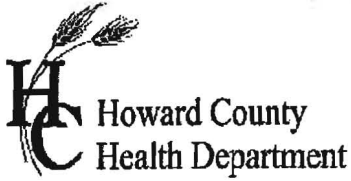


Willow Ridge subdivision

Refer to WP plans for more clarity



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 526677

AGENCY REVIEW: _____

DATE 5/2/07

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 _____ 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) Rick Minor of Greenfield Homes, Inc.

DAYTIME PHONE (410) 781-6782 CELL N/A FAX N/A

MAILING ADDRESS 6666 Luster Drive Highland Maryland 20777
STREET CITY/TOWN STATE ZIP

APPLICANT FSH Associates

DAYTIME PHONE (410) 967-5200 CELL N/A FAX (410) 796-1562

MAILING ADDRESS 6339 Howard Lane Elkridge Maryland 21075
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME 11400 Frederick Road LOT NO. Parcel 183

PROPERTY ADDRESS 11400 Frederick Road Ellicott City, MD 21042-2014
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 16 GRID 15 PARCEL(S) 183 PROPOSED LOT SIZE 0.909 act

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
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

A/P _____

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

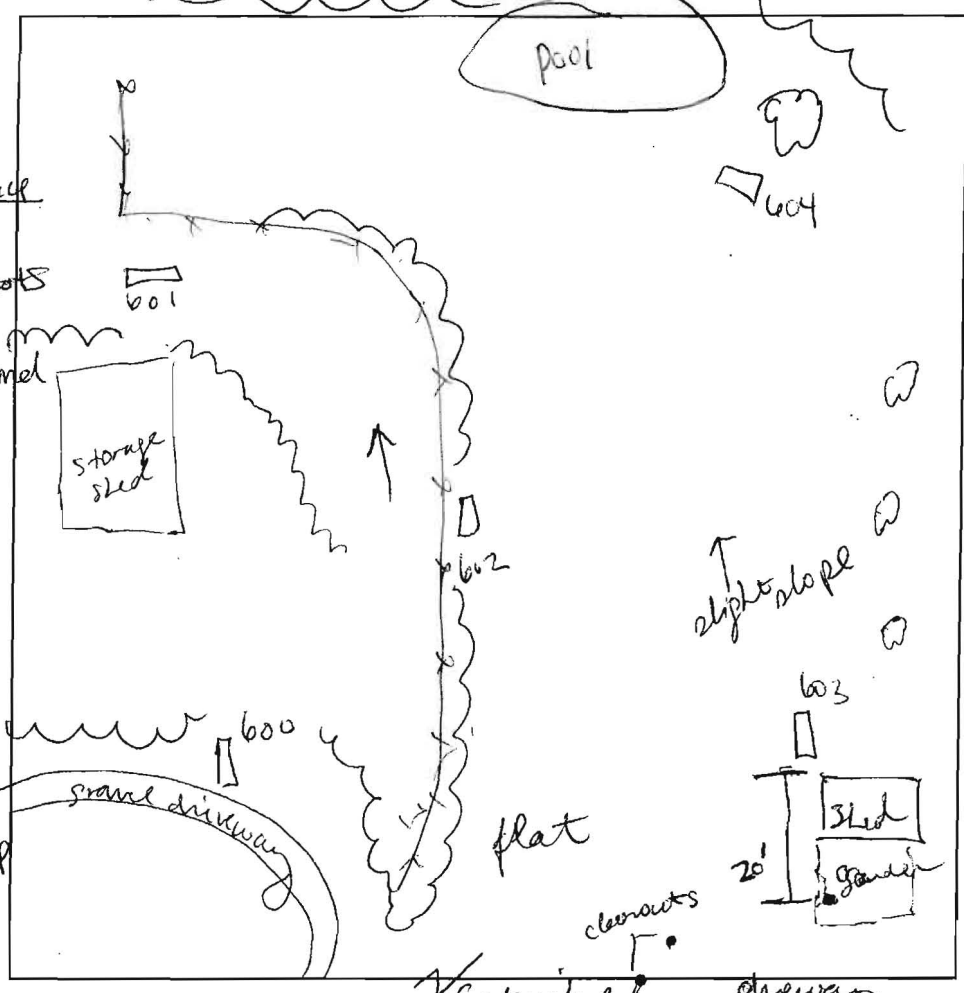
REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

526677
AP 601

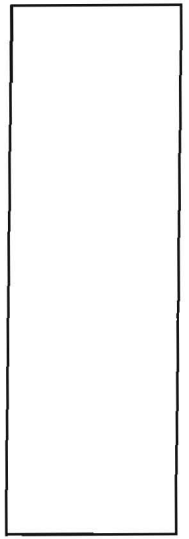


downhill dense sil 4'10"
st. brown coarse sil micaeous squalite
uphill 3'
heavy sil
st. brown micaeous squalite
brown sil sg. very micaeous squalite
13'

600
brown & lfsbk roots
st. brown sil 15% gravel
brown heavy sil sg 10% gravel
st. brown coarse sil micaeous squalite
brown coarse sil micaeous squalite sg
12'5'

602
brown & lfsbk
st. brown sil / heavy sil micaeous
st. brown heavy sil sg. micaeous
brown / pale brown coarse sil sg. micaeous squalite
26' quartz rock 25% cobbles / gravel
pale red sil coarse sg. squalite
12'7"

604
brown & lfsbk
st. brown sil / heavy sil micaeous 100% gravel
st. brown heavy sil micaeous squalite
brown / pale brown sil very micaeous sg
pale red / brown sil sg. micaeous squalite
14'

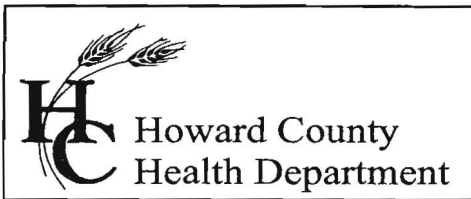


DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
5/21/07	600	4' / 12'5"	9:44	9:55	red shelf		
		5'	10:00	10:15	net to 1"		
		6'10"	10:19	10:20	10:22	2	P
	602	4'10" / 12'7"	10:39	10:41 ^{do}	10:43 ⁷	2	P
	604	6'5" / 14'	10:52	10:54	10:59	5	P
	603	5'5" / 13'	11:09	11:12	11:15	3	P
	601	7' / 13'1"	11:59	12:02	12:08	6	P

603
brown & lfsbk
st. brown sil
st. brown heavy sil micaeous
st. brown sil sg. very micaeous squalite
red brown sil sg. coarse very micaeous squalite
~10' - 15% quartz gravel / cobbles / 13' bottom.

REMARKS holes dug per plan except # 603
SANITARIAN SF BACKHOE Foglio OTHERS Greenfield, fuel minor
TEST HOLES USED IN SDA _____ AVG. PERC TIME 3.6 SQ. FT/BR _____
TRENCH WIDTH 2 INLET DEPTH 4 MAX. BOT DEPTH 8 EFFECTIVE SW 7' EA
1' SW

Existing system okay



Bureau of Environmental Health
7178 Columbia 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

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

June 5, 2007

Rick Minor
Greenfield Homes, Inc.
6686 Luster Drive
Highland, Maryland 20777

RE: PERCOLATION TEST RESULTS – A#5526677
11400 Frederick Rd

Dear Mr. Minor:

Percolation testing conducted May 21, 2007 on the referenced property indicated satisfactory soil conditions. Copies of the test results are enclosed.

Further review is contingent upon submission of a percolation certification plan showing the following:

- 1) Actual surveyed locations and elevations of all excavated test holes
- 2) Proposed house site (55' x 70') or footprint, including building restriction lines as determined by other County agencies, and driveway location
- 3) Existing and proposed property lines
- 4) Proposed SDA
- 5) A note must be included certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown
- 6) A note stating all existing and proposed wells, septic systems and sewage disposal systems located within 200 feet down gradient of existing or proposed septic systems and sewage disposal easements.
- 7) A note stating the engineer used all reasonable efforts to find the location of all surrounding wells and septic systems
- 8) Topography needs to be shown at 2 foot contour intervals and a note certifying topography was field run and verified and reflects field-matched information
- 9) A MDE sewage disposal area statement is required
- 10) MDE minimum lot width statement
- 11) Include the statement, "Any changes to a private sewage easement shall require a revised perc certification plan"
- 12) Identification of streams, ponds, wetlands, floodplains, slopes >25%, soil types and soil type boundaries
- 13) Legend symbols to distinguish between new holes, any existing holes previously documented (by the HCHD), passed holes, failed holes, and any holes held for future review
- 14) Existing structures, wells, septic easements and other septic system components such as tanks, dry wells and distribution boxes. Description of use and intent designated for each item, e.g. 'to remain' or 'remove.'
- 15) A health officer signature block stating "approved for public water and private sewer systems."
- 16) Professional seal or signed statement that "I certify that the information shown heron is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."
- 17) Identification of the property, road, street address if applicable, tax map page, parcel number, subdivision name (if appropriate); add purpose statement as appropriate, e.g.

- subdivision, SDA adjustment, percolation certification plan etc
- 18) Name, address and telephone number of each owner, developer and the plan author.
 - 19) The date the plan was drawn, the plan scale (1:30 - 1:100), a scaled vicinity map and, the A # (percolation test fee receipt number, referenced in the HCHD correspondence)

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-4261.

Sincerely,

Sara Fegel, R.S.
Well and Septic Program
Development Coordination Section

Enclosures
Cc: FSH Associates, Inc.

PERCOLATION CERTIFICATION PLAN
REVIEW COMMENTS RESPONSE LETTER
CASWELL LAND SWAP

11400 Frederick Road
A# 5526677

Dear Ms. Sara Fegel,

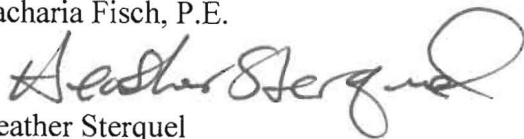
The following is in review and compliance with your comments.:

1. The actual surveyed locations and elevations of the excavated test holes have been shown on the plan.
2. There will be no proposed house or driveway, the existing house and driveway are to remain. The proper Building Restriction Lines (BRL) have been shown.
3. The existing lot lines are labeled to be removed and are now shaded. The proposed property lines are shown on the plan with bearings and distances.
4. A proposed septic easement (SDA) of 10,000 sf. has been shown on the property at time of application.
5. Note #5 states that septic systems within 100 feet of the property has been shown. There are no well located on this site or on adjacent properties.
6. Note #12 has been added to state that all existing septic systems and sewage disposal systems located within 200 feet down gradient of existing and/ or proposed septic systems and sewage disposal easements are shown.
7. Note #10 states the engineer has used all reasonable efforts to find the location of all surrounding septic systems.
8. Has already been addressed in note #6.
9. Has already been addressed in note #4.
10. Has already been addressed in note #8.
11. Note #11 has been added to state any changes to a private sewage easement shall require a revised percolation certification plan.
12. There are no streams, ponds, wetlands, floodplains, slopes >25%(steep slopes) located on or within 100 feet of this property stated in note #14. The soil type and the soil type boundary has been defined more clearly.
13. There are symbols in the legend showing and distinguishing the percolation test holes.
14. The use and intent has been clearly defined.
15. The health officer block stating "approved for public water and private sewage systems" is shown on the plan.
16. A professional statement that says "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", and will be signed and sealed at time of the Percolation Certification Plan submission.
17. The property has been identified by means of road name, street address, tax map page, grid number and parcel in the title block.
18. The name, address and telephone number of the owner, developer and the plan author has been shown on the plan.

19. The plan has a date it was drawn, a scale, the A# (the percolation test fee receipt number, referenced in the HCHD correspondence) within the title block and a scaled vicinity map on the plan.

Thank You,

Zacharia Fisch, P.E.

A handwritten signature in cursive script, appearing to read "Heather Sterquel". The signature is written in dark ink and is positioned above the printed name.

Heather Sterquel

June 8, 2007



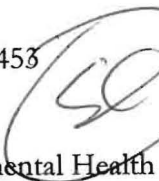
Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

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

November 13, 2007

MEMORANDUM

TO: Greenfield Homes, Inc.
1818 Liberty Road
Eldersburg, Maryland 21784
Attn: Rick Minor
Faxed to 410-988-2453

FROM: Stuart F. Oster, R.S. 
Bureau of Environmental Health
Well and Septic Program

RE: 11418 Frederick Road
Ellicott City – 7.83 Ac.
F-08-050 – Willow Brook, LLC
Map 16, Grid 15, Parcel 91
(Demolition of Existing House)

This is to advise that the Howard County Health Department recommends issuance of the demolition permit for the above referenced property.

The septic system tank and drywell will need to be properly abandoned; i.e. pumped, collapsed and filled in with clean fill. This is to be completed during the demolition phase and documentation submitted to this office.

If any other wells or septic systems are found during site work, please notify this office immediately.

C: File

Maryland State Grid (NAD 83/91)
 E 1,338,100
 N 591,600

COTSWOLD SPRING FARM LN (Public County Road)
 Prop. 18" Culvert 44 LF
 1SHA Type 'A' Curb & Gutter
 Minor Arterial

FREDERICK ROAD (Maryland Route 144)
 Minor Arterial (Scenic Road)

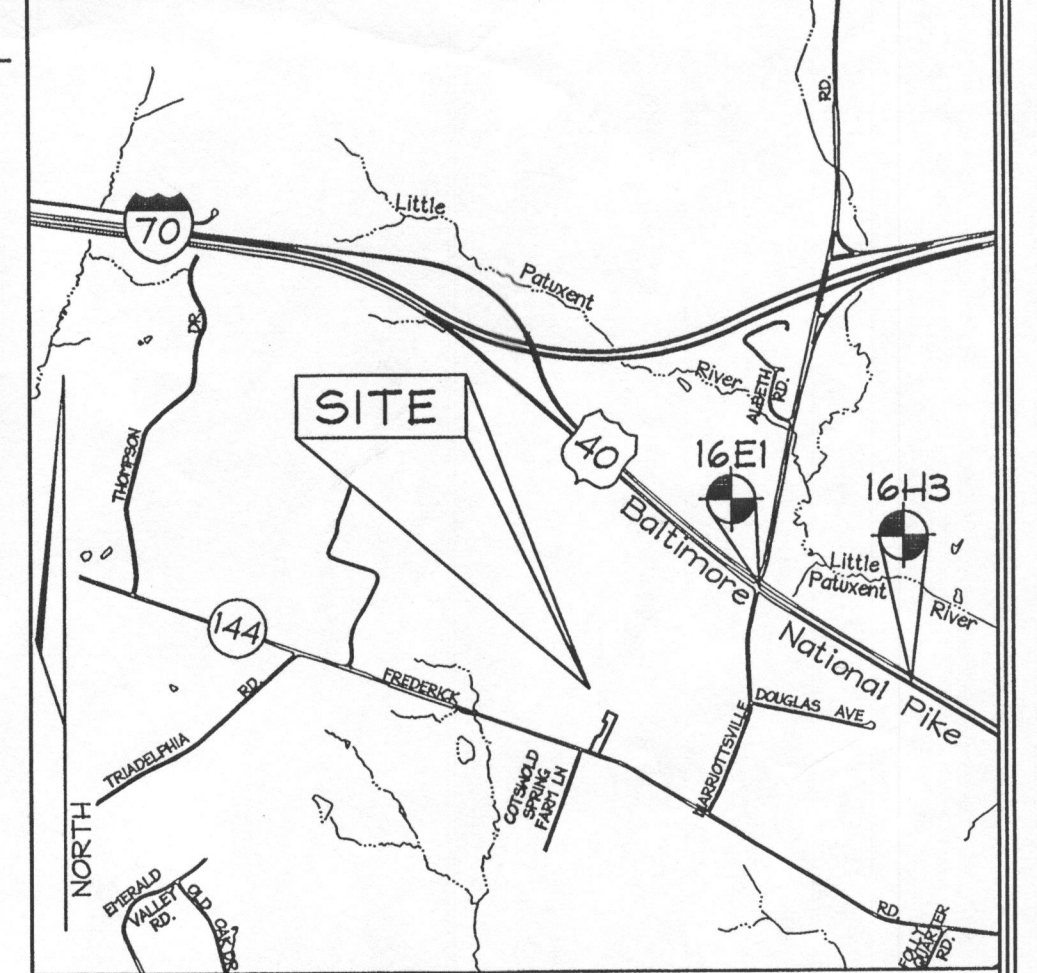
PARCEL 89
 Willow Brook LLC
 L. 9346 F. 37
 ZONED: RC-DEO

PARCEL 183
 L. 9093 F. 433
 WILLIAM P. & ANGELA D. CASWELL
 BGE #69085 ZONED: RC-DEO

PARCEL #69084

LEGEND

- Existing Contour
- Existing Spot Elevation
- Existing Trees to Remain
- Proposed Septic Easement
- Existing Septic Area
- Proposed House
- Existing Perc Test (Passed)
- Existing Perc Test (Failed)
- Existing Perc Test (Not Dug)
- Proposed Perc Test



VICINITY MAP
 SCALE: 1"=2000'

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B

BENCHMARKS

Sta. 16E1	N 543,250.960	E 1,340,142.717	Ei.: 464.589
Sta. 16H3	N 592,408.057	E 1,341,524.012	Ei.: 470.410

GENERAL NOTES

1. Subject property zoned RC-DEO per 02/02/04 Comprehensive Zoning Plan and per the Comprehensive Lite Zoning Regulation Amendments effective 7/28/06.
2. Total area of property = 0.909 ac.±
3. Public water and private sewage will be used within this site.
4. This area designates a private sewage easement, of at least 10,000 SF (or 10,000 square feet per lot for shared drain fields associated with a shared sewage disposal facility) 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 sewerage 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 adjustments to the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
5. All septic fields within 100' of the property's boundary have been shown.
6. Existing Topography based on Field Run Topographic Survey by FSH Associates on July, 2003 with two foot contours.
7. Deed History:
 March, 2005 - Present: William P. Caswell & Angela D. Caswell
 Sept., 2004 - March, 2005: Philip J. Fewster, Jr.
 Dec., 2000 - Sept., 2004: Brenda Fauster
 Oct., 1960 - Dec., 2000: Charles A. Geerhart & Joyce J. Geerhart
 Aug., 1940 - Oct., 1960: Eugene F. Boone & Kathleen C. Boone
8. The lots shown herein comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.
9. Reference: Parcel 183, Liber 4093 Folio 433.

"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."

ZACHARIA YOSEF FISCH, P.E. #22418 DATE
 FSH ASSOCIATES

**PERCOLATION APPLICATION PLAN
 CASWELL LAND SWAP**

11400 FREDERICK ROAD
 A#

TAX MAP 16 GRID 15 PARCEL 183
 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER
 GREENFIELD HOMES, Inc.
 RICK NNOR
 6656 Lustr Drive
 Highland, Maryland 20777
 410.7815782

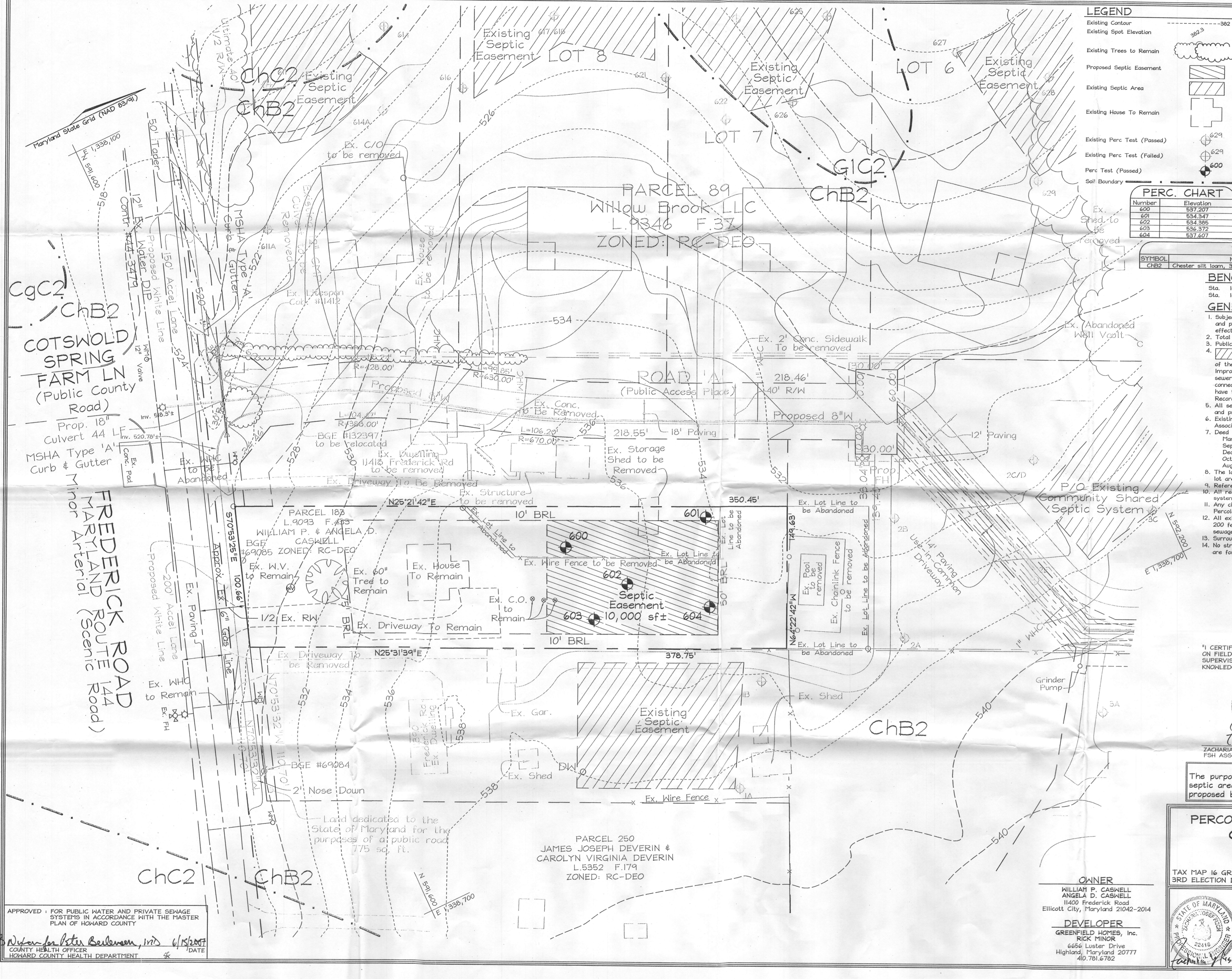
FSH Associates
 Engineers Planners Surveyors
 6339 Howard Lane
 Elkridge, MD 21075
 Tel: 410-587-5200 Fax: 410-798-1562
 E-mail: info@fshort.com

DESIGN BY: HS
 DRAWN BY: HS
 CHECKED BY: ZYF
 SCALE: 1"=30'
 DATE: April 26, 2007
 W.O. No.: 3033
 SHEET No.: 1 OF 1

APPROVED FOR PUBLIC WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

-W.V.?
 Need to perc

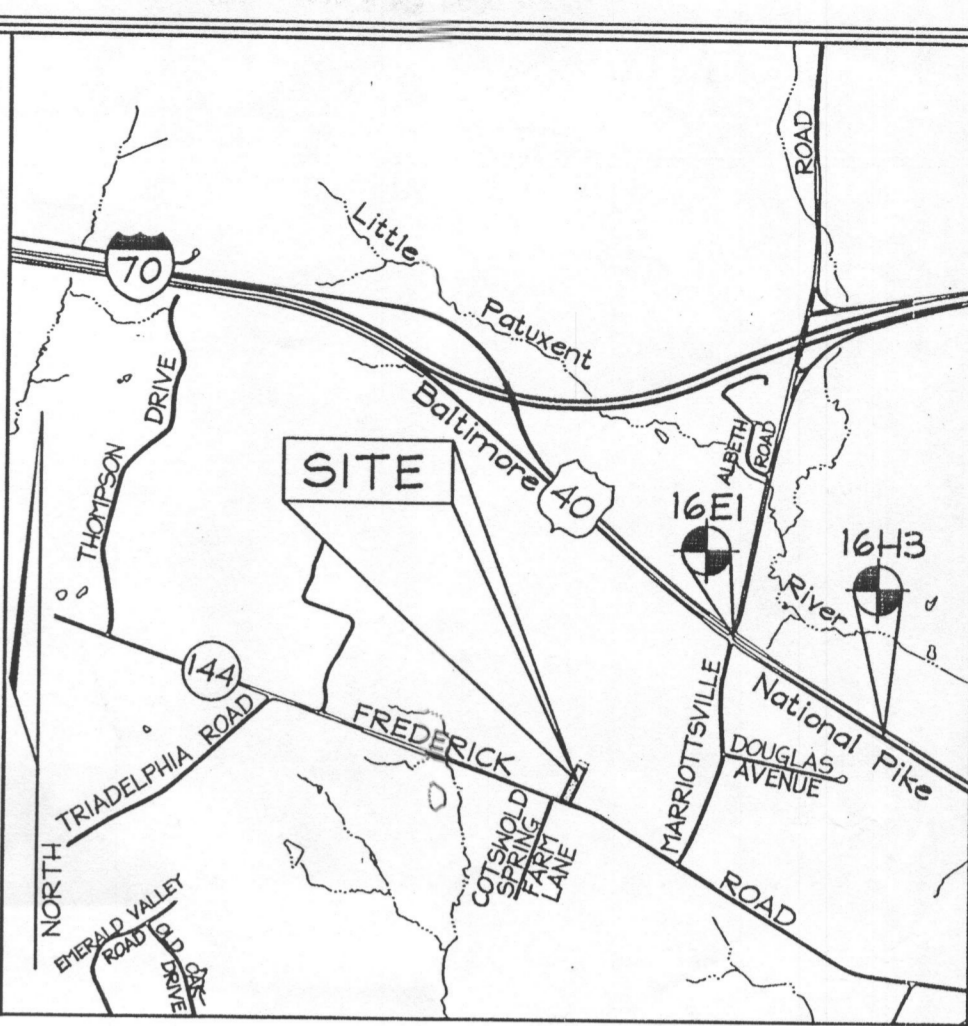


LEGEND

- Existing Contour
- Existing Spot Elevation
- Existing Trees to Remain
- Proposed Septic Easement
- Existing Septic Area
- Existing House To Remain
- Existing Perc Test (Passed)
- Existing Perc Test (Failed)
- Perc Test (Passed)
- Soil Boundary

PERC. CHART

Number	Elevation
600	537.207
601	534.347
602	534.355
603	536.372
604	537.607



VICINITY MAP
SCALE: 1"=2000'

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B

BENCHMARKS

Sta. 16E1 N 543,250.960 E 1,340,192.717 El.: 464.584
 Sta. 16H3 N 542,408.057 E 1,341,524.012 El.: 470.410

GENERAL NOTES

1. Subject property zoned RC-DEO per 02/02/04 Comprehensive Zoning Plan and per the Comprehensive Lite Zoning Regulation Amendments effective 7/28/06.
2. Total area of property = 0.909 ac.±
3. Public water and private sewage will be used within this site.
4. This area designates a private sewage easement, of at least 10,000 SF 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 sewerage 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 adjustments to the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
5. All septic fields within 100' of the property's boundary have been shown and public water contract# 44-3474 is utilized.
6. Existing Topography based on Field Run Topographic Survey by FSH Associates on July, 2003 with two foot contours.
7. Deed History:
 March, 2005 - Present: William P. Caswell & Angela D. Caswell
 Sept., 2004 - March, 2005: Philip J. Feuster, Jr.
 Dec., 2000 - Sept., 2004: Brenda Feuster
 Oct., 1960 - Dec., 2000: Charles A. Geerhart & Joyce J. Geerhart
 Aug., 1940 - Oct., 1960: Eugene F. Boone & Kathleen C. Boone
8. The lot shown herein comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.
9. Reference: Parcel 183, Liber 9043 Folio 433.
10. All reasonable efforts to find the locations of all surrounding septic systems have been utilized by the engineer.
11. Any changes to a private sewage easement shall require a Revised Percolation Certification Plan.
12. All existing septic systems and sewage disposal systems located within 200 feet down gradient of existing and/or proposed septic systems and sewage disposal easements have been shown.
13. Surrounding properties are utilizing public water.
14. No streams, ponds, wetlands, floodplains, slopes >25% (steep slopes) are found on this site or on adjacent properties within 100 feet.

"I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PREFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF."

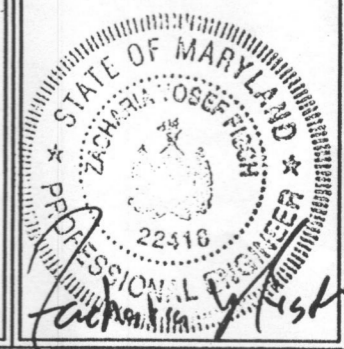


ZACHARIA YOSEF FISCH, P.E. #22418
 FSH ASSOCIATES
 DATE: 6/8/07

PURPOSE NOTE
 The purpose on this plan is to establish a 10,000 sf. septic area for an existing house/ parcel due to a proposed boundary line adjustment.

PERCOLATION CERTIFICATION PLAN
CASWELL PROPERTY
 11400 FREDERICK ROAD
 A# 5526677

TAX MAP 16 GRID 15
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND



FSH Associates
 Engineers Planners Surveyors
 6339 Howard Lane Elkridge, MD 21075
 Tel: 410-567-5200 Fax: 410-796-1562
 E-mail: info@fsheri.com

DESIGN BY: HS
 DRAWN BY: HS
 CHECKED BY: ZYF
 SCALE: 1"=30'
 DATE: June 8, 2007
 W.O. No.: 3033
 SHEET No.: 1 OF 1

OWNER
 WILLIAM P. CASWELL
 ANGELA D. CASWELL
 11400 Frederick Road
 Ellicott City, Maryland 21042-2014

DEVELOPER
 GREENFIELD HOMES, Inc.
 RICK MINOR
 6656 Luster Drive
 Highland, Maryland 20777
 410.781.6782

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 6/15/2007

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 6/15/2007