

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

ASLO4011

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME CISSELL FARM SECTION 3
PROPERTY ADDRESS 7016 DEER VALLEY ROAD HIGHLAND MD 20777
TAX ACCOUNT # TAX MAP 40 GRID 3 PARCEL 235 LOT NO. 17 PROPOSED LOT SIZE (ACRES) 2.07
ZONING CATEGORY RR-DEO TIER

PROPERTY OWNER(S) JEROME RAFFEL
DAYTIME PHONE CELL EMAIL
MAILING ADDRESS 7022 DEER VALLEY ROAD HIGHLAND MD 20777

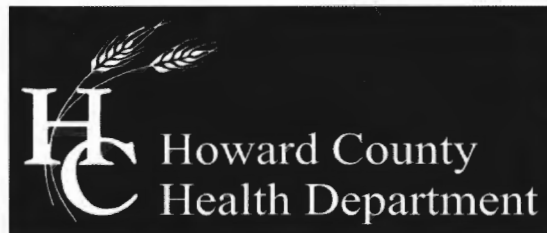
APPLICANT DAVID BARRY RELATIONSHIP TO OWNER: BUILDER
DAYTIME PHONE 240-398-1538 CELL EMAIL DBARRY@NVRINC.COM
MAILING ADDRESS 1802 BELVEDERE BLVD SILVER SPRING MD 20902

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

- PROPERTY:
SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 1
CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
REPAIR OR REPLACE FAILING OSDS
UPGRADE EXISTING OSDS
BUILDING:
RESIDENTIAL WITH 5 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



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

Date: Dec 3, 2018

To: David Barry
1802 Belvedere BLVD
Silver Spring, MD 20902

Re: Percolation Test Report
Cissell Farms, Lot 17
7016 Deer Valley Rd.
Highland, MD 20777

Percolation tests were conducted at 7016 Deer Valley Rd. (Tax Map 40, Parcel 235) on 11/28/2018. Tests and profile descriptions were documented for locations 106, 106A, 107, 108, 108A, 109 and 110. Five out of the seven test locations passed (106A, 107, 108A, 109 and 110). All holes must be field located and accurately represented on the perc 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.

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.

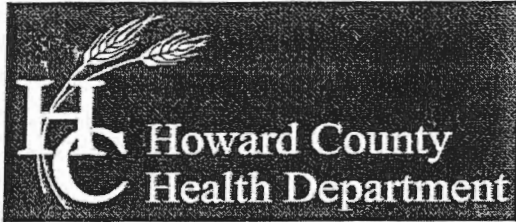
Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-6357 or by email rfreemon@howardcountymd.gov

Respectfully,

A handwritten signature in black ink, appearing to read 'Robert Freemon', is written above the typed name.

Robert Freemon
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Field Notes



Bureau of Environmental Health

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 7016 Deer Valley

Subdivision: Cissell Farms Lot: 17

Table with 4 columns: Replacement type, Application rate, Effective area beginning depth, Bottom maximum depth. Rows for Initial system, 1st Replacement, and 2nd Replacement.

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. 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'

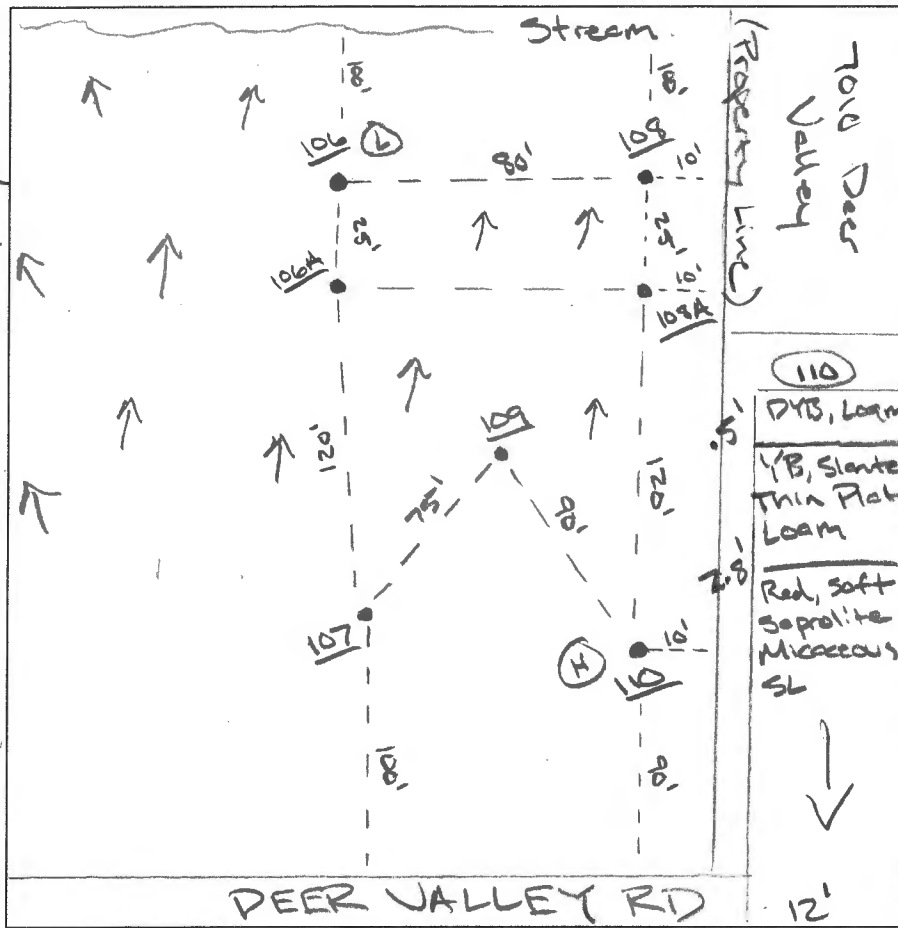
Additional requirements:

Approved: [Signature] Date: 12/3/2015

Sent to Tony

AP A56401

North



108
 1.7' YB, Thick Platy, Loam
 4' SB, Thin/Thick Platy, Black Grey, Saprolite Mix, Brittle, SL-LS Micaceous
 7' SB, Sand Micaceous
 Water Seeps

106
 0.6' DYB, Thin Platy, Loam
 2.8' YR, Thin Platy, Loam
 4' Black, Grey, SB, Saprolite, Thin Platy, Micaceous
 9' SB, Sand Micaceous
 Water Seeps

109
 2' DYB, FSBK, L, Cobble layer @ 2'
 2' YR, Platy, SL-LS, Black, Pinkish grey, Saprolite Mix, Micaceous
 6' YB, Black, Pinkish grey, Sand, Micaceous

106A
 0.7' DYB, Loam
 4' YR, Thin Platy, Loam
 6.5' YB, Platy, SL, Micaceous
 Pinkish grey, Black, Saprolite Mix, Platy, LS, Micaceous
 14'

108A
 0.7' DYB, L
 3.5' Black, Pinkish grey, Saprolite Mix, Thin Platy, SL, DYB, Micaceous
 12' DYB, YB, Pinkish grey, Platy, LS, Micaceous
 WATER Seeps

107
 0.7' DYB, Loam
 5' YR, Thin Platy, SL-LS, Micaceous
 7' YR, Sand, Platy, Micaceous
 12' Black, Pinkish grey, YR, Saprolite Mix, Micaceous

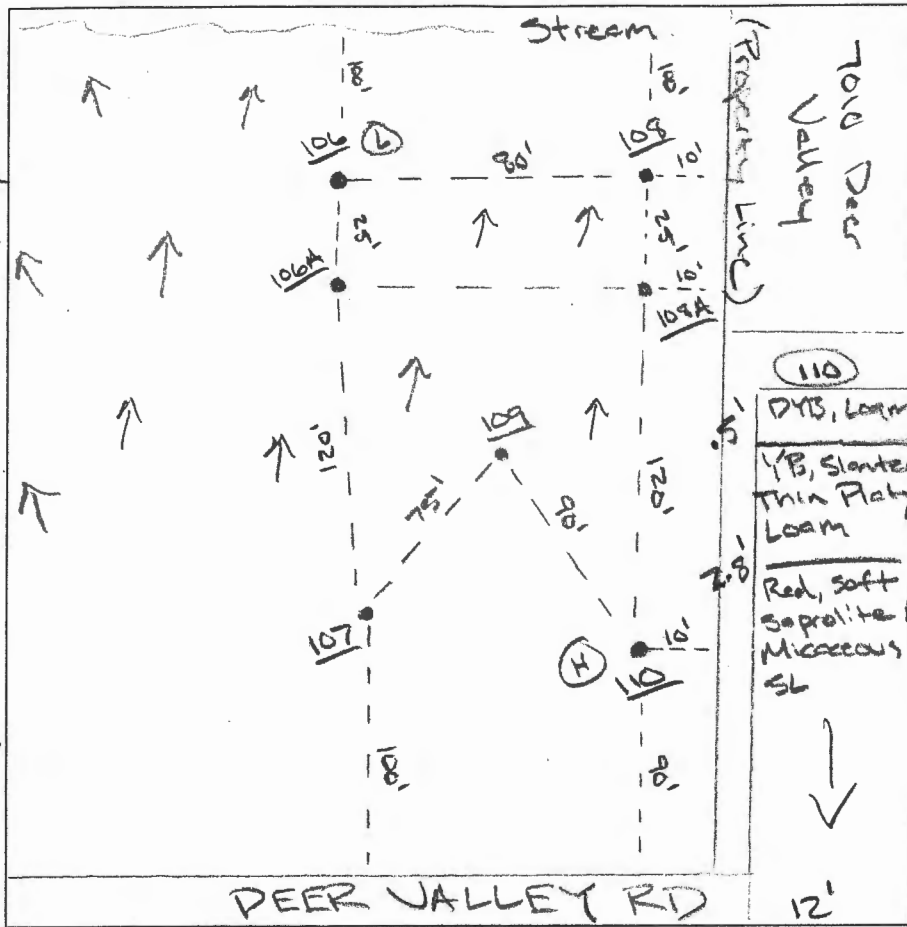
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H	
11/28/2018	108	4 / 7	10:23	10:25	10:28	2	P*	
	106A	4 / 14	11:08	11:10	11:13	3	P	
	109	4 / 12.5	11:18	11:20	11:23	3	P	
	108A	4 / 12	11:33	11:34	11:35	1	F	
	108A RP	12	11:37	11:39	11:41	2	P	
	107	4 / 12	11:49	11:51	11:55	4	P	
	110	4 / 12	11:59	12:01	12:04	3	P	
	106	H2O / 9'	Observation					F

REMARKS * 108 Fails due to high ground water @ 7' (Noticed H2O During Test)

SANITARIAN RSF BACKHOE _____ OTHERS FCC Tony
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

AP A56401

North



108
 17' YB, Thick Platy, Loam
 4' SB, Thin Thick Platy, Black Grey, Saprolite Mix, Brittle, SL-LS Micaceous
 4' SB, Sand Micaceous
 7' Water Seeps

106
 0.6' DYS, Thin Platy, Loam
 2.8' YR, Thin Platy, Loam
 4' Black, Gray, SB, Saprolite Thin Platy Micaceous
 4' SB, Sand Micaceous
 9' Water Seeps

109
 2' DYS, FSBK, L, Cobble layer @ 2'
 6' YR, Platy, SL-LS, Black, Pinkish grey, Saprolite Mix Micaceous
 12.5' YB, Black, Pinkish grey, Sand Micaceous

106A
 0.7' DYS, Loam
 4' YR, Thin Platy, Loam
 6.5' YB, Platy SL, Micaceous
 Pinkish grey, Black, Saprolite M Platy, LS, Micaceous
 14'

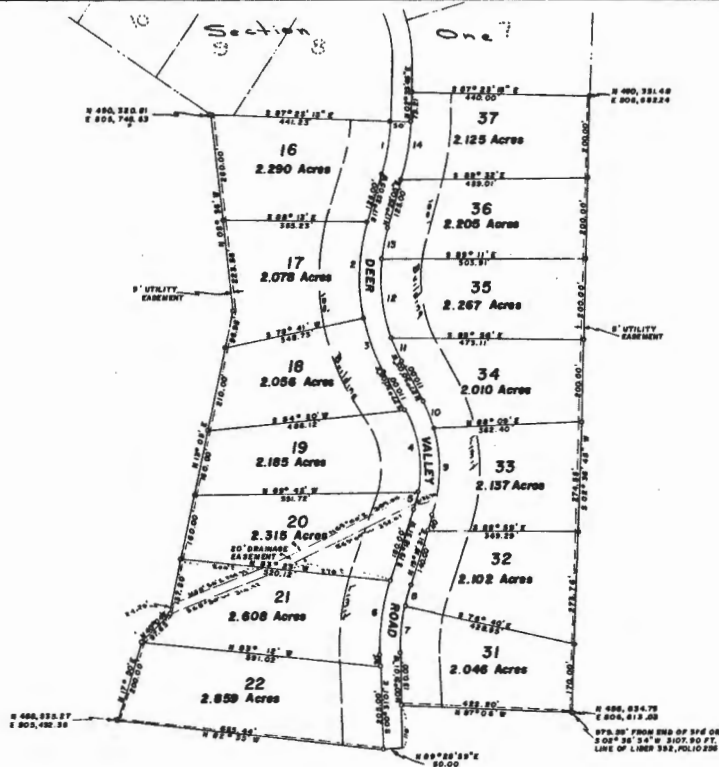
108A
 0.7' DYS, L
 3.5' Black, Pinkish grey, Saprolite Mix, Thin Platy, SL, DYS, Micaceous
 12' DYS, YB, Pinkish grey, Platy, LS, Micaceous
 WATER Seeps

107
 0.7' DYS, Loam
 3' YR, Thin Platy, SL-LS, Micaceous
 7' YR, Sand, Platy, Micaceous
 12' Black, Pinkish grey, YR, Saprolite Mix, Micaceous

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/28/2018	108	4 / 7	10:23	10:25	10:28	2	P*
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	109	4 / 25	11:18	11:20	11:23	3	P
	108A	4 / 12	11:33	11:34	11:35	1	F
	108A RP	12	11:37	11:39	11:41	2	P
	107	4 / 12	11:49	11:51	11:55	4	P
	110	4 / 12	11:55	12:01	12:04	3	P
	106	H ₂ O 9'	Observation				F

REMARKS * 108 Fails due to high ground water @ 7' (Notched H₂O Poring Test)

SANITARIAN RSF BACKHOE _____ OTHERS FCC Tony
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



OWNER'S DEDICATION

I, John T. Lane Jr., President of Cissel Farm Inc., a body corporate of the State of Maryland, owner of the property shown and described herein submit this plan of subdivision and reserve the fee simple title to the beds of the streets and/or roads shown hereon, and in consideration of the approval of this plat by the Planning Commission of Howard County, I do hereby give and grant unto the Board of County Commissioners of Howard County the right and option to acquire for the consideration of One dollar the fee simple title to the beds of the streets and/or shown hereon, within the period of Five years from the date of the recording of this plat among the Land Records of Howard County.

Witness my hand and seal this 18th day of August 1963

John T. Lane Jr.
 John T. Lane Jr., President
 Highland, Maryland

ENGINEERS CERTIFICATE

I hereby certify that the plan shown hereon is correct, that it is a subdivision of a part of the land which by deed dated May 13, 1963 and recorded among the Land Records of Howard County in Liber No. 352, Folio 256 etc. was granted and conveyed by Willie H. Cissel, widow, to Cissel Farm Inc. and that iron pipes marked thereon and concrete monument marked thereon are in place as shown hereon.

I further certify that the requirements of Sections 76A to 76D of the Annotated Code of Maryland (Title Clerk of Court and Title Clerk of Circuit Court) as far as they relate to the marking of this plat and setting of markers have been complied with.

Claude M. Salmer Jr.
 Claude M. Salmer Jr., Reg. Engineer & Land Surveyor No. 2237
 11 Court Place
 Ellicott City, Maryland

CURVE DATA

CURVE	RADIUS	ANGLE	ARC	TANGENT	CHORD
1	840.00'	14° 46' 20"	139.82'	70.00'	8 09° 59' 55" W 188.84'
2	485.00'	29° 23' 04"	840.87'	182.83'	8 03° 41' 33" W 297.82'
3	485.00'	16° 30' 04"	139.82'	70.00'	8 18° 21' 01" W 139.80'
4	310.00'	38° 30' 03"	208.31'	102.85'	8 08° 15' 02" E 204.41'
5	310.00'	08° 48' 31"	44.36'	22.82'	8 18° 09' 18" E 44.92'
6	840.00'	19° 49' 38"	186.88'	94.37'	8 09 23' 48" W 185.82'
7	480.00'	13° 31' 01"	116.48'	59.81'	8 06° 24' 28" E 118.16'
8	480.00'	09° 58' 31"	81.10'	28.36'	8 18° 19' 18" W 81.06'
9	380.00'	38° 18' 31"	221.88'	114.88'	8 01° 39' 18" E 218.38'
10	840.00'	11° 30' 03"	72.28'	36.25'	8 21° 49' 02" E 72.14'
11	428.00'	08° 00' 03"	60.74'	30.42'	8 23° 29' 58" E 60.89'
12	428.00'	28° 29' 58"	201.19'	102.43'	8 08° 18' 01" E 199.40'
13	428.00'	10° 23' 07"	78.88'	39.23'	8 18° 11' 31" W 78.74'
14	388.00'	14° 48' 20"	148.87'	73.24'	8 09° 29' 59" W 148.27'

Coordinates - Maryland State Plane System

Area in lots 31, 293 Acres
 Area in roads 1.828
 Total 33.121 Acres

**MAP OF
 CISSSEL FARM SECTION 3
 FIFTH ELECTION DISTRICT OF HOWARD COUNTY
 HIGHLAND, MARYLAND
 SCALE: 1 IN. = 200 FT. AUGUST 1963**

PLAT APPROVED BY

11-5-63 *Wilma D. Danner*
 Date Wilma M. Somner, Chairman of Planning Commission

11-5-63 *Thomas S. Harris Jr.*
 Date Thomas S. Harris Jr., Planning Director

11-5-63 *Herman S. Cayell*
 Date Herman O'Neill County Roads Supervisor

11-5-63 *Carl W. Meyer*
 Date Carl Meyer, Chief Engineer Metropolitan Commission

RECORDED PLAT BOOK 9 FOLIO 43
 ON JULY 17 1963 AMONG THE LAND RECORDS
 HOWARD COUNTY, MD.

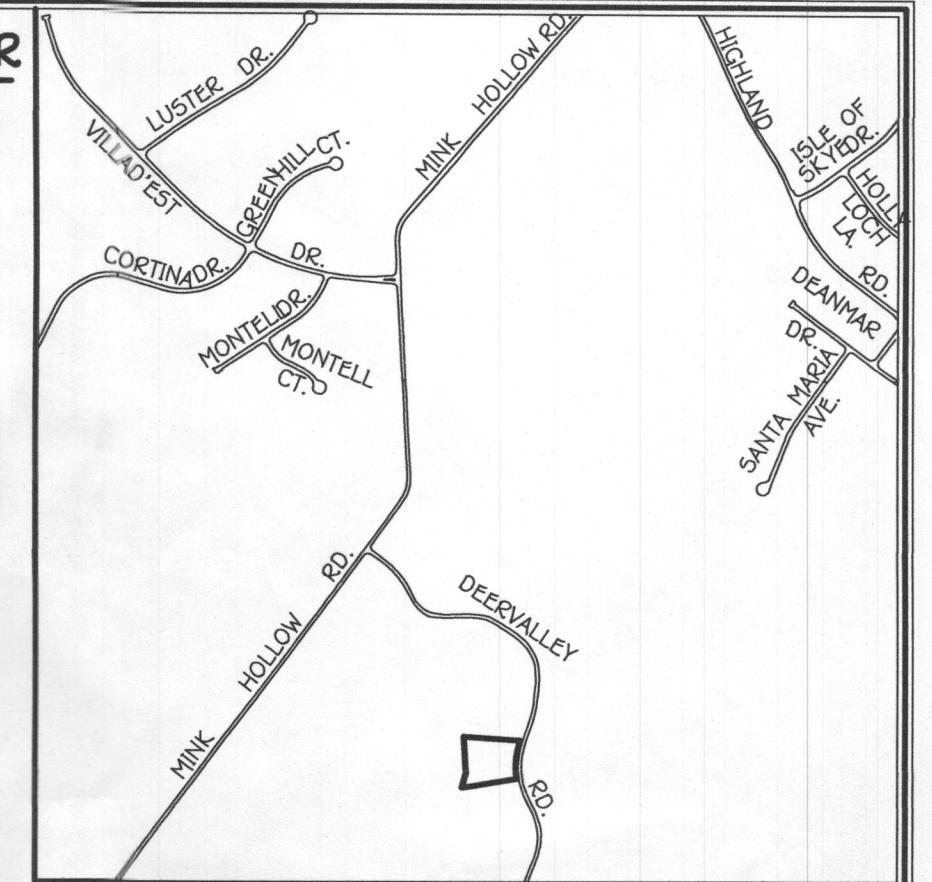
LEGEND

- EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
- EXISTING TREE LINE
- GLB2
MLC2 SOIL LINES AND TYPES
- (W) DENOTES EXISTING WELLS
- (FO) DENOTES FAILED PERC
- (O) DENOTES PASSED PERC
- (W) DENOTES PROPOSED WELL

OWNER/DEVELOPER

DAVID AND REGINA BARRY
1802 BELVEDERE BLVD
SILVER SPRING MD 20902

THE PURPOSE OF THIS PLAN IS TO SHOW WHERE THE APPROVED PERC AREA IS LOCATED ON THE PROPERTY WITH THE PROPOSED WELL LOCATIONS



VICINITY MAP
SCALE : 1" = 1200'

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL FOR LOTS CREATED PRIOR TO MARCH OF 1972 IT PROVIDES AT LEAST ENOUGH AREA TO ACCOMMODATE AN INITIAL AND TWO REPLACEMENT SEPTIC APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HEALTH OFFICER, HOWARD COUNTY HEALTH. DEPT. DATE SYSTEMS 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.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM ALL REASONABLE EFFORTS.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. TOPOGRAPHY SHOWN IS FROM CHARLES P. JOHNSON & ASSOCIATES, INC. AUGUST 15, 2008
7. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN
9. DEED REFERENCE LIBER 8956 FOLIO 283.
10. WELL MUST BE DRILLED PRIOR TO BUILDING PERMIT APPROVAL

SOILS LEGEND

SOIL	NAME	CLASS
GgB	Glenelg loam, 3 to 8 percent slopes	B
GnB	Glenville-Baile silt loams, 0 to 8 percent slopes	C
MaC	Manor loam, 8 to 15 percent slopes	B

PERC CERTIFICATION
I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.

Signature of Professional Land Surveyor: Terrell A. Fisher, Professional Land Surveyor No. 10692 Expires 12/13/19
Date: 2/5/19

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Signature for Monica Rossman
COUNTY HEALTH OFFICER
DATE: 2/13/2019

PERC CERTIFICATION PLAT
7016 DEER VALLEY

TAX MAP #40

FIFTH ELECTION DISTRICT

SCALE: 1" = 50'

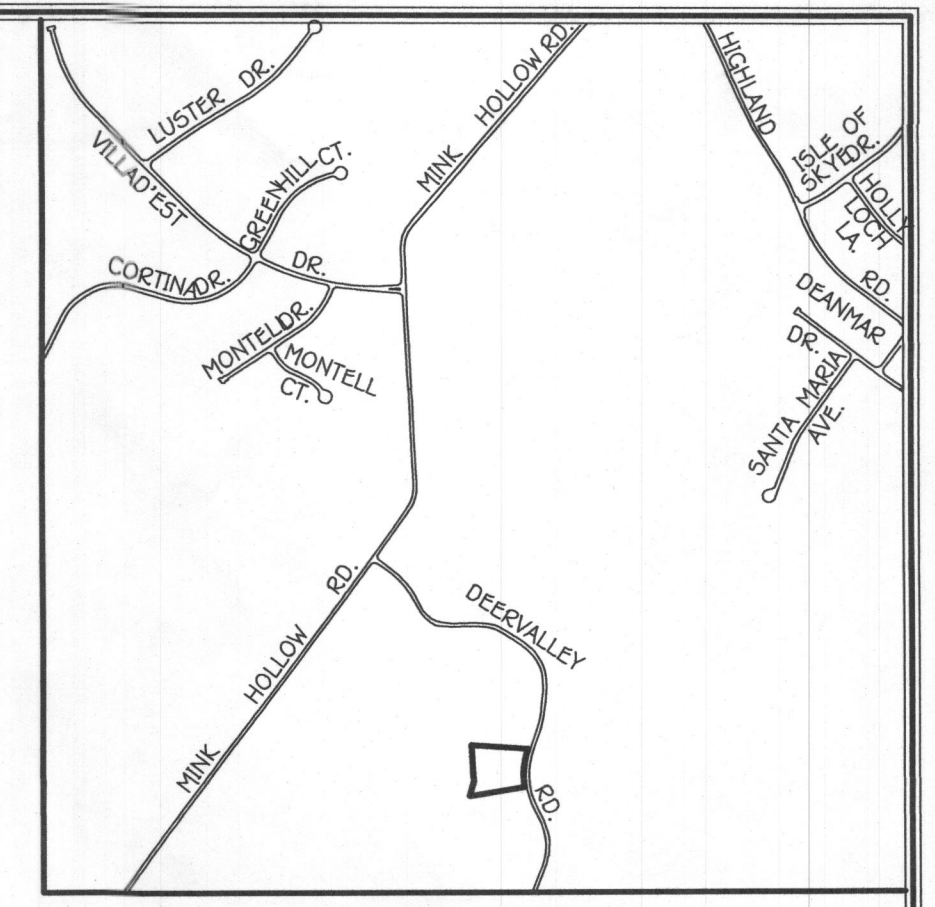
PARCEL: 235

HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 5, 2019

LEGEND

- EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
- EXISTING TREE LINE
- GLB2
MLC2 SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- ⊙ DENOTES PROPOSED PERC
- ⊠ DENOTES PROPOSED HOUSE
- ⊠ DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



VICINITY MAP
SCALE : 1" = 1200'

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET 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 SEWERAGE IS AVAILABLE. THESE EASEMENTS 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 SHALL NOT BE NECESSARY.
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SOIL	NAME	CLASS
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GnB	Glenville-Balle silt loams, 0 to 8 percent slopes	C
MaC	Manor loam, 8 to 15 percent slopes	B



Test Plan

PERC APPLICATION PLAT
7016 DEER VALLEY

TAX MAP #40
FIFTH ELECTION DISTRICT
SCALE: 1" = 50'

PARCEL: 235
HOWARD COUNTY, MARYLAND
DATE: NOVEMBER 6, 2018