

## 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

Sand Hill Acres

PROPERTY ADDRESS

2445 Sand Hill Rd

STREET

TOWN

ZIP

TAX ACCOUNT #

TAX MAP

GRID

PARCEL

LOT NO.

7

PROPOSED LOT

SIZE (ACRES)

ZONING CATEGORY

TIER

PROPERTY OWNER(S)

Kristen Evans

DAYTIME PHONE

CELL

MAIL

MAILING ADDRESS

2445 Sand Hill Rd

STREET

Ellicott City Md

CITY, STATE

21043

ZIP

APPLICANT

Fogles Septic Clean

RELATIONSHIP TO OWNER:

Contractor

DAYTIME PHONE

410-795-5170

CELL

EMAIL

MAILING ADDRESS

580 Shredt Rd

STREET

Sykesville Md

CITY, STATE

21784

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 \_\_\_\_\_ 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.

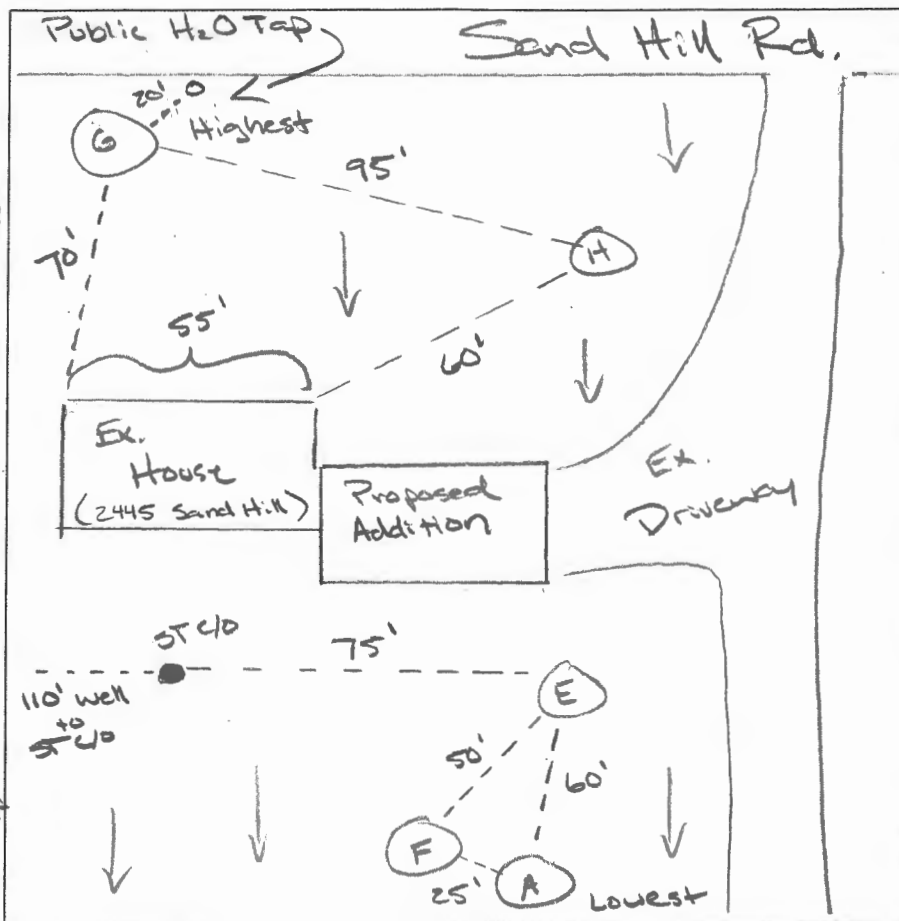
By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

SIGNATURE OF APPLICANT

DATE

AP AS65465

North



(G)  
DB Loom  
YB, 2FSBK,  
Soft, FSL

(H)  
LYB, YB,  
2FSBK,  
LS-S

(H)  
DB: YB, Loom

(2)  
YR, 2FSBK,  
L-FSL, Few  
Fine Mica

(5)  
YB, Thin Platy,  
FSL-LS-S

(A)  
2' DB, L  
4' SB, SBK,  
Heavy, Slightly  
Sticky, CL  
7.5' RY, SBK,  
SCL-SL  
Light Gray,  
Pinkish Gray,  
Platy, LS,  
Many Mica,  
Moist/Wet  
9' WET  
10' Ground  
14' Water

(E)  
DB, Thick  
Platy, Loom,  
(@ 2"-5" layers of  
YB, YR, coarse  
SL, Micaceous)  
SB, YR, 3MSBK,  
Heavy Loom,  
LS to Cobble  
3.5' YR, Thick Platy,  
Lighter L-SL  
Mik, Many fine  
mica, staining  
hard  
9' YB, Platy,  
SL, Flaky  
14' Friable Rock  
structures

(F)  
Same  
As  
A

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/8/20A	A	NA 3.5'		U	I S	U A L	F
	E	4' 10'	10:01	10:29		S L O W	F
	E	6' RS	10:39	10:47	11:02	15	P
	G	4' 8	12:31	12:32	12:33	1	F
	G	8' RP	12:35 sec 00	12:36 sec 43	12:38 sec 50	2	P
	H	4' 12	1:06	1:10	1:15	5	P
	F	NA 3.5'		V	I S	U A L	F

REMARKS Little to no SDA in backyard. Stagnant water further east.

SANITARIAN RSF BACKHOE John (Forte) OTHERS Owners, Matt Burch, Chris Matthews

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

★ Test holes B, D & C were not dug.  
Test holes B, D & C are shown on test plan



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

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Date: May 15, 2019

To: Kristen Evans  
2445 Sand Hill Rd  
Ellicott City, MD 21043

Re: **Percolation Test Report**  
2445 Sand Hill Rd  
Ellicott City, MD 21043

Percolation tests were conducted at 2445 Sand Hill Rd (Tax Map 16, Parcel 402) on 5/8/2019. Tests and profile descriptions were documented for locations A, E, F, G and H. Three out of the five test holes passed (E, G & H). Holes D, C & B shown on the test plan were not dug. All holes must be field located and accurately represented on the percolation certification plan.

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 conditions. The area must be large enough to accommodate two replacement systems. If two systems cannot fit the Health Dept. may consider allowing 1 replacement system which will require Best Available Technology (BAT) upon needed use of the area.

The next step in the process is to have an engineer/consultant submit a percolation certification plan to confirm the design of the sewage disposal area.

Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-6357 or by email [rfreemon@howardcountymd.gov](mailto:rfreemon@howardcountymd.gov)

Respectfully,

Robert Freemon  
Bureau of Environmental Health  
Well & Septic Program

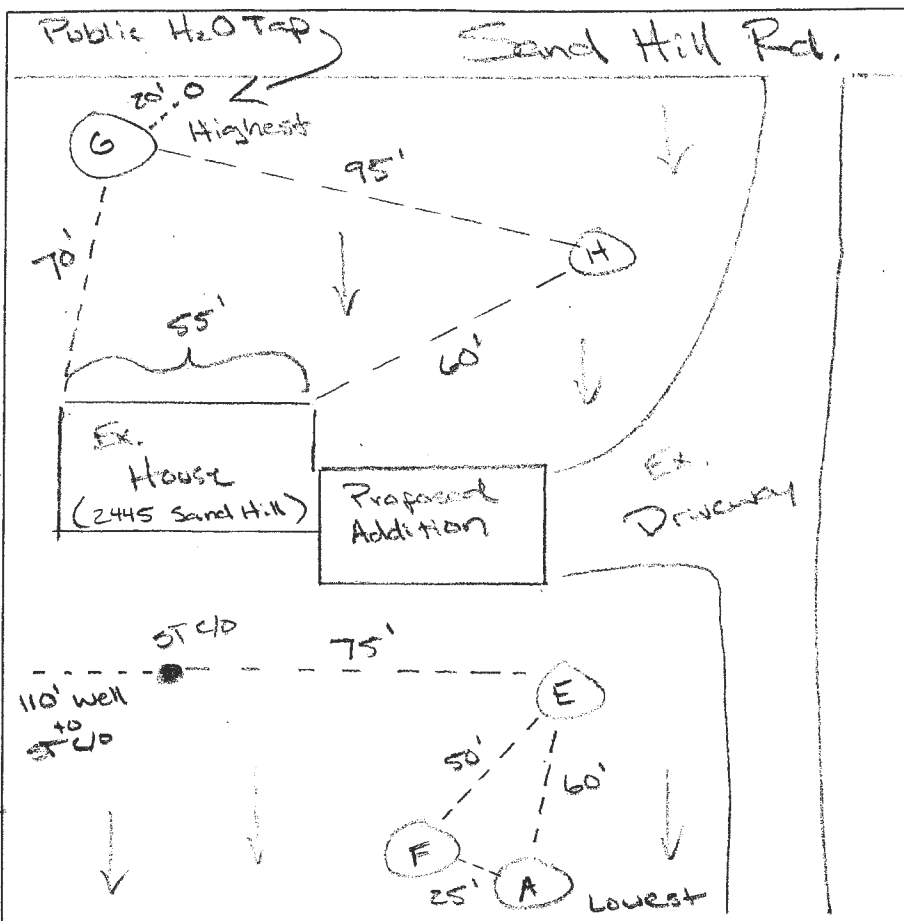
Attachment: Percolation Field Notes

AP A565465

North

Public H<sub>2</sub>O Tap

Sand Hill Rd.



DB, L

SB, SBR,  
Heavy, slightly  
stickiness, CLRY, SBR,  
SCL-SLLight Gray,  
Pinkish Gray,  
Platy, LS,  
Many Mica,  
Moist/Wet

WRT

Ground  
Water

E

DB, Thick  
Platy, Loam,  
(@ 2"-5" Layer of  
YB, YR, coarse,  
SL, Micaceous)SB, YR, 3MSBR,  
Heavy Loam,  
LS% CrinoidYR, Thick Platy,  
Lighter L-SL  
Mix, Many fine  
mica, stains  
handsYB, Platy,  
SL, Flat clay  
Frieder Rock  
structures

F

Same  
As  
A

DB Loam

YB, 2FSBR,  
Soft, FSLLYB, YB,  
2FSBR,  
LS-S

DB-YB, Loam

YR, 2FSBR,  
L-FSL, Few  
Fine MicaYB, Thin Platy,  
FSL-LS-S

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/8/2009	A	N/A 3.5'	V	15	U A L		F
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	E	6' RS	10:39	10:47	11:02	15	P
	G	4' 8	12:31	12:32	12:33	1	F
	G	8' BP	12:35 SEC 50	12:36 SEC 48	12:38 SEC 50	2	P
	H	4' 12	11:06	11:10	11:15	5	P
	F	N/A 3.5'	V	15	U A L		F

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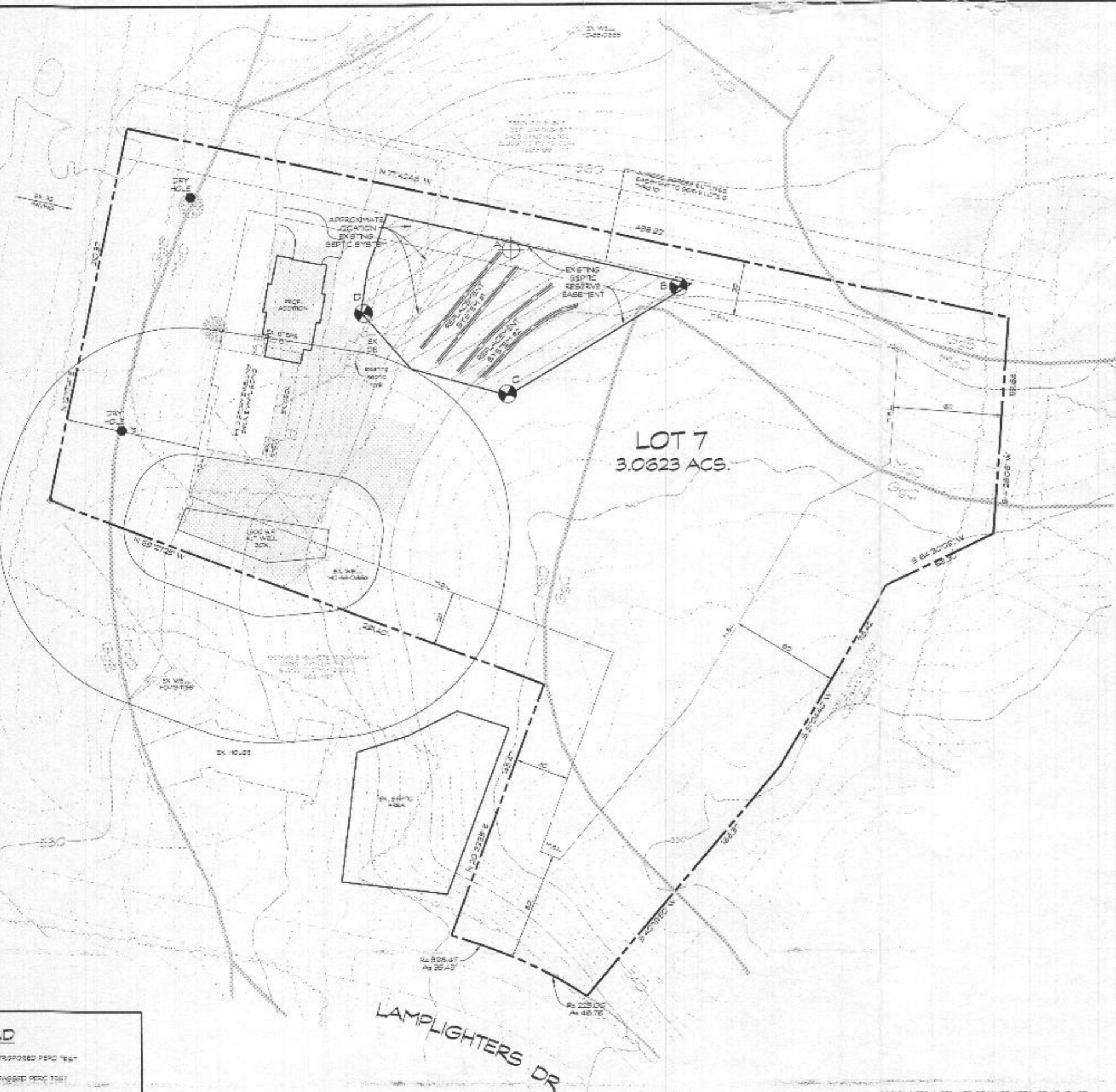
SANITARIAN RSF BACKHOE John OTHERS Owners, Matt Borch, Chris  
Matthew

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

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 Test holes B, D & C are shown on test plan

SAND HILL ROAD



### SEPTIC SYSTEM TRENCH DESIGN:

EXISTING HOUSE: 4 BEDROOMS  
PROPOSED ADDITIONS: 1 BEDROOM  
TOTAL NUMBER OF BEDROOMS: 5 BEDROOMS  
APPLICATION RATE: 1.2 GPD/SQ. FT.  
EFFECTIVE DEPTH: 10' 3" (BASED ON EXISTING SYSTEM DESIGN)

120 GALS X 5 BEDROOM = 750 GALLON/DAY  
120 GALL/DAY X 1.2 GPD/SQ. FT. = 825 SQ. FT.  
825 SQ. FT. X 2 FT. = 1650 LBS. OF STANDARD TRENCH  
313 LBS. X 44 = 13772 - 138 LBS. OF DEEP TRENCH  
USE 240 LBS. OF TRENCH FOR EACH SYSTEM

NOTE: EXISTING SEPTIC TRENCHES ARE 3-8.1 LF OF DEEP TRENCH FOR A TOTAL OF 155 LF OF DEEP TRENCH

### GENERAL NOTES

1. CURRENT TITLE REFERENCE:  
OWNER: KRISTEN EVANS  
DEED REFERENCE: L. 1853, F. 455  
DATE: OCTOBER 28, 2014  
GRANTOR: ANTONIO KAZAROS
2. THE LOT SHOWN HEREON CORRESPONDS WITH THE MINIMUM OWNERSHIP INTEREST AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT
3. THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY 200 SCALE TOPO MAPS AND VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY. TOPOGRAPHY OF THE SEWAGE DISPOSAL AREA WAS FIELD VERIFIED BY C.S.
4. EXISTING WELLS AND/OR SEWER EGRESS WITHIN 100' OF THE LOT LINES HAVE BEEN SHOWN. THERE ARE NO WELLS 200' DOWN GRADIENT OF THE SEPTIC BASEMENT AREA SHOWN.
5. M.S.L. DENOTES MINIMUM BUILDING LINE
6. ANY CHANGES TO THE PRIVATE SEWER BASEMENT AND/OR ALTERNATIVE WELL LOCATION SHALL REQUIRE A REVERSE PERCOLATION CERTIFICATION PLAN.
7. THE PERCOLATION TEST LOCATIONS WERE TAKEN FROM THE INFORMATION PROVIDED BY THE HEALTH DEPARTMENT FROM THE ORIGINAL PERMIT INFORMATION AND ALSO THE SAND HILL ACRES RECORD PLAT (PLAT NO. 8335)
8. SHOULD STORMWATER MANAGEMENT BE REQUIRED, IT WILL BE PROVIDED BY A DRY WELL ON SITE
9. SHOULD A SEPTIC SYSTEM UPGRADE BE REQUIRED, THE SEPTIC SYSTEM COMPONENTS SHALL BE INSTALLED AND APPROVED PRIOR TO HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT APPLICATION
10. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE BOUNDARY UNLESS OTHERWISE SHOWN HEREON

### DATA TABULATIONS:

1. ZONING DISTRICT: R8000
2. NUMBER OF BUILDING SITES: 1
3. TOTAL AREA OF LOT: 3.0623 ACRES

### OWNER/DEVELOPER

KRISTEN EVANS  
2445 SAND HILL ROAD  
ELLCOTT CITY, MD 21043

### PERCOLATION TEST RESULTS, A-40946

### PERCOLATION CERTIFICATION PLAN

LOT 7  
SECTION 3 AREA 1

### SAND HILL ACRES

2445 SAND HILL RD. ELLCOTT CITY, MD 21042

RECORDED IN PLAT #8355

3-4 ELECTION DISTRICT - HOWARD COUNTY, MD

TAX MAP: 18 - GRID: 7 - PARCEL: 402



430 East Main Street Westminster, MD 21157-5539  
(410) 848-1200 FAX (410) 848-1751

Project: Sand Hill Acres  
Property: Lot 7, Section 3, Area 1  
Date: October 28, 2014

A LICENSED PROFESSIONAL ENGINEER HAS PREPARED THIS PLAN IN ACCORDANCE WITH THE MARYLAND PROFESSIONAL ENGINEERING ACT AND REGULATIONS, AND IN COMPLIANCE WITH THE MARYLAND PROFESSIONAL ENGINEERING BOARD'S PRACTICE FOR LAND SURVEYING

Drawn By: S-1  
Designed By: S-1

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM  
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA 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.

PLAN  
SCALE: 1" = 30'

### LEGEND

- PROPOSED PERC TEST
- PASSED PERC TEST
- DRY HOLE
- EXISTING WELL LOCATION
- ALTERNATIVE WELL LOCATION
- SOIL LINES
- DENOTES TOTAL PROPOSED SEPTIC RESERVE BASEMENT AREA

### SOILS LEGEND