

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

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

AVP 530213

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

DATE 10/28/08

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) Byong Choi

DAYTIME PHONE 202-391-4455 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 7122 Deer Valley Rd. Highland, Md. 20777  
STREET CITY/TOWN STATE ZIP

APPLICANT Charles Jenkins / Jenkins Bros Septic Svc Inc

DAYTIME PHONE 410 465 6646 CELL 410 971 8188 FAX 410 552-1100

MAILING ADDRESS 7670 Smiths Private Rd Sykesville, Md 2  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME \_\_\_\_\_ LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 7122 Deer Valley Rd Highland, Md. 20777  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) \_\_\_\_\_ GRID \_\_\_\_\_ PARCEL(S) \_\_\_\_\_ PROPOSED LOT SIZE \_\_\_\_\_

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.

Charles M Jenkins  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

AP \_\_\_\_\_

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Empty rectangular box for notes or data.

Large empty rectangular box for notes or data.

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DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H

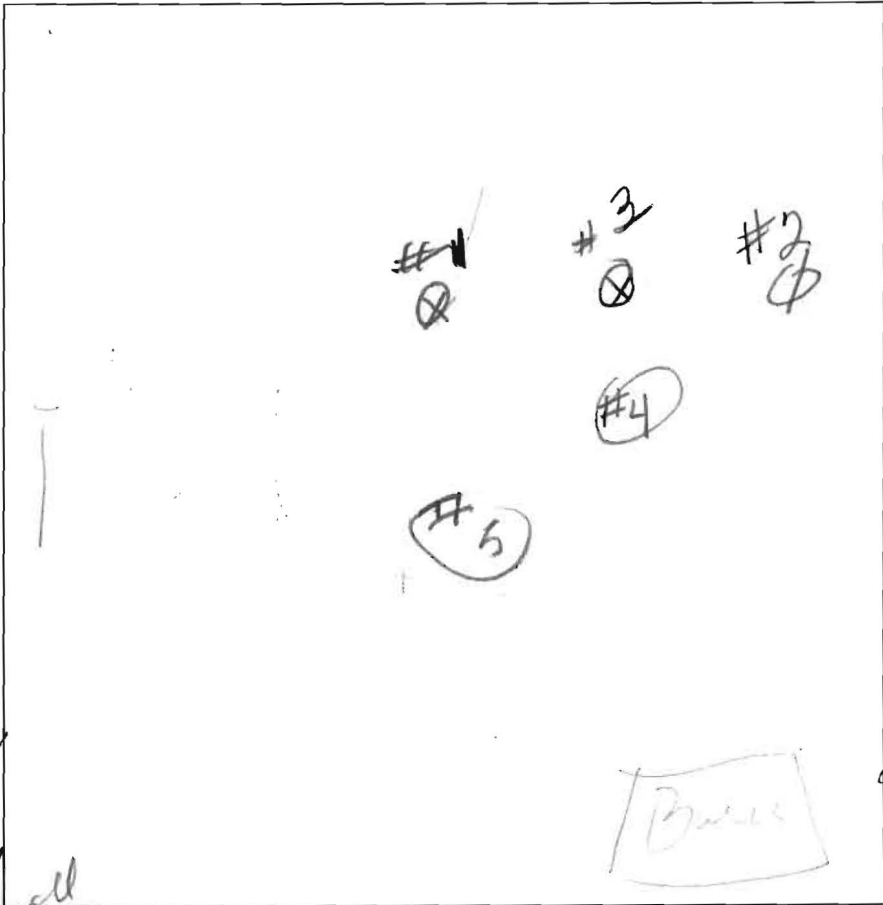
REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

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

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

#3  
Same  
#1  
↓  
LS  
7'  
Bl. mic  
10'



#4

Red Br  
Clay cap 2'  
Bl. mic  
sap 4'  
mic  
R 2  
E + Br 7'  
V low  
Stones  
Sh  
mic 7'

#1  
B-YB  
SEL 2'  
R  
Br mic 5'  
sl Chamber  
Sup 7'  
Chamber 8'  
SL Br  
Rd Br  
White sl  
chrom 10 1/2'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
1-14-09	1	10.5	0	2:57	7:35	5:22	P
1-14-09	3	5.5	0	5:24	13:13	8:11	P
1-14-09	2	Visual	permeability very low throughout				F
	#4	Visual	Pass				P

R 10'  
V 12'

#2  
1' brn scl  
yel-red  
fl scl  
2.5'  
brn vchsl  
wk. cemented  
mica shist  
4'  
interlayered  
yel-red scl  
brown wc  
vchsl  
6'  
Hard digging  
with backhoe

REMARKS \_\_\_\_\_  
SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_  
TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

4667/3

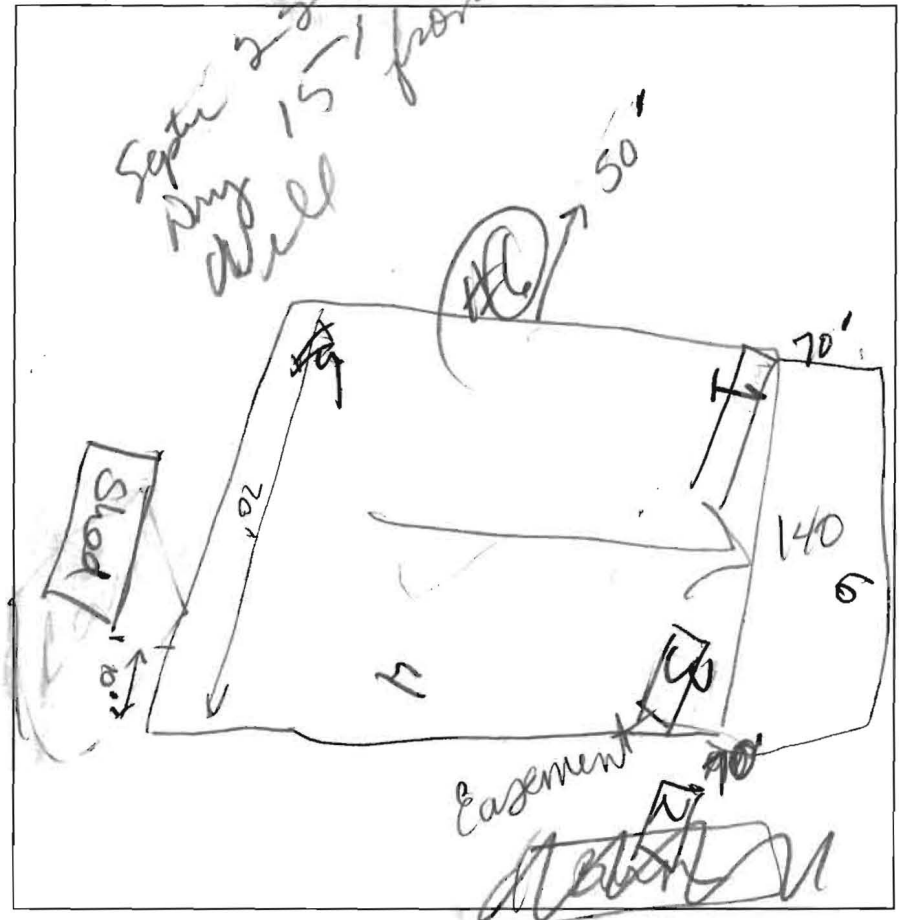
#5

Br SCL .8  
 4 Br Stony SCL 3.5  
 1 Br Stony Heavy SCL 5  
 R chm SL  
 ↓ mic  
 7.5  
 R ch H5  
 mic  
 8'  
 Refusal @ 9.5

AVP \_\_\_\_\_

acc Δ 1410

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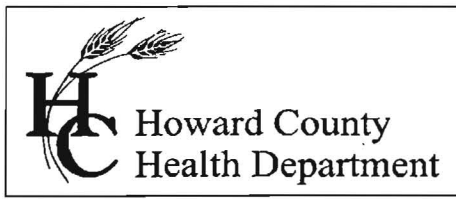
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
1-14-09	5	9.5	0	3:52	5:22	2:30	P
1-14-09	6	8.5	0	2:10	6:31	3:21	P
			NO	side wall			

#6 Br SCL  
 Rd Br  
 Chm SCL  
 Spholite  
 Heavy  
 Stony  
 5'  
 1  
 1 1/2  
 50% Roll  
 8.5

REMARKS d 8' greater than 50%  
 SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

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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)

Peter L. Beilenson, M.D., M.P.H., Health Officer

January 22, 2009

RE: **Percolation Test Results**

Purpose: To Establish Septic Reserved Area  
Property ID: 7122 Deer Valley Road  
Highland, Maryland 20777  
Tax Map: 40 Parcel: 277

Dear Mr. Byong Choi:

Percolation testing was recently conducted January 14, 2009 on the above referenced property, in an effort to establish sufficient septic reserve area for the existing lot. Results for the lot indicated satisfactory soil conditions for onsite wastewater disposal and adequate septic reserve area for the lot to support the proposed number of bedrooms for a single family dwelling. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

A total of 6 test holes were dug and a 10,000 sq.ft. septic reserve area was created, with an initial area and 2 repairs for the lot. On the lot, a functional existing septic system was discovered behind the house. This system contained a dry well, and a septic tank, which must be abandoned before a new septic area is constructed. The lot also contained an underground water line that ran through the old easement. This line must also be removed before the construction of the new septic system. The new easement will have a 2000 gallon tank to support the proposed building permit # BO8002646. Acceptable ranges for recommended inlets and trench bottom depths, and usable sidewalls are indicated for the lot and may be confirmed at the time of installation.

The next step in this process is to have your engineer/consultant submit a Percolation Certification Plan. 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 L. Bernard, Environmental Sanitarian  
Bureau of Environmental Health  
Well and Septic Program  
Phone (410) 313-2775

DLB

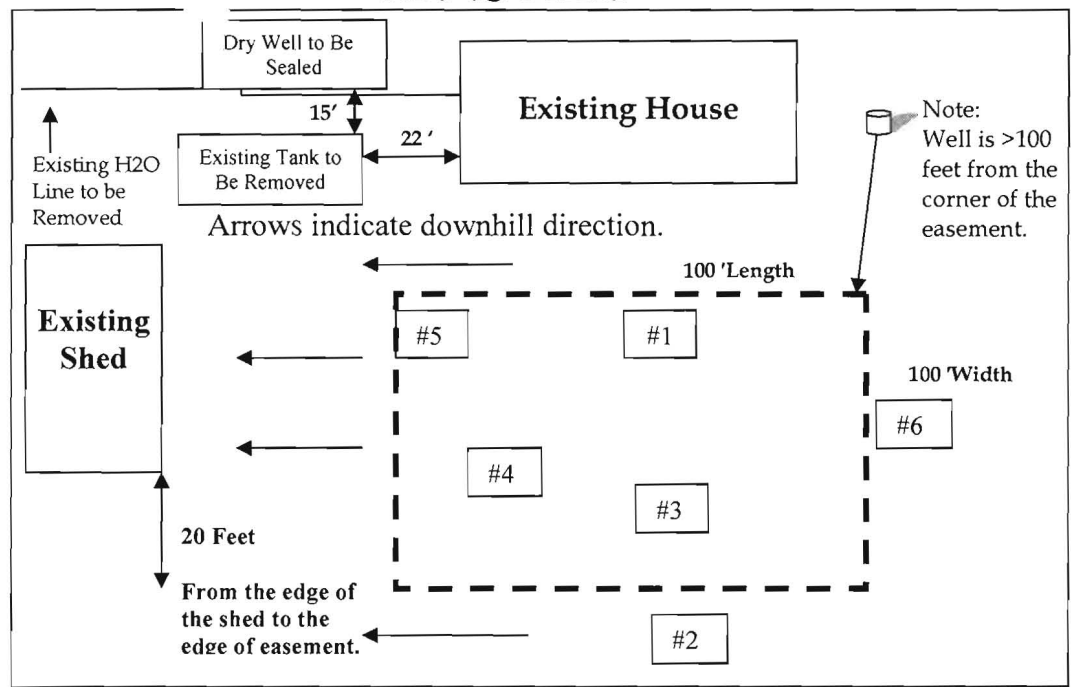
Enclosures

cc: Well & Septic program file  
O'Connell & Lawrence, Inc.

A/P # A530213  
UPGRADE

Perc Information - 7122 Deer Valley Rd.  
 NOT TO SCALE

# 1  
 Brown SCL  
 -----2'  
 Red-Brown SL, Small Channers, Sap. Mica  
 -----5'  
 Red - Brown, SL  
 -----8'  
 Brown, SL 10-15% Channers  
 ↓  
 White SL Lithochromes  
 -----10.5'



#2  
 Brown SCL  
 -----1'  
 Yellow-Red FL SCL  
 -----2.5'  
 Brown VChSL Weakly Cemented Mica, Schist  
 -----4'  
 Interlayered Yellow-Red SCL  
 Brown, WC VChSL  
 -----6'  
 Hard digging with backhoe.

Profile Same As Test #1

Date	Test #	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 <sup>nd</sup> Inch	P/F/H	
1-14-09	1	5.5'/10.5'	0	2:57	7:35	5:22min.	Pass	
1-14-09	2	<i>Visual Permeability very low throughout.</i>						Fail
1-14-09	3	5'/9.5'	0	5:24	13:13	8:11min.	Pass	
1-14-09	4	12'	0	<i>Visual Observation</i>			Pass	
1-14-09	5	5'/9.5'	0	3:52	5:22	2:30min.	Pass	
1-14-09	6	5.5'/8.5'	0			3:21min.	Pass	

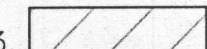
# 4  
 Red-Brown SCL  
 -----2'  
 Red-Brown SL, Schist Sapprolite  
 -----4'  
 Red-Brown SL Mica  
 -----7'  
 Lt.-Brown Yell-SL Small Stones  
 -----10'  
 Brown SL Channers  
 -----12'

# 5  
 Brown SCL  
 -----0.8'  
 Yel-Brown Stony SCL  
 -----3.5'  
 Heavy Yel-Brown, SL Stony  
 -----5'  
 Red-Brown Mica, SL Channers  
 -----7.5'  
 Red-Brown SL, Mica  
 Refusal @ 9.5  
 -----9.5'

Remarks: No Side wall on Test Hole # 6.  
 Sanitarian: DB & RB \_\_\_\_\_ Backhoe: \_\_\_\_\_ Jenkins Brothers Others: \_\_\_\_\_  
 Test Holes Used in: \_\_\_\_\_ Avg. Perc Time 4min. SQ.FT/BR \_\_\_\_\_  
 Trench Width \_\_\_\_\_ Inlet Depth \_\_\_\_\_ Max Bot.Depth \_\_\_\_\_ Effective S/W \_\_\_\_\_

# 6  
 Red-Brown SCL  
 -----2'  
 10% Channers Red-Brown SCL, Mica  
 -----5'  
 Light Red - Brown SL Sapprolite Channers  
 ↓  
 35-45% Rock begins at 7'  
 -----8.5'

SEPTIC NOTES

1. THE PARCEL HEREON WAS CREATED BY DEED RECORDED AT LIBER CMP 517 FOLIO 712, THE 20TH DAY OF AUGUST, 1969 PRIOR TO THE MARCH 1972 MINIMUM OWNERSHIP WIDTH AND AREA REQUIREMENTS OF THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE).
2. THE TOPOGRAPHY OF THIS PLAT IS TAKEN FROM HOWARD COUNTY GIS AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
3.  THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT.
4. ALL KNOWN WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS AND WELLS HAVE BEEN SHOWN.
5. THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO ESTABLISH A SEPTIC EASEMENT IN SUPPORT OF BUILDING PERMIT # B08002646 FOR AN ADDITION TO THE EXISTING DWELLING AT 7122 DEER VALLEY ROAD, HIGHLAND, MARYLAND, 21777.



**PARCEL 207**  
 TURNER, DANIEL  
 CASTLE  
 TURNER, SIGRID D.  
 L.11076 F.92  
 16.84 Ac.

\*NOTE  
 No Field Indication of Well and Septic

**PARCEL 287**  
 ELMORE, LEONARD J.  
 ELMORE, GAIL SEGAL  
 L.2384 F.710  
 4.12 Ac.

**LOT 22**  
 CISSEL FARM  
 SECTION 3  
 PB 9 P 54

DEER VALLEY ROAD  
 50' R/W  
 PB 9 P 54

SURVEYOR'S CERTIFICATE

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.

*Jefferson D. Lawrence*  
 3-26-09

For: O'Connell & Lawrence, Inc., Jefferson D. Lawrence Date  
 Professional Land Surveyor, MD No. #5216



GENERAL NOTES

1. PROPERTY DATA  
 LEGAL REFERENCE: PARCEL 277, TAX MAP 40 GRID 9  
 PROPERTY AREA: 234,352 SQUARE FEET OR 5.38 ACRES  
 ZONING: RRDCO  
 ADC MAP PAGE 18 INSERT GRID D9  
 WATER AND SEWER CATEGORIES: PRIVATE WELL AND PRIVATE SEPTIC
2. EXISTING SITE DATA  
 PROPERTY LINES SHOWN HEREON WERE TAKEN FROM FIELD OBSERVATIONS AND AVAILABLE RECORDS. THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE EXAMINATION.  
 TOPOGRAPHY AND EXISTING FEATURES SHOWN HEREON PER FIELD SURVEY CONDUCTED BY O'CONNELL & LAWRENCE, INC., 2008, & HOWARD COUNTY GIS.  
 HORIZONTAL DATUM SHOWN HEREON IS MD STATE PLANE NAD 83/91  
 VERTICAL DATUM SHOWN HEREON IS NAVD 88
3. UTILITIES DATA  
 UTILITIES LOCATIONS SHOWN HEREON ARE FROM AVAILABLE PLANS AND FIELD OBSERVATIONS WHERE SURFACE INDICATIONS EXIST. CONTRACTOR SHALL DIG TEST PITS AT ALL FUTURE UTILITY CROSSINGS.  
 CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
4. SOILS DATA  
 DATA SHOWN HEREON WAS OBTAINED FROM THE US DEPARTMENT OF AGRICULTURE SOILS SURVEY FOR HOWARD COUNTY, MARYLAND, MAP 27 AND INCLUDES:  
 TYPE: BA (BAILE SILT LOAM)  
 MIC2 (MANOR LOAM, 8 TO 15 PERCENT SLOPES)  
 MID3 (MANOR LOAM, 15 TO 25 PERCENT SLOPES)  
 GIB2 (GLENELG LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED)
5. PROPOSED SITE DATA  
 BUILDING RESTRICTION LINES PER RC ZONING:  
 FRONT: 94 FEET\*  
 SIDE: 30 FEET  
 REAR: 60 FEET  
 \*PER HOWARD COUNTY ZONING REGULATIONS: SECTION 15(E)(4)(A) SECTION 105(E)(3)(A)  
 AREA OF DISTURBANCE: 440 SQUARE FEET  
 BUILDING FOOTPRINT SHOWN HEREON WAS TAKEN FROM PLANS PROVIDED BY: LEHMAN ASSOCIATES, P.C., DATED SEPTEMBER 2008.  
 PROPOSED USAGE SINGLE FAMILY RESIDENTIAL
6. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT SURFACE RUNOFF FROM THE SITE IS DIRECTED TOWARDS AN INLET, STORMWATER FACILITY, OR GRASS SWALE.

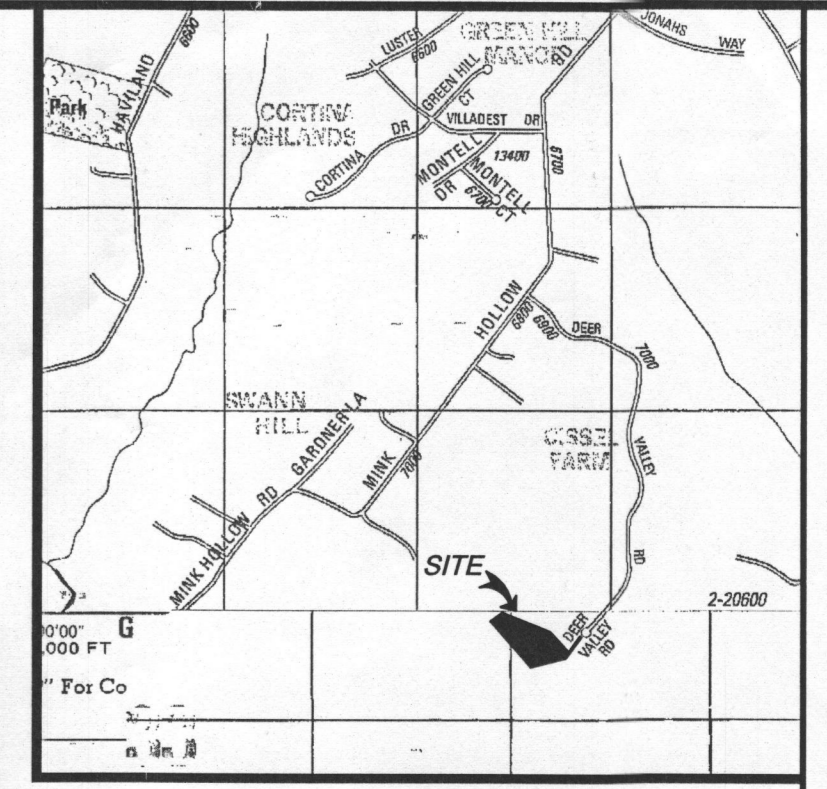
**PARCEL 276**  
 ULLMAN, STEPHEN J.  
 ULLMAN, TERRY L.  
 L.3780 F.550  
 4.52 Ac.

**PARCEL 277**  
 CHOI, BYONG  
 L.11311 F.275  
 5.38 Ac.

PERCOLATION TEST RESULTS

DATE	TEST #	DEPTH	START	BREAK 1" DROP	BREAK 2" DROP	TIME OF 2ND INCH	P/F/H	
1-14-09	1	5.5'/10.5'	0	2:57	7:35	5:22 MIN.	PASS	
1-14-09	2	<b>Visual Permeability very low throughout</b>						FAIL
1-14-09	3	5'/9.5'	0	5:24	13:13	8:11 MIN.	PASS	
1-14-09	4	12'	0	<b>Visual Observation</b>			PASS	
1-14-09	5	5'/9.5'	0	3:52	5:22	2:30 MIN.	PASS	
1-14-09	6	5'/8.5'	0			3:21 MIN.	PASS	

"Approved for Private Water and Sewerage Systems"  
*B. Wilson for Peter Beilenson* 4/8/2009  
 Health Officer, Howard County Health Department Date 790



VICINITY MAP  
 SCALE: 1"=2000'  
 COPYRIGHT ADC The Map People  
 PERMITTED USE NUMBER 20707150


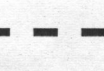







OWNER:  
 MR. BYONG CHOI  
 7059 DEER VALLEY ROAD  
 HIGHLAND, MD 20777

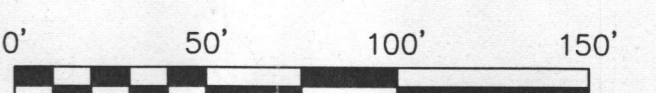
ARCHITECT:  
 LEHAMN ASSOCIATES, P.C.  
 6888 MINK HOLLOW ROAD  
 HIGHLAND, MD 20777  
 CONTACT: JOHN I. LEHMAN, AIA  
 PHONE: (301) 854-1109

ENGINEER:  
 O'CONNELL & LAWRENCE, INC.  
 17904 GEORGIA AVENUE, SUITE 302  
 OLNEY, MARYLAND 20832  
 CONTACT: JENNIFER TEREYLA  
 PHONE: (301) 924-4570

LEGEND

THESE STANDARD SYMBOLS MAY BE FOUND IN THE DRAWING

-  PROPERTY MONUMENT
-  PROPERTY LINE
-  EXISTING CONTOUR
-  BUILDING RESTRICTION LINE
-  METAL FENCE
-  WOODEN FENCE
-  EXISTING PAVED DRIVEWAY
-  PASSED PERC TEST LOCATION
-  FAILED PERC TEST LOCATION



**O'Connell & Lawrence, Inc.**  
 Construction Consultants, Engineers, Surveyors  
 17904 Georgia Avenue, Suite 302  
 Olney, Maryland 20832  
 Tel: (301) 924-4570 \* Fax: (301) 924-5872

LANDS OF  
**PARCEL 277**  
**7122 DEER VALLEY ROAD, HIGHLAND**  
 LIBER 11311 FOLIO 275  
 TAX MAP 40 GRID 9  
 (6TH) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**PERCOLATION CERTIFICATION PLAN**

DISPOSAL LOCATION	DATE	BY	REVISION	DATE	BY
1	2/24/09	GH			
2	3/26/09	JDL			

DESIGN BY: GH  
 DRAWN BY: GH  
 CHECKED BY: JDL  
 DATE: 1/28/09  
 SCALE: 1" = 50'  
 PROJECT/FILE NO. 008-031  
 SHEET NO. 1 of 1