



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

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

Ⓢ/P 544517

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

DATE 1-25-13

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

LOT 1

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH UNKNOWN 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) PATRICK & LOUISE HINKSON

DAYTIME PHONE ~~410-271-1111~~ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 11755 BRAGDON WOOD CLARKSVILLE MD 21029  
STREET CITY/TOWN STATE ZIP

APPLICANT MICHAEL BALAKIRSKY

DAYTIME PHONE (410) 730-1481 CELL (410) 340-7823 FAX \_\_\_\_\_

MAILING ADDRESS 12051 LITTLE PATUXENT PARKWAY, COLUMBIA, MD., 21044  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME NORTHWEST END OF BRAGDON WOOD, JUST OFF CHAPEL ESTATES DRIVE LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 11755 BRAGDON WOOD CLARKSVILLE MD 21029  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 29 GRID 14 PARCEL(S) A2 PROPOSED LOT SIZE 3.0 AC.

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.

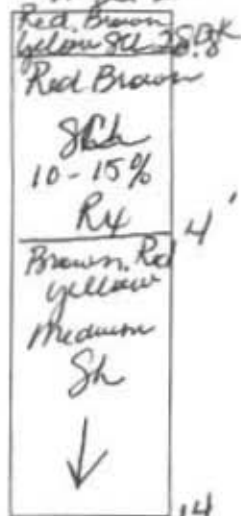
SIGNATURE OF APPLICANT

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

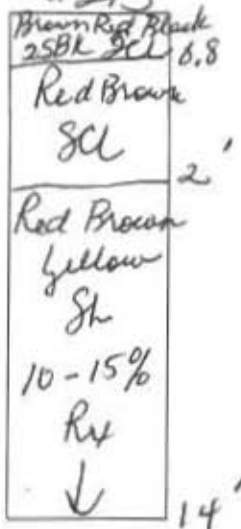
NP 544517

NTS

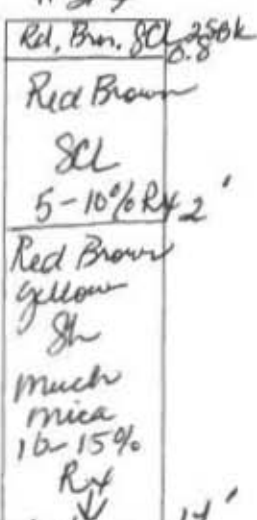
# 212



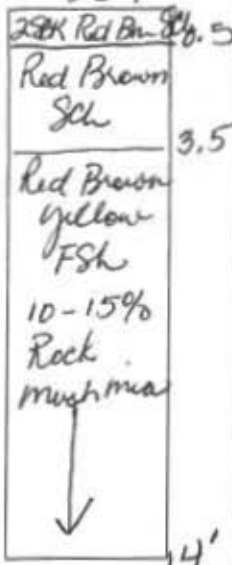
# 213



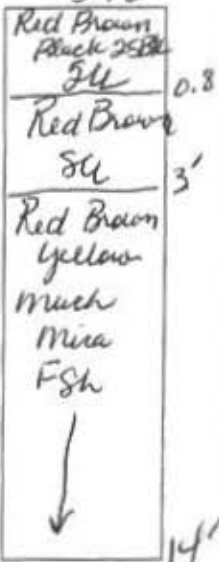
# 214



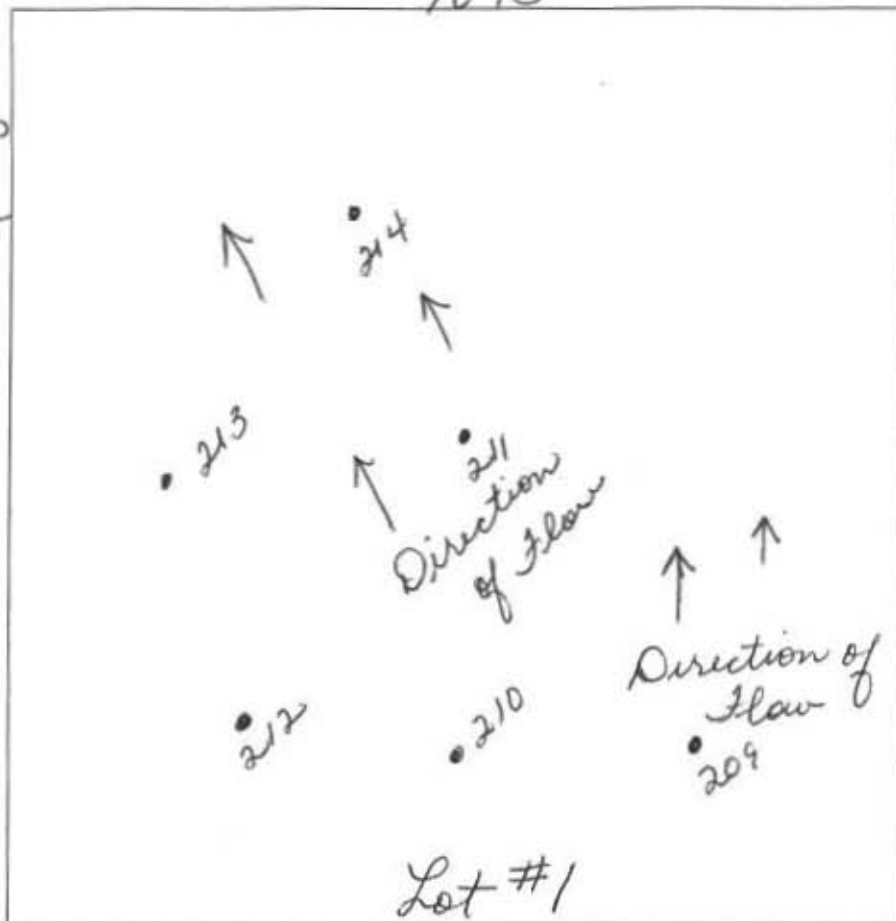
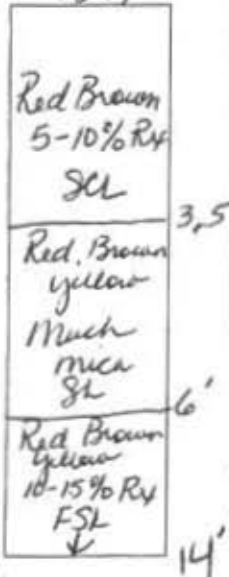
#209



#210



#211

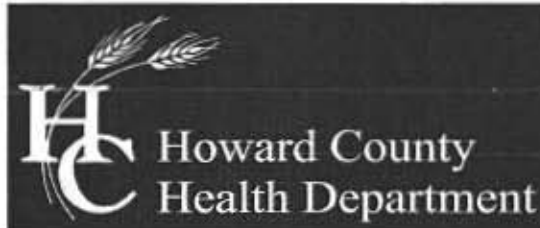


DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2-13-13	209	4/14	12:30	12:32	12:34	2min	P
2-13-13	210	4/14	12:20	12:22	12:25	3min	P
2-13-13	211	4/14	2:11	2:14	2:20	6min	P
2-13-13	212	4/14	2:00	2:02	2:06	4min	P
2-13-13	213	4/14	2:01	2:03	2:07	5min	P
2-13-13	214	3/14	2:27	2:29	2:31	3min	P

REMARKS Existing Septic System will have to be upgraded. 2 Wells on site one will have to be abandoned.

SANITARIAN: Bernard BACKHOE: Bill Ingram OTHERS: \_\_\_\_\_  
 TEST HOLES USED IN SDA: 5 AVG. PERC TIME: \_\_\_\_\_ SQ FT/BR: \_\_\_\_\_  
 TRENCH WIDTH: \_\_\_\_\_ INLET DEPTH: \_\_\_\_\_ MAX. BOT DEPTH: \_\_\_\_\_ EFFECTIVE SAW: \_\_\_\_\_

After PC Lot #1



**Bureau of Environmental Health**

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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](http://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

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

---

Date: February 20, 2013

To: Shanaberger & Lane.  
C/o Scott Shanaberger  
8726 Town & Country Blvd. Suite 201  
Ellicott City, Maryland 21043

RE: **Percolation Testing Report**  
**Hinkson Property, Lots #1 and #2, Tax Map 45, Parcel 9**

Percolation testing was conducted on the referenced property on February 13, 2013. The purpose for conducting percolation testing was for an anticipated establishment of new sewage disposal areas for an existing house and a proposed lot. The new disposal area will be used to redesign septic area to accommodate the existing house and to establish a new lot by subdividing the original lot.

A total of eighteen (18) test holes evaluated. Ten (10) were found to be satisfactory with moderate percolation rates and eight (8) were found to be unsatisfactory. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation. The existing lot contained 2 wells and one must be abandoned. The existing house also must upgrade the septic system to the "Best Available Technology" due to the location of the existing septic system and because the system is not up to our current standards. The 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. When submitting your Percolation Certification Plan please make sure you include all surrounding wells and septic systems. 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,

A handwritten signature in cursive script that reads 'Dana Bernard'.

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

Cc: File

Applicant Homeowner- Michael Balakirsky

12051 Little Patuxent Parkway Columbia, Maryland 21044

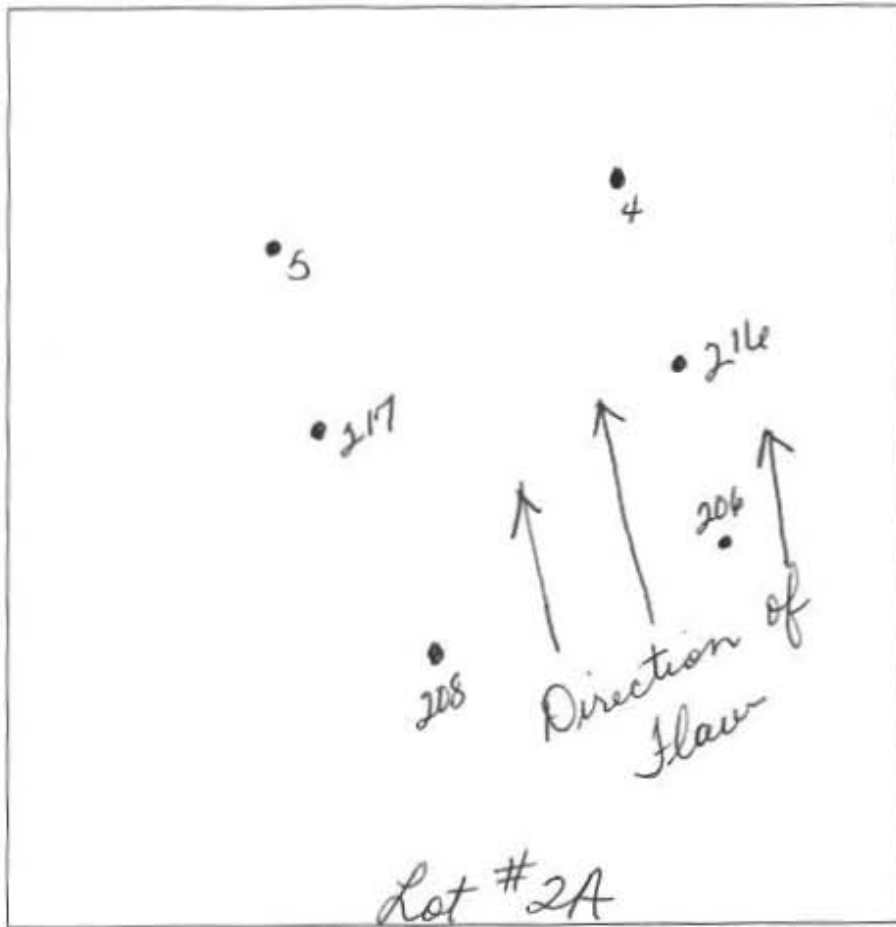
# NTS

AP 544517

#4  
~~Red Brown Grey Shl 2584~~  
 Red Brown Shl  
 Refusal  
 @ 4'  
 4'

#5  
~~Red Brown Grey Shl 2584~~  
 Red Brown Shl  
 Refusal  
 @ 6'  
 6'

#206  
~~Red Brown Yellow Shl 2584~~  
 Red Brown Shl  
 5-10% Ry  
 Red Brown Shl  
 5-10% Ry  
 much mica  
 ↓  
 14'



#208  
~~Red Brown Shl 2584~~ 0.8  
 Red Brown Shl 3'  
 Red Brown yellow Shl  
 much mica  
 ↓  
 14'

#216  
~~Red Brown Shl 2584~~ 0.5  
 Red Brown Heavy Shl 3'  
 Red Brn Medium Shl  
 10-20% Ry  
 ↓  
 14'

#217  
~~Brown Red Shl 2584~~ 0.5  
 Red Brown Heavy Shl 3'  
 Red Brown Medium Shl  
 10-20% Ry  
 ↓  
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2-13-13	4	Refusal @ 4'					F
2-13-13	5	Refusal @ 6'					F
2-13-13	206	Visual Pass					P
2-13-13	208	3/14	12:10	12:12	12:16	4 min	P
2-13-13	216	3/14	11:55	12:05	12:20	15 min	P
2-13-13	217	4/14	11:52	12:02	12:17	15 min	P

REMARKS Test #4 & #5 Cannot be used in Septic Casement

SANITARIAN Obernoid BACKHOE Bill Ingram OTHERS \_\_\_\_\_

TEST HOLES USED IN SDA 5 AVG. PERC TIME \_\_\_\_\_ SQ. FT./BR \_\_\_\_\_

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

after PC Lot #2

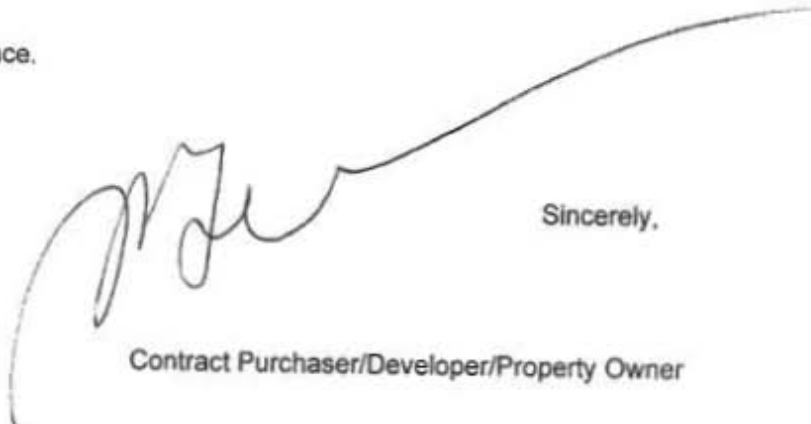
March 21, 2013

Howard County Department Health Department  
Bureau of Environmental Health  
7178 Columbia Gateway Drive  
Columbia, MD. 21046  
Att: Mr. Bert Nixon, Director  
re: Hinkson Property

Dear Mr. Nixon:

I request that the proposed well area for Lot 2 shown on the Perc Certification Plat for the Hinkson Property (prepared by Shanaberger & Lane) be approved. It is understood that the well areas is downgradient from the proposed septic areas on Lots 1 and 2. The proposed well area for Lot 2 is greater than 200 feet from those septic areas. A downgradient well area was approved next door on the adjoining lot of the Chapel Rise subdivision.







Thank you for your assistance.

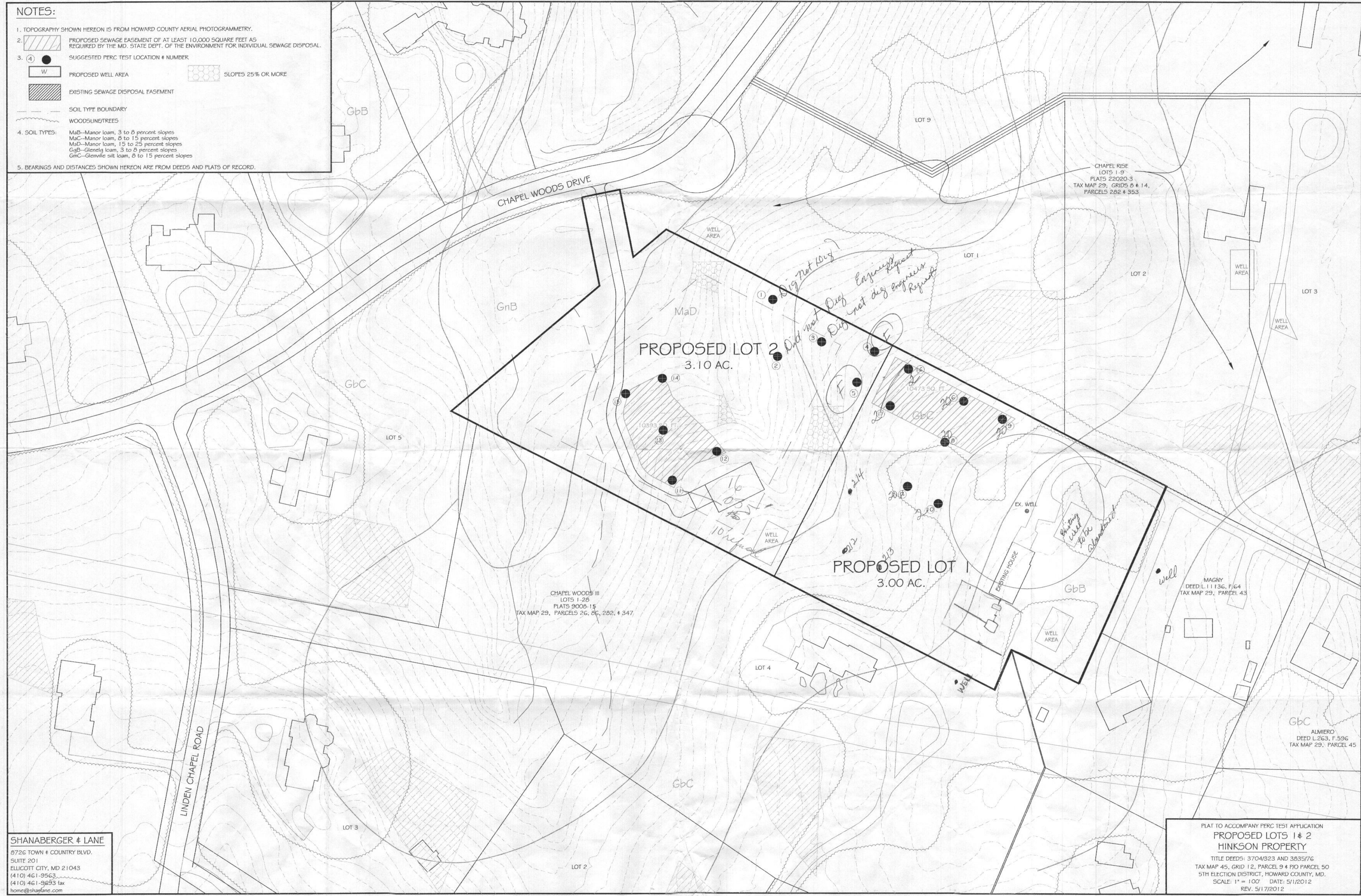
A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the right.

Sincerely,

Contract Purchaser/Developer/Property Owner

**NOTES:**

1. TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY AERIAL PHOTOGRAMMETRY.
2.  PROPOSED SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MD. STATE DEPT. OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL.
3.  SUGGESTED PERC TEST LOCATION # NUMBER
-  PROPOSED WELL AREA
-  EXISTING SEWAGE DISPOSAL EASEMENT
-  SOIL TYPE BOUNDARY
-  WOODS/LINE/TREES
4. SOIL TYPES:  
 MaB—Manor loam, 3 to 8 percent slopes  
 MaC—Manor loam, 8 to 15 percent slopes  
 MaD—Manor loam, 15 to 25 percent slopes  
 GcB—Gleney loam, 3 to 8 percent slopes  
 GmC—Glenville silt loam, 8 to 15 percent slopes
5. BEARINGS AND DISTANCES SHOWN HEREON ARE FROM DEEDS AND PLATS OF RECORD.



**SHANABERGER & LANE**  
 8726 TOWN & COUNTRY BLVD.  
 SUITE 201  
 ELLICOTT CITY, MD 21043  
 (410) 461-9563  
 (410) 461-3693 fax  
 home@shanlane.com

PLAT TO ACCOMPANY PERC TEST APPLICATION  
**PROPOSED LOTS 1 & 2**  
**HINKSON PROPERTY**  
 TITLE DEEDS: 3704/323 AND 3835/76  
 TAX MAP 45, GRID 12, PARCEL 9 & P/O PARCEL 50  
 5TH ELECTION DISTRICT, HOWARD COUNTY, MD.  
 SCALE: 1" = 100' DATE: 5/1/2012  
 REV: 5/17/2012

**NOTES:**

1. TOPOGRAPHY SHOWN HEREON IS HOWARD COUNTY AERIAL TOPOGRAPHY. VERIFICATION ELEVATIONS HAVE BEEN FIELD RUN BY SHANBERGER & LANE AT EACH PERC HOLE.

2. ——— DESIGNATES PROPERTY LINE.

3. [Hatched Area] DESIGNATES EXISTING PRIVATE SEWAGE EASEMENT.

4. MaD DESIGNATES SOIL TYPE BOUNDARY

5. ● DESIGNATES SUCCESSFUL PERC TEST

○ DESIGNATES FAILED PERC TEST

6. [House Outline] DESIGNATES PROPOSED HOUSE SITE

7. [Dashed Line] DESIGNATES WOODS LINE

8. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

9. SOIL TYPES PRESENT ON PROPOSED LOTS:

- MaB—MANOR LOAM, 3 TO 8 PERCENT SLOPES
- MaC—MANOR LOAM, 8 TO 15 PERCENT SLOPES
- MaD—MANOR LOAM, 15 TO 25 PERCENT SLOPES
- GgB—GLENELG LOAM, 3 TO 8 PERCENT SLOPES
- GmC—GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES

10. ANY CHANGE TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.

11. ALL KNOWN EXISTING WELLS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND WELLS WITHIN 200' DOWNSLOPE OF THE PROPOSED SDA HAVE BEEN SHOWN PER FIELD LOCATION WHEN POSSIBLE AND PER AVAILABLE RECORDS WHEN NOT POSSIBLE.

12. [Hatched Area] THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE 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 VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

13. THE WELL ON LOT 2 MUST BE DRILLED AND THE WELL COMPLETION REPORT RECEIVED BY THE HEALTH DEPARTMENT AND APPROVED PRIOR TO RECORD THAT SUBMITTAL. GbC

14. "The Maryland Department of the Environment has approved the location of the well on lot 2 downgradient of the on-site sewage disposal system with the condition that the well can be constructed with steel casing extending to a depth of 50' or 10' competent bedrock whichever is deeper and that the sewage disposal system will utilize Best Available Technology for nitrogen reduction and a low pressure dosed distribution system."

CHAPEL WOODS III  
LOTS 1-28  
PLATS 9008-15  
TAX MAP 29, PARCELS 26, 86, 282, &  
347

**SHANBERGER & LANE**

8726 TOWN & COUNTRY BLVD.  
SUITE 201  
ELICOTT CITY, MD 21043  
(410) 461-9563  
(410) 461-9693 fax  
home@shanlane.com

PERC CERTIFICATION: I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON REFLECTS FIELD WORK DONE BY ME OR UNDER MY DIRECT SUPERVISION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

*Scott Shanaberger*  
G. SCOTT SHANBERGER  
PROFESSIONAL LAND SURVEYOR #10849  
LICENSE EXPIRATION DATE 4/2/2014



APPROVED:  
FOR PRIVATE WATER AND SEWAGE SYSTEMS

*Maura Rogman* 4/5/13  
COUNTY HEALTH OFFICER DATE

**PLAN B**

PERC CERTIFICATION PLAT  
PROPOSED LOTS 1 & 2  
HINKSON PROPERTY

TITLE DEEDS: 501/789, 860/250, AND 1885/160  
TAX MAP 29, GRID 14, PARCEL 42  
5TH ELECTION DISTRICT, HOWARD COUNTY, MD.  
SCALE: 1" = 60' DATE: 2/28/2013