



Howard County
Health Department

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

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

RECEIPT DATE: 7-28-25

ONSITE SEWAGE DISPOSAL SYSTEM

P 589142

APPROVAL DATE: 7-28-25

PERMIT: UPGRADE

A

PROPERTY ADDRESS: 6304 Isle of Skye

SUBDIVISION: Allnutt Farm Estates

LOT: 40

TAX ID: 05-385008

CONTRACTOR:

EMAIL: chriswine@williamsburgllc.com

CONTRACTOR ADDRESS:

PHONE:

PROPERTY OWNER: Williamsburg Homes

EMAIL:

OWNER ADDRESS: 5485 Harpers Farm Road, Columbia, MD 21044

PHONE: 410-997-8800

SEPTIC TANK SIZE: 2000 PUMP SIZE: BN-151 PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: ☒ GRAVITY ☐ PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>105</u> <u>(2) 53ft trenches</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5</u>
LOCATION:	SYSTEM TO BE STAKED BY DESIGNER AND VERIFIED BY APPROVING AUTHORITY DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: DBurand

ISSUE DATE: 7-28-25

EXPIRATION DATE: 7-28-26

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR REGISTERED WITH THE STATE OF MD ON-SITE WASTEWATER PROFESSIONALS BOARD: CONFIRMED ☐

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

☐ ELECTRICAL PERMIT ISSUED E

NOTE: THE HCHD DOES NOT WARRANT ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.

NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.

NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
<u>3'</u>	<u>2.5'</u>	<u>8'</u>
NUMBER OF TRENCHES		<u>2</u>
TOTAL LENGTH		<u>112</u>
ABSORPTION AREA		<u>336 Sq. Ft + Sidefill</u>
DISTRIBUTION BOX LEVEL		<u>Yes</u>
DISTRIBUTION BOX BAFFLE		<u>Yes</u>
DISTRIBUTION BOX PORT		<u>Yes</u>

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL Yes
MANUFACTURER Babyon
CAPACITY 2000 GAL
SEAM LOC 6
TANK LID DEPTH 1'-1 1/2'
BAFFLES 6" Front / 4" Back
BAFFLE FILTER -
MANHOLE LOC Front / Back
6" PORT LOC -
WATERTIGHT TEST -
SLOTTED Yes
DATE ON LID 6-10-25

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER -
CAPACITY - GAL
SEAM LOC -
TANK LID DEPTH -
BAFFLES -
BAFFLE FILTER -
MANHOLE LOC -
6" PORT LOC -
WATERTIGHT TEST -
SLOTTED -
DATE ON LID -

See Separate Sheet For As-Built.

ROAD NAME

SEPTIC CONTRACTOR ONSITE INSTALLING SYTEM: Nate Heath
SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD YES/NO

PRE-CONSTRUCTION NOTES:

8/1/25 Met with contractor on site. Septic tank, d-box, and trenches staked and located per plan. SDA not staked. SDA had very tall grass. Trenches are on contour and lengths per plan. Told contractor to have the inlet at 2.5' if possible as the engineer designed. Contractor to start install on Monday.

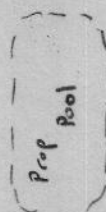
INSTALLATION NOTES:

8/4/25 Contractor has front line, Septic tank, d-box, and Trench 2 installed. Front line connected to house. Cleanout installed and Sch. 40 pipe used. Septic tank is level, slotted, and is about 1.5' below grade. D-box has baffle, not leveled yet. Trench 2 has 8' bottom and ~2.5' inlet. Stone is marginal. Ticket says #2 stone double washed. Stone has some fines/dust on it. Some pieces are larger than 2 1/2". OK to continue. MB 8/4/25 Trench 2 Complete. Inlet at about 2.75' due to d-box depth. D-box leveled. Geotextile fabric added to both trenches along with observation ports. Trenches are 10' apart. Baffles in ST observed. Quikrete used to seal pipe coming out of d-box. D-box to trench 1 had to be adjusted due to pipe slightly holding water. Contractor removed dirt underneath pipe. 2 1/2" fill achieved.

CONTROL PANEL DATA

CONTROL PANEL HEIGHT N/A
(MIN 30")
INSPECTION DATE N/A
INSPECTION: PASS/FAIL (CIRCLE ONE)

NOT TO SCALE



D-box - B: 70'
D-box - C: 95'
T₁ Beginning - B: 64'
T₁ Beginning - C: 86'
T₁ End - B: 112'
T₁ End - C: 125'

Dr. J. H. H. H. H.

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

**AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN
ON-SITE TREATMENT SYSTEM**

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Liang Jin Lu + Samantha Lin Li ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 6304 Isle of Skye Drive, Highland, MD 20777 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 34, Block # N/A, Parcel # 0375, Deed Reference # 22625/00, and Tax Account # 05-385008 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have and individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit HO-200158 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi/L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the maximum contaminate levels (MCL's) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce radionuclides.

WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.

NOW THEREFORE, the parties have agreed to the following terms and conditions:

1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the gross alpha, gross beta and radium levels to below their respective MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).

3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable gross alpha, gross beta (short and long term) and radium 226 / 228 levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warranty or guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department and the Owner. There are no additional terms other than as contained in this Agreement. This Agreement may not be modified except in writing signed by each of the parties or their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

The parties have signed this Agreement on the dates set forth below.

Liang Jin Lu 9/18/25

Owner Date

Liang Jin Lu

Buyer

Date

Owner

Date

Samantha Lin Li

Buyer

Date

Howard County Health Department

Date

9/22/25



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

AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Liang Jin Lu + Samantha Lin Li ("the Owner").

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WHEREAS, the Property lacks an available public drinking water source and is required to have and individual well as the source of drinking water for the residence of the property.

WHEREAS,
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(pCi/L)

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Credit Card
Card Type: VISA
CC #: 5283
Authorization #: 05733G
Order Id: 75698024
AID: A0000000031010
ARC: 3030
IAD: 06011203A0B002
TSI: E800

Clerk of the Circuit Court for
Howard County
9250 Judicial Way
Ellicott City, MD 21043
410-313-2111
Receipt Ref# 0923251302001003
Terminal: 13PRD474 Operator: 48
09/23/2025 08:45:30

Agreement Recording Fee
Name: LU
Ref: 8
Fee Amount: \$20.00
Agreement Surcharge: \$40.00

Payments

Total Due \$60.00
Total Received \$60.00

X

Signature
~Thank you for visiting us today~

idential drinking well under well permit HO-200158 that has
certified to perform testing) for radionuclide
a particle content and/or the gross beta
ceeds the standards of 15 picocuries per liter
tively.

MDE) has promulgated rules and
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at to issue as a special condition, a permanent
s where treatment has been installed to meet
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actively removed from the drinking water by the
mosis).

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treatment device to reduce radionuclides.

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g the Land Records of Howard County, Maryland
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water treatment device, which effectively reduces the
o below their respective MCL. The Health Department
erating effectively and the Owner agrees to allow
a follow-up sample(s).

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

June 03, 2022

Steven Buliders
4829 Ten Oaks Road
Dayton, MD 21036

RE: ISLE OF SKY DR.
ALLNUT FARM EST – LOT 40
Well Tag: HO-20-0158 (New Well)

Dear Property Owner(s):

A yield test sample was collected on April 19, 2022 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from the test screening revealed a **Gross Alpha** of 23.7 ± 3.3 picocuries/liter (pCi/L), while the **Gross Beta** level was 18.6 ± 2.6 pCi/L. The **Gross Alpha** result was above the **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted standard of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

In addition, on the same laboratory result slip, a second lab analysis shows a **Gross Alpha** of 14.9 ± 2.3 picocuries/liter (pCi/L), while the **Gross Beta** level was 16.8 ± 2.3 pCi/L.

At the time of testing and with respect to the initial test and second lab analysis results, your “untreated” well water supply **does not meet** EPA regulatory standards for **Gross Alpha and Gross Beta**. Given these result readings, some additional testing to further evaluate Gross Alpha, Gross Beta and Radium 226/228 is required. Additional **Gross Alpha and Gross Beta (long-terms)** and **Radium 226/228** is needed to properly evaluate the **Gross Alpha and Gross Beta** presence in the well water supply.

A copy of the test results is enclosed for your information. Please call this office at 410-313-2643 to schedule the additional testing **free of charge**. If you have any general questions about this new well, please contact the Well & Septic Program at 410-313-1771 or 410-313-2645.

Sincerely,



Ramar Martin, Program Supervisor
Bureau of Environmental Health

Enclosure

cc: Property file, Well & Septic Program

Debbie VanSant

From: Ron Thompson
Sent: Wednesday, January 22, 2025 11:00 AM
To: Debbie VanSant; Logan Shrader
Cc: Chris Wine; Bernard, Dana
Subject: Lot 40 Allnut Farms / 6304 Isle of Sky Drive
Attachments: Allnut Farms Lot 40 Septic Plan_6 Bdrm.pdf

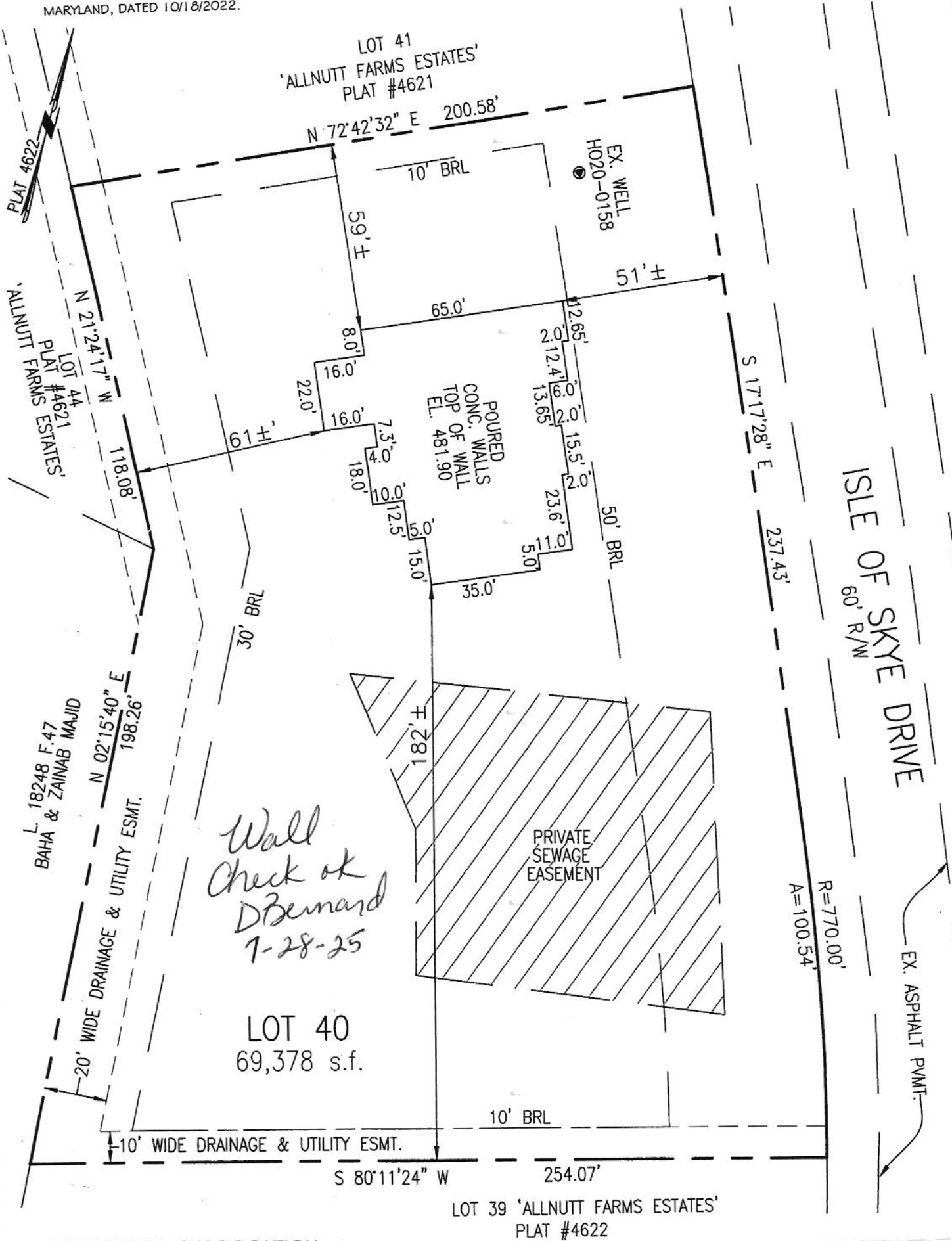
Attached is the updated Septic Plan with the 2,000 gal tank. Pleased resubmit paper copies to Dana Bernard at HoCo Health Department.

Ronald E. Thompson, PE*
VANMAR ASSOCIATES
310 South Main Street PO Box 328
Mount Airy, Maryland 21771
O 301-829-2890 / C 443-421-2164 / F 301-831-5603

*(*licensed in MD, VA, DE, DC, SC, GA, FL, NC, MA)*

NOTES:

1. FOOTINGS AND FOUNDATION ARE IN PLACE AS SHOWN HEREON.
2. THERE IS A 20' WIDE DRAINAGE AND UTILITY EASEMENT CENTERED ON ALL NON-ROAD FRONTAGE LOT LINES AND OTHER EASEMENTS AS SPECIFICALLY SHOWN HEREON.
3. BUILDING TIES ARE $\pm 0.5'$ UNLESS OTHERWISE NOTED.
4. THE APPROVED ECP PLAN HAS APPLIED THE CURRENT SETBACK OF RR-DEO ZONING FOR LOTS LESS THAN 3 ACRES. THEY ARE 50' FRONT, 30' REAR AND 10' SIDE PER CORRESPONDENCE WITH HOWARD COUNTY, MARYLAND, DATED 10/18/2022.



PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21513, EXPIRATION DATE AUGUST 4, 2025, IN ACCORDANCE WITH COMAR 09.13.06.12.

Jeffery W. Elkins
For VanMar Associates, Inc.
Jeffery W. Elkins, Prof. Land Surveyor
Date 4/8/2025

I CERTIFY THIS PLAT TO BE CORRECT: IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.

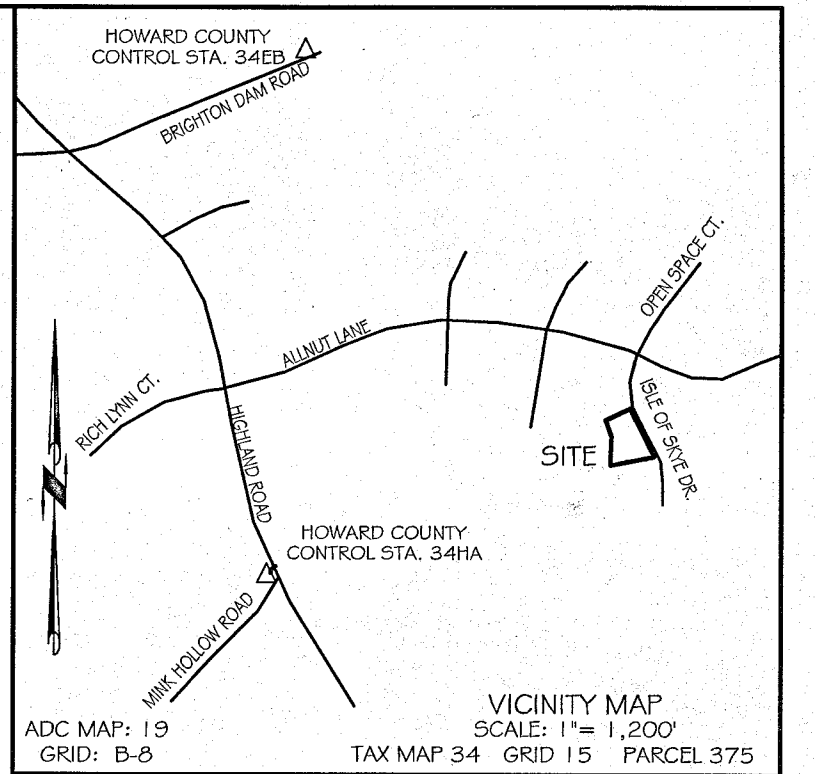
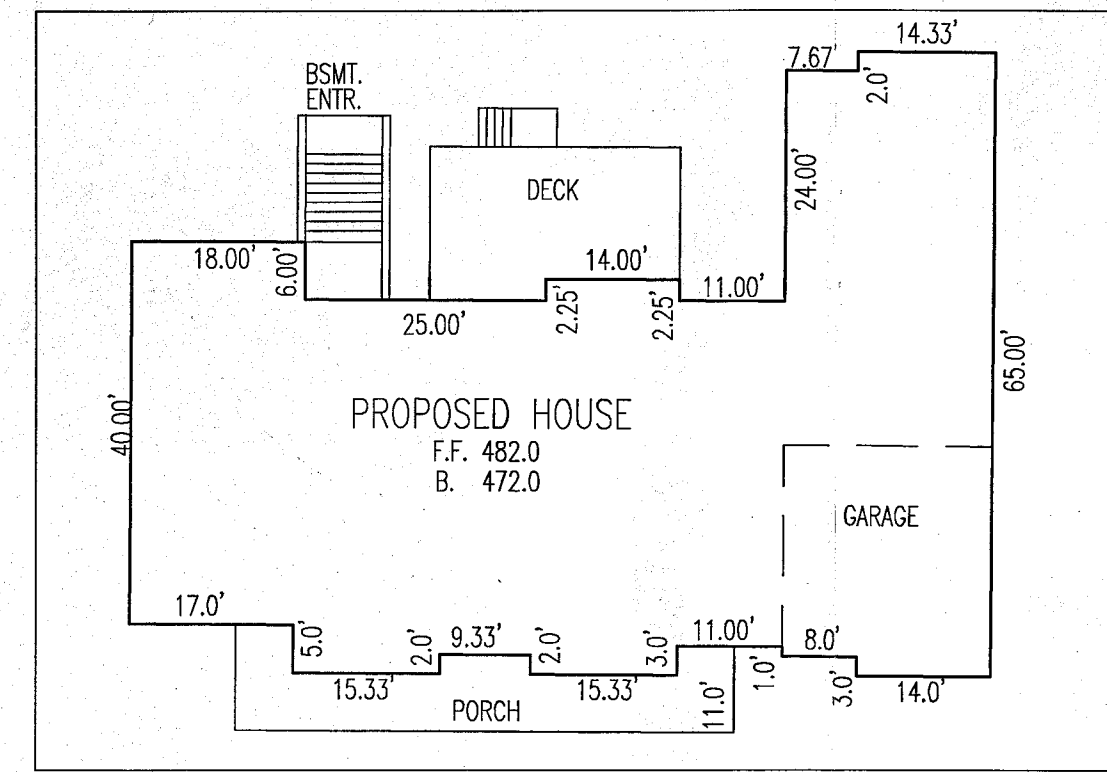
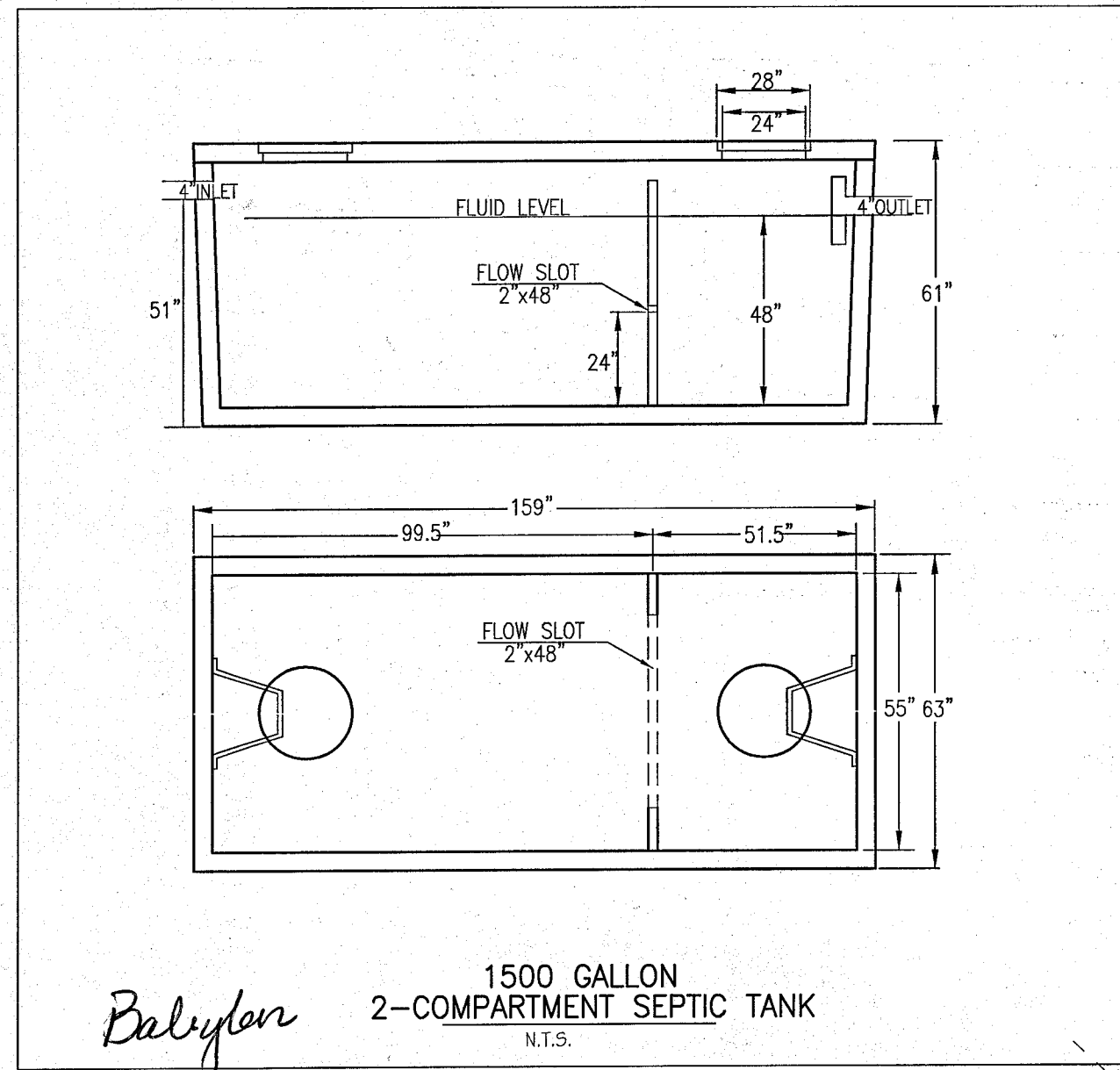
WALLCHECK DRAWING
LOT 40, SECTION IV
ALLNUTT FARMS ESTATES

PLAT NO. 4622
6304 ISLE OF SKYE DRIVE
FIFTH (5th) ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' APRIL, 2025



VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
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REFERENCE	JOB NO.
PLAT NO. 4622	AI-4532



GENERAL NOTES:

1. TOPOGRAPHY & PLANIMETRIC 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.
2. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
3. ZONING DISTRICT: RC-DEO
4. LIMIT OF DISTURBANCE (LOD) = 29,171 SQ.FT.
5. THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
6. STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY N-1 ROOFTOP DISCONNECTION, N-2 NON-ROOFTOP DISCONNECTION.

SEPTIC SYSTEM TRENCH DESIGN

INITIAL NUMBER OF BEDROOMS = 4'
APPLICATION RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 1.2 GPD/sq.ft. = 500 sq.ft.
500 sq.ft. / 3 ft. WIDE TRENCH = 166.7 LF TRENCH
166.7 LF TRENCH X 0.42 REDUCTION CREDIT = 70 LF TRENCH
TRENCH T1-1 EX. GRD=475.8 -INV. TRENCH=473.3 -B. TRENCH=467.8

1st REPLACEMENT

APPLICATION RATE = 0.8 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 0.8 GPD/sq.ft. = 750 sq.ft.
750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
250 LF TRENCH X 0.50 REDUCTION CREDIT = 125 LF TRENCH
TRENCH T2-1 EX. GRD=475.5 -INV. TRENCH=473.0 -B. TRENCH=467.5
TRENCH T2-2 EX. GRD=475.2 -INV. TRENCH=472.7 -B. TRENCH=467.2

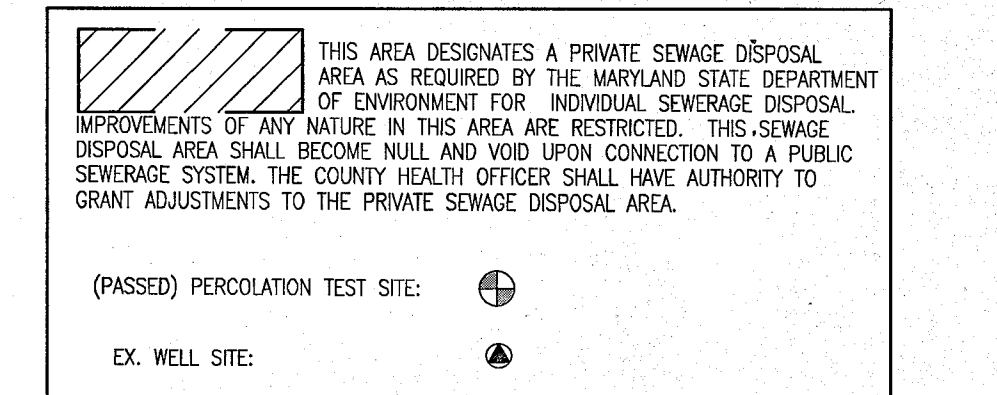
2nd REPLACEMENT

APPLICATION RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 1.2 GPD/sq.ft. = 500 sq.ft.
500 sq.ft. / 3 ft. WIDE TRENCH = 166.7 LF TRENCH
166.7 LF TRENCH X 0.56 REDUCTION CREDIT = 94 LF TRENCH
TRENCH T3-1 EX. GRD=475.0 -INV. TRENCH=472.5 -B. TRENCH=467.0
TRENCH T3-2 EX. GRD=474.7 -INV. TRENCH=472.2 -B. TRENCH=466.7

Approved Septic System Plan
Howard County Health Department
DBernard 8-2-23
Signature Date
Approved for 4BR only

SITE PLAN NOTES:

1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE EX. WELL HO-20-0140 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. 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.



WAYNE & AMY ZAVIS
8804 ENDLESS OCEAN WAY
COLUMBIA, MD. 21045
410-984-5393

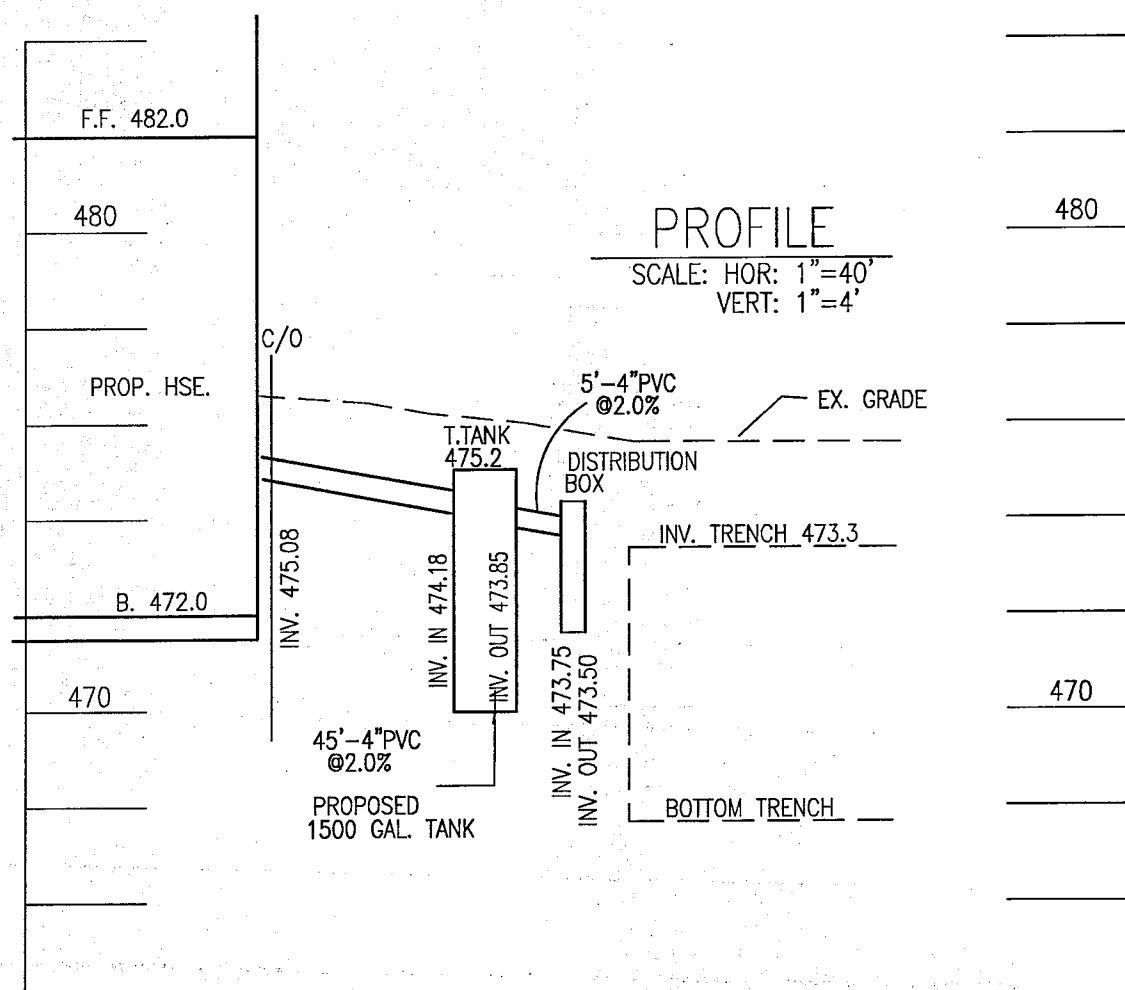
DATE REVISIONS

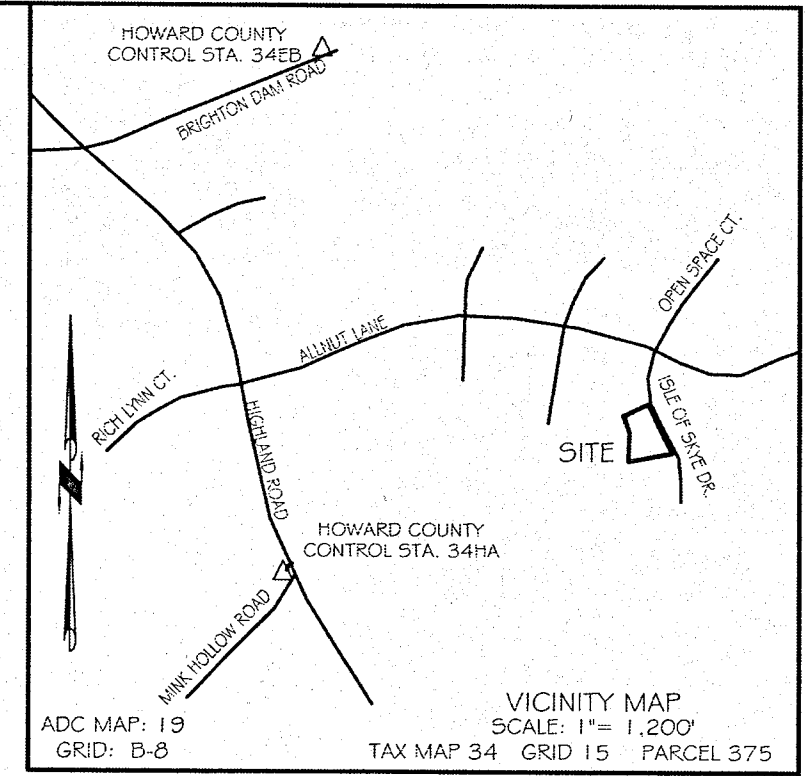
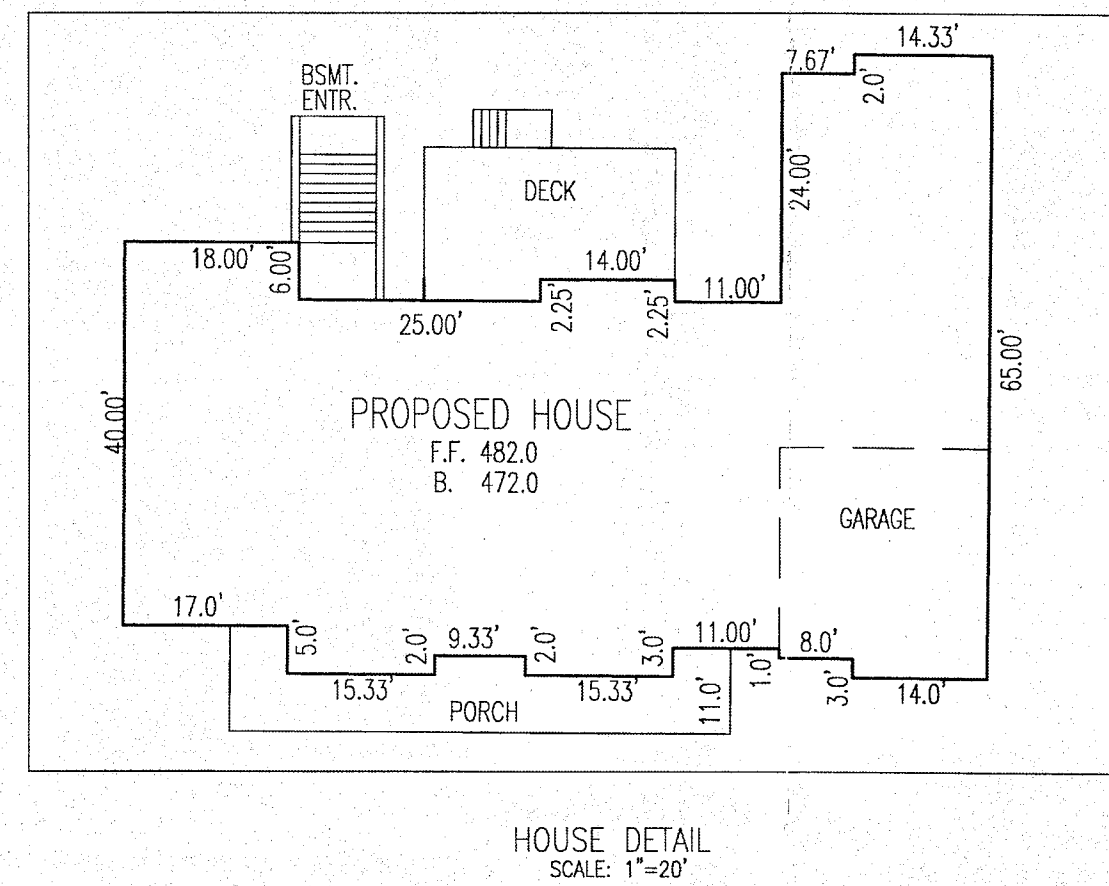
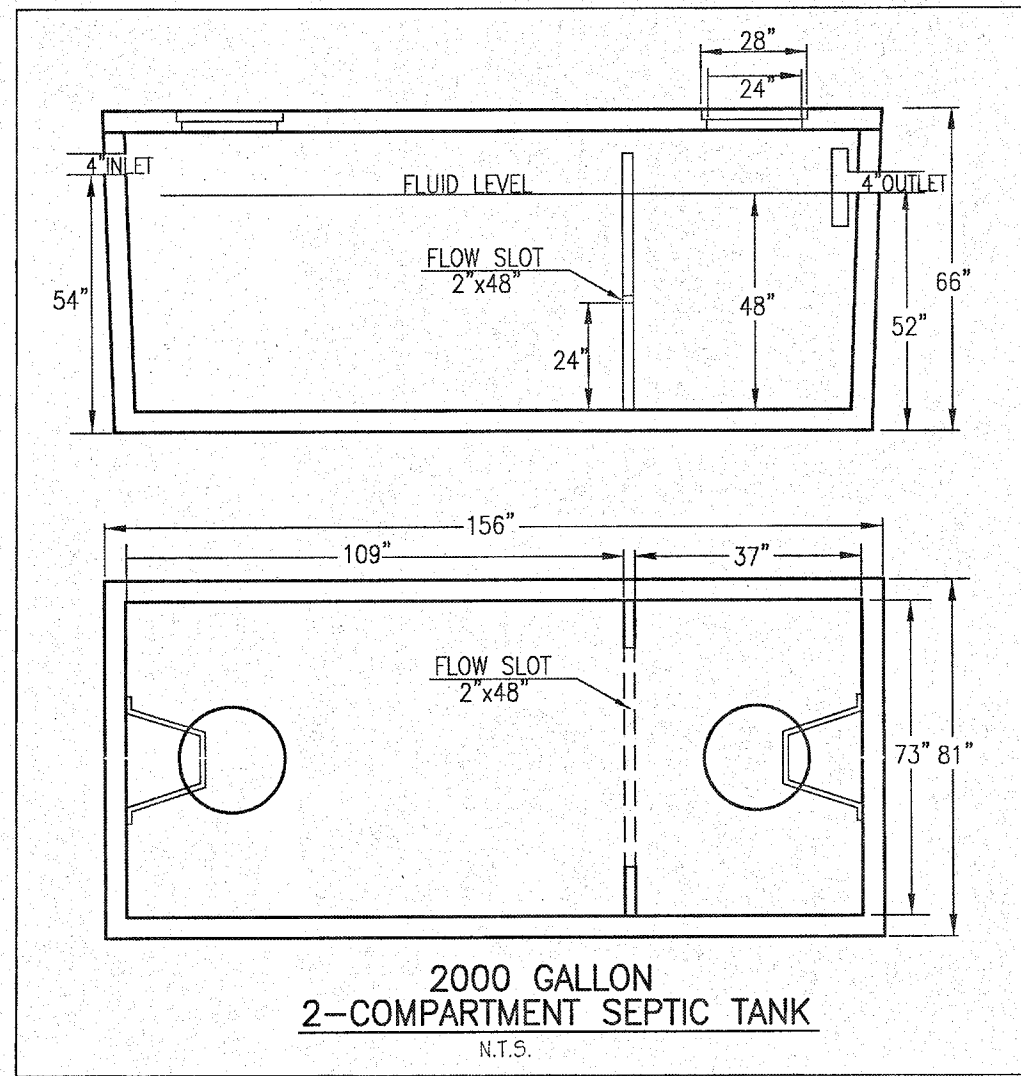
Digitally signed by Ronald E. Thornton
Date: 2023.08.04 09:43:10 -0400

ONSITE SEWAGE DISPOSAL PLAN
LOT 40
ALLNUT FARMS ESTATES
PLAT #4622
ISLE OF SKYE DRIVE
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1"=30' JULY 2023

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2880 (301) 831-5015 (410) 549-2751
©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: 9/18/23.





GENERAL NOTES:

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- ZONING DISTRICT: RC-DEO
- LIMIT OF DISTURBANCE (LOD) = 29,171 SQ.FT.
- THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
- STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY N-1 ROOFTOP DISCONNECTION, N-2 NON-ROOFTOP DISCONNECTION.

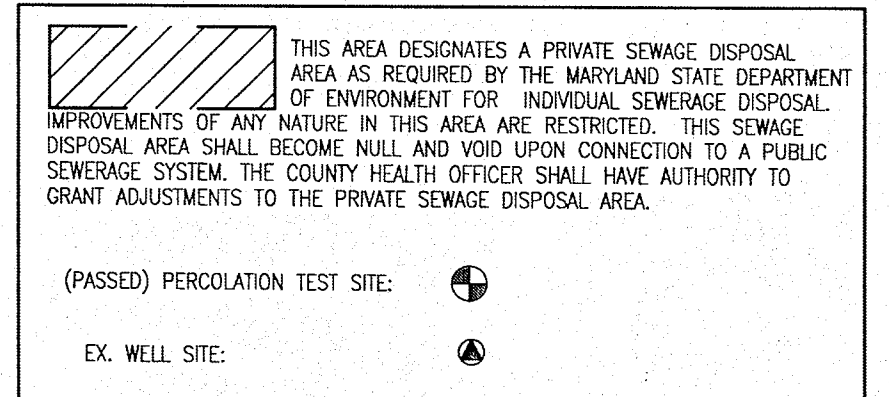
SEPTIC SYSTEM TRENCH DESIGN

- INITIAL NUMBER OF BEDROOMS = 6
APPLICATION RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD
900 GPD / 1.2 GPD/sq.ft. = 750 sq.ft.
750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
250 LF TRENCH X 0.42 REDUCTION CREDIT = 105 LF TRENCH
TRENCH T1-1 EX. GRD=475.8 -INV. TRENCH=473.3 -B. TRENCH=467.8
TRENCH T1-2 EX. GRD=475.5 -INV. TRENCH=473.0 -B. TRENCH=467.5
- 1st REPLACEMENT
APPLICATION RATE = 0.8 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD
900 GPD / 0.8 GPD/sq.ft. = 1125 sq.ft.
1125 sq.ft. / 3 ft. WIDE TRENCH = 375 LF TRENCH
375 LF TRENCH X 0.50 REDUCTION CREDIT = 187.5 LF TRENCH
TRENCH T2-1 EX. GRD=475.3 -INV. TRENCH=472.8 -B. TRENCH=467.3
TRENCH T2-2 EX. GRD=475.1 -INV. TRENCH=472.6 -B. TRENCH=467.1
- 2nd REPLACEMENT
APPLICATION RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 6 BEDROOMS = 900 GPD
900 GPD / 1.2 GPD/sq.ft. = 750 sq.ft.
750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
250 LF TRENCH X 0.56 REDUCTION CREDIT = 140 LF TRENCH
TRENCH T3-1 EX. GRD=474.7 -INV. TRENCH=472.2 -B. TRENCH=466.7
TRENCH T3-2 EX. GRD=474.3 -INV. TRENCH=471.8 -B. TRENCH=466.3

Signature
Date
Approved Septic System Plan
Howard County Health Department

SITE PLAN NOTES:

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE EX. WELL HO-20-0140 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- 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.



WAYNE & AMY ZAVIS
8804 ENDLESS OCEAN WAY
COLUMBIA MD. 21045
410-984-5393

BUILDING PERMIT # B24004150

ONSITE SEWAGE DISPOSAL PLAN
LOT 40
ALLNUT FARMS ESTATES

PLAT #4622
6304 ISLE OF SKY DRIVE
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1"=30' NOVEMBER, 2024

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
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DATE REVISIONS
Digitally Signed
by Ronald E. Thompson
Date: 2025.01.22
10:50:36 -05'00'

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: 9/18/25.

