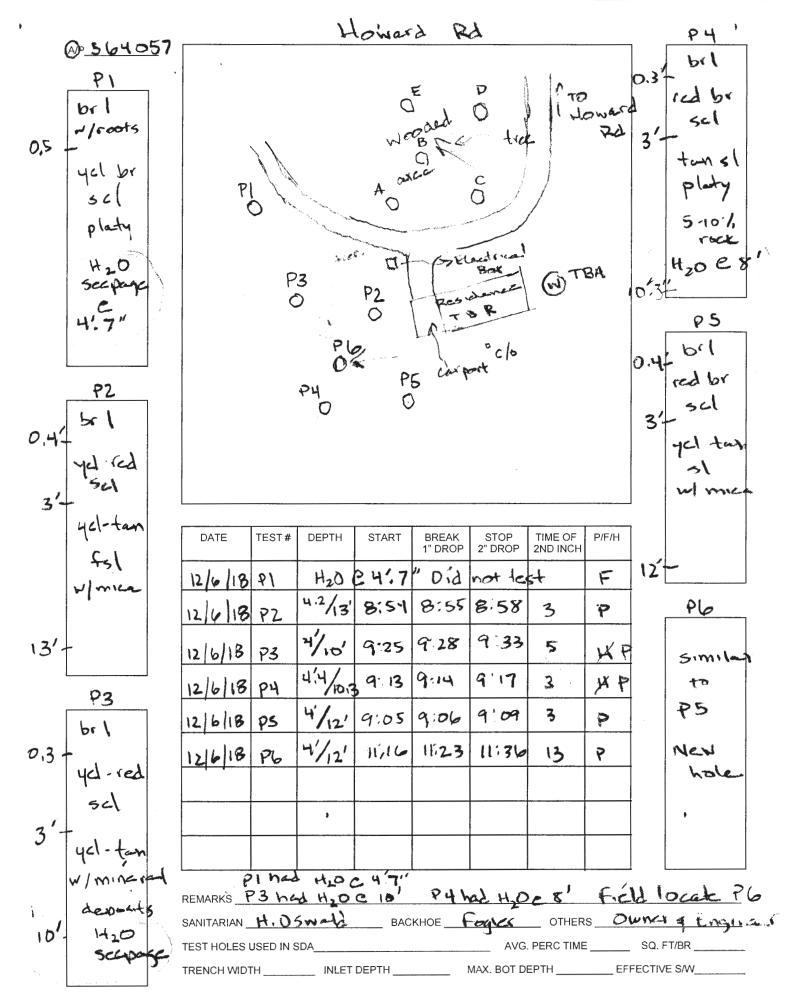
Should you have any questions, please don't hesitate to ask.

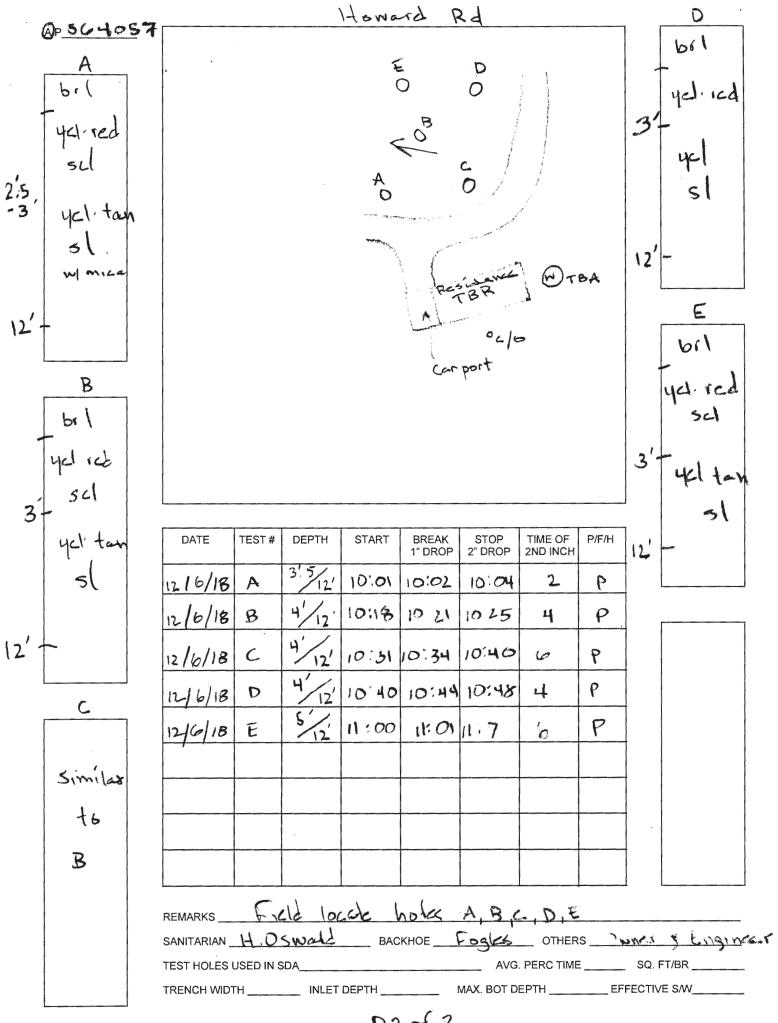
Respectively,

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

CONFIDENTIALITY NOTICE





P2012

From:

Oswald, Hank

Sent:

Monday, November 26, 2018 8:49 AM

To:

'Devin Keeny'

Subject:

RE: Perc Test Plan_14041 Howard Road

Hi Devin:

Confirmed. Thanks.

Hank

From: Devin Keeny [mailto:Devin.Keeny@LongandFoster.com]

Sent: Tuesday, November 20, 2018 10:30 AM

To: Oswald, Hank

Subject: Re: Perc Test Plan_14041 Howard Road

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

you know the sender.]

Hank - just following up, Fogles confirmed 8:30am on 11/28. See you then.

Happy Thanksgiving,

Devin

From: Oswald, Hank < hoswald@howardcountymd.gov>

Sent: Monday, November 19, 2018 8:52:06 AM

To: Devin Keeny

Subject: RE: Perc Test Plan_14041 Howard Road

You're welcome. I can start as early as 8:30 a.m.

From: Devin Keeny [mailto:Devin.Keeny@LongandFoster.com]

Sent: Monday, November 19, 2018 8:38 AM

To: Oswald, Hank; Mark Potter

Cc: 'Chris Malagari'

Subject: Re: Perc Test Plan_14041 Howard Road

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks Hank.

I'll let Fogles know and we'll plan to see you on 11/28. We have some time between now and then, but when you have an idea of what time you plan to start, please let me know so I can coordinate with them to ensure they arrive on time.

Have a Happy Thanksgiving.

Thanks,	
Devin	

From: Oswald, Hank < hoswald@howardcountymd.gov >

Sent: Monday, November 19, 2018 6:54:34 AM

To: Devin Keeny; Mark Potter

Cc: 'Chris Malagari'

Subject: RE: Perc Test Plan_14041 Howard Road

Hi Devin:

Yes, this works.

Thanks,

Hank

From: Devin Keeny [mailto:Devin.Keeny@LongandFoster.com]

Sent: Friday, November 16, 2018 2:01 PM

To: Oswald, Hank; Mark Potter

Cc: 'Chris Malagari'

Subject: Re: Perc Test Plan_14041 Howard Road

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Afternoon Hank,

I spoke with Fogles and they're available to perc on 11/28. Does that date still work for you? I know you said you preferred to do it sooner than later. If it does still work for you - I can confirm the date with them. Considering the unpredictability of the weather, I would also like to keep Hatfields on 12/18 (12/19 weather pending) as a back-up solution. Please let me know if this plan works for you.

Thanks, Devin

From: Oswald, Hank < hoswald@howardcountymd.gov > Sent: Thursday, November 15, 2018 12:36:55 PM

To: Devin Keeny; Mark Potter

Cc: 'Chris Malagari'

Subject: RE: Perc Test Plan_14041 Howard Road

Hi Devin:

Attached, please find a list of septic contractors. I've worked with several on the list to include Hatfields, Fogles, Freedom, South Carroll, and Level land. 12/18 (with 12/19 as a back-up date) is confirmed.

Thanks,

Hank

From: Devin Keeny [mailto:Devin.Keeny@LongandFoster.com]

Sent: Thursday, November 15, 2018 11:40 AM

To: Oswald, Hank; Mark Potter

Cc: 'Chris Malagari'

Subject: Re: Perc Test Plan_14041 Howard Road

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Hank,

Thanks for taking my call earlier. Following up on our conversation, Hatfields have confirmed they're available on 12/18 to test and will hold 12/19 as a back-up date. Please confirm this works for you.

In the meantime, if you have a list of other approved septic contractors, I can see if there is any one else available to test sooner.

I appreciate your help and flexibility.

Thanks, Devin

From: Oswald, Hank < hoswald@howardcountymd.gov >

Sent: Tuesday, November 13, 2018 6:52:31 AM

To: Mark Potter

Cc: 'Chris Malagari'; Devin Keeny

Subject: RE: Perc Test Plan 14041 Howard Road

Hello Mark:

Good morning. Yes, this looks fine. Please forward 2 hard copies of the test plan. I can test as early as next Monday, Nov 19 starting at 8 a.m. or Nov. $27 - 29^{th}$. In addition to my previous email, the test holes will need to be properly labeled and staked prior to the test date.

Please confirm a test date and septic contractor.

Thanks,

Hank

From: Mark Potter [mailto:mpotter@bei-civilengineering.com]

Sent: Thursday, November 08, 2018 10:51 AM

To: Oswald, Hank

Cc: 'Chris Malagari'; 'Devin Keeny'

Subject: RE: Perc Test Plan_14041 Howard Road

Hank,

Thank you for reviewing the Perc Test Plan for 14041 Howard Road.

To address your comment, we would like to test now, rather than wet season. I have attached a snippet of a new 10,000 sqft sewage disposal area that meets the 25' GnB soil setback while still conforming to the other septic setbacks required for perc testing. If this area is ok with you, we'll proceed with revising our Perc Testing Plan in order to receive the potential test dates from you.

If you have any questions or concerns, please feel free to ask. Thank you,

Mark Potter

Design Engineer Benchmark Engineering, Inc. 8480 Baltimore National Pike, Suite 315 Ellicott City, MD 21043 410-465-6105 ext. 1154

From: Oswald, Hank [mailto:hoswald@howardcountymd.gov]

Sent: Thursday, November 08, 2018 8:38 AM

To: devin.keeny@info.com

Cc: mpotter@bei-civilengineering.com
Subject: Perc Test Plan_14041 Howard Road

Hello Mr. Keeny:

The test plan for 14041 Howard Road has been reviewed with the following comment.

At this time, we can test the 3 upper holes on the plan as shown but we would like to wait on testing the 2 lower holes during wet season of next year. However, if you would like to adjust the proposed area to be 25 to 30 feet away from the GnB soil line, we can test all of them now.

Please let me know how you would like to proceed and I will send some potential test dates. You will need to hire a septic contractor with a backhoe to dig the test holes. Also, you or the septic contractor will need to notify Miss Utility in advance of the test date.

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

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from

From:

Oswald, Hank

Sent:

Tuesday, November 13, 2018 6:53 AM

To:

'Mark Potter'

Cc:

'Chris Malagari'; 'Devin Keeny'

Subject:

RE: Perc Test Plan 14041 Howard Road

Hello Mark:

Good morning. Yes, this looks fine. Please forward 2 hard copies of the test plan. I can test as early as next Monday, Nov 19 starting at 8 a.m. or Nov. $27 - 29^{th}$. In addition to my previous email, the test holes will need to be properly labeled and staked prior to the test date.

Please confirm a test date and septic contractor.

Thanks,

Hank

From: Mark Potter [mailto:mpotter@bei-civilengineering.com]

Sent: Thursday, November 08, 2018 10:51 AM

To: Oswald, Hank

Cc: 'Chris Malagari'; 'Devin Keeny'

Subject: RE: Perc Test Plan_14041 Howard Road

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Cc: mpotter@bei-civilengineering.com
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Thanks,

Hank

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

CONFIDENTIALITY NOTICE

From:

Oswald, Hank

Sent:

Thursday, November 15, 2018 12:37 PM

To:

'Devin Keeny'; Mark Potter

Cc:

'Chris Malagari'

Subject:

RE: Perc Test Plan_14041 Howard Road

Attachments:

Septic Contractors.pdf

Hi Devin:

Attached, please find a list of septic contractors. I've worked with several on the list to include Hatfields, Fogles, Freedom, South Carroll, and Level land. 12/18 (with 12/19 as a back-up date) is confirmed.

Thanks,

Hank

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Sent: Thursday, November 15, 2018 11:40 AM

To: Oswald, Hank; Mark Potter

Cc: 'Chris Malagari'

Subject: Re: Perc Test Plan_14041 Howard Road

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Hi Hank,

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In the meantime, if you have a list of other approved septic contractors, I can see if there is any one else available to test sooner.

I appreciate your help and flexibility.

Thanks, Devin

From: Oswald, Hank <hoswald@howardcountymd.gov>

Sent: Tuesday, November 13, 2018 6:52:31 AM

To: Mark Potter

Cc: 'Chris Malagari'; Devin Keeny

Subject: RE: Perc Test Plan 14041 Howard Road

Hello Mark:

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Please confirm a test date and septic contractor.

Thanks,

Hank

From: Mark Potter [mailto:mpotter@bei-civilengineering.com]

Sent: Thursday, November 08, 2018 10:51 AM

To: Oswald, Hank

Cc: 'Chris Malagari'; 'Devin Keeny'

Subject: RE: Perc Test Plan_14041 Howard Road

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If you have any questions or concerns, please feel free to ask. Thank you,

Mark Potter

Design Engineer
Benchmark Engineering, Inc.
8480 Baltimore National Pike, Suite 315
Ellicott City, MD 21043
410-465-6105 ext. 1154

From: Oswald, Hank [mailto:hoswald@howardcountymd.gov]

Sent: Thursday, November 08, 2018 8:38 AM

To: devin.keeny@info.com

Cc: mpotter@bei-civilengineering.com
Subject: Perc Test Plan_14041 Howard Road

Hello Mr. Keeny:

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• At this time, we can test the 3 upper holes on the plan as shown but we would like to wait on testing the 2 lower holes during wet season of next year. However, if you would like to adjust the proposed area to be 25 to 30 feet away from the GnB soil line, we can test all of them now.

Please let me know how you would like to proceed and I will send some potential test dates. You will need to hire a septic contractor with a backhoe to dig the test holes. Also, you or the septic contractor will need to notify Miss Utility in advance of the test date.

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

CONFIDENTIALITY NOTICE

From:

Oswald, Hank

Sent:

Thursday, November 08, 2018 8:38 AM

To:

'devin.keeny@info.com'

Cc: Subject: 'mpotter@bei-civilengineering.com' Perc Test Plan_14041 Howard Road

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Thanks,

Hank

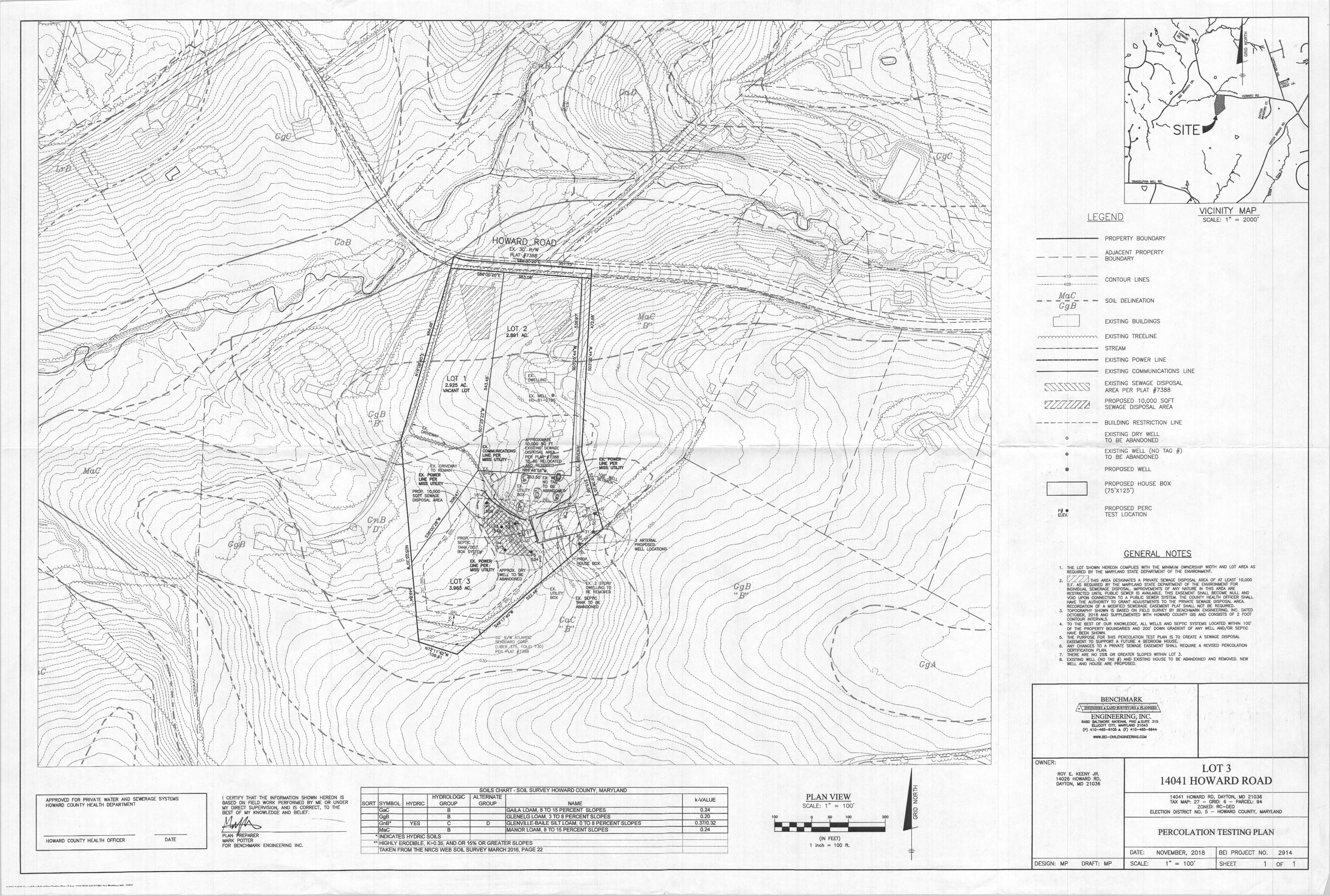
Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

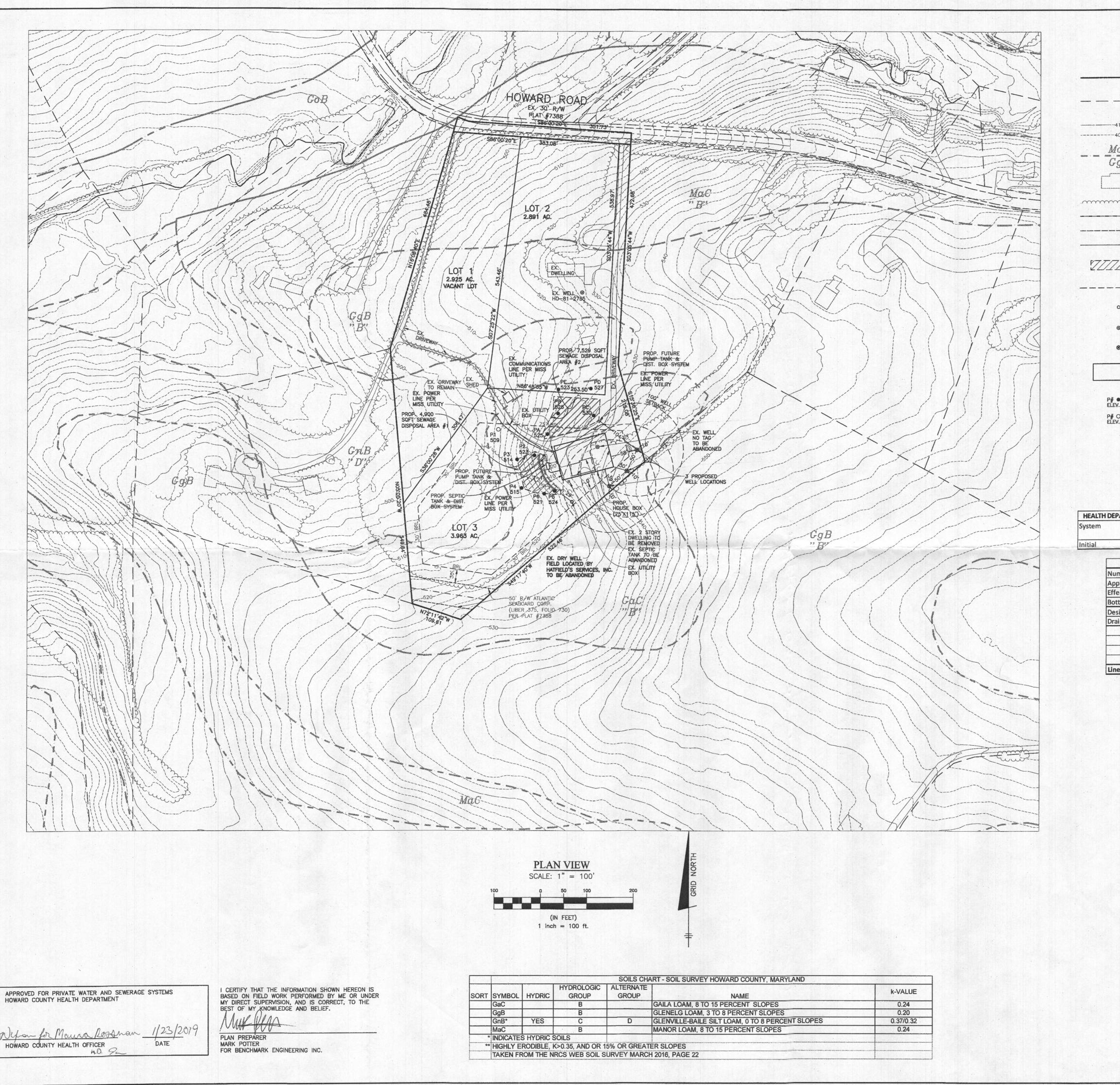
CONFIDENTIALITY NOTICE

ENGINEERING, INC.
8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043

LETTER OF TRANSMITTAL

410-465-6	105 410)-465-6644 (Fax)	DATE 1. 121 116	PROJECT No. Z 914
			10/51/18	2914
			ATTENTION HANK	KOSWALD
			RE: 14041 H	OWARD RD COT 3
TO: 40.142	D COUNTY			TING PLAN
			100	
FIEACI	M DERT.			
		· ·		
				·
WE ARE SENI	DING YOU	☑ Attached ☐ Un	der separate cover via	a the following items
] Photocopies	☑ Prints	☐ Originals	☐ Samples
	3 Specifications	☐ Invoices		☐ Other
			¥	
COPIES of	No. of SHEETS		DESCRIPTION	·
1	1	PERC TESTIA	19 APPLICAT	102
3	l	PERC TESTI	_	-
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THESE ARE T	RANSMITTED	as checked below		
	For Comment	☐ For your use	☐ For Approval	• .
· E	For Review	☐ As requested	☐ Other	
REMARKS:				
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			A	11.
COPY TO:	11/1	177	$\lambda \wedge \lambda \wedge$	LAHA
RECEIVED BY:			SIGNED: 2007	~ IIV »
-	π enclosures are not a	s noted, kindly notify us at once.		







 PROPERTY BOUNDARY ADJACENT PROPERTY BOUNDARY CONTOUR LINES SOIL DELINEATION EXISTING BUILDINGS EXISTING TREELINE ----- STREAM ---- EXISTING POWER LINE EXISTING COMMUNICATIONS LINE PROPOSED SEWAGE DISPOSAL AREA ---- BUILDING RESTRICTION LINE EXISTING SEPTIC DRY WELL TO BE ABANDONED EXISTING WELL (NO TAG #) TO BE ABANDONED PROPOSED WELL

HEALTH DEPARTMENT SPEC SHEET INFORMATION - LOT 3 - 1ST SYSTEM				
System	Application Rate	Effective Depth	Bottom Depth	
Initial	0.8	3.0	8.0	

PROPOSED HOUSE BOX

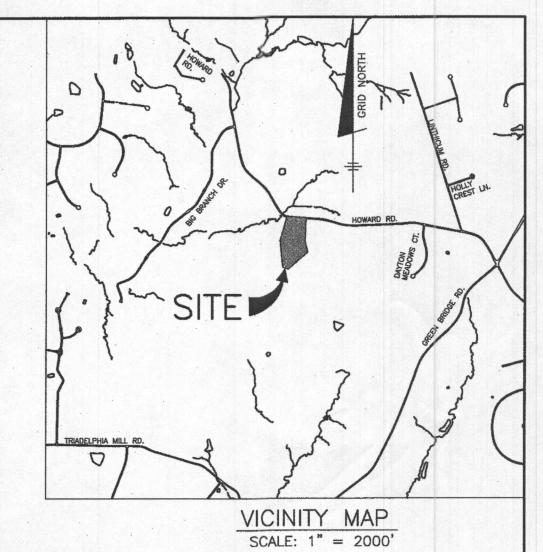
PASSED PERC TEST - 12/6/18

FAILED PERC TEST - 12/6/18

(75'X115')

INITIAL SYSTEM	Л	4- 30
Number of Bedrooms	4	
Application Rate	0.8	gpd/
Effective Area Beginning Depth	3.0	ft
Bottom Max Depth	8.0	ft
Design Flow	600	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.36	
Trench width	3	ft
Effective Area Depth	5	ft
Trench Spacing	13	ft
Linear Length of trench Required	89	lf

TRENCH DATA - LOT 3 - 1ST SYSTEM INITIAL SYSTEM TRENCH 1 (T-1) LENGTH **GROUND ELEVATION** INVERT ELEVATION MAX BOTTOM ELEVATION



GENERAL NOTES

- 1. PT THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL, IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.

 2. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.

 3. ANY CHANGES TO A PRIVATE SEWAGE FASEMENT SHALL REQUIRE A REVISED PERCOLATION.
- 3. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. 4. TO THE BEST OF OUR KNOWLEDGE, ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF
- THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC HAVE BEEN SHOWN.
- BEEN SHOWN.

 5. TOPOGRAPHY SHOWN IS BASED ON FIELD SURVEY BY BENCHMARK ENGINEERING, INC. DATED OCTOBER, 2018 AND SUPPLEMENTED WITH HOWARD COUNTY GIS AND CONSISTS OF 2 FOOT CONTOUR INTERVALS.

 6. THERE ARE NO 25% OR GREATER SLOPES WITHIN LOT 3.

 7. EXISTING WELL (NO TAG #) AND EXISTING HOUSE TO BE ABANDONED AND REMOVED. NEW WELL AND HOUSE ARE PROPOSED.

 8. THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO CREATE A NEW SEWAGE DISPOSAL AREA AND DESIGNATE THREE WELL LOCATIONS TO SUPPORT A FUTURE SINGLE FAMILY RESIDENCE.

 9. THE PROPOSED SEWAGE DISPOSAL AREA SHOWN ON THIS PLAN IS 12,429 SQ. FT. THE PROPOSED RESIDENCE IS A 4 BEDROOM HOUSE.

 10. THE EXISTING WELL AND SEPTIC SYSTEM MUST BE PROPERLY ABANDONED WITH DOCUMENTATION SENT TO THE HEALTH DEPARTMENT PRIOR TO THE ISSUANCE OF THE DEMO PERMIT.

- 11. EXISTING SEPTIC SYSTEM MUST BE PROPERLY ABANDONED WITH DOCUMENTATION SENT TO THE HEALTH DEPARTMENT PRIOR TO ISSUANCE OF ANY WELL PERMIT WITHIN 100 FEET.

 12. INITIAL ONSITE SEPTIC DISPOSAL SYSTEM SHALL BE GRAVITY FED TO THE SEPTIC DISPOSAL AREA #1, AND THE 2ND AND 3RD REPLACEMENT SYSTEMS SHALL BE PUMPED TO SEPTIC
- DISPOSAL AREA #2.

 13. SEPTIC DESIGN SHALL BE DETERMINED AS PART OF THE BUILDING PERMIT PLAN. 14. IF OR WHEN SEPTIC DISPOSAL AREA #2 IS UTILIZED IN THE FUTURE, A PUMP AND PUMP TANK DESIGN SHALL BE REQUIRED.

THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO CREATE A NEW SEWAGE DISPOSAL AREA AND DESIGNATE THREE WELL LOCATIONS TO SUPPORT A FUTURE SINGLE FAMILY RESIDENCE.

BENCHMARK ENGINEERS LAND SURVEYORS PLANNERS

ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 315 ELLICOTT CITY, MARYLAND 21043

(P) 410-465-6105 ▲ (F) 410-465-6644

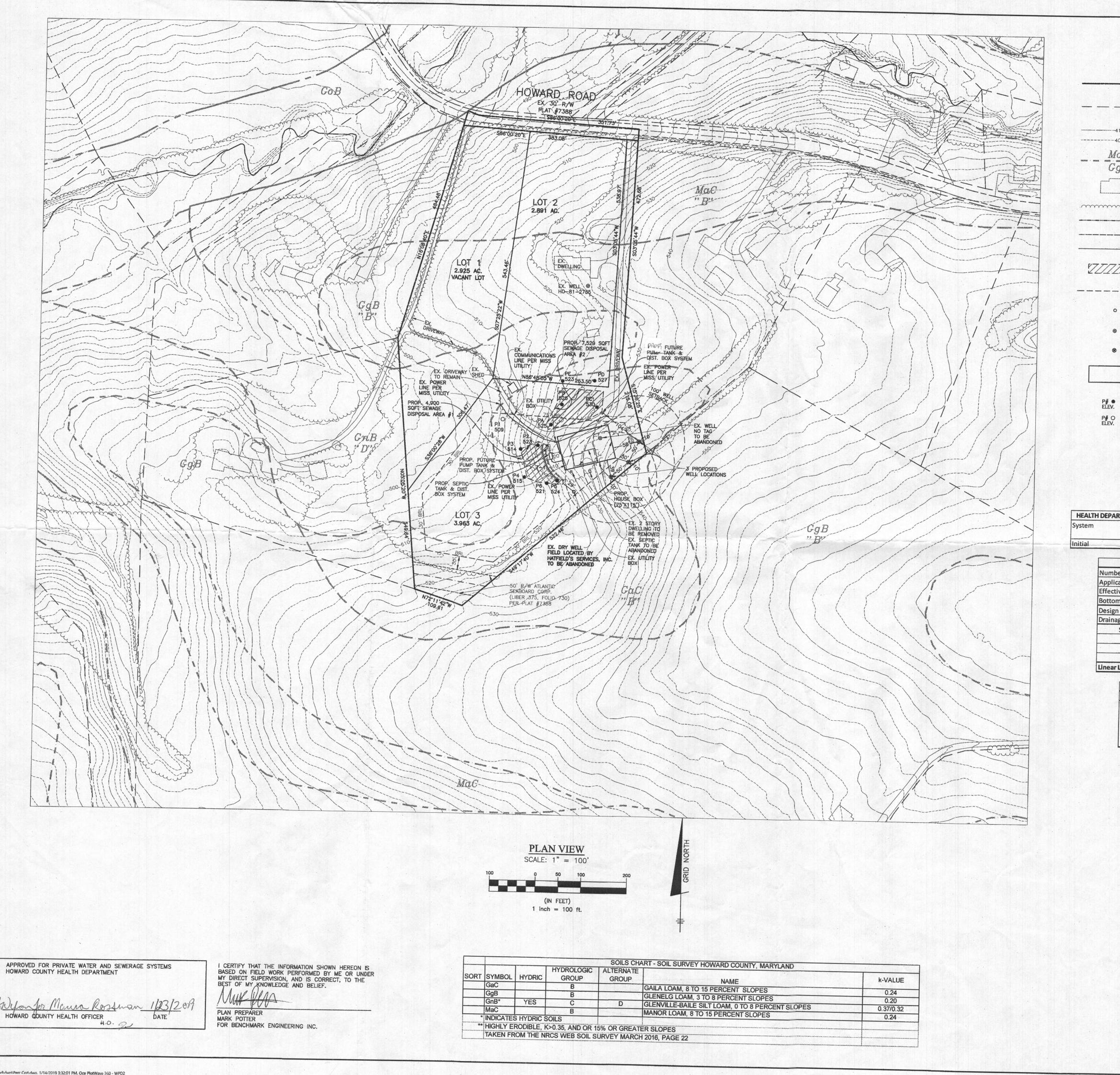
OWNER: ROY E. KEENY JR. 14026 HOWARD RD, DAYTON, MD 21036	LOT 3 14041 HOWARD ROA
	14041 HOWARD RD, DAYTON, MD 2103 TAX MAP: 27 - GRID: 6 - PARCEL: 9 ZONED: RC-DEO ELECTION DISTRICT NO. 5 - HOWARD COUNTY,
	PERCOLATION CERTIFICATIO

ON PLAN

MARYLAND

JANUARY, 2019 BEI PROJECT NO. 2914 DESIGN: MP DRAFT: MP SCALE: 1" = 100' SHEET 1 OF 1

A2914 14041 Howard Roarfidwn\Perc Cert.dwg. 1/14/2019 3:32:01 PM. Oce PlotWave 360 - WPD2





- PROPERTY BOUNDARY ADJACENT PROPERTY BOUNDARY CONTOUR LINES

SOIL DELINEATION

...... EXISTING TREELINE STREAM ----- EXISTING POWER LINE

EXISTING BUILDINGS

EXISTING COMMUNICATIONS LINE PROPOSED SEWAGE DISPOSAL AREA

---- BUILDING RESTRICTION LINE EXISTING SEPTIC DRY WELL TO BE ABANDONED

> EXISTING WELL (NO TAG #) TO BE ABANDONED PROPOSED WELL

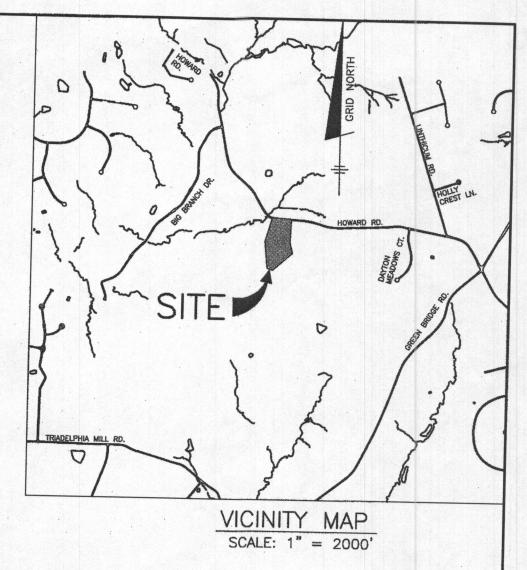
PROPOSED HOUSE BOX (75'X115')

PASSED PERC TEST - 12/6/18 FAILED PERC TEST - 12/6/18

HEALTH DEPA	RTMENT SPEC SHEET IN	FORMATION - LO	T 3 - 1ST SYSTE
System	Application Rate	Effective Depth	Bottom Depth
Initial	0.8	3.0	8.0

INITIAL SYSTEM			
Number of Bedrooms	4		
Application Rate	0.8	gpd/sf	
Effective Area Beginning Depth	3.0	ft	
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Design Flow	600	gpd	
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Trench width	3	ft	
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Trench Spacing	13	ft	
Linear Length of trench Required	89	If	

TRENCH DATA - LOT 3 - 1ST SYSTEM INITIAL SYSTEM TRENCH 1 (T-1) LENGTH **GROUND ELEVATION** INVERT ELEVATION MAX BOTTOM ELEVATION



GENERAL NOTES

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2. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.

3. ANY CHANGES TO A PRIVATE SEWAGE FASEMENT SHALL REQUIRE A PENISED DEPARTMENT.

- 3. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION
- CERTIFICATION PLAN. 4. TO THE BEST OF OUR KNOWLEDGE, ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC HAVE
- 5. TOPOGRAPHY SHOWN IS BASED ON FIELD SURVEY BY BENCHMARK ENGINEERING, INC. DATED OCTOBER, 2018 AND SUPPLEMENTED WITH HOWARD COUNTY GIS AND CONSISTS OF 2 FOOT CONTOUR INTERVALS. 6. THERE ARE NO 25% OR GREATER SLOPES WITHIN LOT 3.
- 7. EXISTING WELL (NO TAG #) AND EXISTING HOUSE TO BE ABANDONED AND REMOVED. NEW WELL AND HOUSE ARE PROPOSED. 8. THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO CREATE A NEW SEWAGE DISPOSAL AREA AND DESIGNATE THREE WELL LOCATIONS TO SUPPORT A FUTURE SINGLE
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- PERMIT.

 11. EXISTING SEPTIC SYSTEM MUST BE PROPERLY ABANDONED WITH DOCUMENTATION SENT TO THE HEALTH DEPARTMENT PRIOR TO ISSUANCE OF ANY WELL PERMIT WITHIN 100 FEET.

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- AREA #1, AND THE 2ND AND 3RD REPLACEMENT SYSTEMS SHALL BE PUMPED TO SEPTIC 13. SEPTIC DESIGN SHALL BE DETERMINED AS PART OF THE BUILDING PERMIT PLAN.
- 14. IF OR WHEN SEPTIC DISPOSAL AREA #2 IS UTILIZED IN THE FUTURE, A PUMP AND PUMP TANK DESIGN SHALL BE REQUIRED.

THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO CREATE A NEW SEWAGE DISPOSAL AREA AND DESIGNATE THREE WELL LOCATIONS TO SUPPORT A FUTURE SINGLE FAMILY RESIDENCE.

BENCHMARK ENGINEERS LAND SURVEYORS PLANNERS

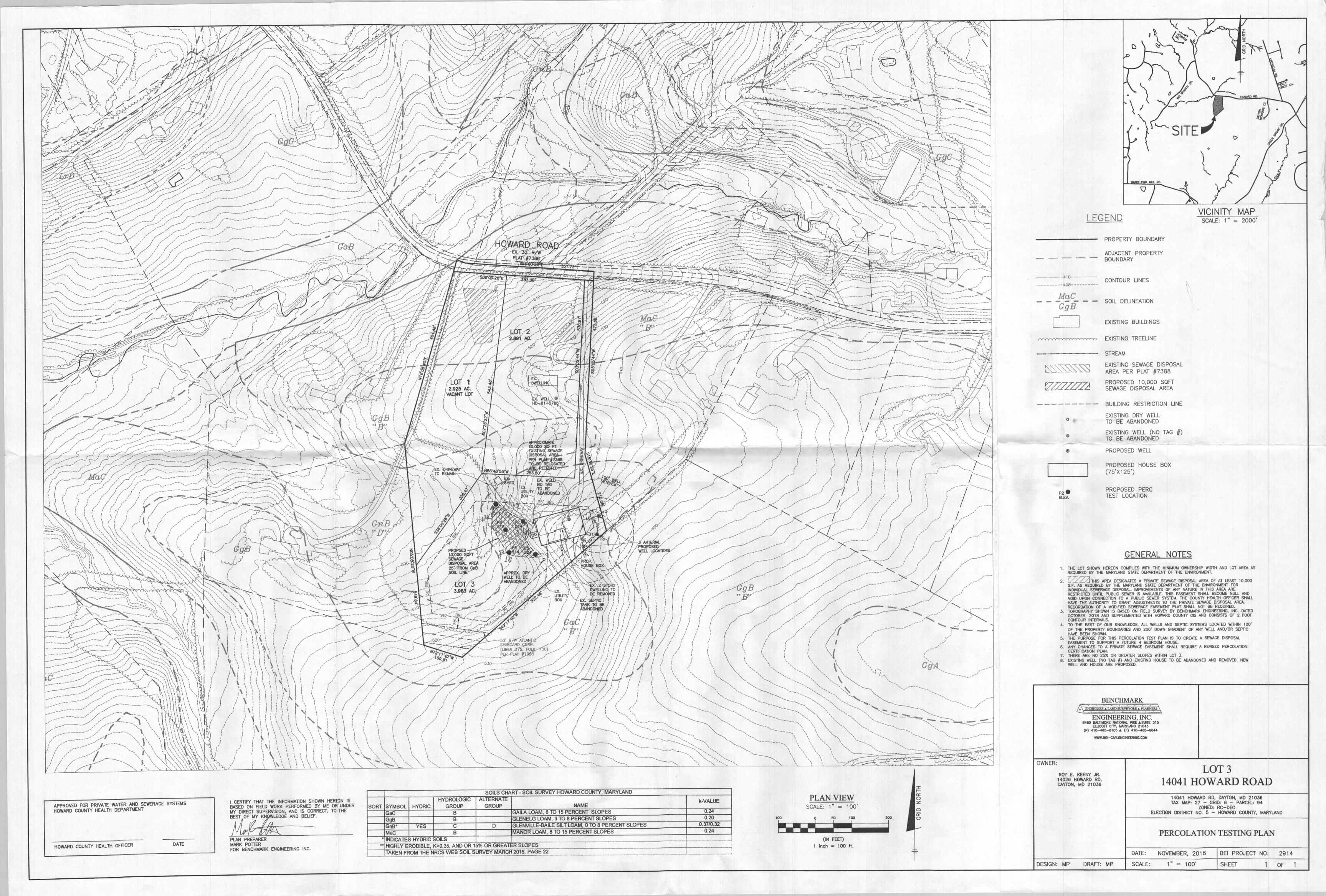
ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 ▲ (F) 410-465-6644

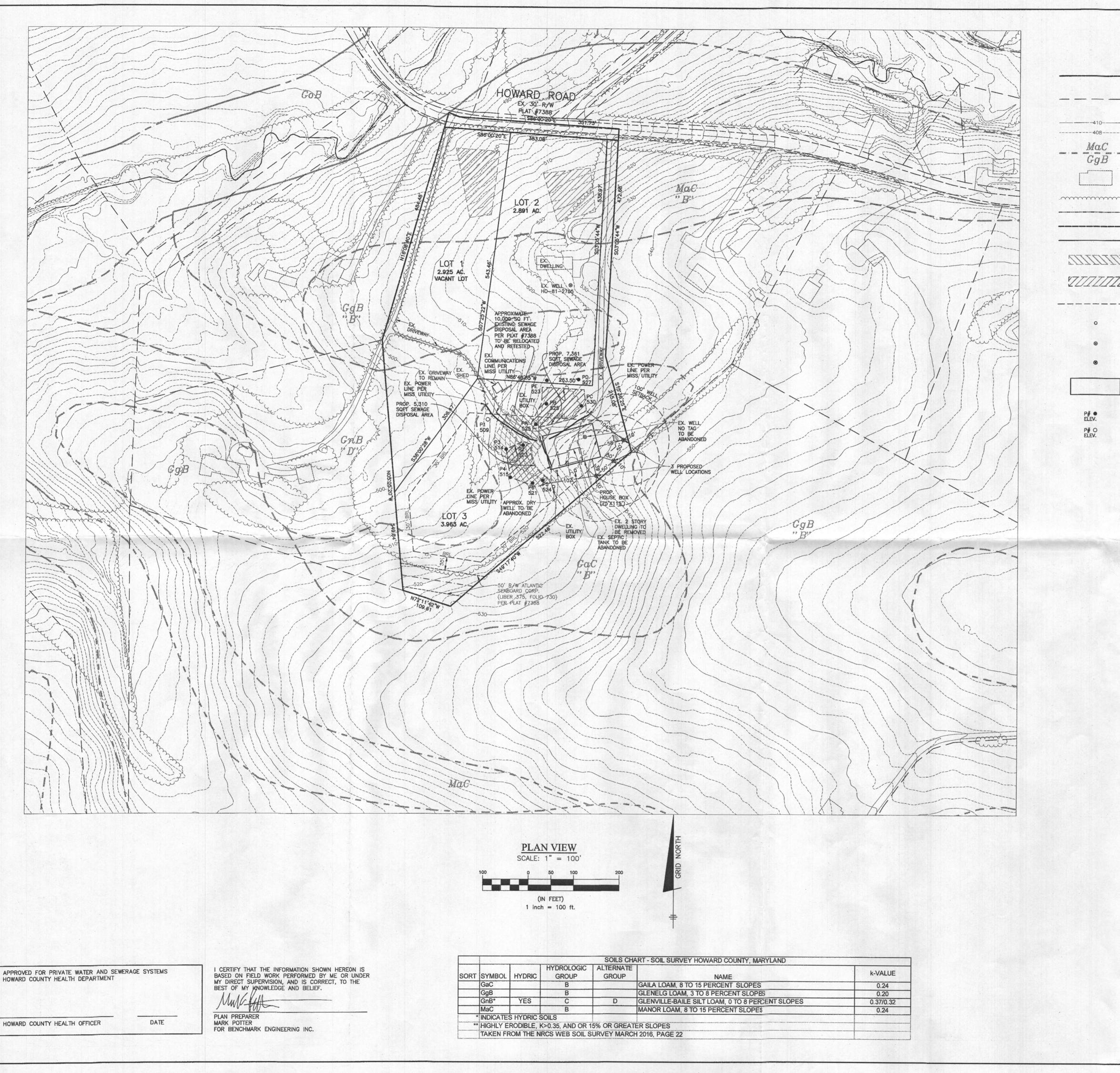
WWW.BEI-CIVILENGINEERING.COM OWNER: LOT 3 ROY E. KEENY JR. 14026 HOWARD RD, DAYTON, MD 21036 14041 HOWARD ROAD 14041 HOWARD RD, DAYTON, MD 21036 TAX MAP: 27 - GRID: 6 - PARCEL: 94 ZONED: RC-DEO ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND

PERCOLATION CERTIFICATION PLAN

DATE: JANUARY, 2019 BEI PROJECT NO. 2914 DESIGN: MP DRAFT: MP SCALE: 1" = 100' SHEET 1 OF 1

Ana1 Howard Road\dwg\Perc Cert.dwg. 1/14/2019 3:32:01 PM. Oce PlotWave 360 - WPD2





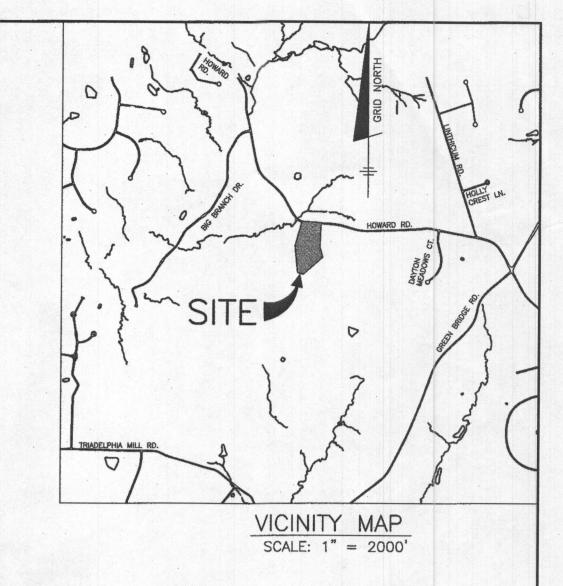


 PROPERTY BOUNDARY ADJACENT PROPERTY BOUNDARY CONTOUR LINES SOIL DELINEATION EXISTING BUILDINGS EXISTING TREELINE ---- EXISTING POWER LINE EXISTING COMMUNICATIONS LINE EXISTING SEWAGE DISPOSAL AREA PER PLAT #7388 PROPOSED SEWAGE DISPOSAL AREA ---- BUILDING RESTRICTION LINE EXISTING SEPTIC DRY WELL TO BE ABANDONED EXISTING WELL (NO TAG #) TO BE ABANDONED PROPOSED WELL PROPOSED HOUSE BOX

(75'X115')

PASSED PERC TEST - 12/6/18

FAILED PERC TEST - 12/6/18



GENERAL NOTES

1. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT 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 SEWERAGE EASEMENT. RECORDATION OFA MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
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9. THE PROPOSED SEWAGE DISPOSAL AREA SHOWN ON THIS PLAN IS 12,671 SQ. FT. THE PROPOSED RESIDENCE IS A 4 BEDROOM HOUSE.

10. SEPTIC TRENCH DESIGN SHALL BE DETERMINED AS PART OF THE BUILDING PERMIT PLAN BASED ON APPLICATION RATES PROVIDED BY THE BUREAU OF ENVIRONMENTAL HEALTH.

THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO CREATE A NEW SEWAGE DISPOSAL AREA AND DESIGNATE THREE WELL LOCATIONS TO SUPPORT A FUTURE SINGLE FAMILY RESIDENCE.

BENCHMARK

● ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 ▲ (F) 410-465-6644

WWW.BEI-CIVILENGINEERING.COM

OWNER: LOT 3 ROY E. KEENY JR. 14026 HOWARD RD, DAYTON, MD 21036 14041 HOWARD ROAD 14041 HOWARD RD, DAYTON, MD 21036
TAX MAP: 27 - GRID: 6 - PARCEL: 94
ZONED: RC-DEO
ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND PERCOLATION CERTIFICATION PLAN

DATE: DECEMBER, 2018 BEI PROJECT NO. 2914 DESIGN: MP DRAFT: MP SCALE: 1" = 100'SHEET 1 OF 1