

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 558053

AGENCY REVIEW: _____

DATE 3-29-16

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH _____ PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Andrew Bowen

DAYTIME PHONE 301-237-9475 CELL _____ FAX _____

MAILING ADDRESS 10700 HOME ACRES TERRACE BELTSVILLE MD 20705
STREET CITY/TOWN STATE ZIP

APPLICANT Andrew Bowen

DAYTIME PHONE 301-237-9475 CELL _____ FAX _____

MAILING ADDRESS 10700 HOME ACRES TERRACE BELTSVILLE MD 20705
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME SE Route 108 LOT NO. Parcel 109

PROPERTY ADDRESS _____ TOWN/POST OFFICE _____
STREET

TAX MAP PAGE(S) 40 GRID 16 PARCEL(S) 109 PROPOSED LOT SIZE 11.25 ± AC

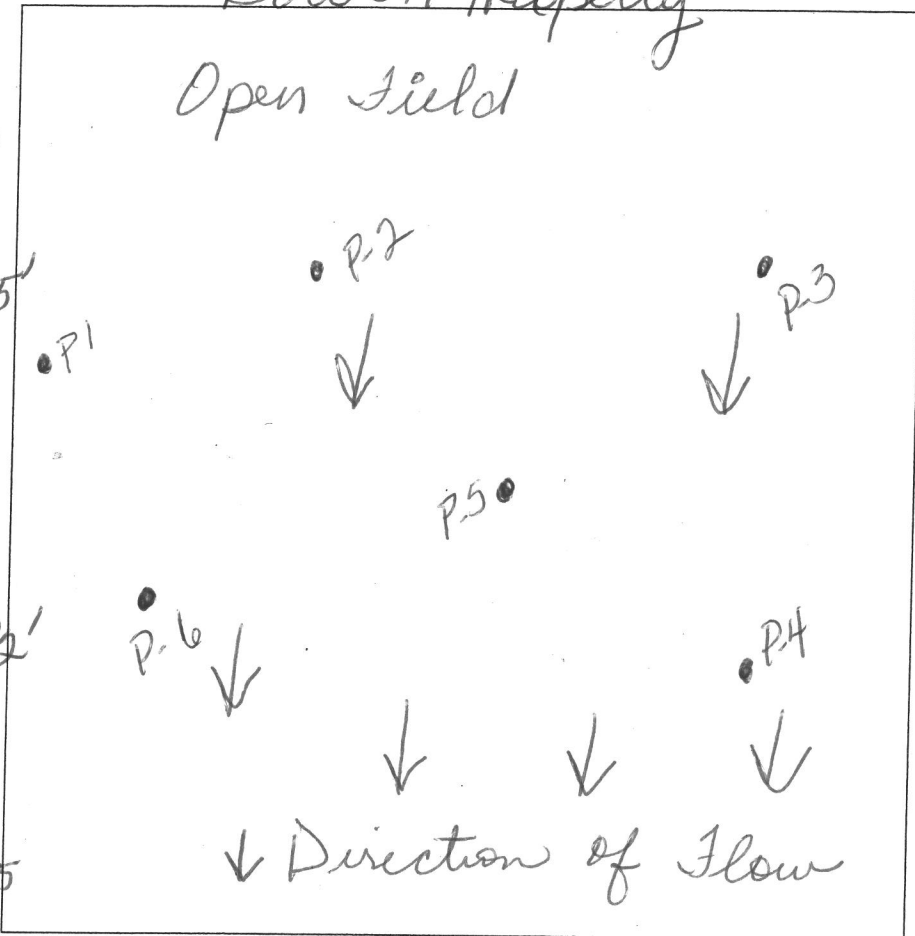
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN. TEST RESULTS WILL BE MAILED TO APPLICANT.

SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

Bowen Property

Open field



A/P _____

#1

Red Brown
yellow
Sh 2.5'

Red Brown
yellow
FSh
5-10%
Shale
many mica 12'

#2

Red Brown
yellow
Sh 2.5'

Red Brown
yellow
FSh
5-10%
P4
↓

#3

Red Brown
yellow
Sh 2.5'

Red Brown
yellow
FSh
5-10%
Shale
↓

#4

Red Brown
yellow
Sh 3'

Red Brown
yellow
FSh
many
mica
5-10%
Shale 12'

#5

Red Brown
yellow
Sh 2.5'

Red Brown
yellow
Sh
many
mica
5-10%
Shale 12'

#6

Red Brown
yellow
Sh 2.5'

Red Brown
yellow
many mica
Sh
P4
5-10%
Shale 12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7-14-16	4	5/12	10:44	10:46	10:48	2min	P
7-14-16	5	5/25	10:47	10:49	10:51	2min	P
7-14-16	6	4/12	10:56	10:58	11:00	2min	P
7-14-16	3	3/12	10:59	11:01	11:04	3min	P
7-14-16	1	3/12	11:09	11:14	11:29	15min	P
7-14-16	2	4/12	11:21	11:25	11:32	7min	P

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

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

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Tuesday, August 16, 2016 9:52 AM
To: John Carney (jcarney@bei-civilengineering.com)
Subject: Bowen Property perc cert

I reviewed the perc cert for Bowen property sent up by Dana. I'm concerned about the well box cutting into the neighbor's lot to the left and being pretty close to an approximate location of the septic trench. It looks like there's plenty of room to shift the well box away from the property line to get the 100' arc farther away from where the trench may actually be located. Also, please change note 6 to reflect that the well must be drilled prior to Health approval of a building permit as there is no plat coming here, right? Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@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 reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

Bernard, Dana

From: Bernard, Dana
Sent: Monday, August 08, 2016 12:55 PM
To: 'John Carney'
Subject: Bowen Property

Good Afternoon John, I have reviewed your plans for the Bowen Property and your septic area is less than 10 feet off of the property line. If this is your plan you must apply for a variance. If not please redesign and resubmit.

Thank you & Have a*""
,.,.,.*""),.,.*""
(.,.' (.,.' * Wonderful Day !

Dana Bernard, R.E.H.S/L.E.H.S.
Environmental Specialist II
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
E-mail: DBernard@howardcountymd.gov

Bernard, Dana

From: Bernard, Dana
Sent: Friday, July 22, 2016 3:00 PM
To: 'John Carney'
Subject: SE Route 108
Attachments: Bowen.pdf

Date: July 14, 2016

To: Benchmark Engineering, L.L.C.
C/O John Carney
Via E-Mail: jcarney@bei-civilengineering.com

RE: **Percolation Testing Report**
SE Route 108
Tax Map 40, Parcel 109

Mr. Carney,

Percolation testing was conducted on the referenced property on July 14, 2016. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for the existing lot.

A total of six (6) test holes were evaluated and six (6) were found to be satisfactory with moderate percolation rates. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the six (6) percolation test holes which were satisfactory. The septic system on the existing lot did not show signs of failure but must be abandoned along with the well on the existing lot. Field data collected is shown on the Percolation Test Worksheet attached to this letter.

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 a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Thank you & Have a*~*)

,.,.,,*~*) ,.,,*~*)
(.,., (.,., * Wonderful Day !



Dana Bernard, R.E.H.S/L.E.H.S.
Environmental Specialist II
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
E-mail: eDBernard@howardcountymd.gov

BENCHMARK



ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043
410-465-6105 410-465-6644 (Fax)

LETTER OF TRANSMITTAL

DATE <u>March 24, 2016</u>	PROJECT No. <u>2754</u>
ATTENTION	
RE: <u>Bowen Property</u>	
<u>Perc Test Plan</u>	

TO: Health Department
Well & Septic

WE ARE SENDING YOU Attached Under separate cover via _____ the following items

Photocopies Prints Originals Samples
 Specifications Invoices Change Order Other _____

COPIES of	No. of SHEETS	DESCRIPTION
<u>3</u>	<u>1</u>	<u>Perc Test Plan</u>
<u>1</u>		<u>Perc Test Application</u>

THESE ARE TRANSMITTED as checked below

For Comment For your use For Approval
 For Review As requested Other _____

REMARKS: _____

COPY TO: _____

RECEIVED BY: [Signature]

SIGNED: Beth Dalton

If enclosures are not as noted, kindly notify us at once.



Howard County
Health Department

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 522042-B

AGENCY REVIEW: _____

DATE 3/21/05

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
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CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 3 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Warren Metzner

DAYTIME PHONE 301-937-4730 (ex 203) CELL 301-928-8160 FAX 301-937-8942

MAILING ADDRESS P.O. Box 185 Highland MD 20777
STREET CITY/TOWN STATE ZIP

APPLICANT KCI Technologies (Brad Jones)

DAYTIME PHONE 301-317-7592 CELL 410-404-9336 FAX 410-792-7419

MAILING ADDRESS 14502 Greenview Drive, Suite 100 Laurel MD 20708
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION SE Corner of Hall Shop Road and Rte. 108 LOT NO. 5B
SUBDIVISION/PROPERTY NAME

PROPERTY ADDRESS 13047 Hall Shop Road Highland
STREET TOWN/POST OFFICE

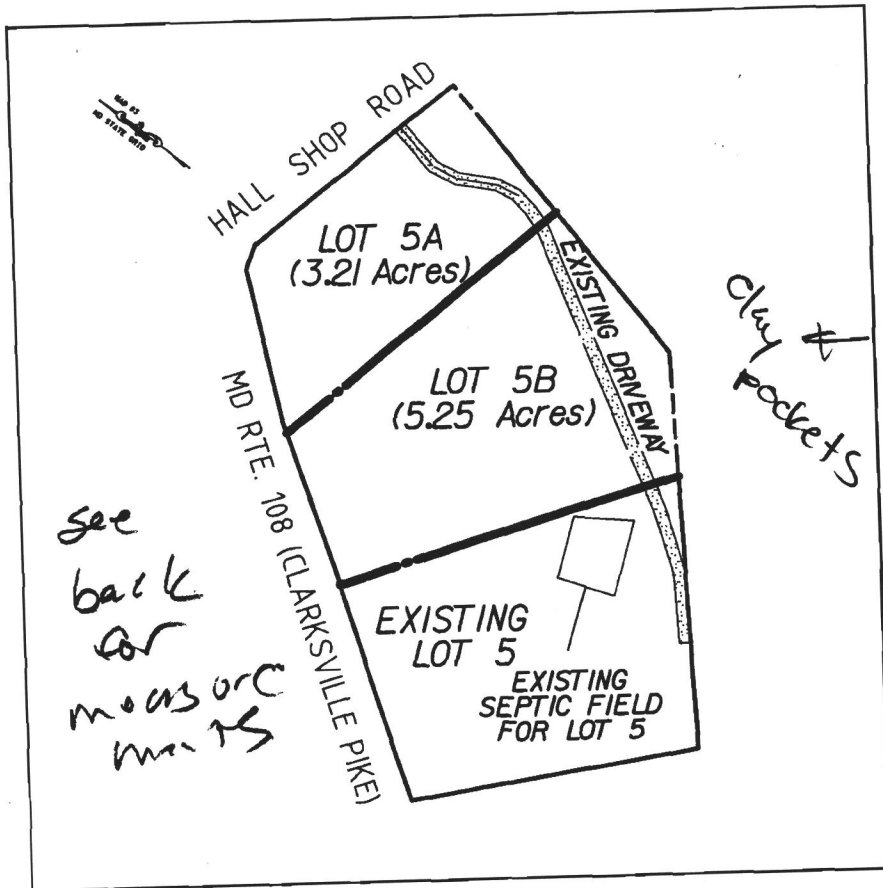
TAX MAP PAGE(S) 40 GRID 9 PARCEL(S) 43 PROPOSED LOT SIZE ±5 AC

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN. TEST RESULTS WILL BE MAILED TO APPLICANT.

[Signature]
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P



1010
Brown
orange brown
silt
brown
silt
water

1007
brown
silt
orange brown
silt
yellow
brown
silt
very micaceous
5% clay frags

see back for measure marks

clay pockets

1006
brown
orange brown
blk silt
± 20% quartz
cobbles
orange brown
heavy
silt
5% cobbles
orange brown
m silt
yellow brown
m silt

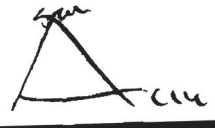
2010
brown
silt
red brown
silt
yellow brown
silt
5% clay frags
very micaceous

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/15/05	1010	8	visual		F		F
	1006	7	10:04	full	to slow		F
	1009	4	11:40	11:43	11:46	3	P
	1007	7	11:31	11:33	11:35	2	P
	2009		visual				P
	2010	4	11:06	11:09	11:13	4	P
	2011	4.5	11:14	11:19	11:26	8	P

2011
brown
red
brown
heavy
silt
micaceous
yellow
red
brown
micaceous
platey
silt
yellow brown
silt
silt

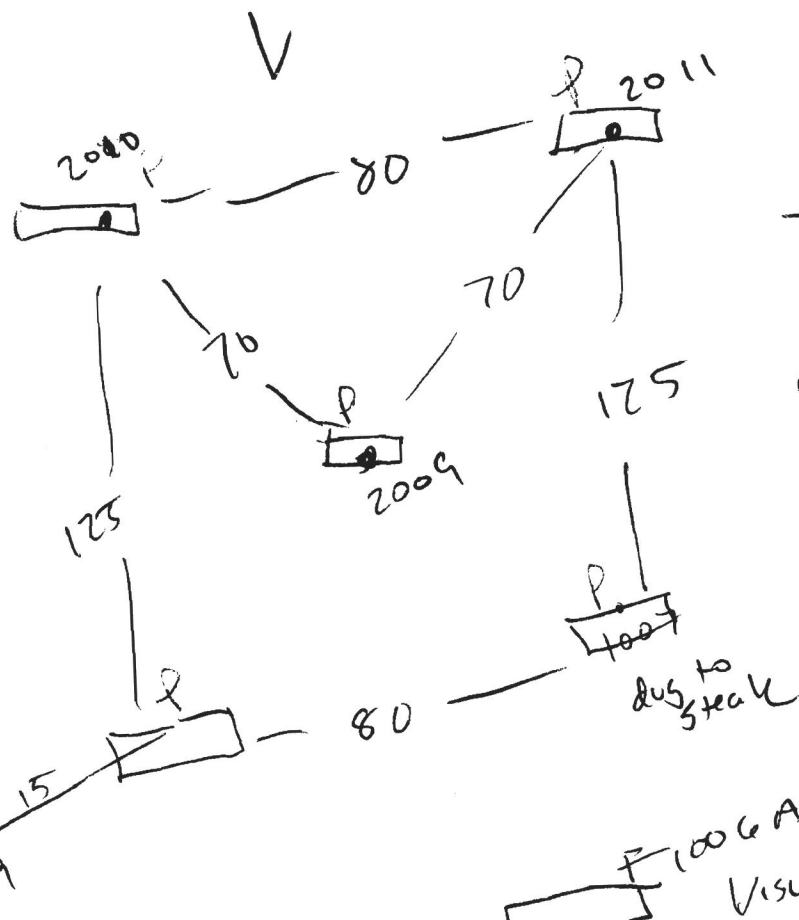
1009
brown
yellow
brown
very micaceous
silt
platey
structure
yellow
brown
silt
w
5-10%
clay
frags

REMARKS * Needs to keep measurements on back
SANITARIAN 24/SP BACKHOE K&K OTHERS Duner
TEST HOLES USED IN SDA 5 AVG. PERC TIME _____ SQ. FT/BR _____
TRENCH WIDTH 3 INLET DEPTH 3 MAX. BOT DEPTH 5 EFFECTIVE SW 3



Route 108

slight swale



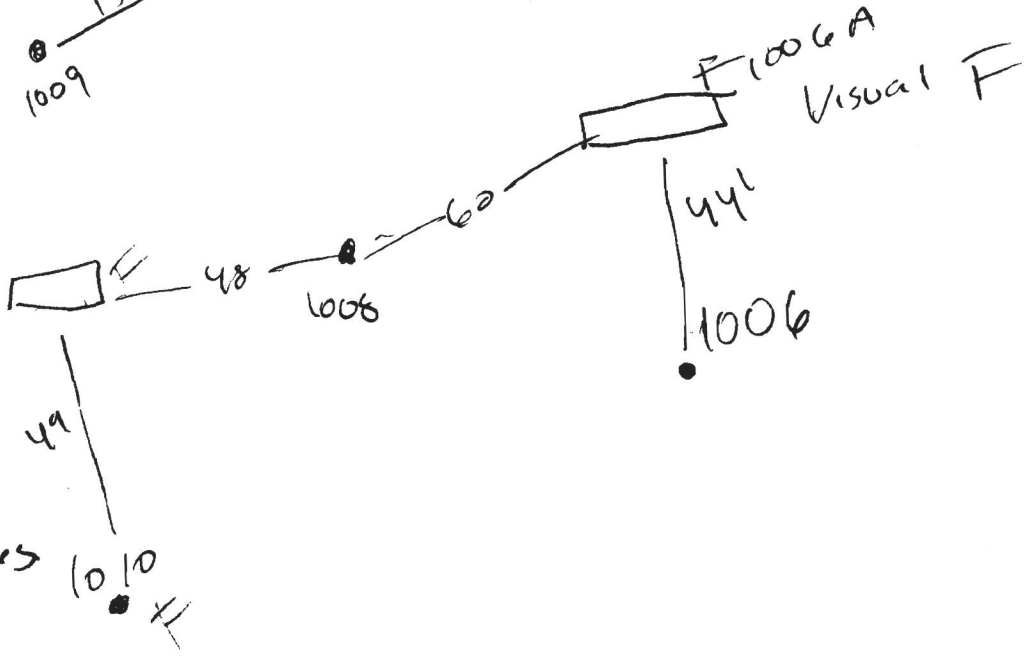
2009

brown l
red brown sil micaceous platy
3
yellow brown sil
10
1040 rock sil frags
12
Visual

1010 A

brown l
orange brown sil
↓
very micaceous
10
Wacke
11

slat mottles



* good hole, but its unusable area due to failed hole 1006 A.



Howard County
Health Department

7178 Columbia Gateway Drive, Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

April 15, 2005

Warren Matzen
P.O. Box 185
Highland, MD 20777

RE: PERCOLATION TEST RESULTS – A522042-B
13047 Hall Shop Rd, Highland MD

Dear Mr. Matzen:

Percolation testing conducted April 15, 2005 on the referenced property indicated satisfactory soil conditions. Additional holes were tested that were not proposed on the original percolation application plan. These holes were needed in order to find suitable soil conditions for a 10,000 sq. ft. sewage disposal easement for both lots. Copies of the test results are enclosed.

Further review is contingent upon submission by a registered engineer/surveyor of a percolation certification plan showing the following:

- 1) Actual locations and elevations of all excavated test holes
- 2) Proposed house, well and septic system
- 3) Locations of any other relevant features such as streams, swales, or existing structures
- 4) A note must be included certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown
- 5) A note indicating that depicted topography reflects field-matched information
- 6) A health officer signature block stating "approved for private water and private sewer systems"
- 7) A MDE sewage disposal area statement is required
- 8) MDE minimum lot width statement

The percolation certification plat should be submitted within 60 days to allow field verification if necessary. If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Sincerely,

Peter A. Yencsik
Water and Septic Program
Development Coordination Section

PAY

Enclosures

Cc: KCI Technologies
File

Guide to searching the database

Real Property Data Search (w2)

Search Result for HOWARD COUNTY

View Map		View GroundRent Redemption		View GroundRent Registration	
Account Identifier:		District - 05 Account Number - 367425			
Owner Information					
Owner Name:		BOWEN ANDREW E BOWEN COLLEEN E		Use: Principal Residence: AGRICULTURAL NO	
Mailing Address:		10700 HOME ACRES TERR BELTSVILLE MD 20705-		Deed Reference: /16758/ 00030	
Location & Structure Information					
Premises Address:		SE ROUTE 108 HIGHLAND 20777-0000		Legal Description: 11.255 A ROUTE 108 HIGHLAND	
Map:	Grid:	Parcel:	Sub District:	Subdivision:	Section: Block: Lot:
0040	0016	0109		0000	
Assessment Year:				Plat No: Plat Ref:	
2014					
Special Tax Areas:			Town:		
			NONE		
			Ad Valorem:		
			100		
			Tax Class:		
Primary Structure Built	Above Grade Enclosed Area	Finished Basement Area	Property Land Area	County Use	
			11.2600 AC		
Stories	Basement	Type	Exterior	Full/Half Bath	Garage
Value Information					
		Base Value	Value As of 01/01/2014	Phase-in Assessments	
				As of 07/01/2015	As of 07/01/2016
Land:		5,600	5,600		
Improvements		0	0		
Total:		5,600	5,600	5,600	5,600
Preferential Land:		5,600			5,600
Transfer Information					
Seller: SMITH EDNA STURGILL TRUSTEE		Date: 03/28/2016		Price: \$0	
Type: NON-ARMS LENGTH OTHER		Deed1: /16758/ 00030		Deed2:	
Seller: SMITH BOYD C & WF		Date: 04/18/2007		Price: \$0	
Type: NON-ARMS LENGTH OTHER		Deed1: /10633/ 00558		Deed2:	
Seller:		Date:		Price:	
Type:		Deed1:		Deed2:	
Exemption Information					
Partial Exempt Assessments:	Class	07/01/2015		07/01/2016	
County:	000	0.00			
State:	000	0.00			
Municipal:	000	0.00 0.00		0.00 0.00	
Tax Exempt:		Special Tax Recapture:			
Exempt Class:		AGRICULTURAL TRANSFER TAX			
Homestead Application Information					
Homestead Application Status: No Application					

Bernard, Dana

From: Bernard, Dana
Sent: Friday, May 13, 2016 11:55 AM
To: 'cmalagari@bei-civilengineering.com'
Subject: Bowen Property Percolation Certification Plan

Good Morning Chris,

I have reviewed the proposed percolation certification plan for the Bowen Property. There are a few items we need revised.

1. The septic area you are proposing is not on contour.
2. The septic area you are proposing cannot be up gradient of an existing well.

Please revise and resubmit so we can get you scheduled for percolating testing.

Thank you & Have a*')

..*')..*')

(..* Wonderful Day!

Dana Bernard

Dana Bernard, R.E.H.S./L.E.H.S.

Environmental Specialist II

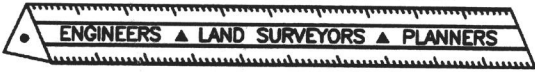
Bureau of Environmental Health

Well and Septic Program

Phone (410) 313-2775

E-mail: DBernard@howardcountymd.gov

BENCHMARK



ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043
 410-465-6105 410-465-6644 (Fax)

LETTER OF TRANSMITTAL

TO: Health Dept.

DATE	<u>May 17, 2016</u>	PROJECT No.	<u>2754</u>
ATTENTION	<u>DANA</u>		
RE:	<u>Bowen Property</u>		
	<u>Percolation Test Plan</u>		
	<u>(REVISED)</u>		

WE ARE SENDING YOU Attached Under separate cover via _____ the following items

Photocopies Prints Originals Samples
 Specifications Invoices Change Order Other _____

COPIES of	No. of SHEETS	DESCRIPTION
<u>1</u>	<u>1</u>	<u>24X.36 Perc Test Plan</u>

THESE ARE TRANSMITTED as checked below

For Comment For your use For Approval
 For Review As requested Other _____

REMARKS: Dana - This is a revised perc test plan based on your email dated 5/13/16. Please let us know when the testing date and time is.

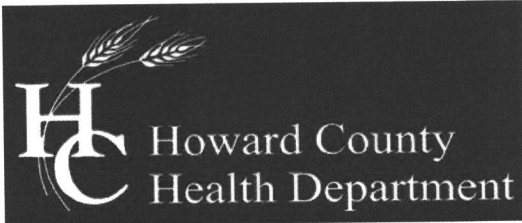
Thanks - Chris

COPY TO: _____

RECEIVED BY: [Signature]

SIGNED: Beth Dodson

If enclosures are not as noted, kindly notify us at once.



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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: SE Route 108

Subdivision: Bowen Property Lot:

Initial system: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 8
1st Replacement: Application rate: 1.2 Effective area beginning depth: 3 Bottom maximum depth: 8
2nd Replacement: Application rate: 1.2 Effective area beginning depth: 3 Bottom maximum depth: 8

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
All trenches must be on contour
Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
Maximum trench length is 100'
Maximum pipe depth is 4'

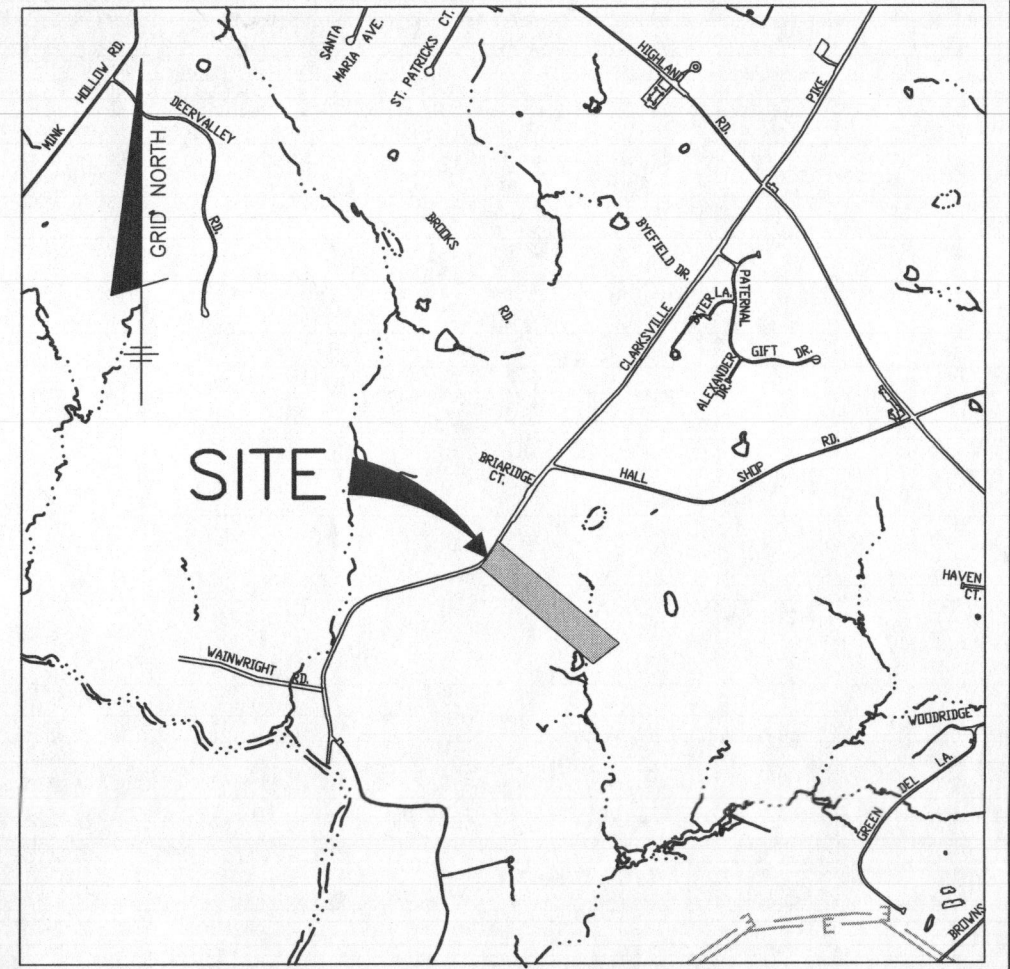
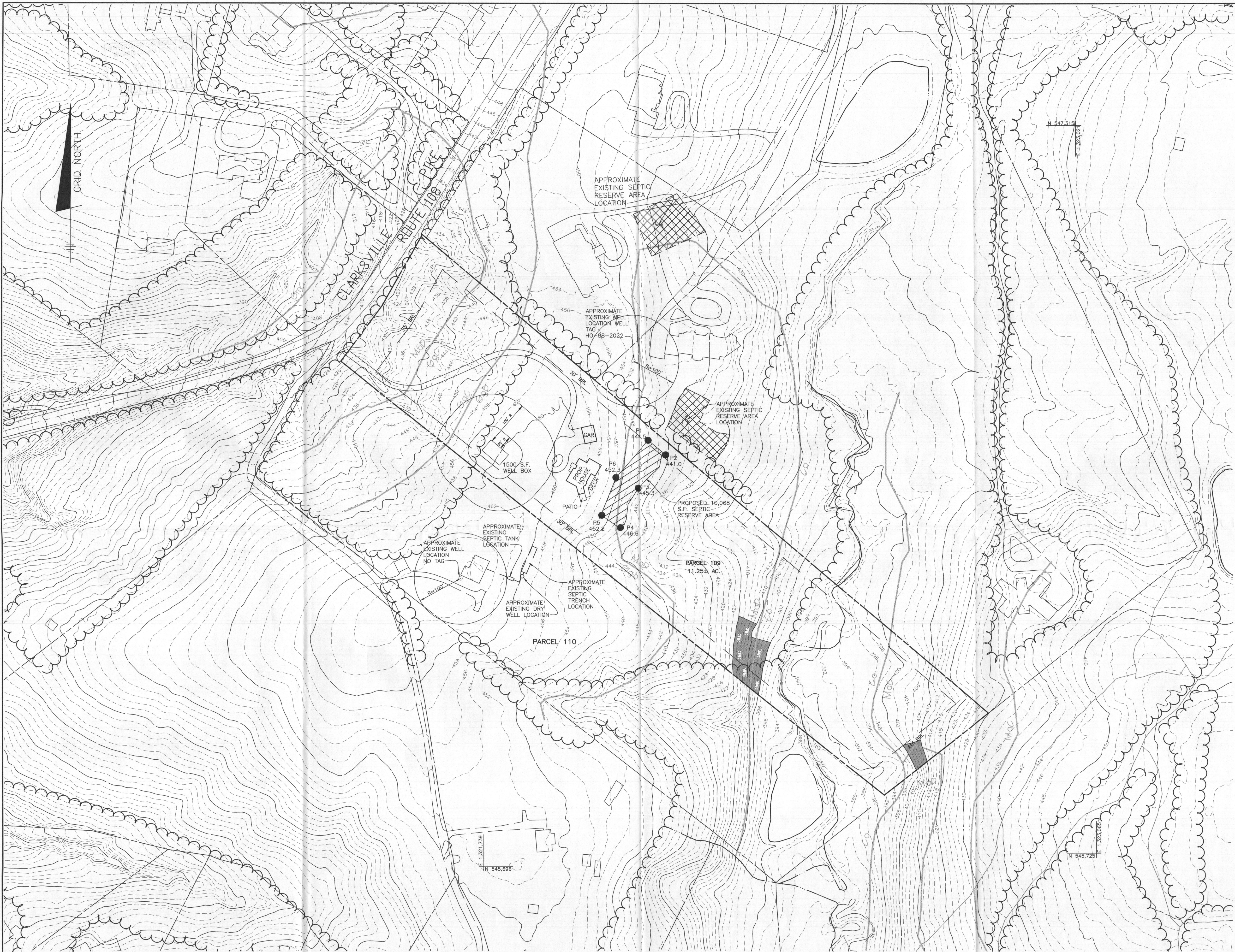
Additional requirements:

Approved: Dana Bernard Date: 2-14-2017

Real Property Data Search

Search Result for HOWARD COUNTY

View Map		View GroundRent Redemption		View GroundRent Registration	
Account Identifier:		District - 05 Account Number - 367425			
Owner Information					
Owner Name:	BOWEN ANDREW E BOWEN COLLEEN E		Use:	AGRICULTURAL NO	
Mailing Address:	10700 HOME ACRES TERR BELTSVILLE MD 20705-		Principal Residence:	/16758/ 00030	
Location & Structure Information					
Premises Address:		SE ROUTE 108 HIGHLAND 20777-0000		Legal Description:	11.255 A ROUTE 108 HIGHLAND
Map:	Grid:	Parcel:	Sub District:	Subdivision:	Section:
0040	0016	0109		0000	
					Block:
					Lot:
					Assessment Year:
					2017
					Plat No:
					Plat Ref:
Special Tax Areas:			Town:	NONE	
			Ad Valorem:	100	
			Tax Class:		
Primary Structure Built	Above Grade Enclosed Area	Finished Basement Area	Property Land Area	County Use	
			11.2600 AC		
Stories	Basement	Type	Exterior	Full/Half Bath	Garage
					Last Major Renovation
Value Information					
	Base Value	Value As of 01/01/2017	Phase-in Assessments		
			As of 07/01/2016	As of 07/01/2017	
Land:	5,600	5,600			
Improvements	0	0			
Total:	5,600	5,600	5,600	5,600	
Preferential Land:	5,600			5,600	
Transfer Information					
Seller: SMITH EDNA STURGILL TRUSTEE		Date: 03/28/2016	Price: \$0		
Type: NON-ARMS LENGTH OTHER		Deed1: /16758/ 00030	Deed2:		
Seller: SMITH BOYD C & WF		Date: 04/18/2007	Price: \$0		
Type: NON-ARMS LENGTH OTHER		Deed1: /10633/ 00558	Deed2:		
Seller:		Date:	Price:		
Type:		Deed1:	Deed2:		
Exemption Information					
Partial Exempt Assessments:	Class	07/01/2016	07/01/2017		
County:	000	0.00			
State:	000	0.00			
Municipal:	000	0.00 0.00	0.00 0.00		
Tax Exempt:	Special Tax Recapture:				
Exempt Class:	AGRICULTURAL TRANSFER TAX				
Homestead Application Information					
Homestead Application Status: No Application					



ADC MAP 31, A7
VICINITY MAP
SCALE: 1" = 2000'

- GENERAL NOTES**
1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER 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 REQUIRED.
 3. TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS, 2 FOOT CONTOURS, AND VERIFIED WITH FIELD RUN TOPOGRAPHY BY BENCHMARK ENGINEERING, INC., IN JULY, 2016.
 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.
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 8. PERCOLATION TEST FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE, IS A558055.

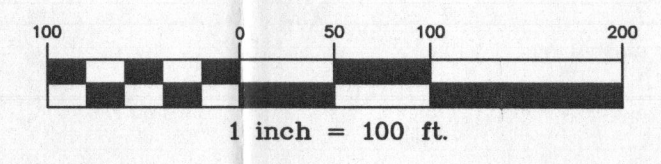
LEGEND

- | | | | |
|-------------------------|------------|-----------------------|----------|
| SOILS CLASSIFICATION | GnB | EXISTING STRUCTURE | [Symbol] |
| SOILS DELINEATION | [Symbol] | PROPOSED STRUCTURE | [Symbol] |
| EXISTING CONTOURS | 480
478 | PROPOSED HOUSE BOX | [Symbol] |
| EXISTING WOODS LINE | [Symbol] | EXISTING SEPTIC FIELD | [Symbol] |
| EXISTING WELL | ○ EX. WELL | PROPOSED SEPTIC FIELD | [Symbol] |
| PROPOSED WELL | ⊗ W | 25% OR GREATER SLOPES | [Symbol] |
| PERCOLATION TEST PASSED | ● | | |

SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	k-VALUE
Co*	C		D	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT	0.37/0.37
GgB	B			GLENELG LOAM, 3 TO 8 PERCENT SLOPES	0.2
GgC	B			GLENELG LOAM, 8 TO 15 PERCENT SLOPES	0.2
MaC	B			MANOR LOAM, 8 TO 15 PERCENT SLOPES	0.24
MaD	B			MANOR LOAM, 15 TO 25 PERCENT SLOPES	0.24

* INDICATES HYDRIC SOILS
** HIGHLY ERODIBLE, K<0.35, AND/OR 15% OR GREATER SLOPES
TAKEN FROM THE NRCS WEB SOIL SURVEY, MARCH 2016. PAGE 22



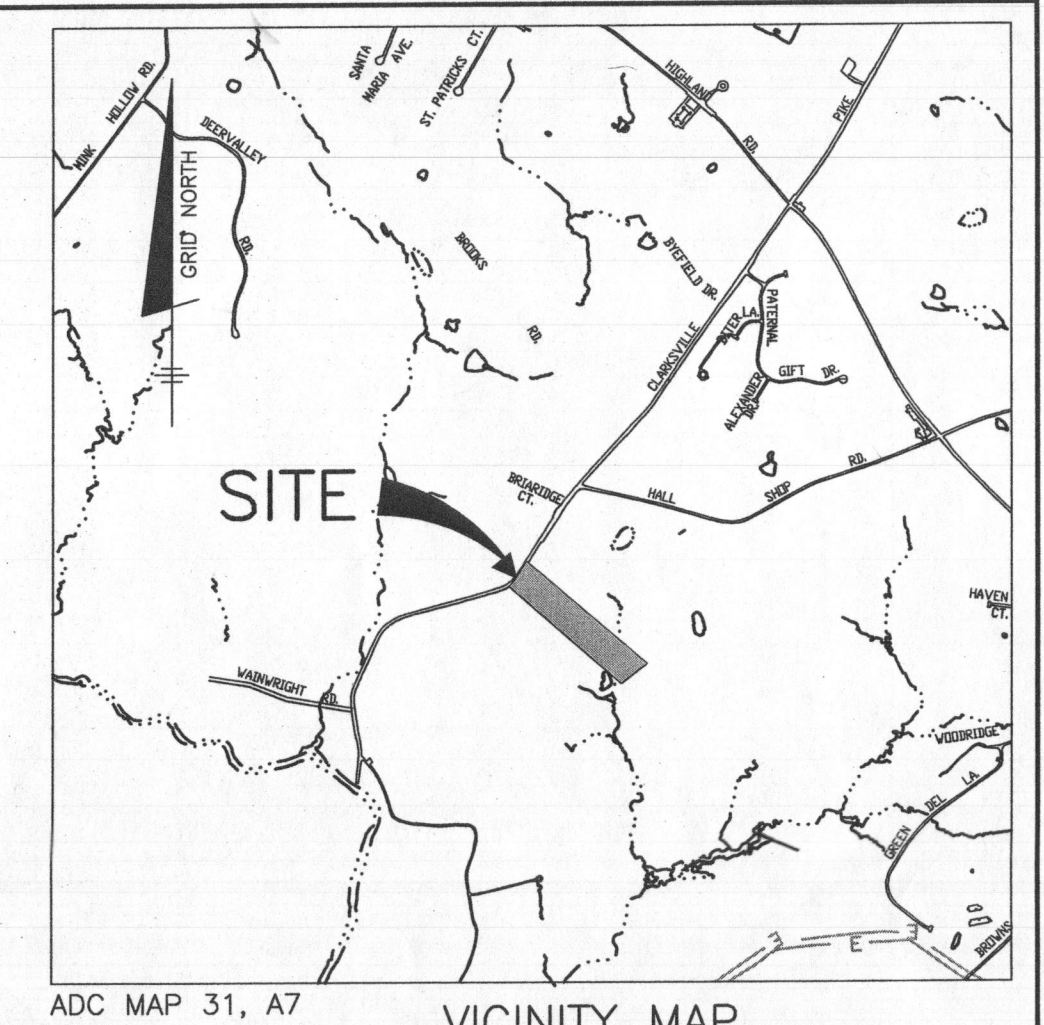
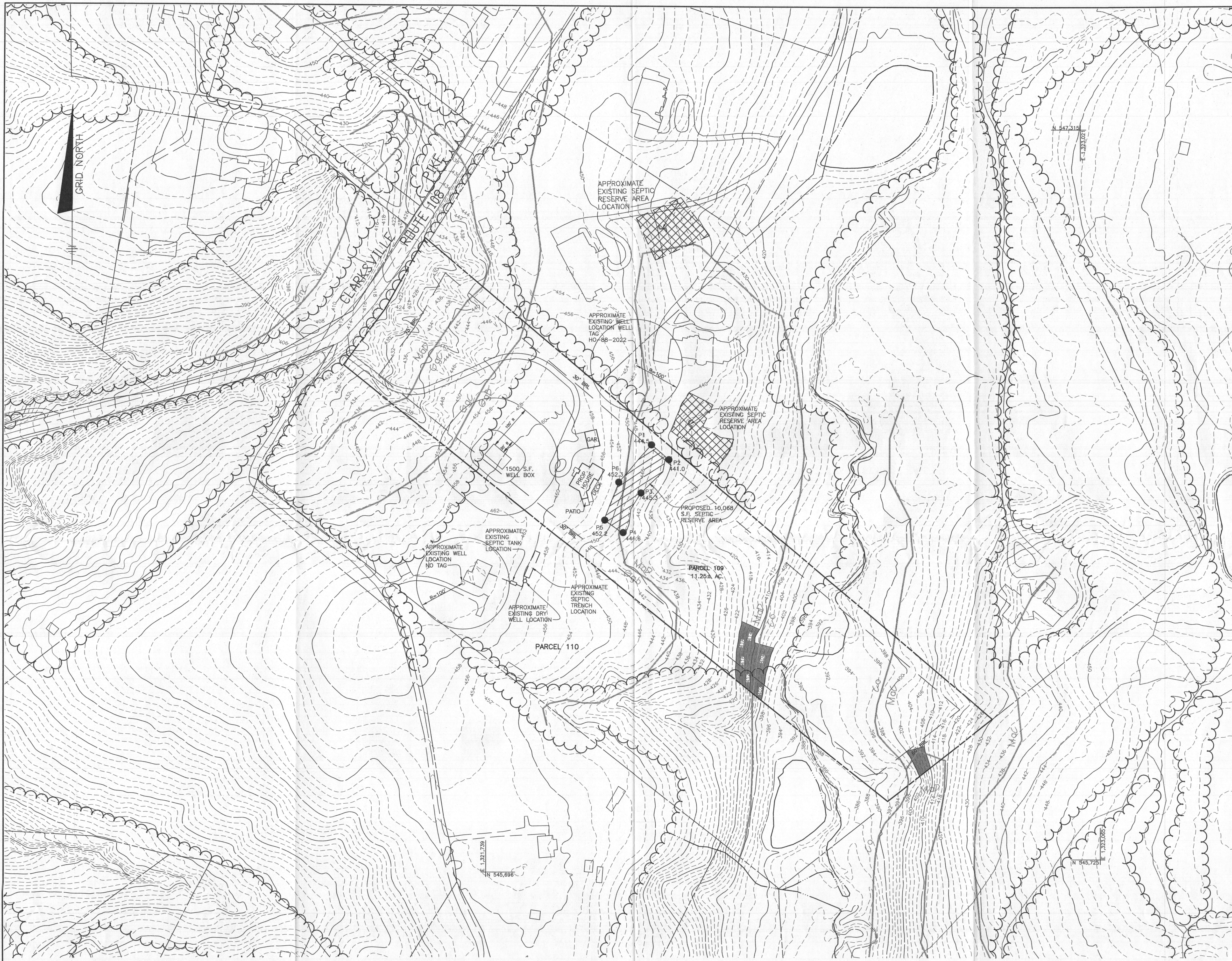
I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN M. CARNEY, P.E.
PLAN PREPARER
FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER
DATE: 8/30/2016

BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BE-CVLENGINEERING.COM	
OWNER/DEVELOPER:	PROJECT:
ANDREW BOWEN 10700 HOME ACRES RERRACE BELTSVILLE MD. 20705 301-237-9475	BOWEN PROPERTY
LOCATION:	TAX MAP 40, GRID 16, PARCEL 109 5th ELECTION DISTRICT SE ROUTE 108 HOWARD COUNTY, MARYLAND 20777
TITLE:	PERCOLATION CERTIFICATION PLAN
DATE:	JULY, 2016
PROJECT NO.:	2754
DRAFT: JC	DESIGN: CAM
CHECK: -	SCALE: AS SHOWN
	SHEET 1 OF 1



ADC MAP 31, A7
VICINITY MAP
SCALE: 1" = 2000'

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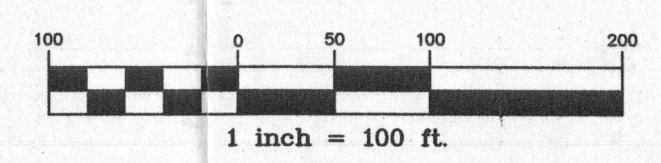
LEGEND

- | | | | |
|-------------------------|------------|-----------------------|--|
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| EXISTING WOODS LINE | — | EXISTING SEPTIC FIELD | |
| EXISTING WELL | ○ EX. WELL | PROPOSED SEPTIC FIELD | |
| PROPOSED WELL | ⊙ | 25% OR GREATER SLOPES | |
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SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

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John M. Carney 8-16-16
JOHN M. CARNEY, P.E.
PLAN PREPARER
FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
William M. Moore 8/30/2016
HOWARD COUNTY HEALTH OFFICER

BENCHMARK
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8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043
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WWW.BE-CIVLENGINEERING.COM

OWNER/DEVELOPER:	PROJECT:
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BELTSVILLE MD. 20705	5th ELECTION DISTRICT
301-237-9475	SE ROUTE 108
	HOWARD COUNTY, MARYLAND 20777
	TITLE:
	PERCOLATION CERTIFICATION PLAN
DATE: JULY, 2016	PROJECT NO. 2754
DRAFT: JC	SCALE: AS SHOWN
DESIGN: CAM	CHECK: -
	SHEET 1 OF 1