

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

DATE: October 20, 2021

TO: *Ron Thompson*
VanMar Associates Inc.
Civil Engineering
Sent via email to: ron@vanmar.com

RE: **Percolation Certification Plan**
Tax Map 34, Parcel 375
Allnut Farms Estates
Isle of Skye Drive

The overall plan looks good; however, we need to revise the plan to allow the best placement and to adhere to setbacks and county requirements. The following revisions are needed:

- Change the location of the three wells to a well box to get a lower well site away from the swale and away from being downgrade of the SDA o lot #41.
- Show the proposed location of the driveway.

If you have any questions or correspondence regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Respectfully,

Dana Bernard

Dana Bernard, REHS/L.E.H.S.
Environmental Specialist II



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

APPLICATION
FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Allnut Farms Estates, Lot 40

PROPERTY ADDRESS Isle of Skye Drive
STREET

TOWN ZIP

TAX ACCOUNT # 05-385008 TAX MAP 34 GRID 15 PARCEL 375 LOT NO. 40 PROPOSED LOT SIZE (ACRES) 1.592
ZONING CATEGORY RR-DEO TIER III

PROPERTY OWNER(S) Steven M. Allnut

DAYTIME PHONE 410 984 5393 CELL _____ EMAIL _____

MAILING ADDRESS 4714 Linthicum Road, Dayton, Maryland 21036
STREET CITY, STATE ZIP

APPLICANT SAME AS OWNER

RELATIONSHIP TO OWNER: _____

DAYTIME PHONE _____ CELL _____ EMAIL _____

MAILING ADDRESS _____
STREET CITY, STATE 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:

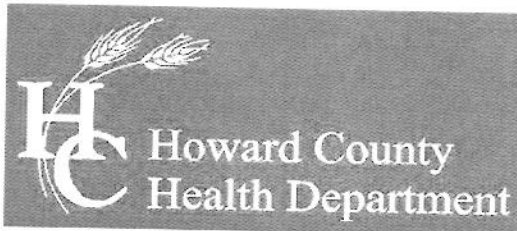
- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE 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



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: Isle of Skye Drive

Subdivision: Alburt Farm Estates Lot: 40

Initial system: Application rate: 1.2 Effective area beginning depth: 4 Bottom maximum depth: 8

1st Replacement: Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 8

2nd Replacement: Application rate: 1.2 Effective area beginning depth: 5.5 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:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

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 Beard Date: 9-16-14

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

DATE: September 16, 2021

TO: Ron Thompson
VanMar Associates Inc.
Civil Engineering
Sent via email to: ron@vanmar.com

RE: Percolation Certification Plan
Tax Map 34, Parcel 375
Allnut Farms Estates
Isle of Skye Drive

Percolation testing was conducted on the referenced property on September 8, 2021. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for the existing lot.

A total of five (5) test holes evaluated and five (5) were found to be satisfactory to establish a sewage disposal area for the existing lot. Field data collected is shown on the Percolation Test Worksheet enclosed with 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 residence.

Revisions will need to include 3 well areas, which will include existing well and two alternate wells.

If you have any questions or correspondence regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Respectfully,

Dana Bernard

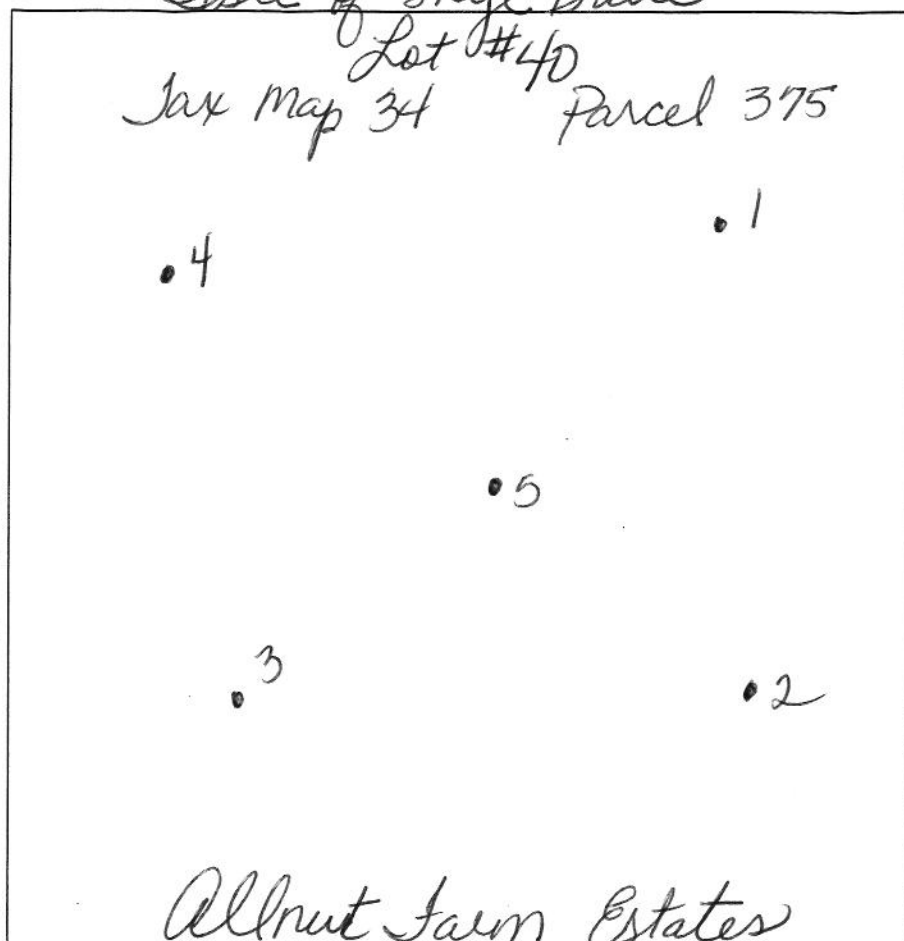
Dana Bernard, REHS/L.E.H.S.
Environmental Specialist II

A/P

#1

Red Brown
yellow
8L 3'Red Brown
yellow
8L
many
millsRed Brown
yellow
FSL 14'
many mills#2 Red Brown
8L
many
millsRed Brown
yellow
8L
↓

#3

Red Brown
yellow
8LRed Brown
yellow
8L
many
mills
↓Isle of Skye Drive
Lot #40
Tax map 34 Parcel 375

#4

Red Brown
yellow
8L

10-20% BK 5

Red Brown (note)
yellow
8L
many
mills

#20 p 14'

#5

Red Brown
yellow
8LRed Brown
yellow
8L
many
mills
↓

14.8

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9-8-21	1	4.4/14	10:51	10:53	10:58	5min	P
9-8-21	2	4.5/14.8	11:12	11:14	11:18	4min	P
9-8-21	3	6/14	11:24	11:26	11:29	3min	P
9-8-21	4	6/14	11:58	12:04	12:10	6min	P
9-8-21	5	5/14.8	12:15	12:20	12:28	8min	P

REMARKS

SANITARIAN

D. Bernard

BACKHOE

OTHERS

TEST HOLES USED IN SDA

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE S/W



HOWARD COUNTY HEALTH DEPARTMENT

69582

Received
From

Van Mar Asso

DATE 6/25/21

PHONE #

A5

301 829-2890

☐ CASH
☒ CHECK

NO.

26875

For

Perc App/Allnut Farms
estate lot 40 (Sle of Skye
Dr)

Dollars

\$

50600

Received By

A King

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

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TO: *Ron Thompson*
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Civil Engineering
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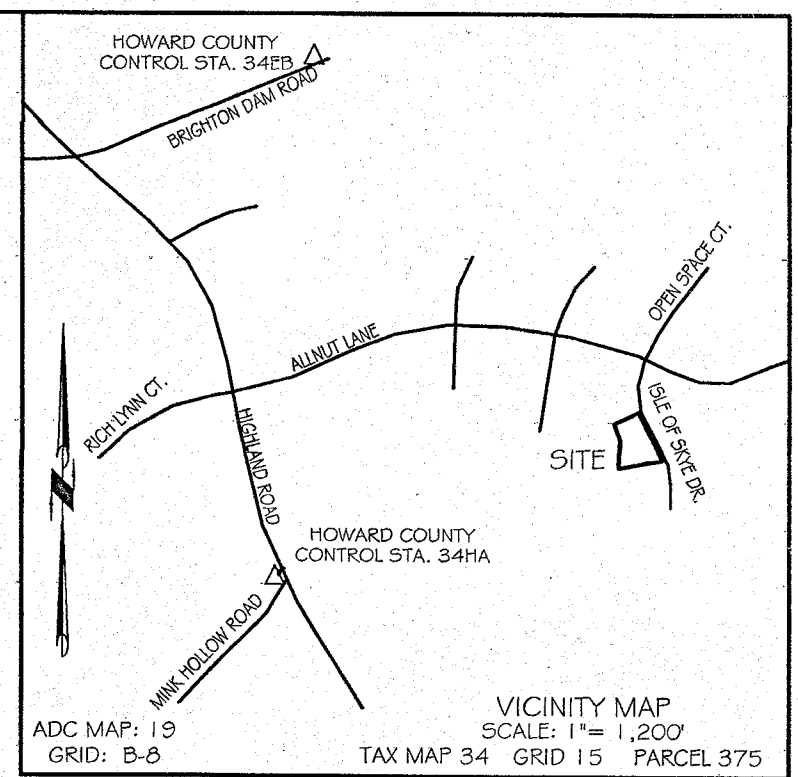
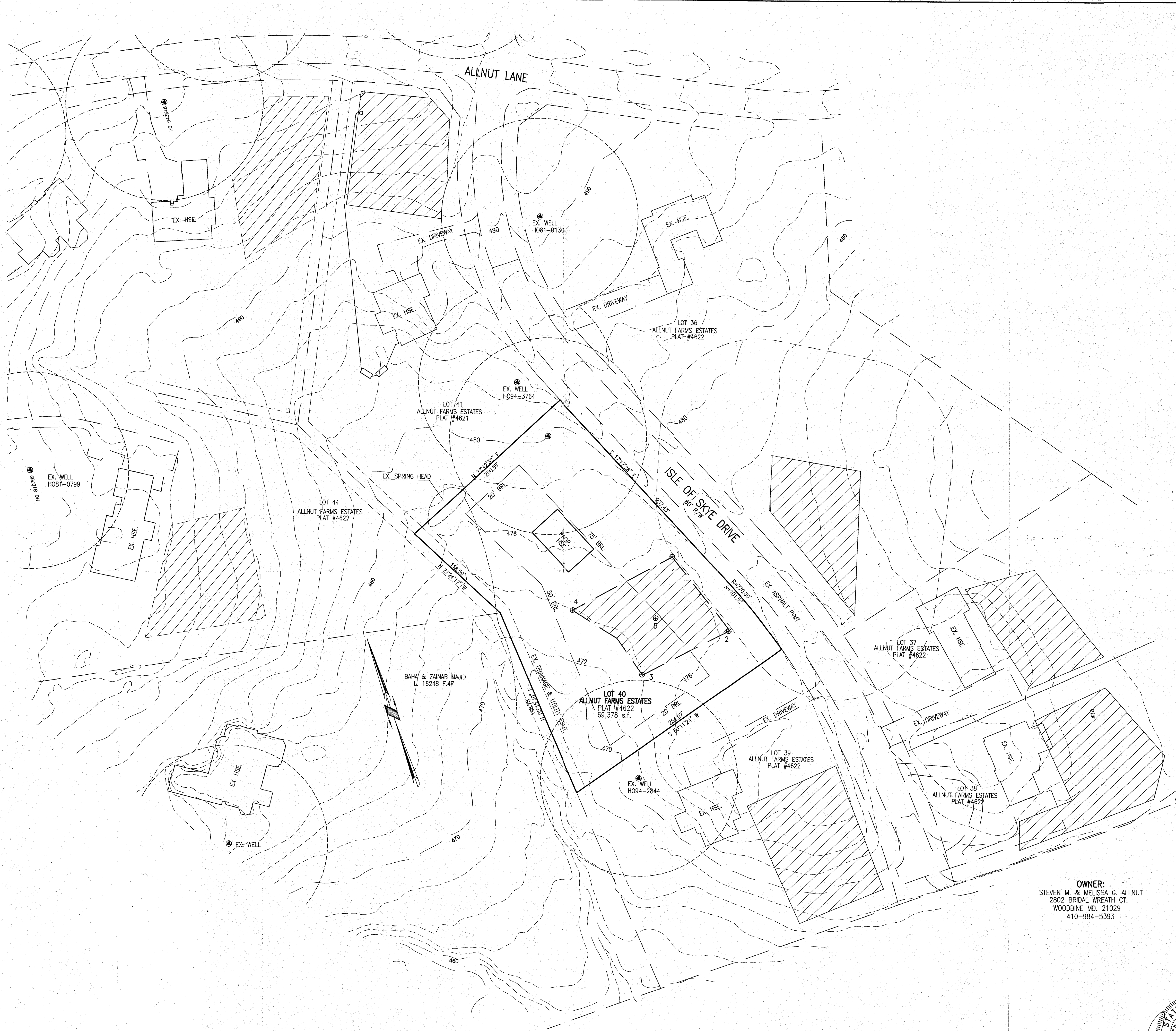
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Dana Bernard

Dana Bernard, REHS/L.E.H.S.
Environmental Specialist II



- GENERAL NOTES:**
- OWNER: STEVEN M. & MELISSA G. ALLNUT
DEED REFERENCE: LIBER 9709 FOLIO 67
DATE: DECEMBER 12, 2005
GRANTOR: ALLNUT FARMS, LLC
 - TAX MAP: 34 GRID: 15 PARCEL: 375
 - THE SUBJECT PROPERTY IS NOT LOCATED IN SPECIAL FLOOD HAZARD AREA PER NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 24027000700, EFFECTIVE ON 11/06/2013.
 - TOPOGRAPHY & PLANNING FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
 - THE BASIS OF BEARINGS FOR THIS PLAN IS THE MARYLAND COORDINATE SYSTEM (NAD83/07) PER HOWARD COUNTY SURVEY CONTROL STATIONS SHOWN BELOW. DISTANCES SHOWN HEREON ARE GROUND DISTANCES.
 - THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
 - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES AND ACCURATELY SHOWN.
 - SOIL TYPE: GLENELG.
 - ZONING DISTRICT: RR-DEO
 - ALL WELLS TO BE DRILLED PRIOR TO APPROVAL OF THE BUILDING PERMIT FOR A NEW RESIDENCE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE BUILDING PERMIT. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT FOR A NEW RESIDENCE.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - ANY CHANGES TO A PRIVATE SEPTIC AREA WILL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

OWNER:
STEVEN M. & MELISSA G. ALLNUT
2802 BRIDAL WREATH CT.
WOODBINE MD. 21029
410-984-5393

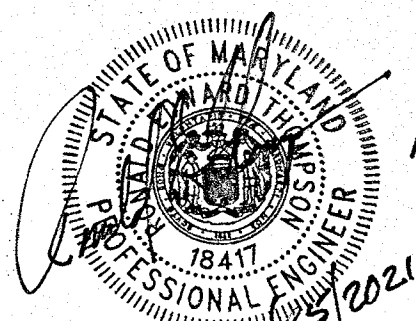
THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE DISPOSAL AREA.

(PASSED) PERCOLATION TEST SITE:

PROPOSED PERCOLATION TEST SITE:

EX. WELL/PROP. WELL SITE:

25% OR GREATER SLOPES:



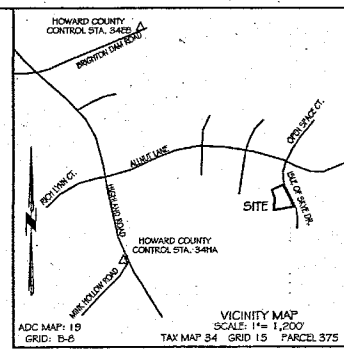
PERCOLATION TEST PLAN
LOT 40
ALLNUT FARMS ESTATES
PLAT #4622
ISLE OF SKYE DRIVE
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1"=50' JUNE, 2021

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 828-2880 (301) 831-5015 (410) 548-2751
© Copyright, Latest Date Shown

PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18417, Expiration Date: 3/19/21.

APPROVED:
FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED 23/17/2022 *201997*
W ISLE OF SKYE DR - LOT 40
STAKED BY *ARNECOOP*
VANMAR



- GENERAL NOTES:
- OWNER: STEVEN M. & MELISSA G. ALLNUT
SITE REFERENCE: LOTS 37-40 FIELD 87
DATE: DECEMBER 12, 2005
GRANTOR: ALLNUT FARMS, LLC
 - TAX MAP: 34 GRID: 15 PARCEL: 375
 - THE SUBJECT PROPERTY IS NOT LOCATED IN SPECIAL FLOOD HAZARD AREA PER NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP/COMMUNITY PANEL NO. 2402200020, EFFECTIVE ON 11/06/2013
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 - THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREIN.
 - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES AND ACCURATELY SHOWN.
 - SOIL TYPE: GLENN'S
 - ZONING DISTRICT: RR-300
 - ALL WELLS TO BE DRILLED PRIOR TO APPROVAL OF THE BUILDING PERMIT FOR A NEW RESIDENCE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE BUILDING PERMIT. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT FOR A NEW RESIDENCE.
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THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL REMAIN WELL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE DISPOSAL AREA.

(PASSED) PERCOLATION TEST SITE:

PROP. WELL SITE:

EX. WELL SITE:

25% OR GREATER SLOPES:

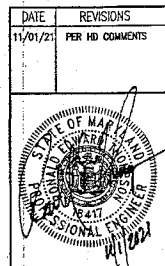
OWNER:
STEVEN M. & MELISSA G. ALLNUT
2802 BRIDAL WREATH CT.
WOODBINE, MD. 21028
410-984-5393

NOTE:
THE PURPOSE OF THIS PLAN IS TO ESTABLISH AN APPROVED SEWAGE DISPOSAL AREA AND WELL SITES FOR A NEW RESIDENCE.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS:
HOWARD COUNTY HEALTH DEPARTMENT
11/17/21
HOWARD COUNTY HEALTH OFFICER

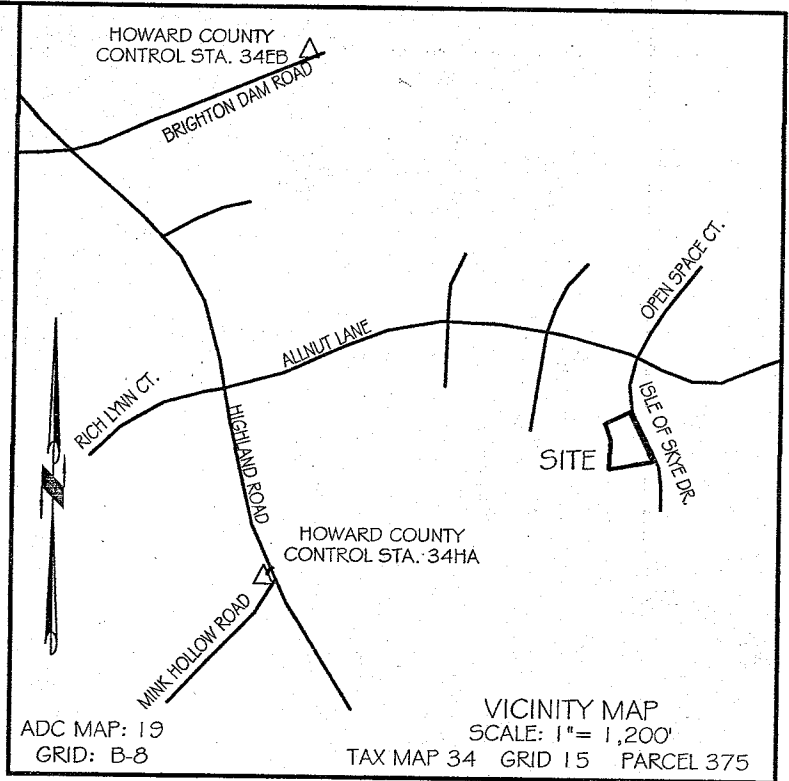
I HEREBY CERTIFY THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
I FURTHER CERTIFY THAT THE PERCOLATION TEST HOLES HAVE BEEN FIELD LOCATED IF EXISTING AND ACCURATELY STAKED IF PROPOSED AND SHOWN HEREON.
11/1/2021
RONALD E. THOMPSON PROFESSIONAL ENGINEER
MARYLAND REGISTRATION NO. 16417

PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 16417, Expiration Date: 9/1/2023.



PERCOLATION CERTIFICATION PLAN
LOT 40
ALLNUT FARMS ESTATES
PLAT #4622
ISLE OF SKYE DRIVE
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1"=50' OCTOBER, 2021

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 629-2500 (301) 631-0015 (410) 540-2721
©Copyright, Latest Data Shown



GENERAL NOTES:

- OWNER: STEVEN M. & MELISSA G. ALLNUT
DEED REFERENCE: LIBER 5708 FOLD 67
DATE: DECEMBER 12, 2005
GRANTOR: ALLNUT FARMS, LLC
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RONALD L. THOMPSON, PROFESSIONAL ENGINEER
MARYLAND REGISTRATION NO. 18417

11/1/2021
DATE

PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, license No. 18417, Expiration Date: 9/18/23.

DATE	REVISIONS
11/01/21	PER HD COMMENTS

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LOT 40
ALLNUT FARMS ESTATES
PLAT #4622
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HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER: DATE: 11/1/2021