



HOWARD COUNTY HEALTH DEPARTMENT

57359

DATE 9/8/15

AS

Received From

Todd Steinberg

PHONE #

For

Pnc Test/14502 Waveridge Ct.

☐ CASH
☒ CHECK

NO.

1981

Five hundred sixty +

Dollars

\$

506.00

Received By

King



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

A551359

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Windridge Farms Section 2 Area 2 LOT # 13
PROPERTY ADDRESS 14562 Windridge Court Glenwood Md 21738
STREET TOWN ZIP
TAX ACCOUNT # 365380 TAX MAP 0021 GRID 0017 PARCEL 0031 LOT 13 LOT SIZE (ACRES) 1.08
ZONING CATEGORY _____ TIER _____

PROPERTY OWNER(S) Todd & Elizabeth Steinberg

DAYTIME PHONE _____ CELL 410-340-1267 EMAIL steinberg50@verizon.net
MAILING ADDRESS 14562 Windridge Court Glenwood Md 21738
STREET CITY, STATE ZIP

APPLICANT Todd & Elizabeth Steinberg

RELATIONSHIP TO OWNER: self

DAYTIME PHONE _____ CELL 410-340-1267 EMAIL _____
MAILING ADDRESS 14562 Windridge Court Glenwood Md 21738
STREET CITY, STATE ZIP

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

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)

PROPERTY:

- ☐ SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: _____
☐ CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
☐ REPAIR OR REPLACE FAILING OSDS
☐ UPGRADE EXISTING OSDS

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

MOUND TEST DATA SHEETS

Windridge Farms

Property I.D. 14562 Windridge Ct

Lot # 13

Date 11/24/2015

Sanitarian R Bricker

Landscape Position Shoulder

% Slope ~5 to SSE

Soil Type

Contractor Dan

HOLE # 96

DEPTH OF TEST 12"

START TIME 2:25

Head at 8"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
7.5 YR 4/3, S1				
20 fsk, few mica				
many fine roots				
few gravel				
7.5 YR 4/3, L				
2 fsk, few mica				
many fine roots				
few angular cobbles				
7.5 YR 4/6 & 7.5 YR 5/6				
chl, 2 fsk				
few fine roots				
few mica				

PASS, 26.67 min/inch

5 YR 5/6 vchl (45% channers, flags, & angular cobbles)
2 fsk, ss, few mica
5 YR 5/6 x fsk
bedded gneiss, dipping 35° toward N-NNW
rock is weathered gneiss

Re-fill at 2:24
Begin equilibration, 1:12

HOLE # 95

DEPTH OF TEST 18"

START TIME 2:26

Head at 6"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
7.5 YR 4/3, S1				
20 fsk, few mica				
many fine roots				
7.5 YR 4/3, L				
2 fsk, few mica				
many fine roots				
few gravel				
7.5 YR 5/6, L				
2 fsk, ss				
few mica, few roots				
7.5 YR 4/6, L				
1 fsk, ss				
few mica				
7.5 YR 4/6 chl				
thick platy (rock influenced)				
10 YR 5/4 vchls				
60% bedded rock (weathered)				

PASS, 10 min/inch

Re-fill at 2:22
Begin equilibration, 1:19

SITE INSPECTION SHEET

OWNER: Todd & Elizabeth Steinberg PHONE #: _____

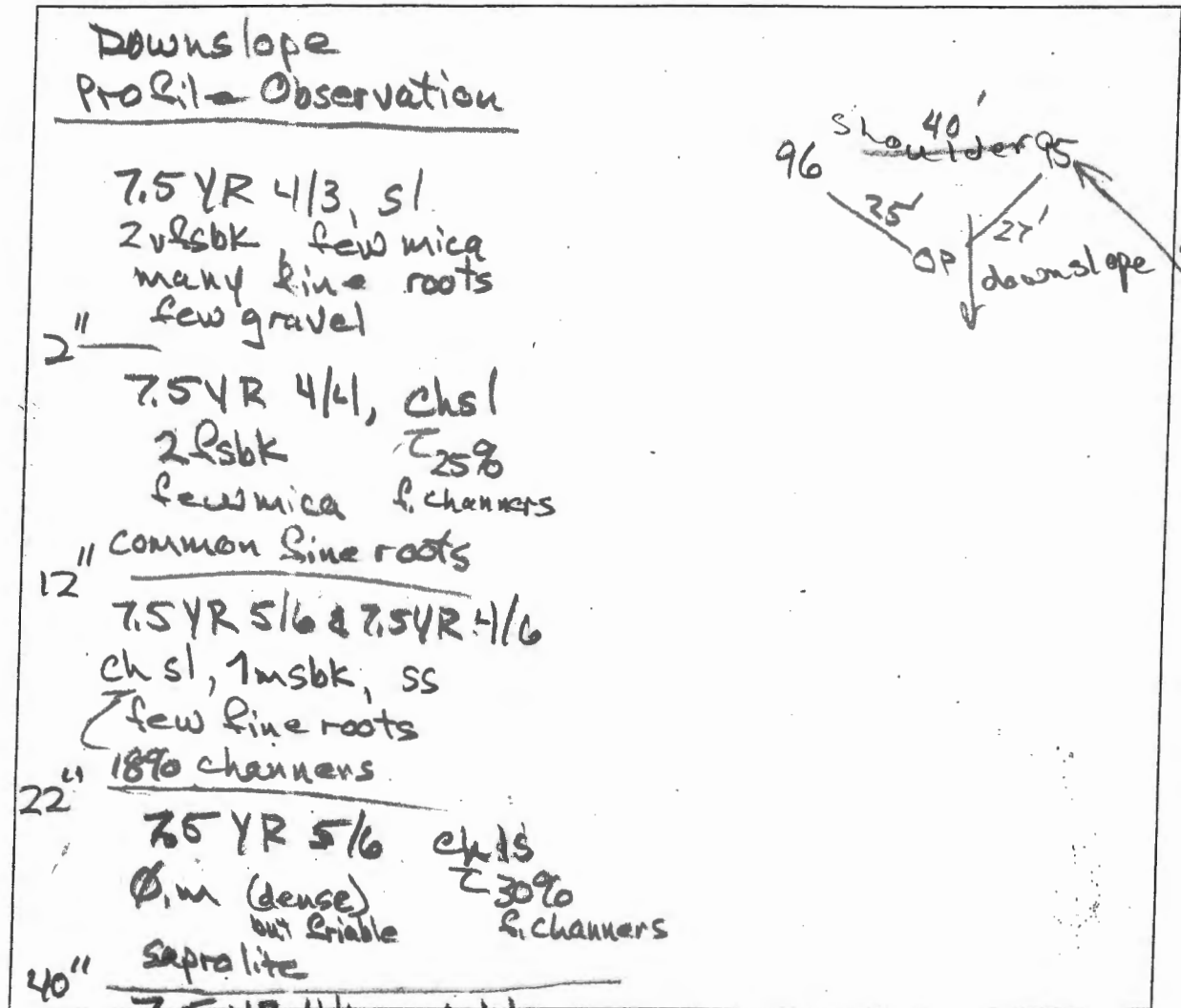
ADDRESS: 14562 Windridge Ct. CONTRACTOR: _____

Glenwood 21738 WELL TAG #: tag not visible

SUBDIVISION: Windridge Farms LOT: 13 COUNTY #: plastic case, 2-pc plastic cap

PROPOSAL: Section 2, Area 2 Perc For Sand Mound site.

LOCATION DIAGRAM



COMMENTS: 48" O.m $\approx 70\%$ channers & flags

5-gal water: drains at moderate rate at 48"

DATE: 11/24/2015 INSPECTOR: R Bricker

14562 WINDRIDGE COURT, 2nd replacement system

Location

SAND MOUND CALCULATIONS

Total mound width:	36.1	feet
Total mound length:	87.8	feet

SITE SPECIFIC INFORMATION

	Slope Percent:	6	%
Z-	Restrictive Depth to rock or water:	24	inches
	Percolation Rate:	27	minutes/inch
	Design Flow:	600	gallons per day

BED/MOUND CALCULATIONS

	Design infiltration rate for sand:	1	gal. per sq. ft. per day
	Absorption bed: Design flow / Design infiltration rate =	600	square feet
A-	Bed width (15 feet or less):	10.00	feet
B-	Bed length: Absorption bed (sq.ft)/Bed width (ft) = (21 to 101 feet)	60.00	feet
D-	Upslope sand fill depth: 48 in - Z =	24	inches
E-	Downslope sand fill depth: 12 A x % slope + D in. =	31	inches
H-	Cap + topsoil at bed center =	18	inches
G-	Cap + topsoil at bed edge =	12	inches
F-	Total Bed Depth:	10	inches
K-	Sideslope setback: { ([(D + E) / 2] + 28 in.) / 12 } x 3 =	13.90	feet
	Upslope correction factor (from chart):	0.86	
J-	Upslope setback: ((22 in + D) / 12) x 3 x Upslope corr. Factor =	9.89	feet
	Downslope correction factor (from chart):	1.22	
I-	Downslope setback: ((22 in + E) / 12) x 3 x Downslope corr. Factor =	16.23	feet
W-	Preliminary Width of Mound: A + J + I =	36.1	feet
L-	Total Length of Mound: B + 2K =	87.8	feet

LOADING RATE AND BASAL AREA CALCULATIONS

	Linear loading rate: Design flow / Bed Length =	10.0	gallons per linear ft.
	Soil infiltration rate based on percolation rate:	1.2	gal. per sq. ft. per day
	Basal area required: Design flow / infiltration =	500	square feet
	Basal area provided with preliminary width: Level Site = L x W; Slope Site (A+I)xB	1574	square feet
☒	Adequate basal area is provided - no modifications to preliminary dimensions required		
☐	In order to provide adequate basal area, the downslope setback must be increased as follows:		
	Modified downslope setback: (Basal Area Required / A) - B =	N/A	feet
	Therefore, the overall mound with changes as follows:		
	New mound width = A + J + modified downslope setback =	N/A	feet

TABLE 3.1
EQUATIONS FOR CALCULATING SAND MOUND DIMENSIONS

Absorption Bed ft^2 (A x B) = $\frac{\text{Design Flow}}{1.2 \text{ gpd / ft}^2} = \underline{600.00} \text{ ft}^2$

Bed length (B) = $\underline{60.00} \text{ ft. (42 ft to 104 ft dependent on site)}$

Bed width (A) = $\frac{\text{Bed area}}{\text{Bed Length}} \text{ ft}^2 = \underline{10.00} \text{ ft. (12 ft. or less)}$

Upslope sand fill depth (D) = $48 \text{ in} - Z \text{ in.} = \underline{24} \text{ in. (12 in. min.)}$

Downslope sand fill depth (E) = $[12A \times \% \text{slope}] + D \text{ in} = \underline{31} \text{ in.}$

Cap + topsoil at bed center (H) = $\underline{18} \text{ in.}$

Cap + topsoil at bed edge (G) = $\underline{12} \text{ in.}$

Total bed depth (F) = $\underline{10} \text{ in}$

Sideslope setback (K) = $\left[\frac{(D + E)}{2} + 28 \text{ in.} \right] \times 3 = \underline{13.90} \text{ in.}$

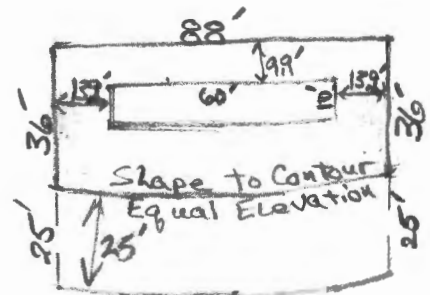
Upslope setback (J) = $(22 \text{ in.} + D) \times 3 \times \text{upslope corr. factor} = \underline{9.89} \text{ in.}$

Downslope setback (I) = $(22 \text{ in.} + E) \times 3 \times \text{downslope corr. factor} = \underline{16.23} \text{ in.}$

Total width of mound (W) = $12A + J + I = \underline{433.39} \text{ in.}$

Total length of mound (L) = $12B + K + K = \underline{1053.60} \text{ in.}$

*Sketch of Sand Mound
with Gravel Bed*



Location: **14562 WINDRIDGE COURT, 2nd replacement**

LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- SOIL LINES AND TYPES
- O^F DENOTES FAILED PERC
- DENOTES PASSED PERC
- DENOTES EXISTING PERC AREA
- DENOTES EXISTING HOUSE

SOILS LEGEND

SOIL	NAME	CLASS
GgB	Glenelg loam, 3 to 8 percent slopes	B
MaC	Manor loam, 8 to 15 percent slopes	B
MaD	Manor loam, 15 to 25 percent slopes	B

NOTES:

- * Hydric soils and/or contains hydric inclusions
- ** May contain hydric inclusions
- † Generally only within 100-year floodplain areas

VICINITY MAP

SCALE: 1" = 1200'

GENERAL NOTES:

- 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.
- ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM ALL REASONABLE EFFORTS.
- ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 2' CONTOUR INTERVAL AND FIELD RUN BY FISHER, COLLINS AND CARTER, INC IN THE AREA OF THE SEPTIC SYSTEM.
- BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
- ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN
- PLAT REFERENCE 14504.
- THE PROPOSED SAND MOUND HAS A GRAVEL BED THAT IS 10 FEET WIDE, AND THE REQUIRED MINIMUM GROSS DIMENSIONS FOR THE SAND MOUND ARE 84.5 FT. LONG BY 32.6 FT. WIDE.
- THE EXISTING HOUSE HAS 5 BEDROOM.

PERC CERTIFICATION

I certify that the locations shown 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 12/13/17

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER

DATE

OWNER

TODD & ELIZABETH STEINBERG
14562 WINDRIDGE COURT
GLENWOOD MD, 21738

PERC CERTIFICATION PLAT WINDRIDGE FARMS

LOT 13
SECTION 2 AREA 2

TAX MAP #21

GRID 17

PARCEL: 31

4TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

SCALE: 1" = 50'

DATE: JANUARY 8, 2016

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELIJAH CITY, MARYLAND 21042
(410) 461 - 2855

LEGEND

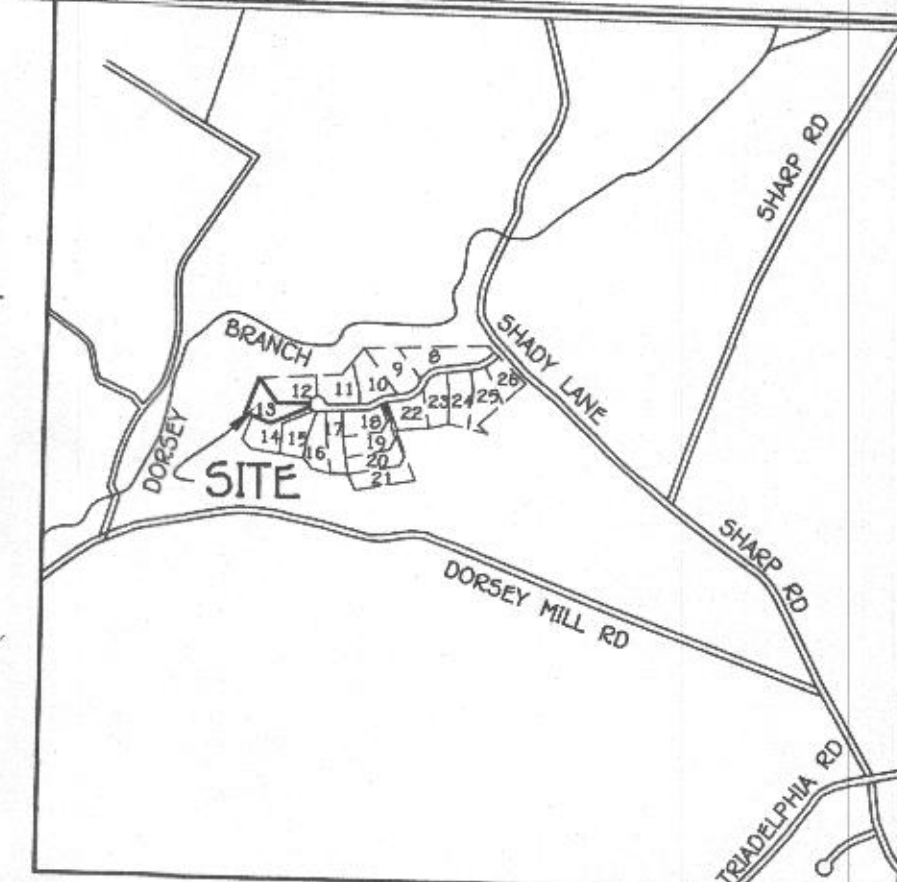
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SOIL	NAME	CLASS
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- PLAT REFERENCE 14684.
- THE PROPOSED SAND MOUND HAS A GRAVEL BED THAT IS 10 FEET WIDE, AND THE REQUIRED MINIMUM GROSS DIMENSIONS FOR THE SAND MOUND ARE 87.8 FT. LONG BY 36.1 FT. WIDE.
- THE SUBJECT PROPERTY HAS A LIMITATION OF FOUR (4) BEDROOMS UNLESS AN EXHIBIT PRESENTED BY A CERTIFIED PROFESSIONAL DEMONSTRATES THAT THE SEPTIC EASEMENT, INCLUDING THE SAND MOUND, WILL ACCOMMODATE THE WASTEWATER DISCHARGE FOR A RESIDENCE HAVING MORE THAN 4 BEDROOMS.
- THE HEALTH DEPARTMENT MAY APPLY A GENERAL WAIVER TO ALLOW THE SAND MOUND FOOTPRINT TO BE LESS THAN 20 FEET, BUT MORE THAN 17 FEET FROM THE PROPOSED GARAGE. DURING CONSTRUCTION OF THE GARAGE THE AREA OF THE SAND MOUND FOOTPRINT, AND THE INFILTRATION STRIP THAT CONTIGUES A DISTANCE OF 25 FEET DOWNHILL FROM THE SAND MOUND FOOTPRINT, SHALL BE PROTECTED BY A TEMPORARY FENCE THAT PREVENTS WHEELED VEHICLES FROM DRIVING ONTO THE APPROVED SAND MOUND PORTION OF THE SEWAGE DISPOSAL AREA.
- THE SAND MOUND ON THIS PERCOLATION CERTIFICATION PLAN IS DESIGNED FOR CONSTRUCTION WITH SAND MEETING SPECIFICATIONS OF CODE OF MARYLAND ANNOTATED REGULATIONS (COMAR) 26.04.02.05 U(4) (K)(II) WHICH IS SAND HAVING AN EFFECTIVE SIZE OF 0.15 - 0.3 MM WITH A UNIFORMITY COEFFICIENT BETWEEN 4 AND 6 AND CONTAIN LESS THAN 20 PERCENT OF MATERIAL LARGER THAN 2.0 MM AND LESS THAN 5 PERCENT OF MATERIAL LESS THAN 0.53 MM. SAND DELIVERED TO THE SUBJECT PROPERTY FOR THE PURPOSE OF CONSTRUCTING A SAND MOUND WILL BE SAMPLED AND ANALYZED FOR COMPLIANCE WITH COMAR 26.04.02.05 U(4) (K)(II) SPECIFICATIONS. THIS ANALYSIS MUST BE COMPLETED PRIOR TO PREPARATION OF THE SAND MOUND SITE FOR APPLICATION OF THE SAND. SAND DELIVERED TO THE SUBJECT PROPERTY THAT DOES NOT MEET SPECIFICATIONS OF COMAR 26.04.02.05 U(4) (K)(II) IS TO BE REMOVED IMMEDIATELY.
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PERC CERTIFICATION

I certify that the locations shown on this plan 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 12/13/17

5/4/16
Date

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

Signature for Maura Rossman
COUNTY HEALTH OFFICER

5/16/2016
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461 - 2995

OWNER

TODD & ELIZABETH STEINBERG
14562 WINDRIDGE COURT
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THE PURPOSE OF THIS PLAN IS TO
REVISE THE SEPTIC RESERVE AREA
BY ADDING A SAND MOUND AREA AND
EXTENDING THE SDA TO 5 FEET FROM
THE PROPERTY LINE.

PERC CERTIFICATION PLAT WINDRIDGE FARMS

LOT 13
SECTION 2 AREA 2

TAX MAP #21

GRID 17

PARCEL: 31

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HOWARD COUNTY, MARYLAND

SCALE: 1"=50'

DATE: MAY 4, 2016

LEGEND

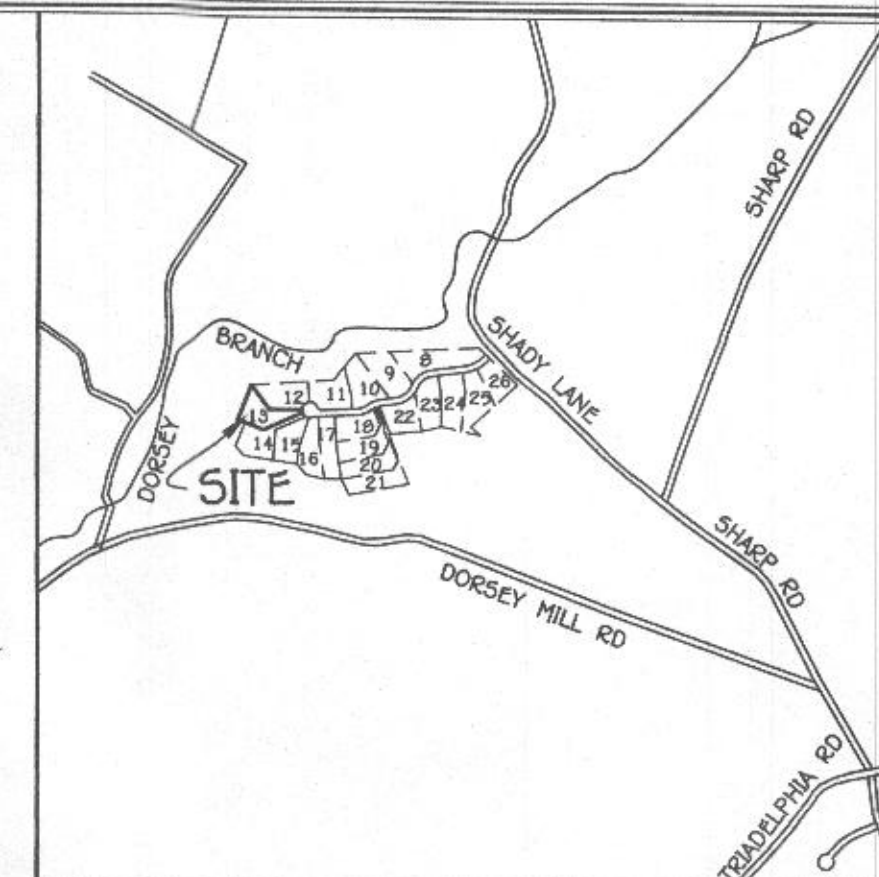
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SOIL	NAME	CLASS
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Signature of Maureen Roszman
COUNTY HEALTH OFFICER

5/16/2016
DATE

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LOT 13
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TAX MAP #21

GRID 17

PARCEL: 31

4TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

SCALE: 1"=50'

DATE: MAY 4, 2016