



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 538059

AGENCY REVIEW: _____

DATE 9-6-12

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 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) Ryong Hon Song

DAYTIME PHONE 410 350 4104 CELL _____ FAX _____

MAILING ADDRESS 10204 Wetherburn Rd Ellicott City MD 21042
STREET CITY/TOWN STATE ZIP

APPLICANT Owner

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS 2376 Daniels Rd. Ellicott City, MD 21043
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 18 GRID 7 PARCEL(S) 333 PROPOSED LOT SIZE 1.2AC

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.

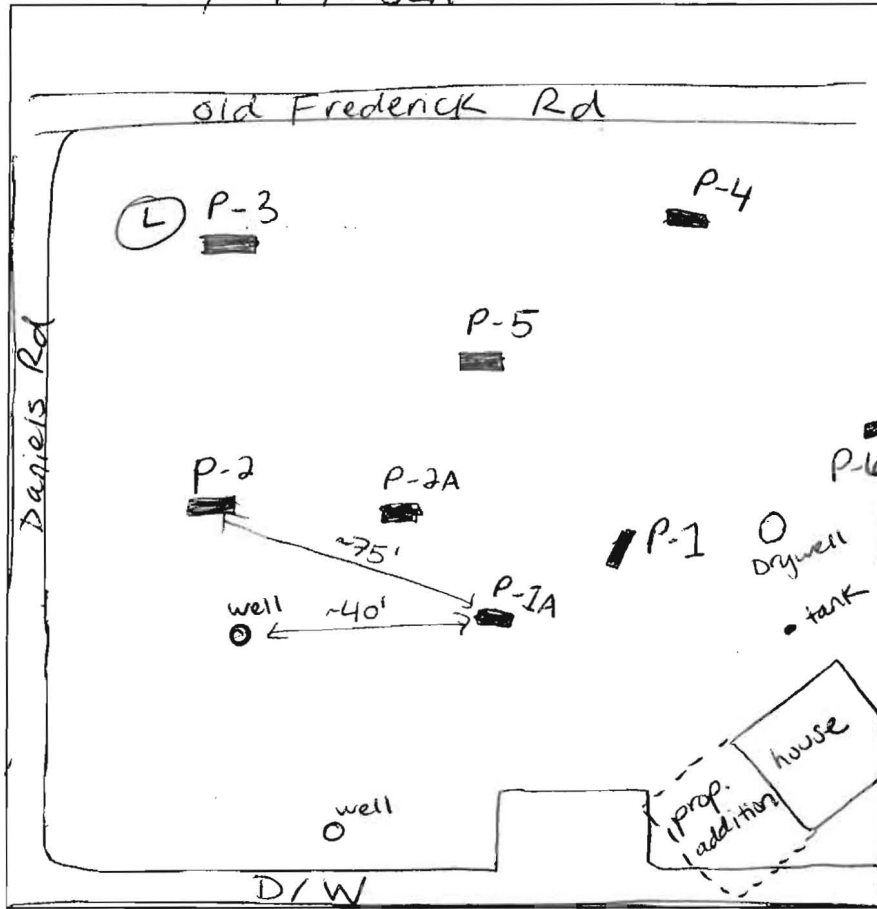
TEST RESULTS WILL BE MAILED TO APPLICANT.

[Signature]
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

AP 538059

NOT TO SCALE



P-2
 18" black l
 4.5' brn scl 2msbk
 6' brn sl Saproelite
 10' brn fs1
 14' yellow brn ls ↓
 beige ls

P-3
 1' brn l
 4' brn scl (dense) 1csbk
 6' brn sl 1fsbk few mica
 7' beige fs1 Saproelite
 11' white vf sl
 14.5'

P-5
 10" dk brn l
 2' brn cl 1csbk
 4.5' brn scl 1msbk (dense)
 5' yellow brn sl few stones ↓
 beige ls
 10' HB
 25% quartz

P-1A
 Same as P-1
 8' HB

P-1
 2.5' brn scl w/ 30% rx
 4' vf sl
 vf fs1
 ↓
 8' vb1 ls
 HB

P-4
 4.5' brn l
 red brn scl 2csbk
 red brn sl Saproelite few mica
 5' red brn fs1
 8' brn vf sl
 11'
 14' white ls

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9-20-12	P-2	6.5' / 14'	9:9	no movement,		pulled @ 10:00	
	P-3	6.5' / 14.5'	9:42	9:58		pulled @ 10:30	
	P-5	5.5' / 10'	9:50	9:54	10:02	8	P
	P-1	8'	VISUAL				F
	P-4	6' / 14'	10:22	10:28	10:36	8	P
	P-2	7' / 14'	10:13	no movement			F
	P-1A	8'	VISUAL				F
	P-3	7.5' / 14.5'	10:37	10:39	10:40	repair	
	P-3	" "	10:40 ³⁸	10:42 ⁴⁴	10:45 ³⁵	3+	P

REMARKS holes dug per stakes owners going to apply for public sewer extension.
 SANITARIAN HS BACKHOE Donnie OTHERS John Carney
 TEST HOLES USED IN SDA 5 AVG. PERC TIME 4 SQ. FT/BR
 TRENCH WIDTH 3 INLET DEPTH 4 MAX. BOT DEPTH 8 EFFECTIVE SW 1'

4 BR



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

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

September 25th, 2012

To: John Carney
Benchmark Engineering

RE: Percolation Test Report, 2376 Daniels Road; A#538059

Percolation testing was conducted at the referenced property on September 20, 2012. The purpose for conducting these percolation tests was to delineate septic reserve area for a proposed addition to increase living space, no new bedrooms are proposed.

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. Soil conditions either satisfactory or unsatisfactory for onsite wastewater disposal were observed at the specified test locations. 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 drainfield and two repair drainfields for the planned residence.

Soil conditions observed were satisfactory and unsatisfactory for onsite wastewater treatment and disposal. Satisfactory tests include holes: P-3, P-4, P-5, P-6 and P-7. Tests P-2, P-1 P-1A and P-2A failed due to excessive rock at shallow depths and inadequate perc rates.

There are two existing wells on the property. The wells will be properly sealed and abandoned upon connection to public water. To support to the proposed addition the existing septic tank must be abandoned and a new 1,500 gallon septic tank must be installed prior to building permit approval. The existing drywell must also be upgraded.

Field data collected are shown on Percolation Test Worksheets enclosed with this letter. Recommended Inlet and Trench Bottom depths, and Usable Sidewall all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. The values for the drainfield parameters will be documented during the Percolation Certification Plan process, and then maintained in the Health Department file for the subject property.

Additional field review of well or septic system conditions may be required at any time during this process. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan or Site Plan, please contact me at the above address or by calling (410) 313-6287.

Respectfully,

A handwritten signature in black ink, appearing to read "Heidi Scott". The signature is fluid and cursive, with the first name "Heidi" and the last name "Scott" clearly distinguishable.

Heidi Scott, R.S.
Environmental Sanitarian
Well and Septic Program

AP 538059

P-2A

4.5' red brn
ch scl

5.8' red brn
grity sl
w/ 25%
rx

8.5'
NB

P-6

8" br l
tan scl
2 ccbk

35' red brn
sl lmsbk

5' red brn
sl saprite

7' yellow/red
brn ls
15% rx
↓

135'

P-7

14" br l

3' red brn
scl 2 ccbk

5.5' red brn
sl

↓
berge
ls

13'

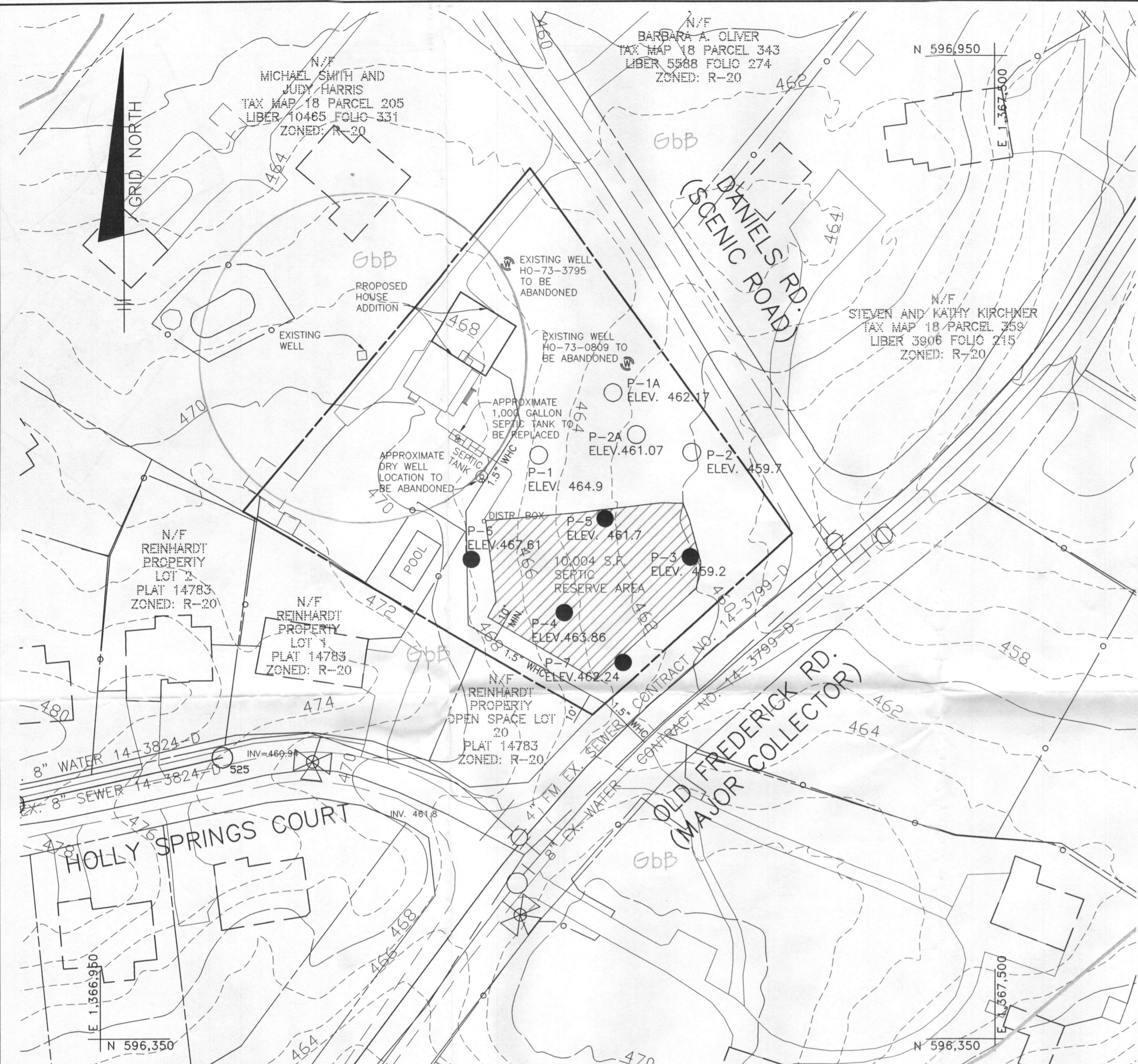
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9-20-12	P-2A	8.5'	VISUAL				F
	P-6	4.5'/13.5'	11:14	11:18	11:21	3	P
	P-7	6'/13'	11:30	< 1 min. re-pour			
			11:32	11:33 ⁴¹	11:36 ²⁰	3	P

REMARKS holes P-1A, P-2A, P-6, P-7 not dug per plan.

SANITARIAN HS BACKHOE Donnie OTHERS John Carney, Jeff

TEST HOLES USED IN SDA _____ AVG. PERC TIME 4 SQ. FT/BR _____

TRENCH WIDTH 3' INLET DEPTH 4' MAX. BOT DEPTH 8' EFFECTIVE SW 1'



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- 1.) THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 2.) THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 3.) EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- 4.) TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND IS TO BE VERIFIED BY BENCHMARK ENGINEERING, INC.
- 5.) THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
- 6.) THE PURPOSE FOR THIS PERCOLATION TEST PLAN IS TO CREATE A SEWAGE DISPOSAL EASEMENT IN SUPPORT OF BUILDING PERMIT APPLICATION # B1200993.
- 7.) THE EXISTING WELLS, HO-73-0809 AND HO-73-3795 SHOWN ON THIS PLAN ARE TO BE LOCATED BY BENCHMARK ENGINEERING INC. AND ARE TO BE PROPERLY ABANDONED BY A LICENSED WELL DRILLER. WATER SERVICE IS TO BE PROVIDED A WHC TO CONTRACT NO. 14-3799-D.
- 8.) ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 9.) THE EXISTING SEPTIC TANK WILL HAVE TO BE REMOVED AND A NEW 1,500 GALLON TANK IS REQUIRED. THE DRY WELL NEEDS TO BE UPDATED. THESE IMPROVEMENTS NEED TO BE COMPLETED PRIOR TO BUILDING PERMIT APPROVAL BY THE HEALTH DEPARTMENT.
- 10.) THE 1.5" WHC MUST BE AT LEAST 12" ABOVE WHERE IT CROSSES THE SEPTIC LINE OR THE WHC MUST BE APPROPRIATELY SLEEVED.

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 KNOWLEDGE AND BELIEF.

John M. Carney 10.12.12
JOHN M. CARNEY FOR BENCHMARK ENGINEERING INC.
PLAN PREPARER

APPROVED FOR PUBLIC WATER AND SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Brian M. Rossman 11/8/2012
HOWARD COUNTY HEALTH OFFICER DATE

LEGEND

	EXISTING CONTOURS		PASSED TEST HOLE		SOILS DELINEATION		PROPOSED HOUSE ADDITION
	EXISTING TREELINE		FAILED TEST HOLE		PROPOSED SEPTIC AREA		
	LIMIT OF SUBMISSION		EX. WELL				

SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME
Gbb		B		GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES

PLAN
SCALE: 1" = 50'

BENCHMARK ENGINEERING, INC.
ENGINEERS • LAND SURVEYORS • PLANNERS
8480 BALTIMORE NATIONAL PIKE & SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 • FAX: 410-465-6644
WWW.BE-CIVILENGINEERING.COM

OWNER: PYONG HON AND HYON CHU SONG
10204 WETHERBURN ROAD
ELLCOTT CITY, MARYLAND 21042-1682

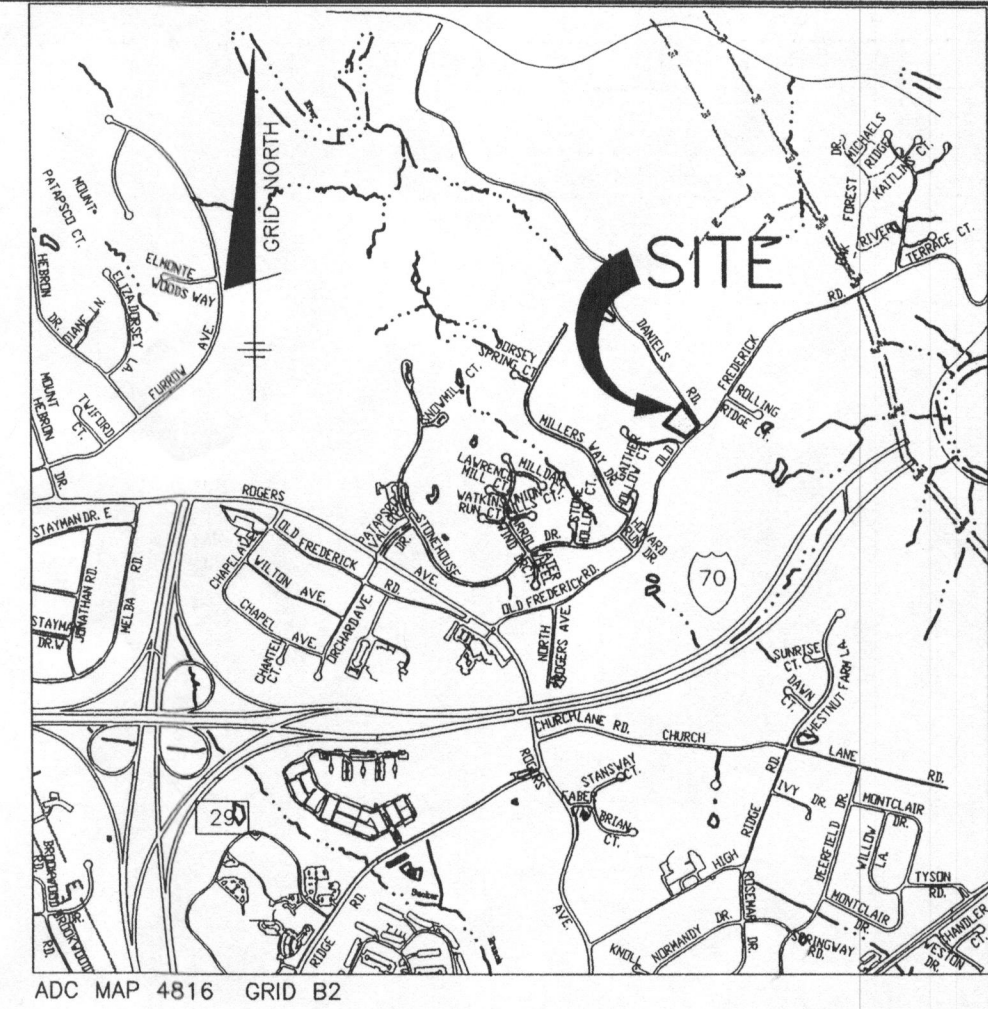
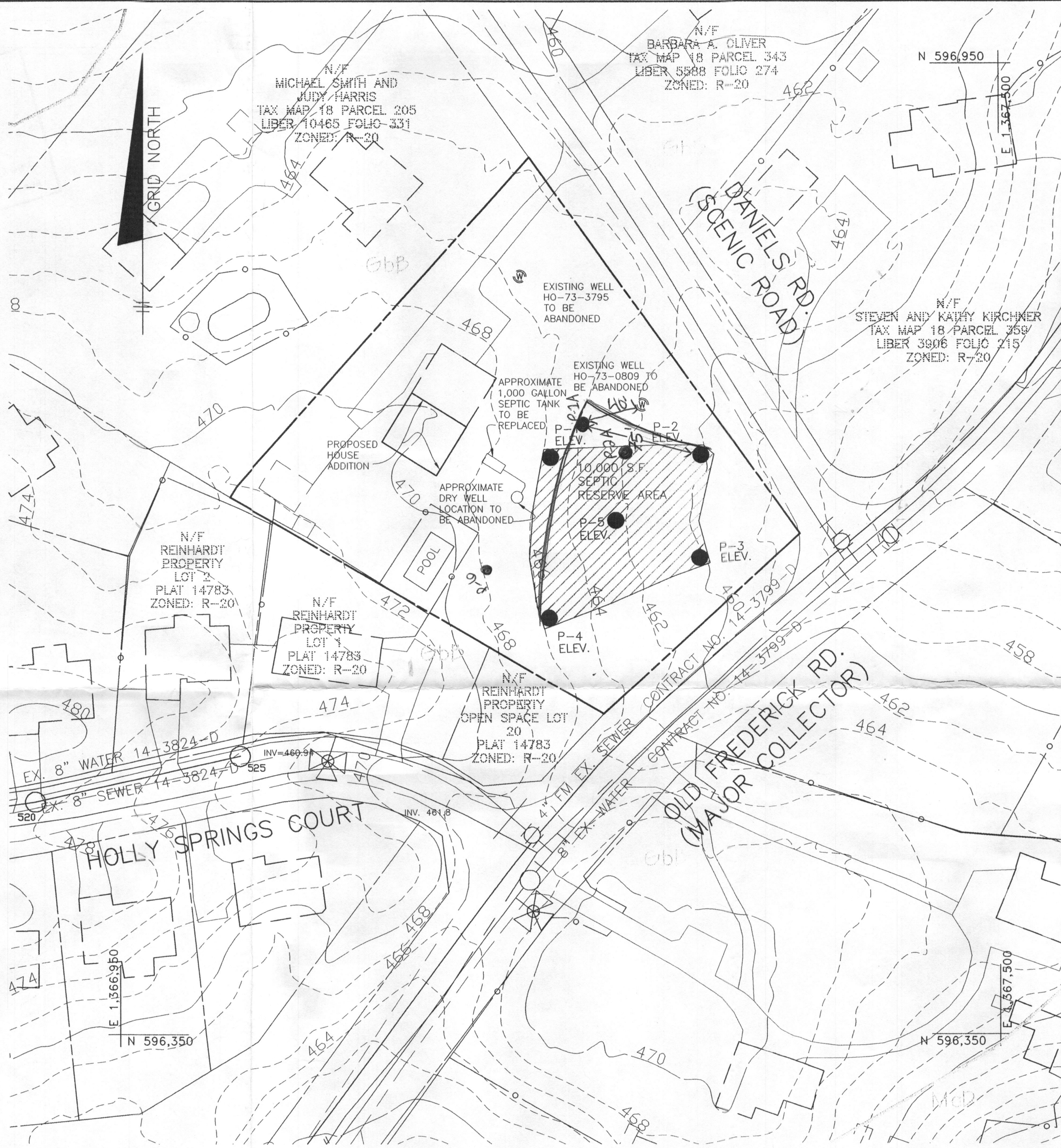
LOCATION: 2376 DANIELS ROAD
TAX MAP: 18, GRID: 7
PARCEL: 333
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

TITLE: PERCOLATION CERTIFICATION PLAN

DATE: OCTOBER, 2012
SCALE: 1" = 50'

BEI PROJ. NO. 2511
SHEET 1 OF 1

DESIGN: JC DRAFT: EDD CHECK: JC



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SCALE: 1" = 2000'

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John Carney 9.5.12
JOHN CARNEY FOR BENCHMARK ENGINEERING, INC.
PLAN PREPARER

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

LEGEND

- 454 EXISTING CONTOURS
- EXISTING TREELINE
- LIMIT OF SUBMISSION
- TEST HOLE
- SOILS DELINEATION
- EX. WELL
- PROPOSED HOUSE ADDITION
- PROPOSED SEPTIC AREA

PLAN
SCALE: 1" = 50'

SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND				
SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME
GbB		B		GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES

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ENGINEERING, INC.

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phone: 410-465-8105 & fax: 410-465-6644
WWW.BEI-CIVILENGINEERING.COM

OWNER:		2376 DANIELS ROAD	
PYONG HON AND HYON CHU SONG 10204 WETHERBURN ROAD ELLICOTT CITY, MARYLAND 21042-1682		LOCATION: TAX MAP: 18, GRID: 7 PARCEL: 333 ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	
DESIGN: JC		TITLE: PERCOLATION TESTING PLAN	
DRAFT: EDD	CHECK: JC	DATE: SEPTEMBER, 2012	BEI PROJ. NO. 2511
SCALE: 1" = 50'		SHEET <u>1</u> OF <u>1</u>	