



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

ASL 7316

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

**APPLICATION
 FOR PERCOLATION TESTING AND SITE EVALUATION**

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME _____
 PROPERTY ADDRESS 3444 Woodbine Rd Woodbine, MD 21797
STREET TOWN ZIP
 TAX ACCOUNT # 04-319729 TAX MAP 1319129 GRID _____ PARCEL 129 LOT NO. 5 PROPOSED LOT SIZE (ACRES) 7.38
 ZONING CATEGORY RCDEO TIER _____

PROPERTY OWNER(S) Ryan & Jessica Jenkins

DAYTIME PHONE _____ CELL _____ EMAIL _____

MAILING ADDRESS 3444 Woodbine Rd Woodbine, MD 21797
STREET CITY, STATE ZIP

APPLICANT Kathleen Ruben RELATIONSHIP TO OWNER: former home owner

DAYTIME PHONE 301-520-7448 CELL _____ EMAIL Kathyrubene.comcast.net

MAILING ADDRESS 40360 Waterview Dr. Mechanicsville, MD 20659
STREET CITY, STATE ZIP

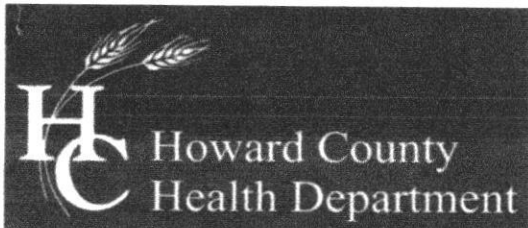
HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

- 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 4 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.

Kathleen Ruben 2/14/2020
 SIGNATURE OF APPLICANT DATE



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

MEMORANDUM

TO: Kathleen Ruben
3444 Woodbine Rd.
Woodbine, MD 21797

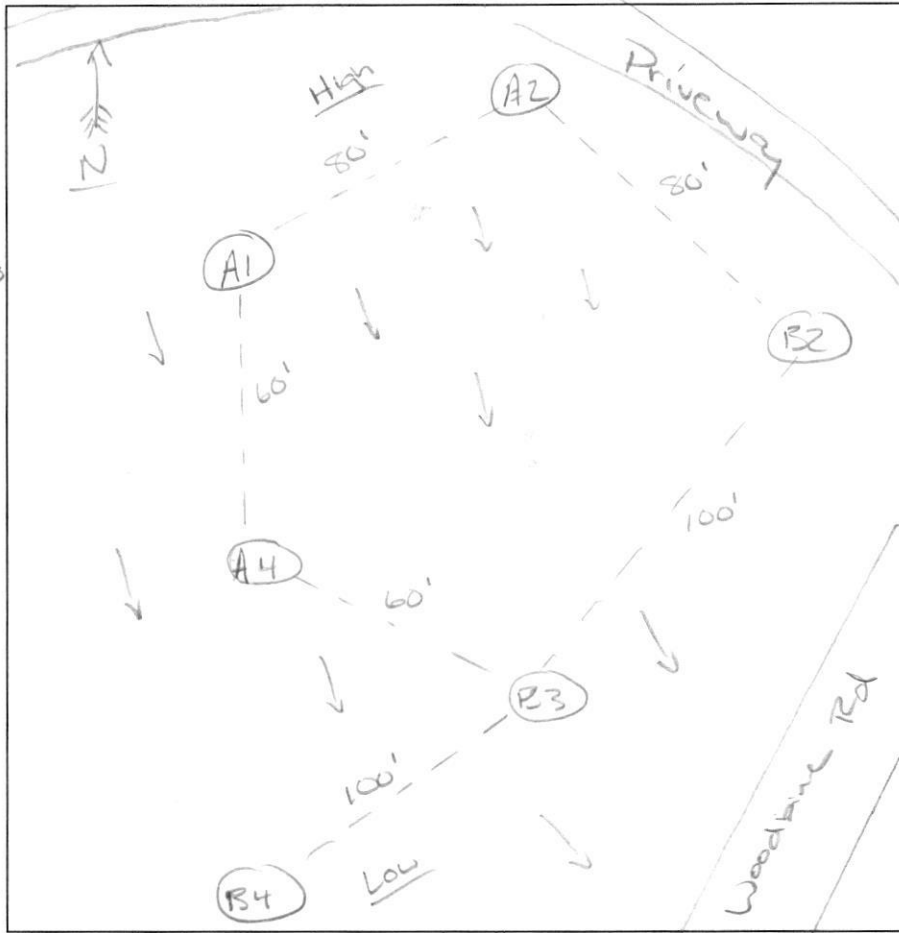
FROM: Robert Freemon *RIF*
Well & Septic Program

RE: 3444 Woodbine Rd.
Woodbine, MD 21797
(Prior to BP Approval)

DATE: 1/28/2020

After review of B19004382 the following is required prior to building permit approval.

Percolation Certification Plan: A percolation certification plan is a plan signed by the Health Dept. designating a sewage disposal area on the property. Before a perc cert can be created perc testing is required. Prior to testing the Health Dept. must receive a filled-out perc testing application, the perc permit fee of \$506 (payable to the Director of Finance) and a perc test plan. The fee for the perc permit covers the testing, plan review and certification. Homeowners will need to hire a septic contractor or a friend with a backhoe to dig holes 12-16ft deep. As for the test plan, homeowners will typically hire a civil/septic engineer who has worked with us before. Once the Health Dept. has received all three (application, fee, test plan) and we approve of the test plan we will schedule a date for perc testing. Based on the test results the engineer will finalize the perc cert.



A-1
 5' DB
 YB, SB, Thin Platy, L, muf, ds
 @ 2'-4' gravelly loam
 4' Y, Thin Platy, SL, muf, ds
 10% Gravel
 11' HARD Bottom

B2
 5' PB
 SB, Thin Platy, L, muf, ds
 3' YR, Thin Platy, course sCL, muf, compact sidewalk
 5' Y, YR, Platy, course SL, muf
 11'

A2
 5' DB, L
 SE, Platy, FSK, L, muf, ds
 3' SB, YR, Thin Platy, course sCL, compact sidewalk
 5' Y, Thin Platy, SL, muf, ds
 11'

B4
 5' DB, SBH, L
 YR, FSK, L, muf
 4' YR, FY, Thin Platy, muf, ds
 SL
 8' 10-20% Gravel
 12'

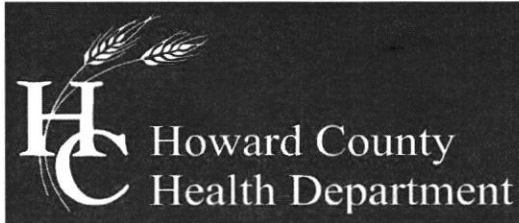
B3
 1' DB, L, Platy
 YR, Platy, L, muf, ds
 @ 2'-4' gravelly loam, Fluffy Kc Layer
 3.5' YR, FY, Thin Platy, muf, ds
 SL
 7' 10-20% Gravel
 11'

A4
 6' PB, L, Platy
 SB, Thin Platy, L, muf, ds
 @ 2'-4' GL
 4' Y, Thin Platy, SL, muf, ds
 10% Gravel
 11'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/5/2020	B4	4 / 12	9:35	9:40	9:49	10	P
	B3	4 / 11	10:14	10:27	10:43	16	P
	A4	4 / 11	10:54	11:04	11:16	12	P
	A1	4 / 11	11:27	11:29	11:34	5	P
	B2	4 / 11	12:04	12:08	12:15	8	P
	A2	4 / 11	12:33	12:39	1:28	SLOW	F
	A2	5 / 15	1:43	1:56	2:19	23	P

REMARKS Test holes are fairly consistent
 SANITARIAN RSF BACKHOE Jim OTHERS Rim
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

3444 Woodbine



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

Date: June 15, 2020

To: Kathleen Ruben
40360 Waterview Dr.
Mechanicsville, MD 20659

Re: Percolation Test Report
3444 Woodbine, MD
Woodbine, MD 21797

Percolation tests were conducted at 3444 Woodbine Rd (Tax Map 13, Parcel 129) on June 5th, 2020. Test and profile descriptions were documented for locations A1, A2, A4, B2, B3 and B4. All 6 test holes passed (A1, A2, A4, B2, B3 and B4.)

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 area are represented by test locations having satisfactory soil conditions. The area must be at least 10,000 sqft.

The next step in the process is to have an engineer/consultant submit a finalized percolation certification plan to the Health Dept. for review and signature.

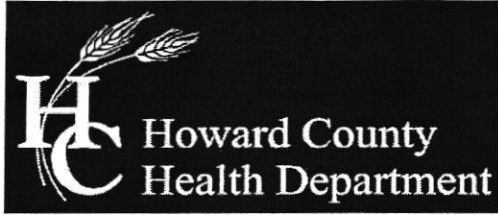
Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-6357 or by email rfreemon@howardcountymd.gov

Respectfully,

A handwritten signature in cursive script, appearing to read 'Robert Freemon'.

Robert Freemon
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Field Notes



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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 3444 Woodbine

Subdivision: Lot:

Table with 4 columns: System, Application rate, Effective area beginning depth, Bottom maximum depth. Rows include A1, A2, A4; A4, B2; B2, B3, B4.

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:

- Trenches must be located to provide room for 3 systems in the disposal area
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.
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
Maximum trench length is 100'
Maximum pipe depth is 4'

Additional requirements: Area must be 10,000sqft

Approved: [Signature] Date: 6/15/2020



HOWARD COUNTY HEALTH DEPARTMENT

67316

DATE 2/19/2020

AS

Received From

Kathleen Ruben

PHONE #

301-520-1448

For

Porc App / 3444 Woodbine Rd.

CASH

CHECK

NO 134

Five hundred six

Dollars

\$506.00

Received By

King



HOWARD COUNTY HEALTH DEPARTMENT

67316

DATE 2/19/2020

A5

Received From

Kathleen Reber

PHONE #

301 520-1148

For

Porc Cpp / 3444 Woodbine Rd.

CASH

CHECK

NO.

134

Five hundred six

Dollars

\$

506.00

Received By

King



Tax Assessment Parcel 39
L. 18520 F. 202

Lot 26
Timberleigh Homesteads
Plat No. 9912

Tax Assessment Parcel 129
L. 13929 F. 374
7.38 Ac.

L. 13929 F. 374
7.38 Ac.

Tax Assessment Parcel 191
L. 11369 F. 119

NOTES

Tax assessment Parcel 129, as shown, was reproduced from available deeds of record found in the Land Records of Howard County, Maryland.

Two foot topography, as shown, was reproduced from online Howard County GIS resource webpage.

Existing improvements, as shown, are taken from a field run survey completed by this office dated, October, 2019.

The purpose of this plan is to designate septic reserve area.

Owner info: Kathy Ruben
3444 Woodbine Road, Woodbine, Md 1797
301-520-7448
KathyRuben@comcast.net

SEPTIC DESIGN


Existing 4 bedroom house
Design flow = 600 gpd
Required drain field = (subject to Test results)

Legend

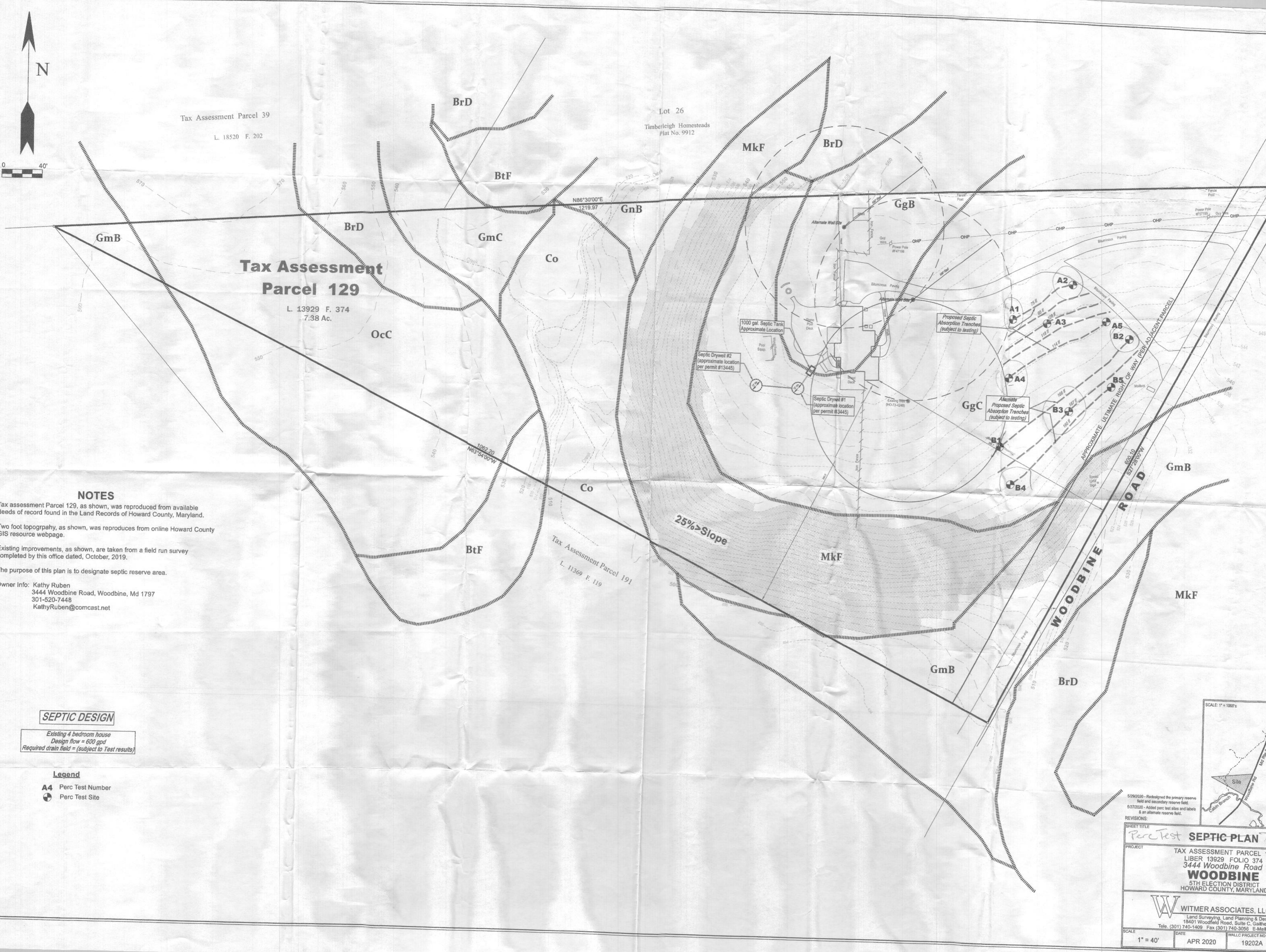
- A4 Perc Test Number
- ⊕ Perc Test Site

5/29/2020 - Redesignated the primary reserve field and secondary reserve field.
5/27/2020 - Added perc test sites and labels & an alternate reserve field.

REVISIONS:

SHEET TITLE	
Perc Test SEPTIC PLAN	
PROJECT	
TAX ASSESSMENT PARCEL 129 LIBER 13929 FOLIO 374 3444 Woodbine Road WOODBINE 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
 WITMER ASSOCIATES, LLC Land Surveying, Land Planning & Design 18401 Woodfield Road, Suite C, Gaithersburg, MD 20878 Tele. (301) 740-1409 Fax (301) 740-3058 E-Mail wllc@witmer.com	
SCALE	DATE
1" = 40'	APR 2020
SCALE	WALLC PROJECT NO.
1" = 40'	19202A

SCALE: 1" = 1000'



3268 Woodbine Road
Tax Assessment Parcel 39
Marin Family Trust
L. 18520 F. 202

3408 Woodbine Road
Lot 26
Timberleigh Homesteads
Plat No. 9912
Martin Family Trust
L. 18520 F. 211

Tax Assessment
Parcel 129

3500 Woodbine Road
Tax Assessment Parcel 191
Owner: Gregory Heiges
L. 11369 F. 119



GENERAL NOTES

1. Tax assessment Parcel 129, as shown, was reproduced from available deeds of record found in the Land Records of Howard County, Maryland.
2. The two foot contour topography, as shown, was reproduced from online Howard County GIS resource web page and has been verified to accurately represent the relative changes on the subject property.
3. All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.
4. The property complies with the minimum ownership width and area required by the Maryland Department of Environment.
5. Soils data, as shown, interpreted from USDA - Natural Resources Conservation Service - Web Soil Survey
6. Existing improvements, as shown, are taken from a field run survey completed by this office dated, October, 2019.
7. Any changes to a private sewage disposal area shall require a revised percolation certification plan.
8. If a replacement septic system is needed in the future, a test hole shall be dug in the center of the SDA prior to installation.

SEPTIC NOTE

The sewage disposal area (SDA) as depicted hereon in plan view designates a private sewage area as required by the Maryland Department of the Environmental for individual sewage disposal. For lots created prior to March of 1972 it must provide at least enough area to accommodate an initial and two replacement septic systems or a minimum of 10,000 square feet as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This 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.

Hydrologic Soil Group

Map Unit Symbol	Map Unit Name	Rating	Area in ACI	Percent of ACI
B/C	Brackish clayey loam, C 4 to 15 percent slopes	C	1.1	3.9%
B/D	Brackish clayey loam, C 15 to 25 percent slopes	C	5.9	19.7%
B/F	Brackish-Blockdown clayey loam, 25 to 65 percent slopes	C	0.0	0.0%
Co	Codorus and Harbors all loam, 0 to 3 percent slopes	C	2.2	7.2%
GgB	Glenny loam, 3 to 8 percent slopes	B	5.0	16.7%
GgC	Glenny loam, 8 to 15 percent slopes	B	4.4	14.6%
GmB	Glenny silt loam, 3 to 9 percent slopes	CD	2.7	9.0%
GmD	Glenny silt loam, 9 to 8 percent slopes	C	1.2	3.9%
MkF	Mario-Brown complex, 25 to 65 percent slopes, very rocky	B	3.3	11.1%
Occ	Ocoquan loam, 8 to 15 percent slopes	B	4.1	13.7%
Totals for Area of Interest			28.9	100.0%

SUMMARY OF PERCOLATION TEST RESULTS

TEST DATE	TEST SITE #	GROUND ELEVATION*	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2" INCH	P/F/H
6-5-2020	B4	538.8	4 12	9:35	9:40	9:49	10	P
6-5-2020	B3	540.9	4 11	10:14	10:27	10:43	16	P
6-05-2020	A4	546.0	4 11	10:54	11:04	1:16	12	P
6-05-2020	A1	550.2	4 11	11:27	11:29	11:34	5	P
6-05-2020	B2	542.0	4 11	12:04	12:08	12:15	8	P
6-05-2020	A2	550.1	5 25	1:43	1:56	2:19	23	P

* ground elevations from a field survey completed by this office February 2, 2023
vertical datum interpreted from County contour map elevations at test sites A-2 and B-2
P = Passing test site

- PLAN VIEW LEGEND**
- A4 Perc Test Site Identification Number
 - Passing Perc Test Site
 - Soil Boundary Line
 - Soil symbol
 - Existing contours
 - Sewage Disposal Area Boundary
 - Ground slope greater than 25%
 - 25% & greater ground slope boundary

PLAN PREPARATION & DESIGN CERTIFICATION

I hereby certify that the information shown hereon is based on field survey work performed by me and/or under my direct supervision, and is correct, to the best of my knowledge and belief.

December 02, 2022
Two year MLLR Professional Land Surveyor's License renewal date: 11/29/2023

The purpose of this plan is to designate a sewage disposal area on this site in connection with B19004382. Structures proposed under B19004382 were originally constructed without permits.

Approved for Private Water and Private Sewerage Systems

Health Officer, Howard County Health Department
Date: 5/8/23

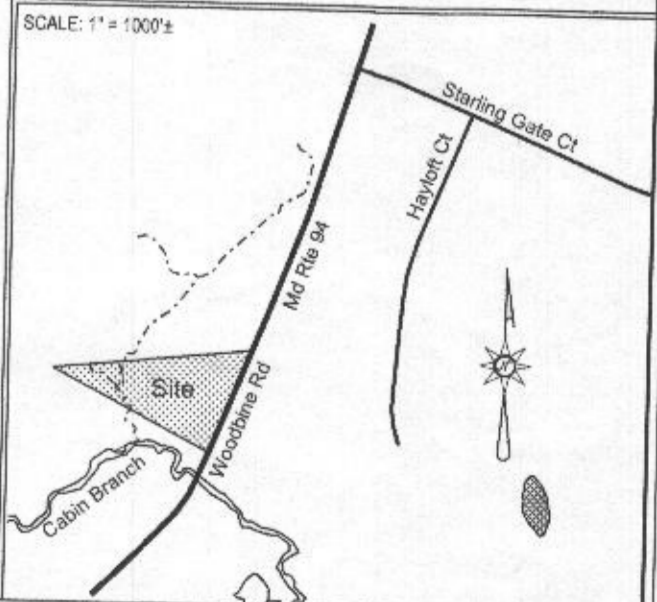
OWNER:
Ryan Jenkins
3444 Woodbine Road
Woodbine, MD 21797
(303) 746-4078

PREPARED FOR:
Kathleen Ruben
40360 Waterview Drive
Mechanicsville, MD 20659

PERCOLATION CERTIFICATION PLAN

PROJECT: TAX MAP 13, TAX ASSESSMENT PARCEL 129
3444 Woodbine Road
JENKINS PROPERTY PROPERTY
LIBER 19139 FOLIO 259
WOODBINE
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 40'
DATE: June 2020
WALLC PROJECT NO: 19202A
SHEET NO: 1 of 1



- PLAN REVISIONS:**
- 5/10/2022 - Parasites revisions per 4/09/2022 HC-HD comments
 - 5/27/2020 - Added perc test sites and labels & alternate reserve field
 - 5/29/2020 - Redesignated the primary reserve field and secondary reserve field
 - 6/26/2020 - Septic absorption replacement area design
 - 2/26/2021 - Septic revisions per HC-HD comments
 - 12/01/2022 - Septic revisions per HC-HD comments
 - 12/02/2022 - Test sites B1 & B2 removed
 - 12/15/2022 - HC-HD comment revisions
 - 1/15/2023 - Ground elevations at septic test sites added
 - 2/09/2023 - HC-HD 10/7/2023 comment revisions