



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 5/26/22

AGENCY REVIEW: \_\_\_\_\_

DATE 4/26/17

DO NOT WRITE ABOVE THIS LINE

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

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH \_\_\_\_\_ PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Sumit Bhutani + Vaishali JARREL

DAYTIME PHONE 856-530-6496 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 3020 DROVERS LN COOKSVILLE MD 21723  
STREET CITY/TOWN STATE ZIP

APPLICANT Freedom Septics Inc - Bev True, agent BevTrue213@gmail.com

DAYTIME PHONE 410-795-2947 CELL 410-984-0863 FAX 410-549-1163

MAILING ADDRESS 2809 Liberty Rd SEYBESVILLE, MD 21784  
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME Vista Ridge LOT NO. 8

PROPERTY ADDRESS 3020 DROVERS LN COOKSVILLE  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 8 GRID 23 PARCEL(S) 174 PROPOSED LOT SIZE 1.1460ac.

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. Beverly True, agent for Freedom Septics Inc.  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P

500A

0.6' brn L, 1 fsbk  
 1.5' brn v flcl 30-40% rock  
 1 fsbk, SS  
 1.5' yel-red & red-yel  
 X flcl SS  
 1' 60-70% rock  
 35' R

501A

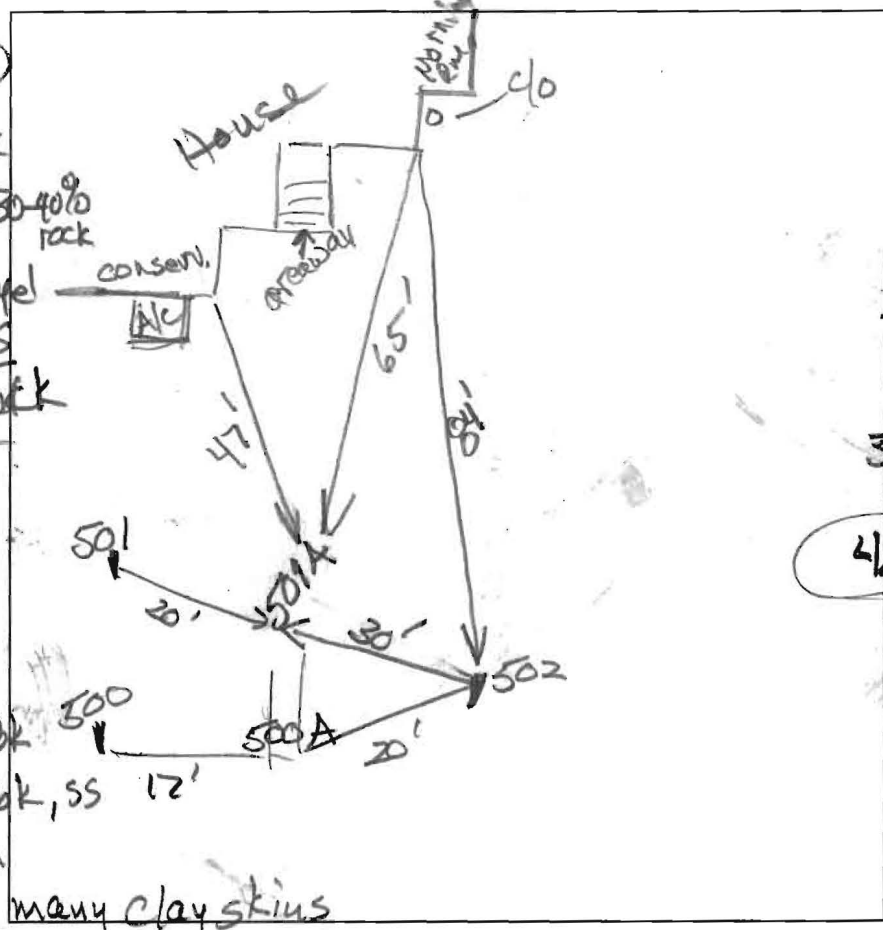
0.4' dk brn L, 1 fsbk  
 1' brn L, 2 fsbk, SS 12'  
 1.7' yel-red & brn  
 3 fsbk, SS, many clay skins

2.5' yel-red L  
 2 fsbk, SS  
 com. clay skins

3.5' yel-red & brn  
 1 fsbk, dense

5.5' yel-red & red-yel  
 thick platy

15' red & yellow  
 lf, thin platy



502

0.8' brn L, 2 fsbk  
 1.4' brn & yel-red  
 L, 2 fsbk, SS  
 2.5' yel-red  
 1' 2 fsbk, SS  
 clay skins  
 3.6' yel-red & red-yel  
 1.5' thick platy  
 4.0' red & yellow  
 lf, thin platy

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/23/17	501A	6' 15"	10:44	10:49	11:00	11	P
5/23/17	500A	35'	Visual		Rock > 50% Refusal		F
5/23/17	502	6' 14"	11:41	11:47	11:58	11	P

REMARKS 3<sup>rd</sup> Trench Obs. Pipe missing cap.  
 SANITARIAN R. Bricker BACKHOE Day OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

Ⓐ Ⓑ

Red Br  
Dense Fine  
Sa Cl Loam

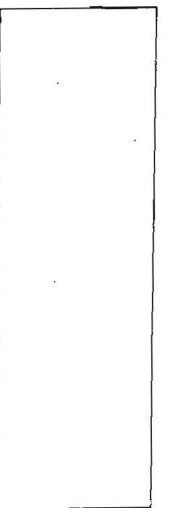
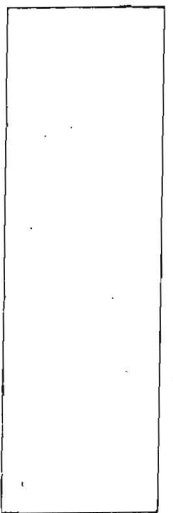
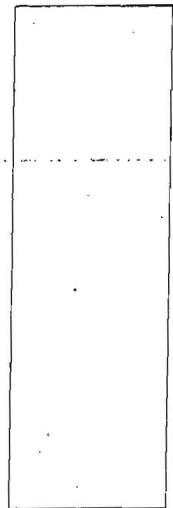
~3'

Moderately  
Dense Fine  
Sa Cl Loam

5'

Moderately  
Dense  
Fine Sa  
Loam  
Not  
Rocky

Observation Holes Dug  
For 2025 Drivers Lane  
See Septic Permit As-Built  
For Approximate Locations



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/30/2014	A	7'	Visual				P
	B	7'	Visual				P

REMARKS Soils Should Have 0.8 Rates or Better Below 5'

SANITARIAN B. Baker BACKHOE Fogles OTHERS \_\_\_\_\_

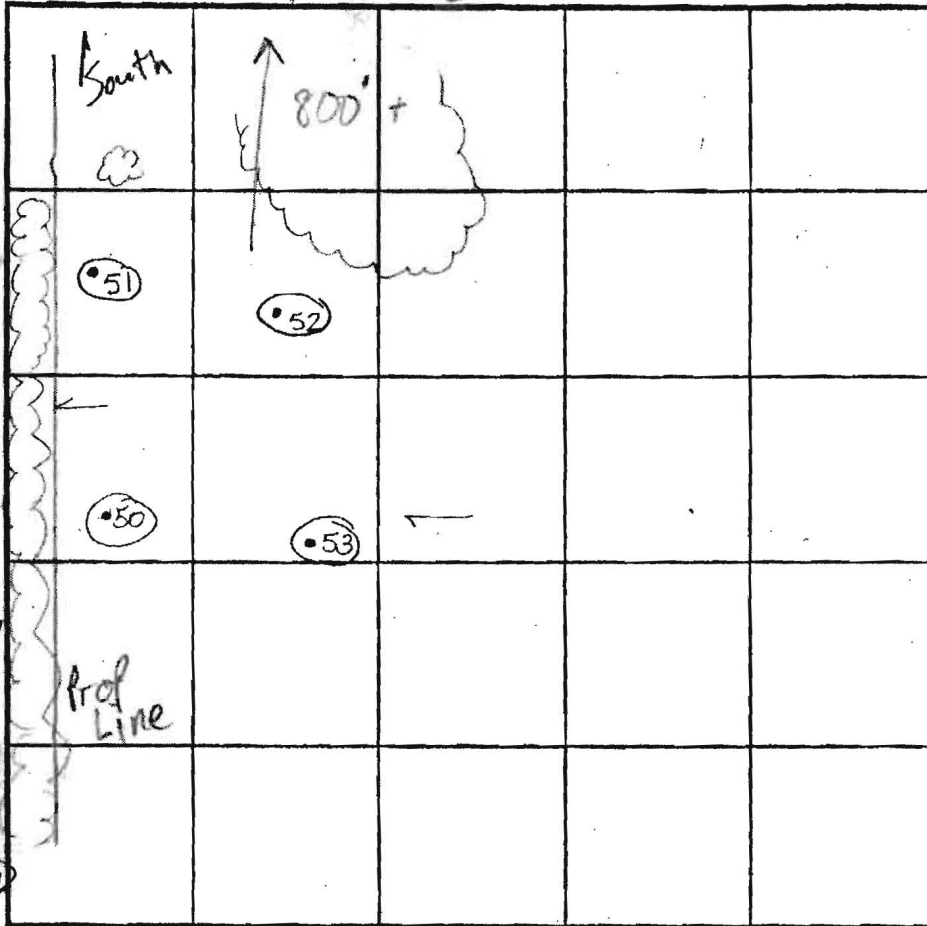
TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

516045

COUNTY #

FRED. RD



SOIL PROFILE

(53)

SOIL PROFILE

(51)

Topsoil

org rd

10R 4/8 (rd)

DENSE

CL-CLM

2-4'

red-brn

sandy

clay

loam

5'

tan-

brown

sandy

loam

7.5YR 5/8

2.5YR 6/2

Rock Frag 10-15%

Bottom 15'

(52)

Topsoil

10R 4/8

Rd brn Dense

yellow brn CL

rd Sa CLM

Rock Frag 5%

5'

Sa Lm

(50) (53)

7.5YR 6/8

7.5YR 5/6

Rock Frag Trace

Structured Saprolite 10-20%

Bottom 15'

(50) (53)

Topsoil

1"

Rd DENSE

CL

2.5YR 4/8

5 1/2'

Si CLM

10YR 7/8

10YR 6/8

Yellowish

brn

yellow rd

5YR 5/6

7'

Sa - Salm

10YR 7/8

6/8

Bottom 15'

INDICATE NORTH. NAME ADJOINING ROADWAY AS BASE LINE.

Route 70

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12-4-01	51	5' 6" S	11:07 AM	11:11 AM	11:11 AM	11:19 AM	8 min
		15' D	—————→				OK
	52	5' S	11:17 AM	11:20 AM	11:20 AM	11:23 AM	3 min
		15' D	—————→				OK
	50	6 1/2' S	11:27 AM	11:30 AM	11:30 AM	11:35	5 min
		15' D	—————→				OK
	53	6' S	11:42	11:52	11:52	12:10	18 min
		13' D	SEE SOIL PROFILE #50, EXCEPT DENSE CL-CLM TO 6'-6 1/2'				OK

REMARKS Perced Holes PER Plan

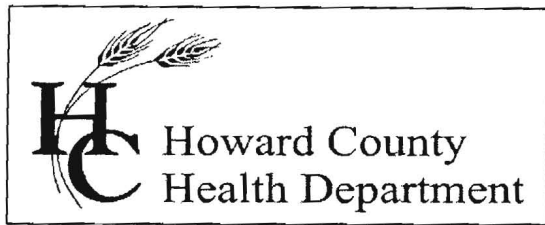
TYPE OF SOIL \_\_\_\_\_

TESTED BY Goedeking / Krieg ALSO PRESENT Donny w/ Hatfield

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH 3

INLET DEPTH 4 MAXIMUM BOTTOM DEPTH 6 SQ. FT./BEDROOM \_\_\_\_\_





**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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

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

May 24, 2017

Bev True, agent for Freedom Septic, Applicant

RE: Percolation Test Results, 2026 Drover's Lane, A560622

Dear Ms. True,

Percolation testing was conducted on May 23 at 2026 Drover's Lane for the purpose of reconfiguring the existing sewage disposal area (SDA) to accommodate a proposed inground swimming pool.

Three locations were staked for the percolation tests, 500, 501, and 502. Percolation test pits (500A and 501A) were dug offset from the stakes, and location 502 was dug at the staked location. Location 500A is a FAIL due to shallow rock, a shale bed that dips near vertical. Locations 501A and 502 PASS.

The area represented by location 500A cannot be utilized for wastewater discharge. The area that is potentially approvable for wastewater discharge has boundaries defined by locations 501A and 502, where the proposed SDA cannot extend beyond those test locations and toward location 500A.

Please be advised that for area to be approved for inclusion in an SDA, it must be large enough to accommodate trenches that are part of a drainfield system. The potentially approvable area represented by locations 501A and 502 may only be appropriate for a drainfield design utilizing pressurized distribution.

A Percolation Certification Plan must be submitted that meets state and county requirements including sizing and location of drainfield systems. Signature of the Percolation Certification Plan by the Approving Authority certifies the percolation test results and area approvable for wastewater discharge. When the Percolation Certification Plan is approved, Health Department staff may approve Building Permits. Relative to a potential proposal to construct an inground pool whereby a part of the existing SDA is displaced, three drainfield systems must be proposed within the approvable boundaries of a SDA. If only two drainfield systems fit, then a pre-treatment unit will be required as part of the septic system.

An Observation Pipe at the end of existing Trench 3 is uncovered. This Observation Pipe must be repaired immediately by replacing the threaded cap that has been broken off.

If you have questions related to these content, you may reply to me via email, [rbricker@howardcountymd.gov](mailto:rbricker@howardcountymd.gov) , or call my desk, 410-313-2691.

Respectfully,

Robert Bricker, CPSS, REHS/R.S., L.E.H.S.  
Environmental Sanitarian II

Well and Septic Program, Bureau of Environmental Health  
Howard County Health Department  
8930 Stanford Boulevard  
Columbia, MD 21045

Enclosures (2 pages): one Percolation Test Application and one (1) Percolation Test Field  
Worksheets

Copy: Sumit Bhutani and Vaishali Jarrel , owners  
File



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045
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www.hchealth.org

Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 2026 Drover's Lane

Subdivision: Vista Ridge Lot: 8

Initial system: existing Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 7.5

#50 1st Replacement: Application rate: 1.2 Effective area beginning depth: 6 Bottom maximum depth: 8

#51 2nd Replacement: Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 8

pressure system #50 & #51: 0.8 5.5 7.5
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.

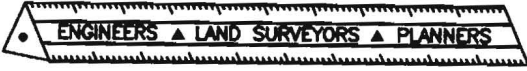
Standard design requirements:

- 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: R. Bricker Date: 6/12/2017

# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

DATE	6/14/17	PROJECT No.	2840
ATTENTION	Robert Bricker		
RE:	2026 Drovers Lane Lot 8 Vista Ridge		

TO: Health Dept  
\_\_\_\_\_  
\_\_\_\_\_

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items

Photocopies  Prints  Originals  Samples  
 Specifications  Invoices  Change Order  Other \_\_\_\_\_

COPIES of	No. of SHEETS	DESCRIPTION
3	1	Revised Perc Cert

THESE ARE TRANSMITTED as checked below

- For Comment  For your use  For Approval  
 For Review  As requested  Other \_\_\_\_\_

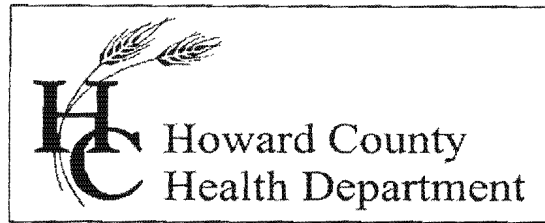
REMARKS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COPY TO: \_\_\_\_\_

RECEIVED BY: Jessica King

SIGNED: John Carney

If enclosures are not as noted, kindly notify us at once.



**Bureau of Environmental Health**

8930 Stanford Boulevard, Columbia, MD 21045

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Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

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

---

June 19, 2017

TO: John Carney, Benchmark Engineering, Inc.

FROM: Robert Bricker, CPSS, REHS/R.S., Environmental Sanitarian II  
Well and Septic Program, Bureau of Environmental Health

RE: 2026 Drover's Lane, Percolation Certification Plan comments

Several items to be corrected or edited:

1. Delete Note 4.
2. The information in the SOILS LEGEND is outdated. Use the most recent soil map units (which are GgA and GgB) .
3. Illustrate the current soil map units on the subject property.
4. In LEGEND,
  - a. Edit several of the entries, replacing the term "SEPTIC" with 'SEWAGE'.
  - b. The structures on this plan area all existing; replace "PROPOSED" with 'EXISTING'.
5. Field-locate and illustrate the existing septic system components. The septic tank and the distal ends of trenches are easy to see.
6. In addition to the existing system trenches, illustrate the two replacement systems required by County Code. The replacement trench systems must be within the SDA, and the trenches must be spaced appropriately.
7. List the calculations for the replacement system trench lengths.

If you have questions related to these comments, you may reply to me via email, [rbricker@howardcountymd.gov](mailto:rbricker@howardcountymd.gov) , or call my desk, 410-313-2691.

RB

Copy: File





# BENCHMARK



## ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043  
 410-465-6105 410-465-6644 (Fax)

### LETTER OF TRANSMITTAL

DATE	6/20/17	PROJECT No.	2840
ATTENTION	Robert Bricker		
RE:	2026 Dravers Lane Vista Ridge Lot 8		

TO: Heath

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items
- Photocopies     Prints     Originals     Samples  
 Specifications     Invoices     Change Order     Other \_\_\_\_\_

COPIES of	No. of SHEETS	DESCRIPTION
3	1	Peric Cent
1	1	Response Letter

THESE ARE TRANSMITTED as checked below

- For Comment     For your use     For Approval  
 For Review     As requested     Other \_\_\_\_\_

REMARKS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

COPY TO: \_\_\_\_\_

RECEIVED BY: [Signature]

If enclosures are not as noted, kindly notify us at once.

SIGNED: [Signature]

# BENCHMARK



Christopher A. Malagari, P.E., President  
Donald A. Mason, P.E., Vice President

Ellicott City, MD      Frederick, MD  
410-465-6105      301-710-5686  
410-465-6644 Fax

June 20, 2017

Robert Bricker, REHS/R.S., L.E.H.S.  
Well and Septic Program  
Howard County Health Department  
8930 Stanford Blvd.  
Columbia, MD 21045

Re: Vista Ridge Lot 8  
2026 Drovers Lane  
Revised Percolation Certification Plan

Mr. Bricker:

I am writing to in response to your comments dated June 19, 2017. The following is a point by point response to your comments:

- 1.) General Note 4 has been deleted, the reference numbers for the other notes were updated as necessary.
- 2.) The soils legend has been updated.
- 3.) The current soil map units are shown in the plan view.
- 4.) The legend has been changed as requested.
- 5.) The existing trenches, tank and distribution box are shown per the detailed as-built and per aerial photographs that show the end caps and tank.
- 6.) The two replacement systems have now been shown on this percolation certification plan. The trenches remain in the Sewage Disposal Area and are and adequately spaced.
- 7.) The calculations for the replace systems has been shown.

If you have any question please feel free to contact me at 410-465-6105 or [jcarney@bei-civilengineering.com](mailto:jcarney@bei-civilengineering.com).

Sincerely,

*John M. Carney*

John M. Carney, P.E.  
For Benchmark Engineering, Inc.

SOILS LEGEND			
MAP SYMBOL	SOIL GROUP	SOIL TYPE	Kw FACTOR
GgB	B	GLENELG LOAM, 3 TO 8 % SLOPES	0.20
GgC	B	GLENELG LOAM, 8 TO 15 % SLOPES	0.20

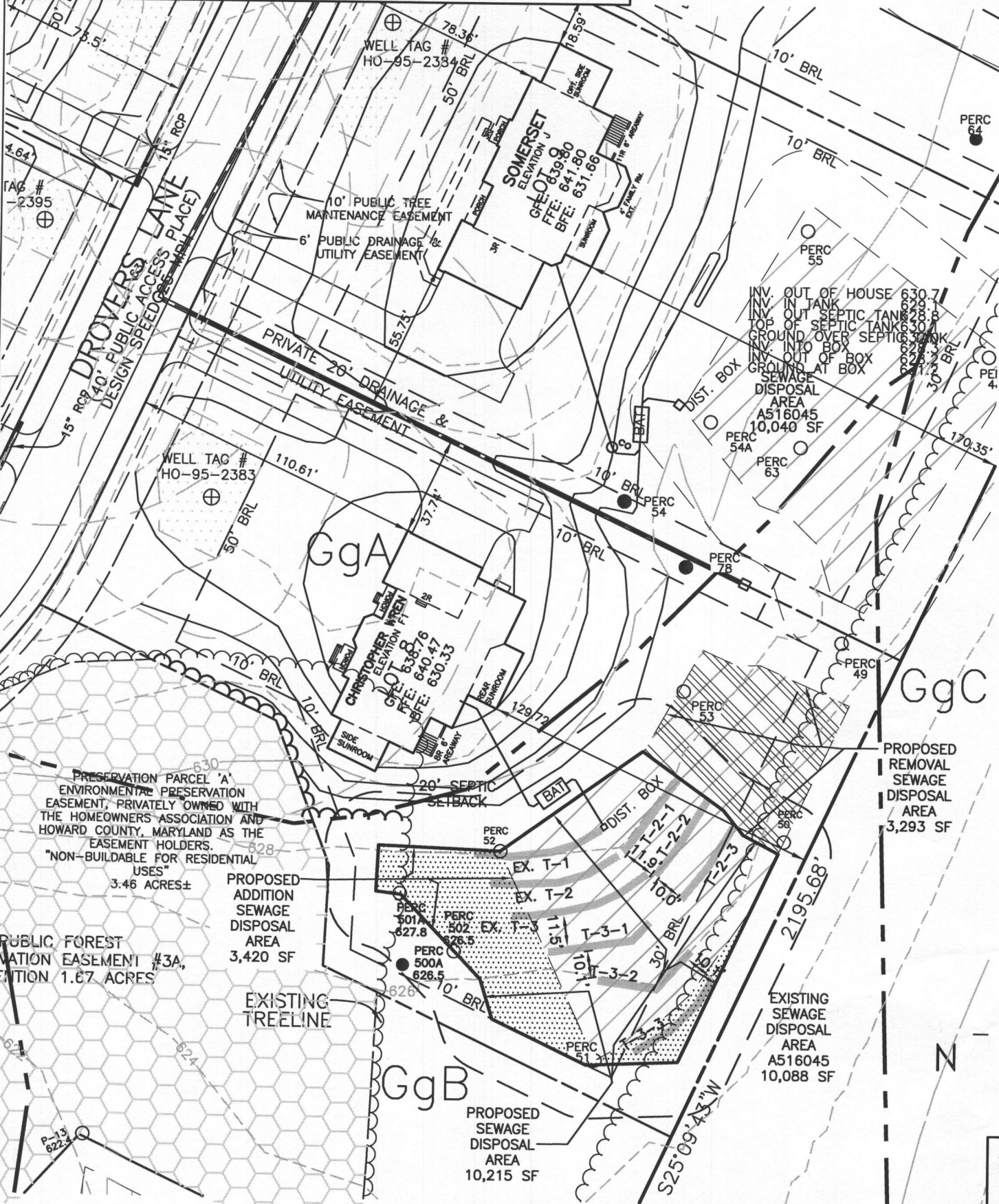
\* INDICATES HYDRIC SOILS  
TAKEN FROM WEB SOILS SURVEY WEBSITE, ISSUED 2008, MAP NO. 16.

**GENERAL NOTES**

- 1.) THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 2.) THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 S.F. 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 SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 3.) UNLESS OTHERWISE SHOWN NO WELLS OR SEWAGE DISPOSAL AREAS ARE LOCATED WITHIN 100 FEET OF THE PROPERTY.
- 4.) TOPOGRAPHY FIELD RUN BY BENCHMARK ENGINEERING INC., DATED MARCH 2003. WELL HO-95-2383 IS ACCURATELY SHOWN PER FIELD LOCATION. PERCOLATION TEST HOLES 500A, 501A AND 502 WERE FIELD LOCATED IN MAY, 2017 BY BENCHMARK ENGINEERING, INC.
- 5.) ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 6.) THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION IS TO ADJUST THE SEWAGE DISPOSAL AREA ON LOT 8 TO ALLOW FOR A POOL.
- 7.) PERCOLATION TEST LOCATIONS 500A, 501A AND 502 WERE TESTED IN MAY, 2017.



**VICINITY MAP**  
SCALE: 1"=2000'  
ADC MAP No. 4 GRID D-13

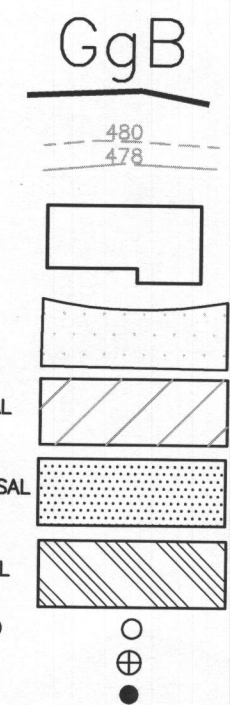


**PLAN VIEW**  
1" = 50'

SYSTEM	DESIGNATION	LENGTH (LF)	TOTAL LENGTH	Criteria
EXISTING SYSTEM	EX. T-1	50		Existing
	EX. T-2	51		
	EX. T-3	55	156	
FIRST REPAIR #50	T-2-1	35		App. Rate = 1.2
	T-2-2	35		Eff. Depth = 2.0'
	T-2-3	35	105	Width = 3.0'
SECOND REPAIR #51	T-3-1	42		App. Rate = 0.8
	T-3-2	42		Eff. Depth = 3.0'
	T-3-3	42	126	Width = 3.0'

**LEGEND**

- SOILS CLASSIFICATION
- SOILS DELINEATION
- EXISTING CONTOURS (FIELD RUN)
- EXISTING STRUCTURE
- EXISTING WELL BOX
- EXISTING SEWAGE DISPOSAL AREA
- PROPOSED SEWAGE DISPOSAL AREA REVISION (ADDITION)
- EXISTING SEWAGE DISPOSAL AREA (TO BE REMOVED)
- PERCOLATION TEST PASSED
- WELL LOCATION
- PERCOLATION TEST FAILED



I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT TO THE BEST OF KNOWLEDGE AND BELIEF.

*John M. Carney*  
PLAN PREPARER: JOHN M. CARNEY DATE: 6/20/17  
FOR BENCHMARK ENGINEERING, INC.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER DATE:

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644  
E-MAIL: bel@bel-civilengineering.com

**VISTA RIDGE**  
LOTS 8  
2026 DROVERS LANE  
COOKVILLE, MD 21723  
LOCATION: TAX MAP No. 8 - GRID No. 23  
PARCEL No. 176  
4th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
TAX ID 04 595473  
TITLE: **REVISED PERCOLATION CERTIFICATION PLAN**  
DATE: JUNE, 2017 PROJECT NO. 2840  
SCALE: 1" = 50' DRAWING 1 OF 1

SOILS LEGEND			
MAP SYMBOL	SOIL GROUP	SOIL TYPE	Kw FACTOR
GgB	B	GLENELG LOAM, 3 TO 8 % SLOPES	0.20
GgC	B	GLENELG LOAM, 8 TO 15 % SLOPES	0.20

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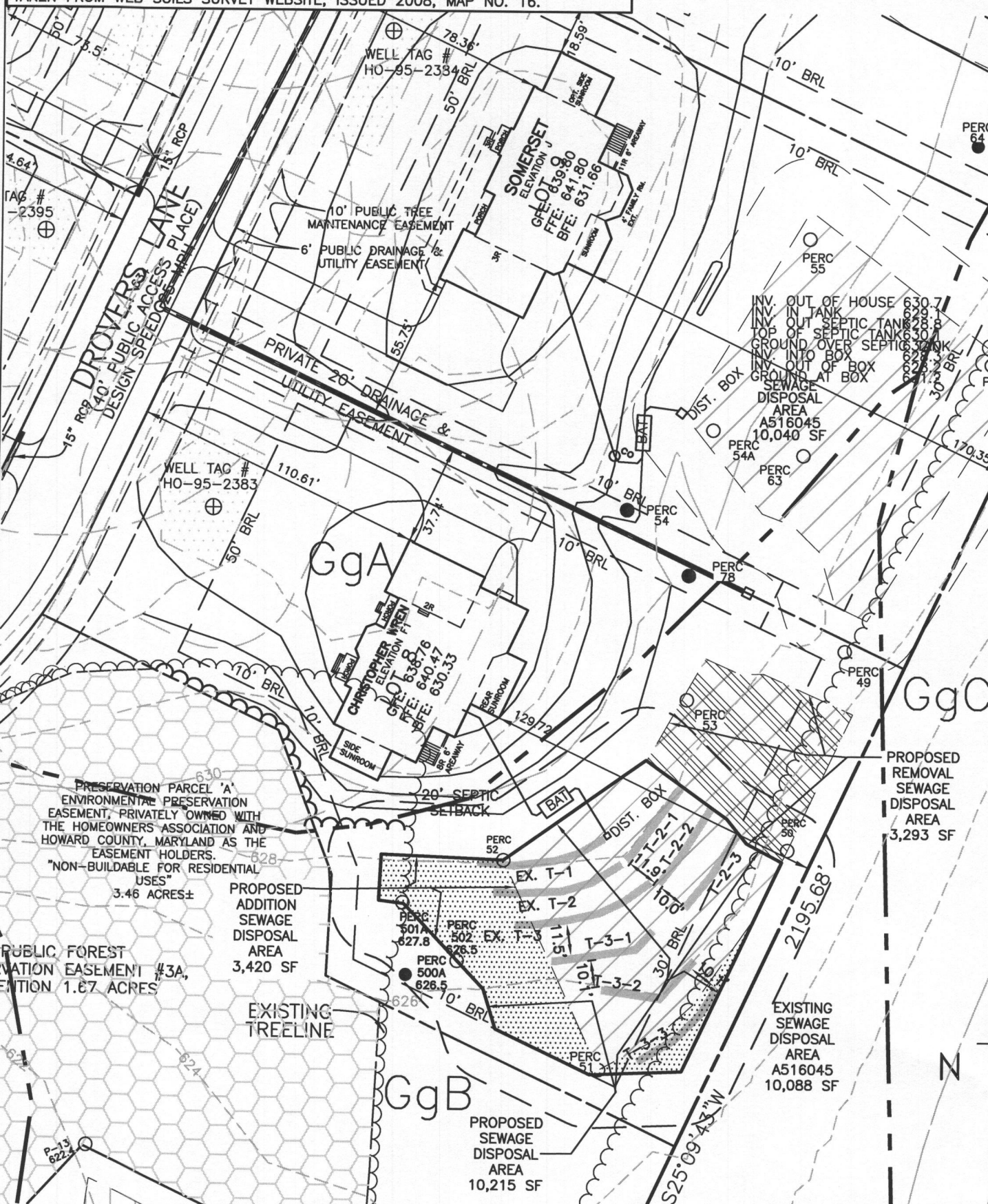
**GENERAL NOTES**

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- 4.) TOPOGRAPHY FIELD RUN BY BENCHMARK ENGINEERING INC., DATED MARCH 2003. WELL HO-95-2383 IS ACCURATELY SHOWN PER FIELD LOCATION. PERCOLATION TEST HOLES 500A, 501A AND 502 WERE FIELD LOCATED IN MAY, 2017 BY BENCHMARK ENGINEERING, INC.
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**VICINITY MAP**

SCALE: 1"=2000'  
ADC MAP No. 4 GRID D-13

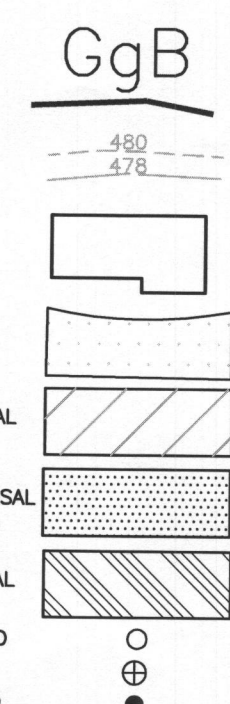


**PLAN VIEW**  
1" = 50'

SYSTEM	DESIGNATION	LENGTH (LF)	TOTAL LENGTH	Criteria
EXISTING SYSTEM	EX. T-1	50		Existing
	EX. T-2	51		
	EX. T-3	55	156	
FIRST REPAIR #50	T-2-1	35		App. Rate = 1.2
	T-2-2	35		Eff. Depth = 2.0'
	T-2-3	35	105	Width = 3.0'
SECOND REPAIR #51	T-3-1	42		App. Rate = 0.8
	T-3-2	42		Eff. Depth = 3.0'
	T-3-3	42	126	Width = 3.0'

**LEGEND**

- SOILS CLASSIFICATION
- SOILS DELINEATION
- EXISTING CONTOURS (FIELD RUN)
- EXISTING STRUCTURE
- EXISTING WELL BOX
- EXISTING SEWAGE DISPOSAL AREA
- PROPOSED SEWAGE DISPOSAL AREA REVISION (ADDITION)
- EXISTING SEWAGE DISPOSAL AREA (TO BE REMOVED)
- PERCOLATION TEST PASSED
- WELL LOCATION
- PERCOLATION TEST FAILED



I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF.

*John M. Carney*  
PLAN PREPARER: JOHN M. CARNEY DATE: 6/20/17  
FOR BENCHMARK ENGINEERING, INC.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER DATE:

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-8105 FAX: 410-465-6844  
E-MAIL: be@bei-civilengineering.com

**VISTA RIDGE**  
LOTS 8  
2026 DROVERS LANE  
COOKSVILLE, MD 21723

LOCATION: TAX MAP No. 8 - GRID No. 23  
PARCEL No. 176  
4th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
TAX ID 04 595473

TITLE: **REVISED PERCOLATION CERTIFICATION PLAN**

DATE: JUNE, 2017 PROJECT NO. 2840  
SCALE: 1" = 50' DRAWING 1 OF 1

**SOILS LEGEND**

MAP SYMBOL	SOIL GROUP	SOIL TYPE	Kw FACTOR
GgB	B	GLENELG LOAM, 3 TO 8 % SLOPES	0.20
GgC	B	GLENELG LOAM, 8 TO 15 % SLOPES	0.20

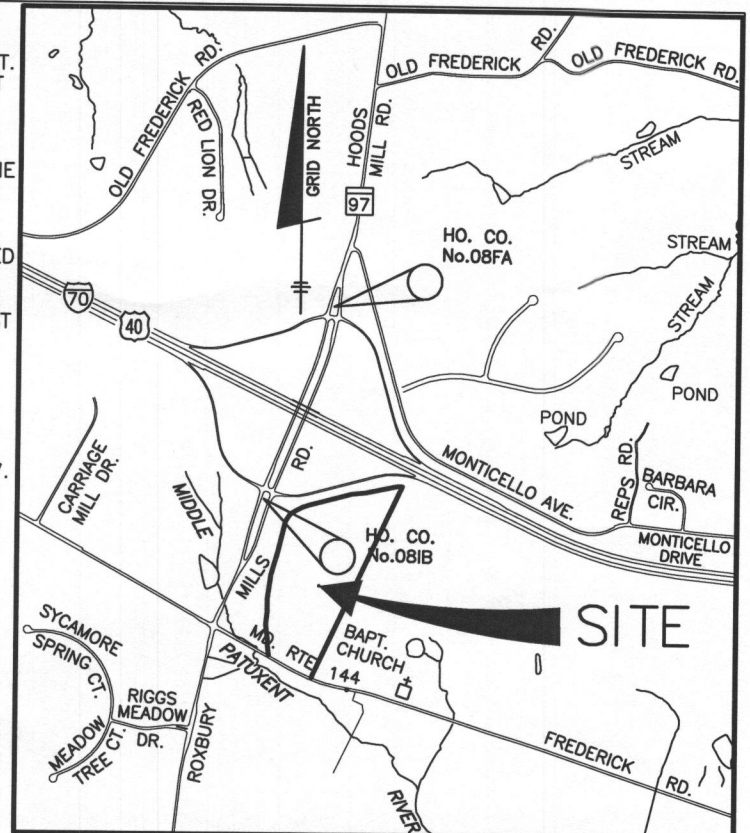
\* INDICATES HYDRIC SOILS  
TAKEN FROM WEB SOILS SURVEY WEBSITE, ISSUED 2008, MAP NO. 16.



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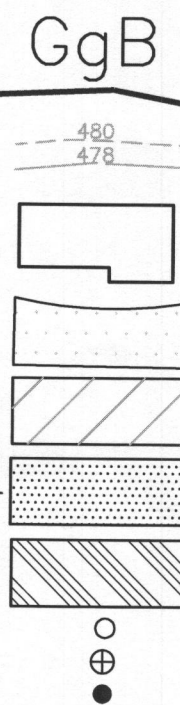
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