



# HOWARD COUNTY HEALTH DEPARTMENT

45090

CODES

DATE

7/9/13

A5

CASH

CHECK

NO.

1502

Received From

Bernard Deuplan

For

For Capp / Deuplan Property

One thousand twelve

44

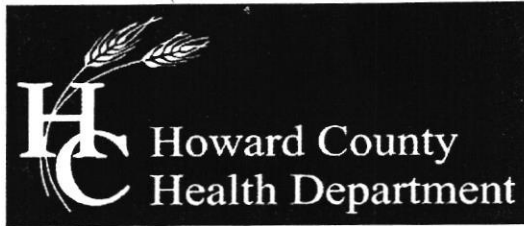
Dollars

\$

1012 00

Received By

J 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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: Jones Road

Subdivision: Duplan Property Lot: 2

Initial system: Application rate: 0.6 Effective area beginning depth: 4 Bottom maximum depth: 8

1st Replacement: Application rate: 0.8 Effective area beginning depth: 4 Bottom maximum depth: 8

2nd Replacement: Application rate: Effective area beginning depth: Bottom maximum depth:

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:

- 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 Bernard Date: 5-20-15

# Percolation Information- Jones Road

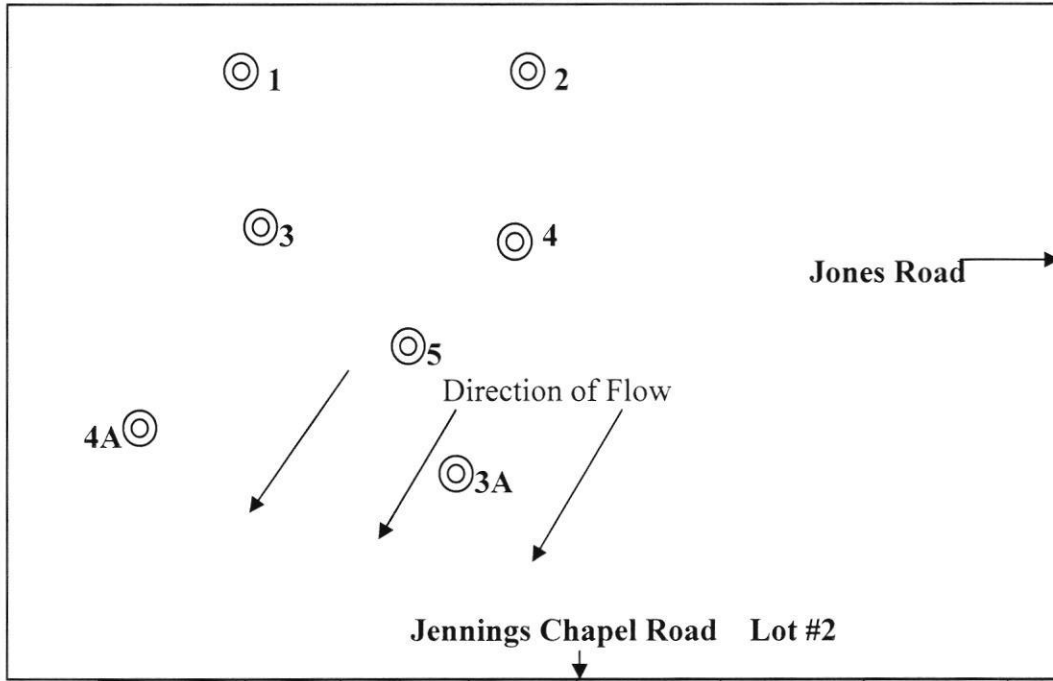
NOT TO SCALE

1

2sbk , Dk.Gray  
Black SCL  
-----0.5'

Red-Brown  
Yellow  
SCL  
Silty  
Many Mica  
-----4'

Red Brown  
Yellow  
SL  
20-30% RX  
Shist  
Moist at 9'  
Silty  
Many Mica  
-----13'



4

2sbk , Dk. Brn  
Grey, SCL  
-----0.8'

Red-Brown  
Yellow  
SCL  
Many Mica  
-----4'

Red-Brown  
Yellow  
SL  
10-20%  
Shist  
Many Mica  
Mn deposits  
-----13'

2

2sbk , Dk.Gray  
Black SCL  
-----0.5'

Red-Brown  
Yellow  
SCL  
Silty  
Many Mica  
-----4'

Red Brown  
Yellow  
SL  
20-30% RX  
Shist  
Moist at 9'  
Silty  
Many Mica  
-----13'

Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 <sup>nd</sup> Inch	P/F/H
9-18-13	1	5/ 13	11:32	12:00	----->		Fail
9-18-13	2	4.5/13	10:28	11:45	----->		Fail
9-18-13	3	4.5/13	10:48	10:54	11:04	10min	Pass
9-18-13	4	4.5/ 13.5	11:07	11:15	11:35	20 min.	Pass
9-18-13	5	4.5/ 13	11:51	11:58	12:15	17 min.	Pass
9-18-13	3A	4.5/ 13	12:11	12:14	12:17	3 min.	Pass
9-18-13	4A	4.5/ 12	12:27	12:30	12:34	4 min.	Pass

5

2sbk , Dk. Brn  
Grey, SCL  
-----0.8'

Red-Brown  
Yellow  
SCL  
Many Mica  
-----4'

Red-Brown  
Yellow  
SL  
10-20%  
Shist  
Many Mica  
Mn deposits  
-----13'

3

2sbk , Dk. Brn  
Grey, SCL  
-----0.8'

Red-Brown  
Yellow  
SCL  
Many Mica  
-----4'

Red-Brown  
Yellow  
FSL  
10-20%  
Shist  
Many Mica  
-----13'

3A

2sbk , Dk. Brn  
Grey, SCL  
-----0.8'

Red-Brown  
Yellow  
SCL ( Dense)  
Many Mica  
-----4'

Red-Brown  
Yellow  
FSL  
10-20%  
Shist  
Many Mica  
-----13'

Remarks:      Perc holes must be surveyed on Percolation       
Certification Plan.     

Sanitarian   D. Bernard           Backhoe   Level Land   Others     

Test Holes Used in SDA   5   Avg. Perc Time   10 min.   SQ.FT/BR     

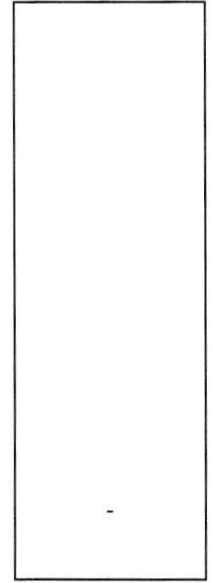
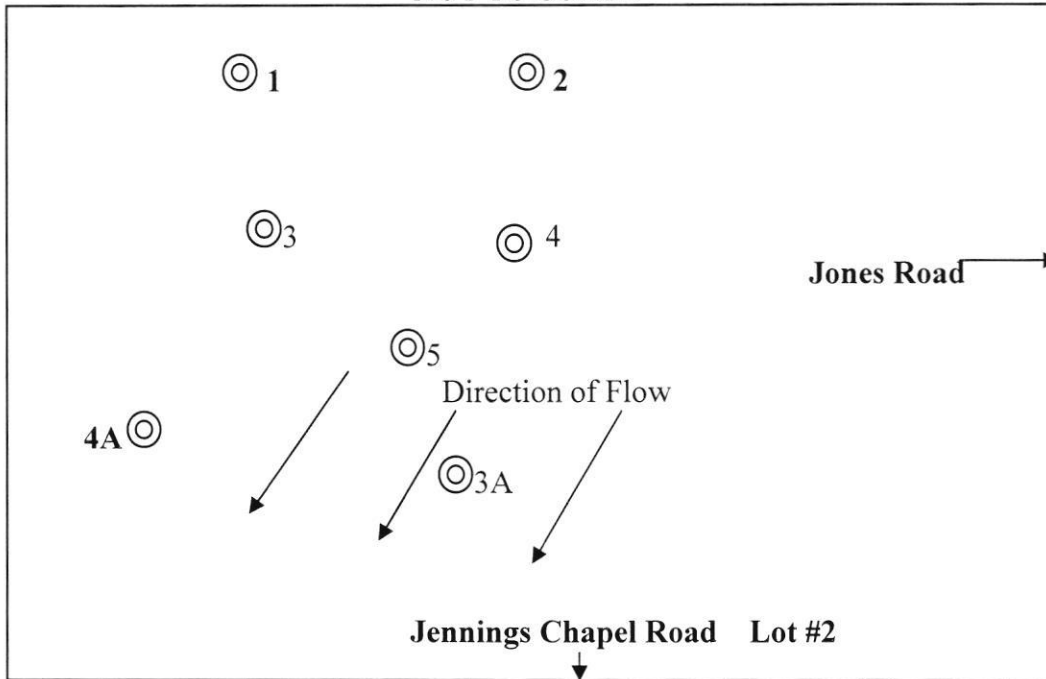
Trench Width      Inlet Depth      Max Bot.Depth   8   Effective S/W

# Percolation Information- Jones Road

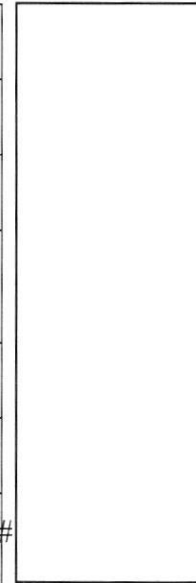
NOT TO SCALE

4A

2sbk , Dk. Brn  
 Grey, SCL  
 -----0.8'  
 Red-Brown  
 Yellow  
 SCL ( Dense)  
 Many Mica  
 -----4'  
 Red-Brown  
 Yellow  
 FSL  
 10-20%  
 Shist  
 Many Mica  
 ↓  
 -----13'



Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 <sup>nd</sup> Inch	P/F/H
9-18-13	1	5/ 13	11:32	12:00	→		Fail
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9-18-13	4A	4.5/ 12	12:27	12:30	12:34	4 min.	Pass

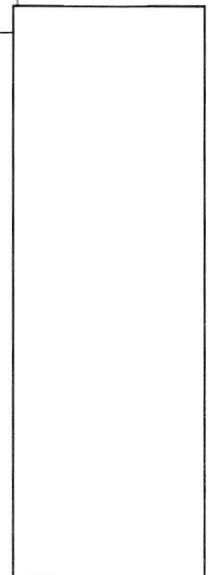


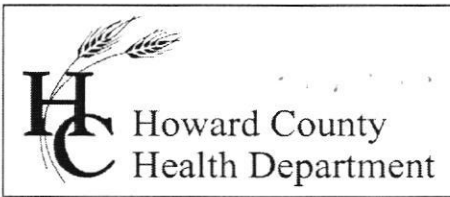
Remarks: \_\_ Perc holes must be surveyed on Percolation \_  
 Certification Plan.\_\_

Sanitarian \_D.Bernard\_\_\_\_\_ Backhoe \_Level Land Others\_\_

Test Holes Used in SDA 5 \_\_Avg. Perc Time\_\_ 10 min.\_\_ SQ.FT/BR\_\_

Trench Width \_\_ Inlet Depth \_\_Max Bot.Depth\_\_ 8 \_Effective S/W\_\_





Bureau of Environmental Health  
7178 Gateway Drive Columbia, MD 21046  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
Website: [www.hchealth.org](http://www.hchealth.org)

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

Date: October 10, 2013

To: Vanmar Associates, Inc.  
C/o Mr. T. Michael Vansant  
Via E-Mail: [tmv@vanmar.com](mailto:tmv@vanmar.com)  
310 South Main Street  
Mount Airy, Maryland 2171

RE: **Percolation Testing Report**  
**Jones Road, Tax Map 13, Parcel 87**

Mr. Vansant,

Percolation testing was conducted on the referenced property on September 18, 2013. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for 2 lots.

A total of twelve (12) test holes evaluated and ten (10) were found to be satisfactory with moderate percolation rates. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the ten (10) percolation test holes which were satisfactory. 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 planned residence.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. If you have any questions 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,

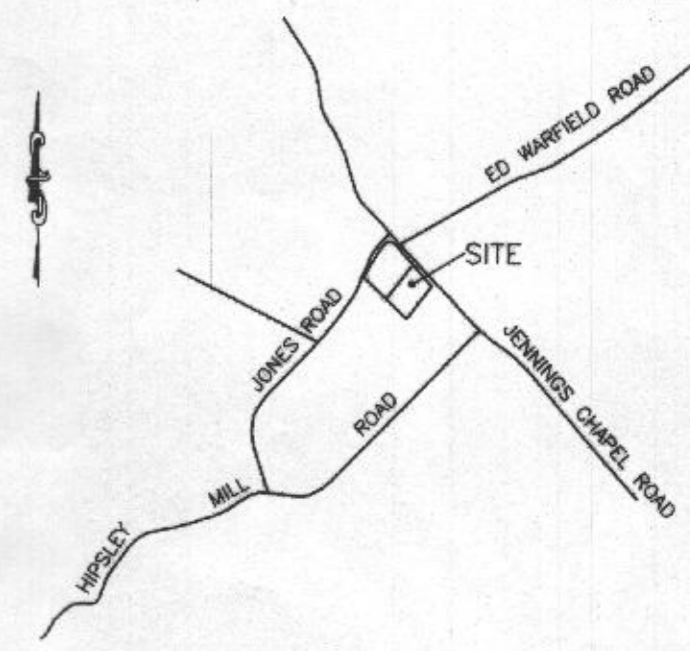
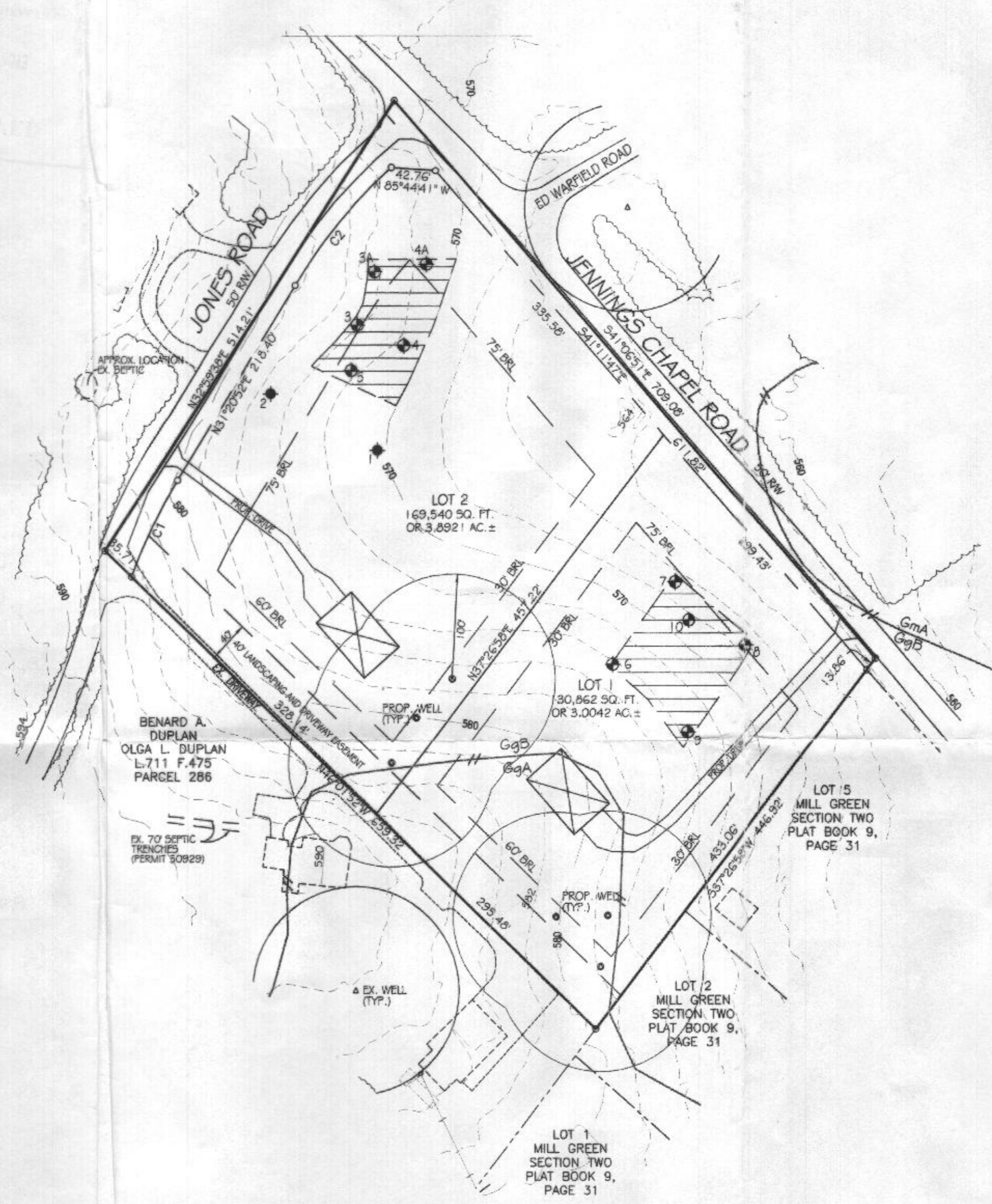
  
Dana Bernard, REHS/RS  
Environmental Specialist II  
Well and Septic Program

Enclosures (4)

File

Cc: Bernard A and Olga L. Duplan  
3211 Jones Road  
Woodbine, Maryland 21797

CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	TANGENT	CHORD BEARING	CHORD LENGTH
C1	505.00'	100.06'	11°21'11"	50.20'	S 25°40'16" W	99.90'
C2	505.00'	146.81'	16°39'25"	73.93'	S 39°40'34" W	146.30'



VICINITY MAP  
SCALE 1"=2,000'

- GENERAL NOTES:
- OWNER: BERNARD A. DUPLAN & OLGA L. DUPLAN  
DEED REFERENCE: LIBER 1102 FOLIO 002  
DATE: MAY 14, 1982  
GRANTOR: PAUL KOVAL & DOROTHY KELLY KOVAL
  - TAX MAP: 13 GRID: 22 PARCELS: 87
  - NEAREST POTABLE WATER SUPPLY: MT. AIRY DISTANCE: 6 MILES ±
  - THERE IS NO FLOOD HAZARD AREA (100 YEAR FLOODPLAIN) LOCATED ON THIS PROPERTY ACCORDING TO FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 240044 0007B.
  - TOPOGRAPHY AND PLANIMETRICS: FROM HOWARD COUNTY GIS, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
  - 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 TYPES: GLENEL (GgA, GgB), GLENVILLE (GvA, Mt. Airy (MgC) HOWARD COUNTY SOILS MAP GRID NO. 307.
  - ZONING DISTRICT: RCDEO
  - ALL WELLS TO BE DRILLED PRIOR TO FINAL PLAT SIGNATURE. IT IS THE DEVELOPERS RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS OF THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
  - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
  - ANY CHANGES TO A PRIVATE SEPTIC AREA WILL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  - THERE ARE NO WETLANDS ON THE SUBJECT PROPERTY PER THE NATIONAL WETLANDS INVENTORY.
  - THE SOURCE OF SOILS INFORMATION SHOWN HEREON IS THE NATURAL RESOURCES CONSERVATION SERVICE.

THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

(PASSED) PERCOLATION TEST SITE:

(FAILED) PERCOLATION TEST SITE:

EXISTING WELL:

PROPOSED HOUSE SITE:

PROPOSED WELL SITE:

25% OR GREATER SLOPES (THERE ARE NO 25% SLOPES ON THE SUBJECT PROPERTY):

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

*Deborah Marie Rogerson* 11/19/2013  
HOWARD COUNTY HEALTH OFFICER DATE

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, THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21266, EXPIRATION DATE 9/8/15.

*T. Michael Vansant* 11/22/2013  
T. MICHAEL VANSANT DATE

DATE	REVISIONS



PERCOLATION CERTIFICATION PLAN  
**DUPLAN PROPERTY**  
SITUATED ON THE CORNER OF JONES ROAD & JENNINGS CHAPEL ROAD  
ELECTION DISTRICT No. 4  
HOWARD COUNTY, MD  
SCALE 1"=100' OCTOBER, 2013

**VANMAR ASSOCIATES, INC.**  
Engineers Surveyors Planners  
310 South Main Street Mount Airy, Maryland 21771  
(301) 829-2890 (301) 831-5015 (410) 549-2751  
Fax (301) 831-5603 ©Copyright, Latest Date Shown