



HOWARD COUNTY HEALTH DEPARTMENT

66355

DATE 8/27/19

Received From

PHONE #

Army Spangler 410 844-1710

For

HEC App/ 12245 Howard
Hodge Rd.

CASH

CHECK

NO.

576

Five hundred six Dollars

\$ 500.00

Received By

JKing



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 Spangler Property
 PROPERTY ADDRESS 12245 Howard Lodge Rd, Sykesville, MD 21784
STREET TOWN ZIP
 TAX ACCOUNT # _____ TAX MAP 9 GRID 12 PARCEL 123 LOT NO. N/A SIZE (ACRES) 6.237
PROPOSED LOT
 ZONING CATEGORY RR-DEQ TIER _____

PROPERTY OWNER(S) Tony & Amy Spangler

DAYTIME PHONE _____ CELL _____ EMAIL tony.allen.spangler@gmail.com
 MAILING ADDRESS 12245 Hodge Lodge Rd; Sykesville, MD 21784
STREET CITY, STATE ZIP

APPLICANT same as above

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 3 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]
 SIGNATURE OF APPLICANT / AGENT

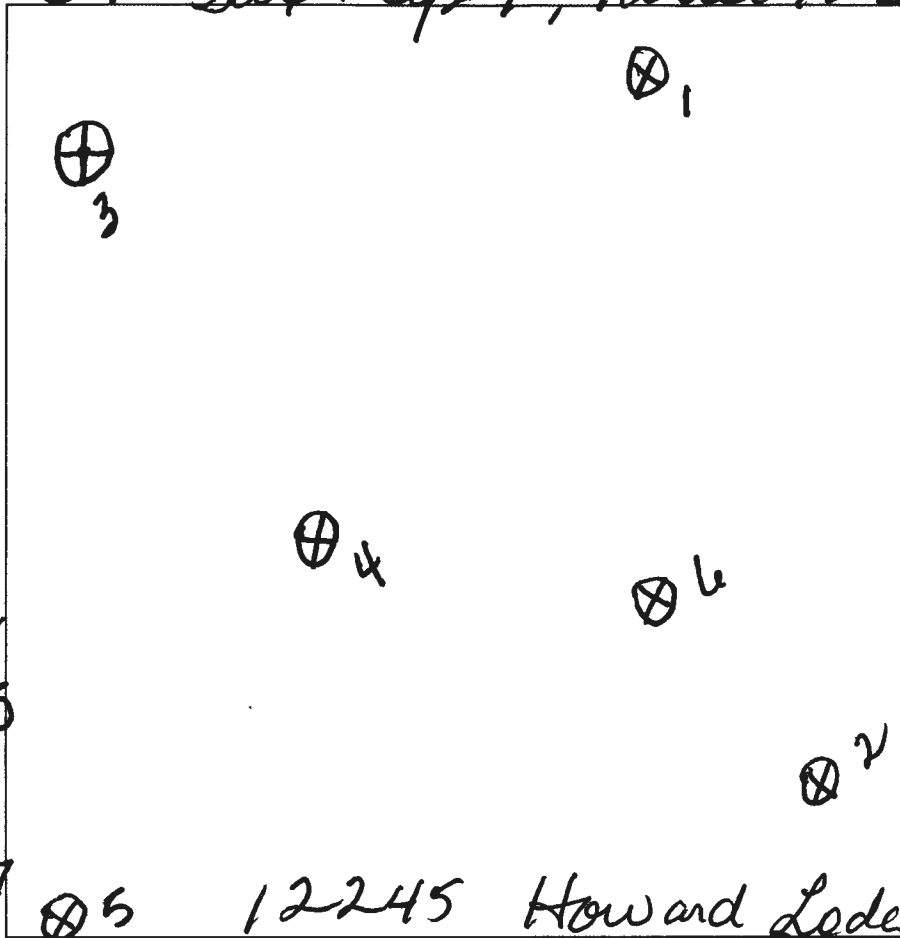
8/26/2019
 DATE

⊕ 1 Jay map 9, Parcel 123

#1
Red Brown
yellow
SCL 2
Red Brown
yellow
many
mic
FSL - 8
10% - 20%
R4
↓
15'

#2 & #5
Red Brown
yellow
SCL 5.7
Red Brown
yellow
SCL 5-10%
R4
sidewall,
wet @ 9'
H2O @ 14'
15'

#3
Red Brown
yellow
SCL 3.8
Red Brown
SCL
5-10%
R4
↓
15'



#4
Red Brown
yellow
SCL 3.8
Red Brown
yellow
SCL
5-10%
R4
↓
15'

#6
Red Brown
yellow
SCL 3.7
Red Brown
yellow
SCL
5-10%
R4
Slate @ 10'
H2O in 15'
Bottom @ 15'

#7
Red Brown
yellow
SCL 2'
Red Brown
yellow
many
mic
FSL - 8'
10-20%
R4
↓
15'

⊕ 5 12245 Howard Lodge Dr.

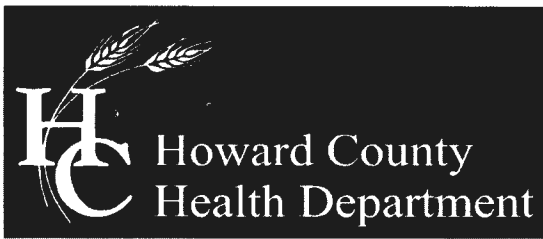
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H	
11-8-19	1	4/15	11:22	11:26	11:30	4min	P	
11-8-19	2	4/15	11:03	NO	movement		F	
11-8-19	3	4/15	10:50	10:52	10:59	4min	P	
11-8-19	4	4/15	10:56	11:02	11:13	11min	P	
11-8-19	5	NO	sidewall →					F
11-8-19	6	4/15	11:19	11:23	11:31	8min	P	
11-8-19	7	4/15	11:38	11:41	11:45	4min	P	

REMARKS Holes 2 & 5 Cannot be used in Easement

SANITARIAN DBernard BACKHOE _____ OTHERS _____

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



Bureau of Environmental Health

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Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 12245 Howard Lodge Drive

Subdivision: _____ Spangler Property _____ Lot: _____

Initial system:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>3.0</u>	Bottom maximum depth: <u>6</u>
1 st Replacement:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>3.8</u>	Bottom maximum depth: <u>6</u>
2 nd Replacement:	Application rate: <u>0.8</u>	Effective area beginning depth: <u>3.7</u>	Bottom maximum depth: <u>8</u>

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drain field required

Linear length of trench required = drain field 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:

- 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
- Tank and trenches must be placed as shallow as possible while maintaining 2% fall in pipe from house and at least 18" cover over trenches. If 2% fall from house is not possible, the minimum allowable fall is 1%.
- 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 Bernard Date: 1-21-2020

RD LODGE DRIVE
THE ROAD, VARIABLE ROW

PRIVATE RM
ED IN DEED

77,746 S. PAR
1.52 AC.

RESIDENCE

EX
SHED

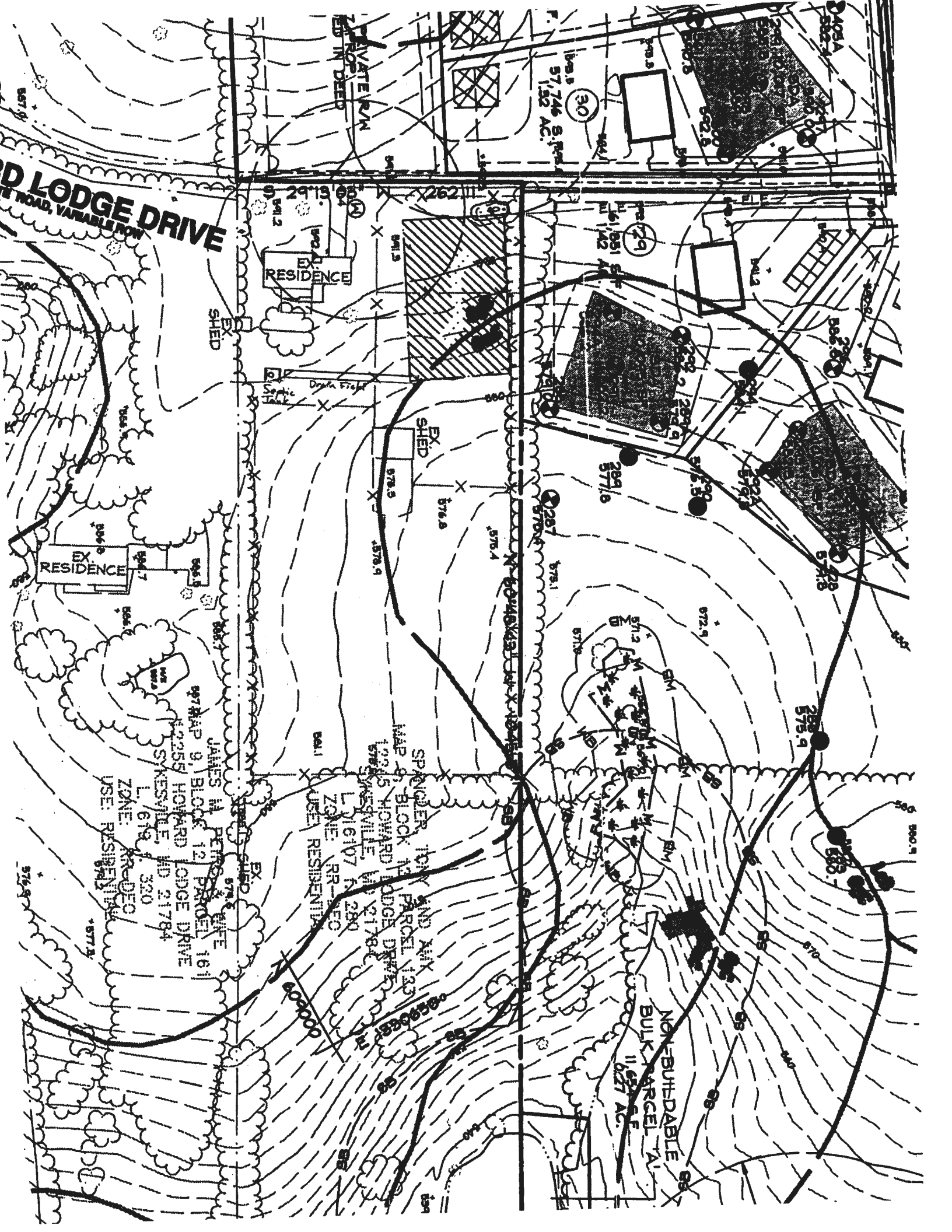
EX
RESIDENCE

ZONE: RR-DEC
USE: RESIDENTIAL

JAMES H. PETERS & WIFE
MAP 9, BLOCK 12 PARCEL 161
12255 HOWARD LODGE DRIVE
SYKESVILLE, MD 21784
L 619 R 320

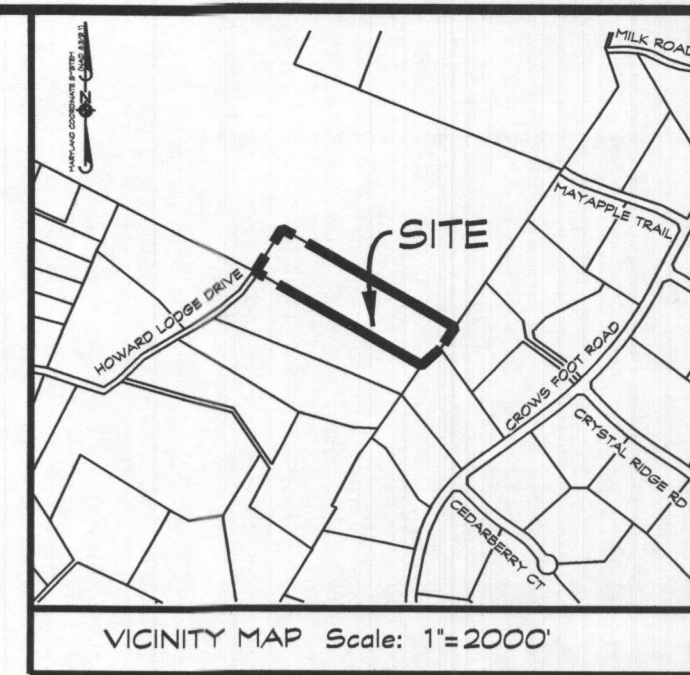
SPANGLER TONY AND ANNE
MAP 9, BLOCK 12 PARCEL 123
12215 HOWARD LODGE DRIVE
SYKESVILLE, MD 21784
L 6107 R 280
ZONE: RR-DEC
USE: RESIDENTIAL

NON-BUILDABLE
BULK PARCEL 'A'
0.27 AC.



SEPTIC SYSTEM TRENCH DESIGN:

EXISTING HOUSE - 2 BEDROOMS
 PROPOSED ADDITION - 1 BEDROOMS
 TOTAL BEDROOMS - 3
 APPLICATION RATE = 1.2 GPD/SQ. FT. (ASSUMED)
INITIAL SYSTEM & REPLACEMENT 1 & 2:
 150 GAL x 3 BEDROOMS = 450 GAL/DAY
 450 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 375 SQ. FT.
 125 L.F. x .50 = 75 L.F. OF DEEP TRENCH
 USE 1 - 75 L.F. OF TRENCH FOR EACH SYSTEM



GENERAL NOTES

- CURRENT TITLE REFERENCE:
 OWNER: TONY & AMY SPANGLER
 DEED REFERENCE: L. 16107, F. 280
 DATE: APRIL 1, 2015
 GRANTOR: HELEN TAYLOR TRUSTEE
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY 200' SCALE TOPO MAPS AND VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY. TOPOGRAPHY OF THE SEWAGE DISPOSAL AREA WAS FIELD VERIFIED BY CLSI.
- EXISTING WELLS AND/OR SEWER EASEMENTS WITHIN 100' OF THE LOT LINES HAVE BEEN SHOWN. THERE ARE NO WELLS 200' DOWN GRADIENT OF THE SEPTIC EASEMENT AREA SHOWN.
- M.B.L. DENOTES MINIMUM BUILDING LINE
- ANY CHANGES TO THE PRIVATE SEWER EASEMENT AND/OR ALTERNATIVE WELL LOCATION SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE EXISTING SEPTIC SYSTEM LOCATION IS APPROXIMATE AND TAKEN FROM HEALTH DEPARTMENT INFORMATION. THE SEPTIC TANK LOCATION WAS FIELD LOCATED.
- ALL STORMWATER MANAGEMENT DEVICES WILL MEET HOWARD COUNTY SETBACKS TO ALL WELL SITES AND ON-SITE DISPOSAL SYSTEMS.

DATA TABULATIONS

- ZONING DISTRICT: RR-DEO
- NUMBER OF BUILDING SITES: 1
- TOTAL AREA OF LOT: 6.237 ACRES

PURPOSE NOTE:
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO SHOW AN ADDITIONAL SEPTIC EASEMENT TO SUPPORT THE PROPOSED ADDITION. THE TOTAL BEDROOMS WILL BE 3 BEDROOMS.

PERCOLATION TEST RESULTS, _____

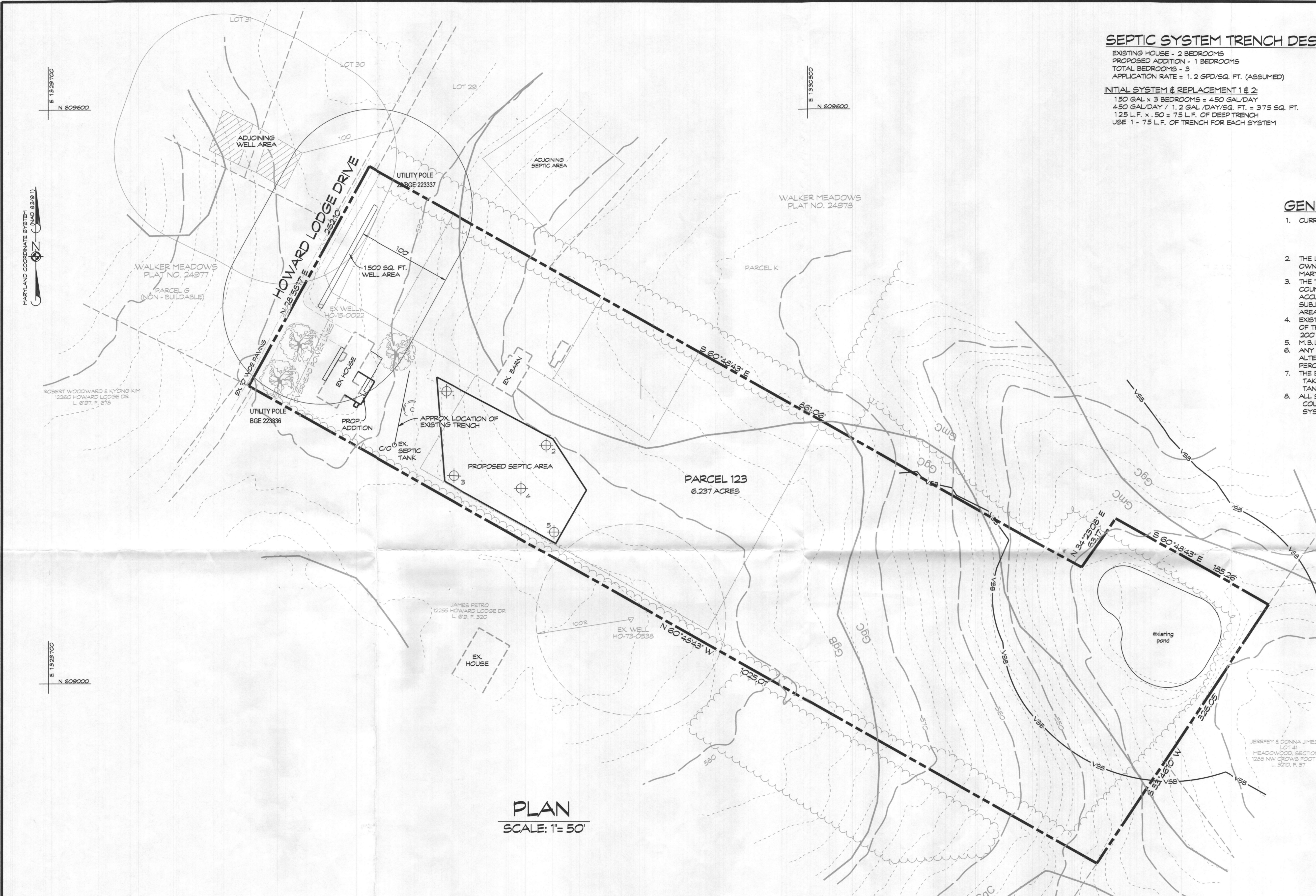
PERCOLATION CERTIFICATION PLAN
12245 HOWARD LODGE DRIVE
SPANGLER PROPERTY
 ALSO KNOWN AS 12245 HOWARD LODGE DRIVE
 LIBER 16107, FOLIO 280
 TAX MAP 9 - BLOCK 12 - PARCEL 123
 3rd ELECTION DISTRICT - HOWARD COUNTY, MD



Dennis E. Meckley
 Property Line Surveyor Reg No. 10844
 P's License Expires March 29, 2022

439 East Main Street Westminster, MD 21157-5539
 (410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By:	JLW, BM
		Designed By:	LDA
		Reviewed By:	DEM
		Date:	08-12-19
		Scale:	1" = 60'
		Job No.:	2019162
		Sheet:	1 OF 1



APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER

I HEREBY 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 MY KNOWLEDGE AND BELIEF.

DENNIS E. MECKLEY, PROPERTY LINE SURVEYOR NO. 10844
 LICENSE EXPIRES 3/29/2022

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 1970 IT PROVIDES AT LEAST ENOUGH AREA TO ACCOMMODATE AN INITIAL AND TWO REPLACEMENT SEPTIC SYSTEMS AS REQUIRED BY THE HOWARD COUNTY HEALTH DEPARTMENT. IMPROVEMENTS OF ANY NATURE IN THIS EASEMENT ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF THE MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

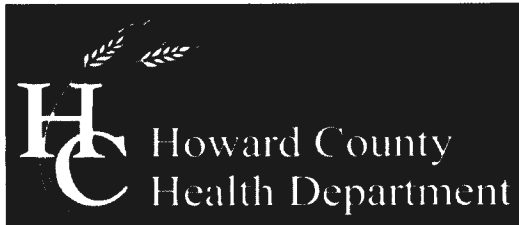
OWNER/DEVELOPER
 TONY & AMY SPANGLER
 12245 HOWARD LODGE DRIVE
 SYKESVILLE, MD 21784

LEGEND

- Proposed Perc Test
- Failed Perc Test
- Passed Perc Test
- Existing Well Location
- Soil Lines
- Denotes - Total Proposed Septic Reserve Easement Area - XXXX S.F. FOR THE PURPOSE OF LOT 1, SINGLE FAMILY RESIDENCE
- Existing Treeline

SOILS LEGEND

SOIL SYMBOL	SOIL SERIES	SOIL HSG	ERODIBLE (K-FACTOR 1-5)	HYDRIC
GgC	GLENELG LOAM	B	-	-
GmC	GLENVILLE SILT LOAM	C	+	+
GgB	GLENELG LOAM	B	-	-
GmB	GLENVILLE SILT LOAM	C/D	-	-



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

MEMORANDUM

TO: Tony Spangler
12245 Howard Lodge Rd.
Sykesville, MD 21784

FROM: Robert Freemon *RIF*
Well & Septic Program

DATE: 7/1/2019

I have reviewed the proposal for 12245 Howard Lodge Rd. and here are my comments. Prior to Health Dept. approval of a building permit for the proposed bedroom increase the following is required:

1. Percolation Certification Plan (perc cert)
2. Septic system abandonment
3. On-site sewage disposal system plan (OSDS)
4. Septic system installation.

Percolation Certification Plan: A percolation certification plan is a plan signed by the Health Dept. designating a sewage disposal area on the property. Before a perc cert can be created perc testing is required. Prior to testing the Health Dept. must receive a filled-out perc testing application, the perc permit fee of \$506 (payable to the Director of Finance) and a perc test plan. The fee for the perc permit covers the testing, plan review and certification. Homeowners will need to hire a septic contractor or a friend with a backhoe to dig holes 12-16ft deep. As for the test plan, homeowners will typically hire a civil/septic engineer who has worked with us before. Once the Health Dept. has received all three (application, fee, test plan) and we approve of the test plan we will schedule a date for perc testing. Based on the test results the engineer will finalize the perc cert and design the new OSDS.

Abandonment of Existing System: The existing septic system must be properly abandoned with documentation sent to the Health Dept. The existing septic system must be pumped out prior to crushing it in place and then filled with clean dirt. Documentation of the pumping out and crushing of the septic tank must be submitted to the Health Dept.

On-site Sewage Disposal System: An OSDS must be planned and installed with Health Dept. approval. Using the perc results and total number of bedrooms proposed/existing the engineer will design a septic plan. Once the Health Dept. approves of the septic plan a septic contractor will need to pick up the septic permit and pay the fee of \$396 (payable to the Director of Finance) prior to installation. During installation inspections will be made and a final approval may be given.