

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 545050

AGENCY REVIEW: _____

DATE 5-21-13

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

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 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) Kevin & Kyong Son

DAYTIME PHONE CELL 240-731-0792 FAX

MAILING ADDRESS 830 North Rolling Rd. Catonsville MD 21228
STREET CITY/TOWN STATE ZIP

APPLICANT BPR, Inc. Kandy Bachtel RBachtel@BPRSurveys.com

DAYTIME PHONE 410-857-9030 CELL FAX 410-876-1532

MAILING ADDRESS 105 Airport Dr. Suite 4 Westminster MD 21157
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME N/A Existing Lot LOT NO. N/A

PROPERTY ADDRESS 2830 Marriottsville Rd
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 16 GRID 16 PARCEL(S) 47 PROPOSED LOT SIZE 3.1137 Acs.

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. Gandy L. Bachtel
SIGNATURE OF APPLICANT

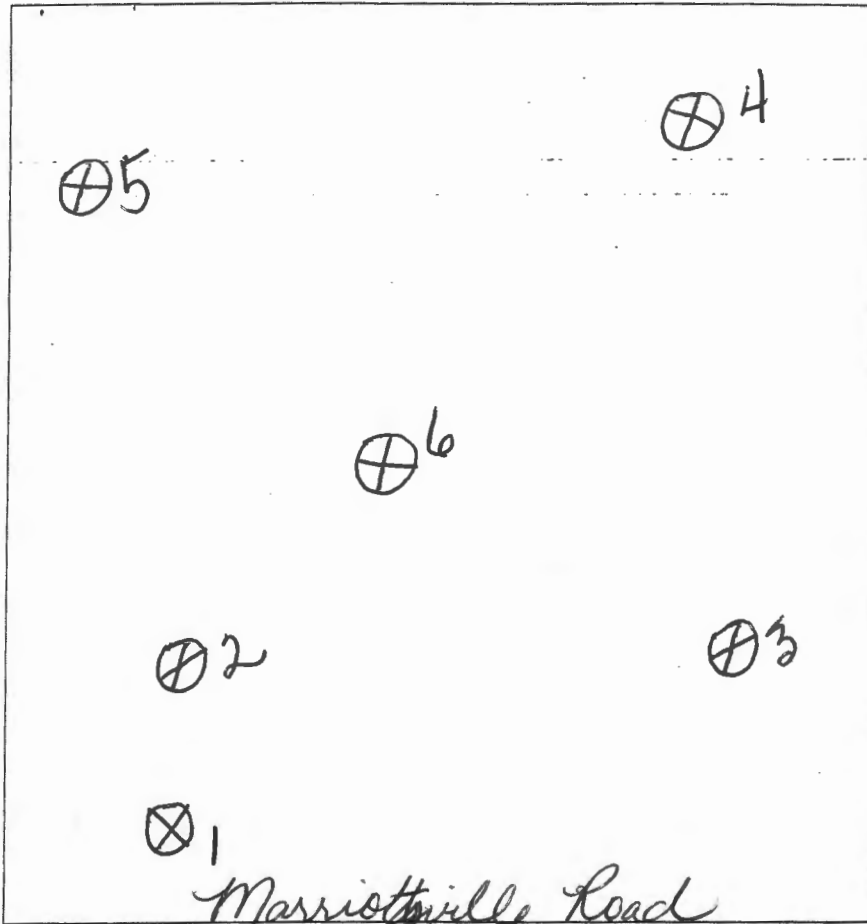
HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P _____

#1
 Red Brown
 Dense
 SCL
 5'
 Red Brown
 Sh
 much
 mica
 5-10% Rx
 H₂O
 @
 8'
 8'

#2
 Red Brown
 SCL
 3'
 Red Brown
 yellow Sh
 many mica
 5-10%
 Rx
 13'
 Red Brown
 grey
 FSh
 H₂O seeping
 @ 14'
 14'

#3
 Red Brown
 SCL
 (Dense)
 5'
 Red Brown
 yellow
 Dense
 Sh
 10-20%
 Rx
 many
 mica
 ↓
 14'



#4
 Red Brown
 SCL
 many
 mica
 3'
 Red Brown
 yellow
 Sh
 5-10%
 Rx
 ↓
 14'

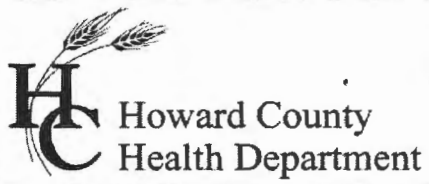
#5
 Red Brown
 SCL
 3'
 Red Brown
 yellow
 Sh
 6'
 Red Brown
 yellow
 Band
 @ 6'
 10-15% Rx
 FSh
 ↓
 14'

#6
 Red Brown
 SCL
 4'
 Red Brown
 yellow
 many FSh
 mica
 10-20%
 Rx (sm)
 ↓
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H	
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6-12-13	4	5/14	11:17	11:23	11:31	8 min	P	
6-12-13	5	5/14	11:39	11:52	12:13	21 min	P	
6-12-13	6	14	Usual		Pass		P	

REMARKS But Installation Required + Pump-Jack (Public H₂O)
 SANITARIAN DB BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

* Existing Well to be Abandoned.
 @ Septic Existing to be Abandoned.



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

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

Date: June 17, 2013

To: BPR, Inc.
C/o Randy Bachtel
Via E-Mail: RBachtel@BPRSurveying.com
105 Airport Drive Suite 4
Westminster, Maryland 21157

RE: **Percolation Testing Report**
2830 Marriottsville Road, Tax Map 16, Parcel 47


Mr. Bachtel,

Percolation testing was conducted on the referenced property on June 12, 2013. The purpose for conducting these percolation tests were for an anticipated establishment of a sewage disposal area for a proposed house.

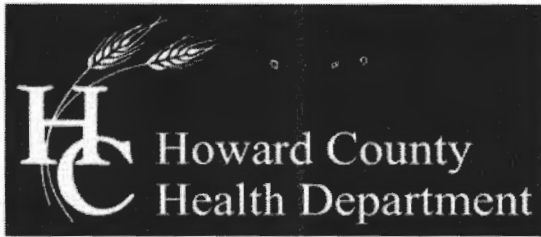
A total of six (6) test holes were evaluated and five (5) were found to be satisfactory with moderate percolation rates and one (1) was unsatisfactory. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the five (5) percolation test holes which were satisfactory. The septic system on the existing lot did not show signs of failure but must be abandoned along with the well on the existing lot. 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 (1)
File



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: 2830 Marriottsville Rd

Subdivision: _____ Lot: _____

Initial system: Application rate: 0.8 Effective area beginning depth: 5' Bottom maximum depth: 8'
1st Replacement: Application rate: 0.8 Effective area beginning depth: 5' 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:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 6' for 2' wide trenches, 9' for 3' wide trenches. Additional spacing may be needed for deep trenches using formula: $2D + W$
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:



HOWARD COUNTY HEALTH DEPARTMENT

45050

CODES

DATE 5/21/13

A5

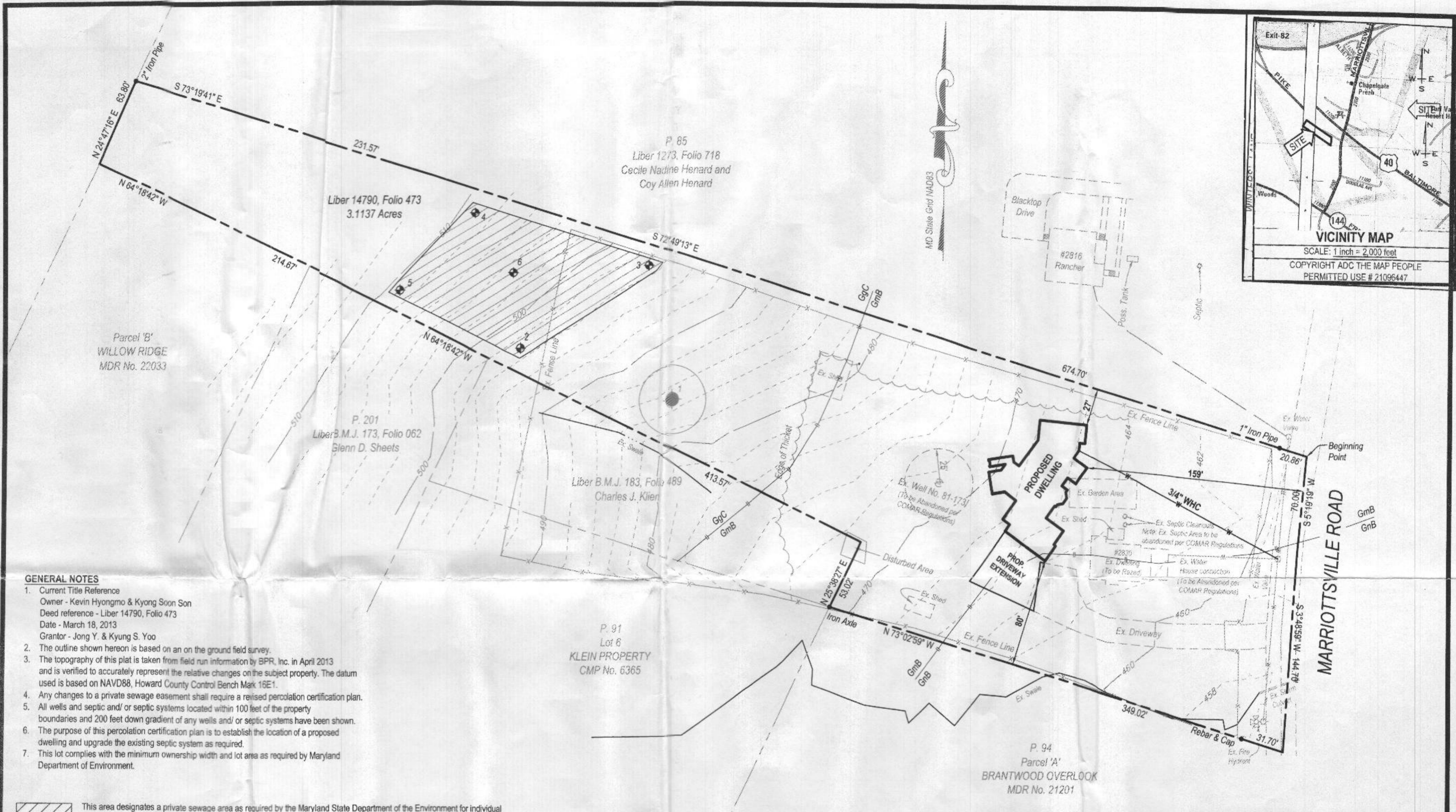
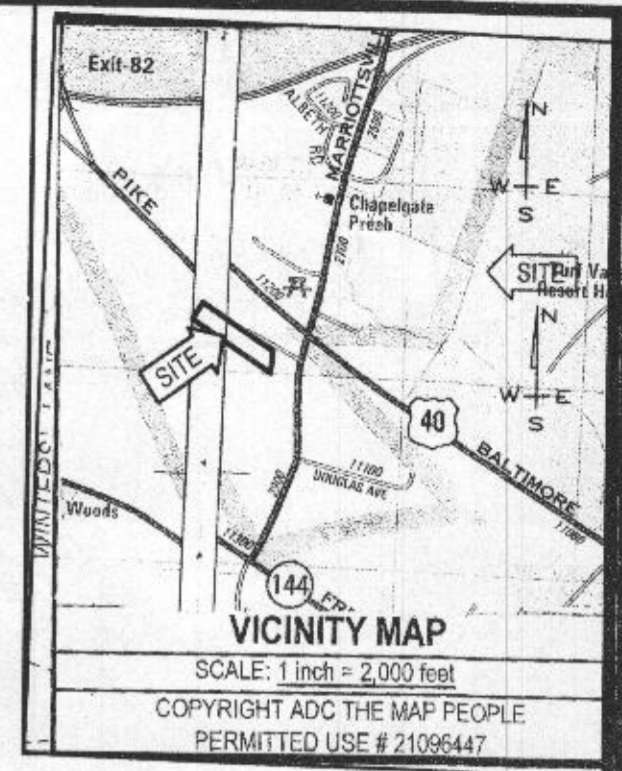
CASH
 CHECK
 NO. 228

Received From Kevin H. Son
 For Peric App / 2830 Marriottsville Rd.

Five hundred six ⁴⁴/₁₀₀ Dollars


\$ 506.44

Received By [Signature]



GENERAL NOTES

- Current Title Reference
Owner - Kevin Hyongmo & Kyong Soon Son
Deed reference - Liber 14790, Folio 473
Date - March 18, 2013
Grantor - Jong Y. & Kyung S. Yoo
- The outline shown hereon is based on an on the ground field survey.
- The topography of this plat is taken from field run information by BPR, Inc. in April 2013 and is verified to accurately represent the relative changes on the subject property. The datum used is based on NAVD88, Howard County Control Bench Mark 16E1.
- Any changes to a private sewage easement shall require a revised percolation certification plan.
- All wells and septic and/or septic systems located within 100 feet of the property boundaries and 200 feet down gradient of any wells and/or septic systems have been shown.
- The purpose of this percolation certification plan is to establish the location of a proposed dwelling and upgrade the existing septic system as required.
- This lot complies with the minimum ownership width and lot area as required by Maryland Department of Environment.

 This area designates a private sewage area as required by the Maryland State Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 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 area are restricted until public sewerage is available. This area 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 sewage area. Recordation of modified sewage area shall not be necessary.

P. 91
Lot 6
KLEIN PROPERTY
CMP No. 6365

P. 94
Parcel 'A'
BRANTWOOD OVERLOOK
MDR No. 21201

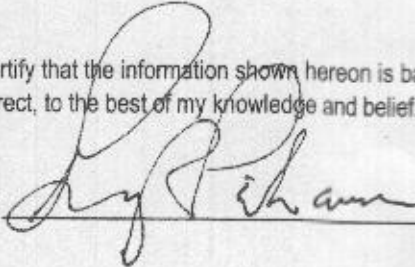
PERCOLATION TEST RESULTS

DATE	TEST No.	DEPTH	START	Break 1" Drop	Break 2" Drop	Time of 2nd Inch	P/F/H
06-12-13	1	8		H ₂ O @ 8 feet (No Buffer)			F
06-12-13	2	5/14	10:27	10:46	10:31	7 min	P
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06-12-13	5	5/14	11:39	10:48	11:52	21 min	P
06-12-13	6	14		Visual Pass			P

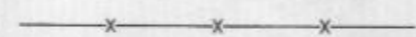
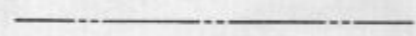




PERCOLATION CERTIFICATION PLAN
#2830 MARRIOTTVILLE ROAD
KEVIN HYONGMO & KYONG SOON SON PROPERTY

RECORDED IN LIBER 14790, FOLIO 473
3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP - 16 GRID - 16 PARCEL - 47

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 my knowledge and belief.

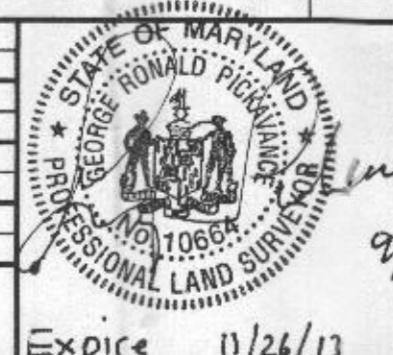
By:  Date 9/04/13

SURVEY LEGEND

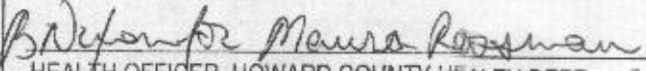
-  FENCE LINE
-  SUBJECT BOUNDARY
-  ADJOINING BOUNDARY
-  MINOR CONTOURS
-  MAJOR CONTOURS
-  PASSED PERCOLATION TEST

OWNER/ DEVELOPER	DATE	REVISIONS	BY
Kevin Son 2830 Marriottsville Road Marriottsville, MD 21104 (240) 731-0792	6/20/13	Revised Septic Area & Added perc results	BSJ
	8/9/13	Revised signature block	MOB
	9/4/13	Added House and Septic P. 85	MOB

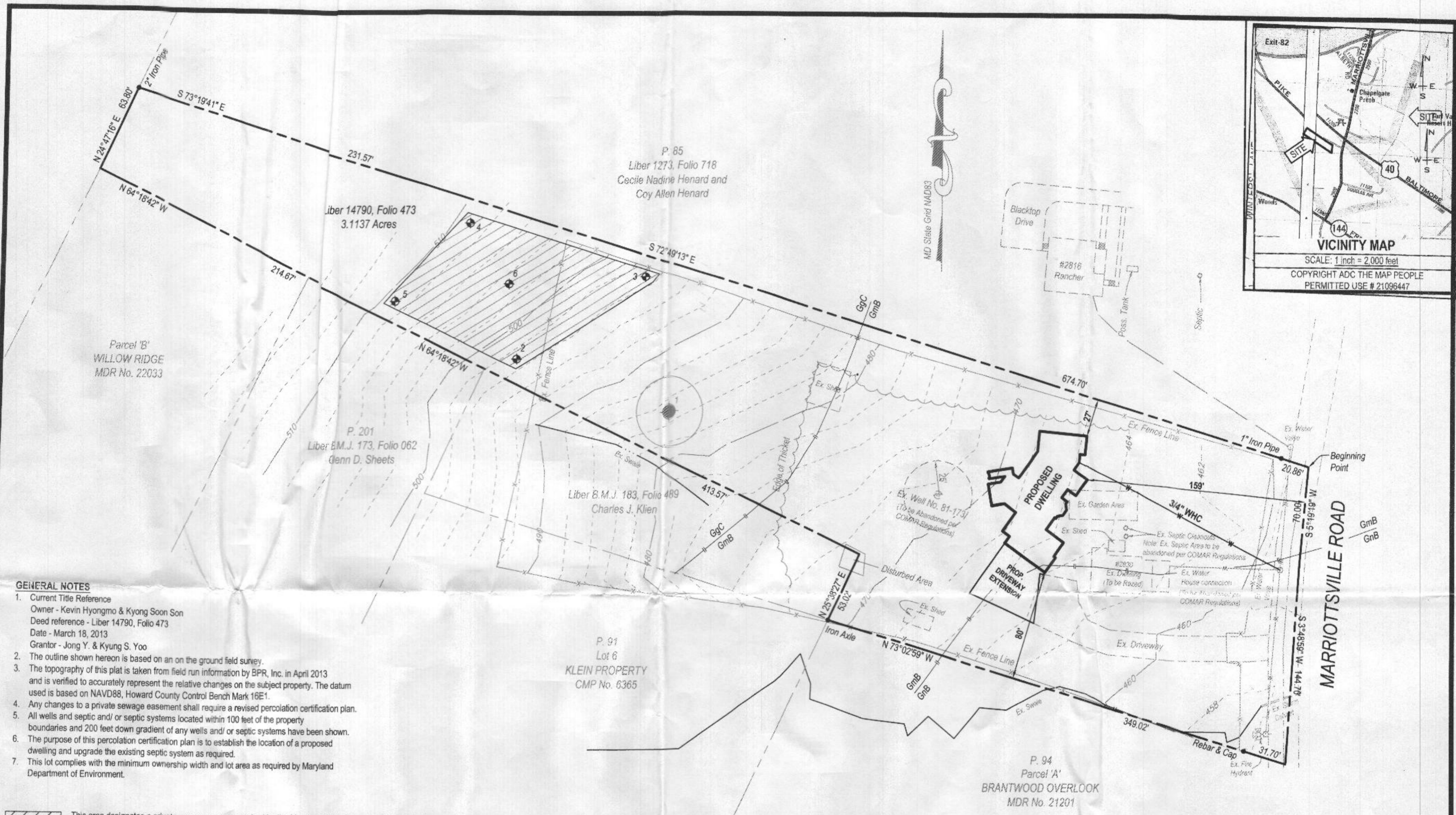
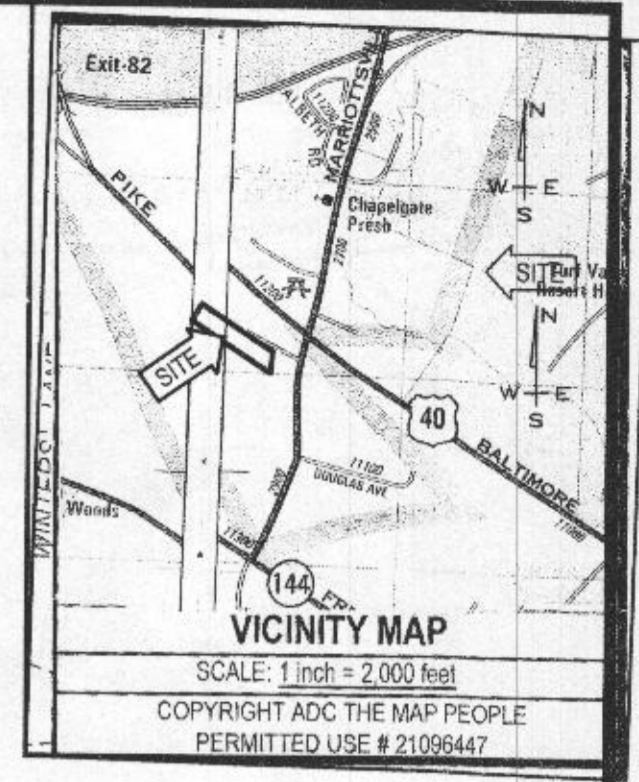
BPR INC
SURVEYORS - LAND PLANNERS
150 Airport Drive
Suite 4
Westminster, Maryland 21157
Phone: (410)-857-9030
or (410)-876-0333
Fax: (410)-876-1532
www.bprsurveying.com



Date: May 14, 2013 Scale: 1 inch = 50 feet

"APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS"

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE 9/18/2013

A licensed Maryland Surveyor either personally prepared the Survey as shown hereon, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with chapter 09.13.06.12 of the Maryland Minimum Standards of Practice for Land Surveyors.



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KEVIN HYONGMO & KYONG SOON SON PROPERTY

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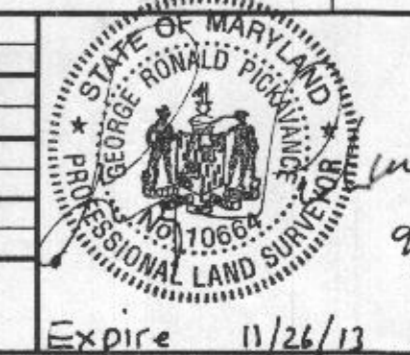
By: *[Signature]* Date 9/04/13

SURVEY LEGEND

- x --- x --- x --- FENCE LINE
- SUBJECT BOUNDARY
- ADJOINING BOUNDARY
- 100 ----- MINOR CONTOURS
- 102 ----- MAJOR CONTOURS
- PASSED PERCOLATION TEST

OWNER/ DEVELOPER	DATE	REVISIONS	BY
Kevin Son 2830 Marriottville Road Marriottville, MD 21104 (240) 731-0792	6/20/13	Revised Septic Area & Added perc results	BSJ
	8/8/13	Revised signature block	MDB
	9/4/13	Added House and Septic P. 85	MDB

Surveyed By	BPR
Computed By	BPR
Drawn By	BPR
Checked By	BPR
Drawing No.	13-027-000

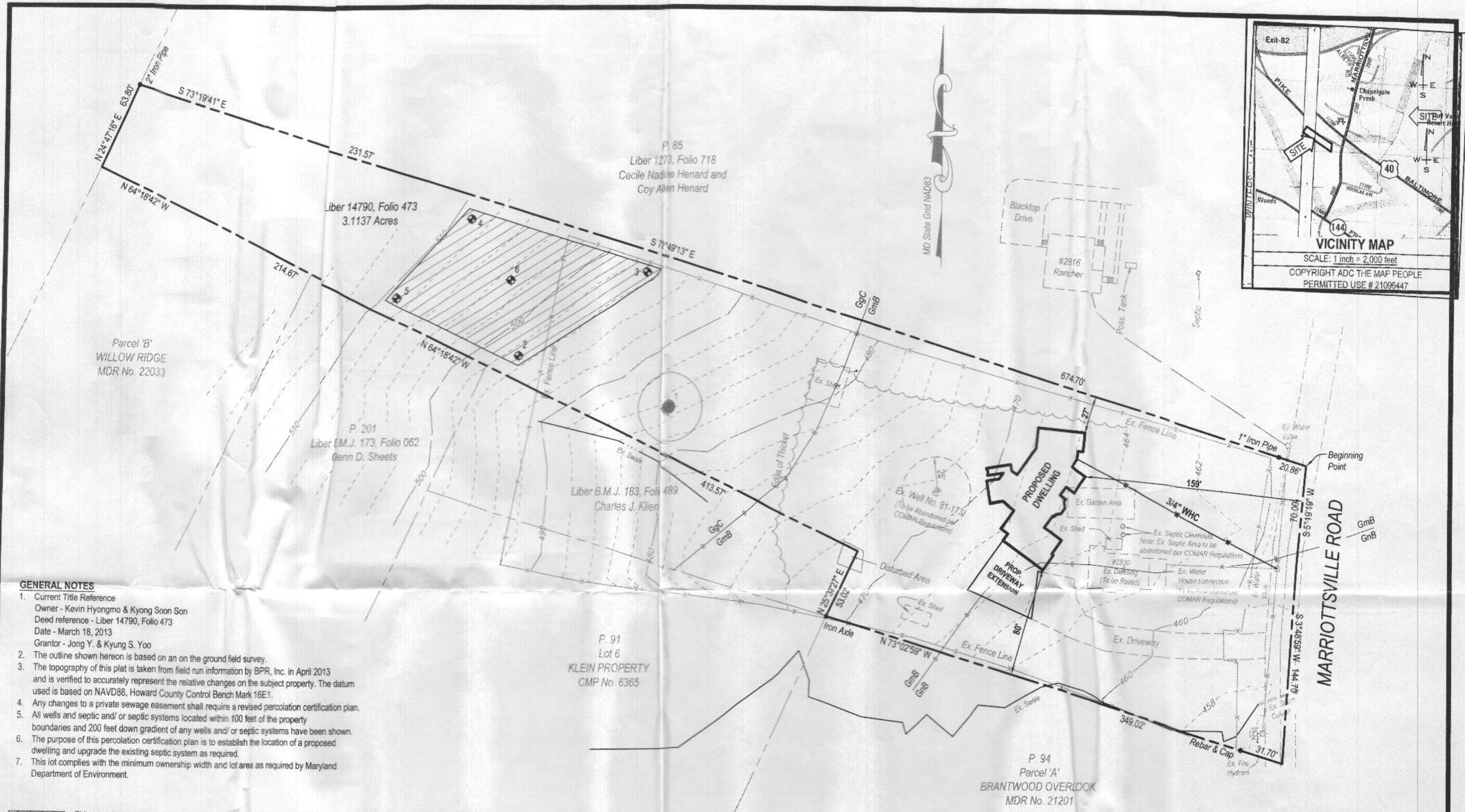


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APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS


[Signature] DATE 9/18/2013
 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT.

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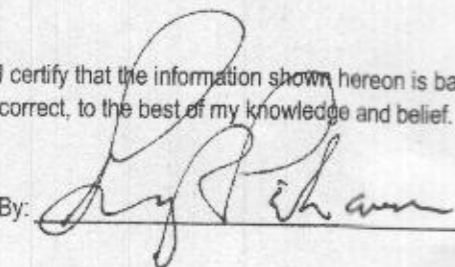
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PERCOLATION TEST RESULTS

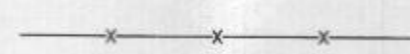
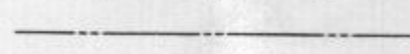
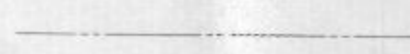
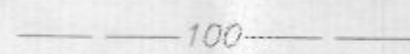
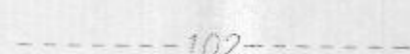

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#2830 MARIOTTVILLE ROAD
KEVIN HYONGMO & KYONG SOON SON PROPERTY
 RECORDED IN LIBER 14790, FOLIO 473
 3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
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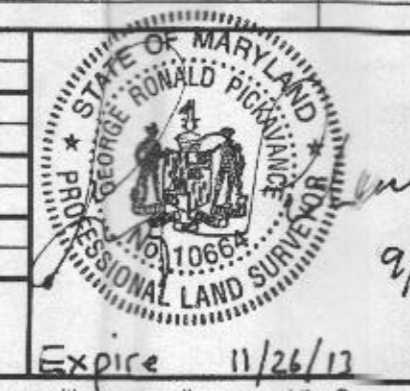
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By:  Date: 9/04/13

SURVEY LEGEND

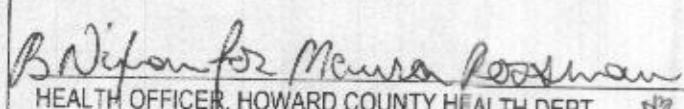
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Surveyed By BPR			
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Checked By BPR			
Drawing No. 13-027-000			



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 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

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