

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 524125

AGENCY REVIEW: _____

DATE 2/24/06

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: (5)

- 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) Mr. Kevin Riely

DAYTIME PHONE 410-765-6145 CELL _____ FAX _____

MAILING ADDRESS 1209 McCorkley Ave Catonsville Md 21228
STREET CITY/TOWN STATE ZIP

APPLICANT Hatfield's Equipment Inc

DAYTIME PHONE 301-854-6172 CELL 410-984-0047 FAX 301-490-5794

MAILING ADDRESS PO Box 519 Annapolis Junction MD 20701
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS 13919 Forsythe Rd Sykesville Md
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.

Jeff Ren
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 _____

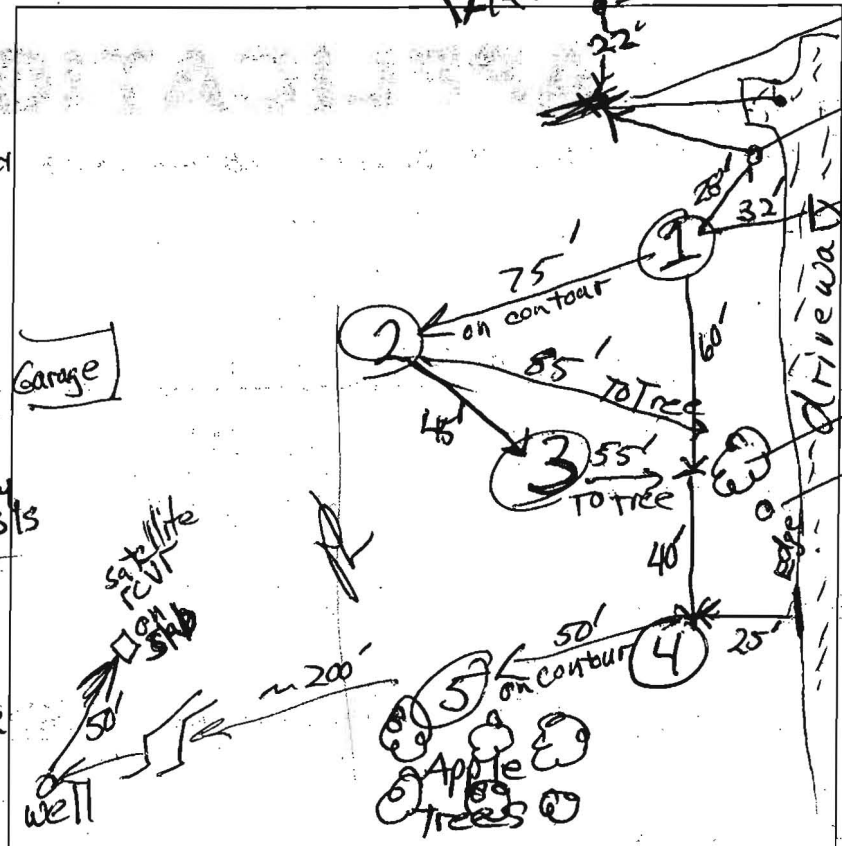
SANITARIAN _____ BACKHOE _____ OTHERS _____

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

8/28/2006
reb

#1 HO-73-0156 well 177ft. ↑ NW



①
BR top soil
1' Yellowish Red SLM
25' 0.2 gravelly
5' stony Yell Red SLM
6' Saprolite
Red brn sl gravelly
12' Soft grey ss
②
1' Brn top soil
sl, 2 f & sbk
1' Brn sel 2 f & msbk
8 1/2' Brn sl 1 csbk
3' multicolor Saprolite
5' Ø m, 15
multicolor 15 w/ fougles
very stony 15
wk. sem. gneiss

③
1' BR top soil
RDYCL BR
SLM
ST. STRUCTURE
Sub ang. Blocks
3' RDYCL BR
SLM
Saprolite
7' veins very
9 1/2' gravelly
multi color
lms
(soft gneiss)
13.5'

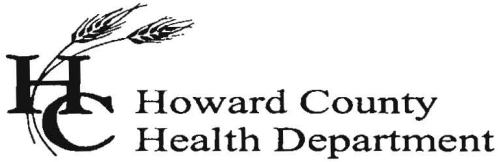
cleanout
old septic trench
utility pole
centerline driveway
4.5 ft dia. White Oak utility pole
④
1' BR top soil
Yell BR
mod. Sub-Ang Blocks
2' SLM
RDYCL
SLM
Saprolite
1/2' RDYCL Saprolite
FSLM

8 1/2' Gravelly
13' soft gneiss
⑤
1' BR top soil
RDYCL
FSLM
st. sub ang blocks
3' RDYCL BR
FSLM
micaeous
6' saprolite starts
5' 6" gravelly
soft gneiss
& wk cemented
14' gneiss

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/28	1	5' 12'	0	2'08	4'14	2	P
8/28	2	4' 13'	0	2'15	6'33	4	P
8/28	3	5' 13 1/2'	0	3'20	10'25	7	P
8/28	4	6.5' 13'	0	5'28	15'07	10	P
8/28	5	6' 14'	0	2'38	5'05	2	P

REMARKS Aboveground electric service line crosses site
SANITARIAN AT/28 BACKHOLE DANNY (Hartfield) OTHERS LEE, Jeff Kevin
TEST HOLES USED IN SDA 5 AVG. PERC TIME 5 min SQ. FT/BR 180 Reilly
TRENCH WIDTH 3 INLET DEPTH 3' MAX. BOT DEPTH 5' EFFECTIVE SW 2'

$900 \div 3 = 300$
 $300 \times 180 = 54000$
 $54000 \div 3 = 18000$
 $18000 \times 0.62 = 11220$ linear feet
 $720 \div 3 = 240$
 $240 \times 0.62 = 150$ linear feet



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-899-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

September 5, 2006

Kevin Riely
1209 McCorley Ave.
Catonsville, Maryland 21228

RE: PERCOLATION TEST RESULTS, A-524125

Dear Mr. Riely,

Percolation testing conducted August 28, 2006 on the referenced property indicated satisfactory soil conditions. A copy of the Percolation Test Results worksheet is enclosed with this letter. Please note that the recommended depth of trench and usable sidewall for septic system design shown on the worksheet are based on observed soil properties and characteristics at this location as well as the particular soil material tested. Also note that five holes were dug and percolation tests conducted. Adjusting the test hole locations for topographic conditions, hole # 4 was setback (re: moved) to a point 25 feet uphill from the edge of the gravel driveway, and subsequently hole # 5 was placed about 50 feet away (from #4) and approximately on contour.

An essential factor considered that effects determination of both the required capacity of the septic tank and the length of treatment trench in the drainfield is the number of bedrooms in the residence discharging to the septic system. At this time, the Percolation Test Plan shows 3 bedrooms in the planned new residence. A 1,000-gallon septic tank is required for a three bedroom residence. If bedrooms are added in the future, a larger septic tank will need to be required, e.g. 1500 gallon capacity for 5 bedrooms. Similarly more treatment trench is required. Calculations for a range of numbers of bedrooms in the residence planned at this location are shown on the Percolation Test Results worksheet.

An existing well (tag# HO-73-0156) was observed on the subject property. Water samples from this well will be tested and the well will be inspected for compliance with current code before an occupancy permit will be issued for the proposed residence. The well is to be protected from disturbance or destruction during all phases of property redevelopment. Similarly the integrity of the SDA is not to be compromised at any time; installation of drainfield trenches the only acceptable excavation activity that should occur in that described area.


Regarding current status of testing and results for the subject property at 13919 Forsythe Road, further review is contingent upon submission by a registered engineer/surveyor of a Percolation Certification Plan that includes the following items:

1. 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, etc.
2. Name, address and telephone number of each owner, developer and the plan author.
3. The date the plan was drawn, the plan scale (1:30 – 1:100), a scaled vicinity map and, if not a Preliminary Plan, the A # (percolation test fee receipt number, referenced in the HCHD correspondence).
4. Health Officer signature block conditioned with the statement, “Approved for private water and private sewerage systems”.
5. Existing and proposed property lines.
6. All excavated test holes observed by HCHD inspector, identified according to the original percolation testing proposal, or as otherwise identified at the time of testing; staked holes not dug should not be shown.
7. **Actual** surveyed elevation (not based on County Aerial topography) of each test hole.

8. Legend symbols to distinguish holes, which passed, failed, or were held for re-review (e.g., for wet season).
9. Legend symbols to distinguish between existing holes previously documented and new holes.
10. Proposed minimum 10,000 sq. ft. SDA for each lot that does not encroach upon any setback described by regulation.
11. A table detailing maximum number of bedrooms, total SDA area in square feet, average per cent time, and number of square feet of septic capacity per bedroom. **(10,000 ft. requirement not applicable if lot(s) were created before March 1972)**
12. Field verified (field run) topography at 2-foot vertical intervals and statement certifying filed verification of topographic features.
13. 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'.
14. Identification of streams, ponds, wetlands, floodplains, slopes >25%, soil types and soil type boundaries.
15. Proposed structure footprint, or suitable house site (55' x 70'), with Building Restriction Lines as determined by other County agencies.
16. All existing wells and proposed wells that are down gradient and within 200 feet of existing or proposed septic systems (including SDAs), and those existing or proposed septic systems locations (including SDAs).
17. All existing wells, septic systems and sewage disposal easements within 100 feet of property boundaries and a certification note stating that all are shown.
18. 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."
19. For this lot created after March 1972, the following statement shall be included on the Percolation Certification Plan: "This area designates a private sewage easement of at least 10,000 square feet as required by Maryland Department of Environment for individual sewage disposal. Improvements of any nature in the designated area are restricted. This easement shall become null and void upon connection to a public sewage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary."
20. If adjustment of previously approved SDA, show area gained, area lost, and final SDA; calculate square footage for each; and shade any area to be abandoned differently than any new SDA to be established.

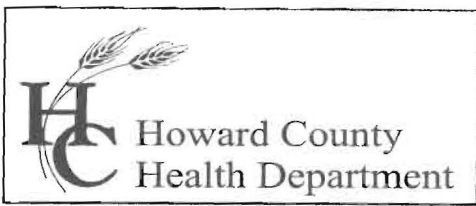
If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Respectfully,


Robert C. Bricker, Jr., CPSS
Well and Septic Program
Development Coordination Section

Enclosure

Cc: Joseph Purdy, CLSI, Westminster, MD
Jeff Reiter, Hatfield's Equipment, Inc.
File



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

Penny E. Borenstein, M.D., M.P.H., Health Officer
August 14, 2006

MEMORANDUM

TO: Joseph E. Purdy, Jr.
CLSI, Inc.
439 East Main St.
Westminster, MD 21157-5539

FROM: Robert C. Bricker, CPSS
Bureau of Environmental Health
Well and Septic Program

rcb

RE: Percolation Test Plan
13919 Forsythe Rd.
Sykesville – 3.15203 Ac.
Map 9, Grid 1, Parcel 162, Lot Par. 1

This communication is to advise you of the Howard County requirements for Percolation Test Applications, and specific details regarding the septic easement (SDA) described on the subject property in April 1989. The Percolation Test Application submitted on behalf of your client, Mr Kevin Riely (developer), shows an SDA described with passing perc tests at each of four corners. The SDA as depicted on this plat does not meet current regulated requirements for SDAs in Howard County. Due to the fact that the residence for which the Septic easement of record is being (or has been) demolished, any new residence constructed on this lot must have a described and approved SDA that meets current requirements.

The area of an SDA must be at least 10,000 sq. ft. and be of sufficient size to accommodate three septic drainfields, 1 primary system and two replacements. None of this area may lie within setbacks described by COMAR 26.04.02.05. Specifically in reference to the Percolation Test Application submitted with your Letter of Transmittal (July 31, 2006), the SDA must be shown to be at least 10 feet distant from the lot line which describes the northern boundary of the subject property, regardless of the actual or assumed location of any previously completed percolation test point. Similarly, the south margin for the SDA must meet the requirements for either of these two conditions: 1) at least 10 feet from the cut area on which the existing stone driveway is located, or 2) at least 25 feet from slopes greater than 25% that appear to occur in the area immediately south of the existing stone driveway.

Please be advised that our files contain only two complete records for the septic easement as it was described in 1989. The complete records are for Perc Test numbers 1 and 3, representing the extreme uphill corners of that described easement. It seems likely that your proposal should extend the SDA down slope (north of the driveway), including an area within its bounds of at least 10,000 sq. ft. that does not encroach upon required setback areas, and will accommodate three systems laid out on contour, each system large enough to dispose of the estimated volume of wastewater generated by the occupants of a five-bedroom residence.

Assuming that the additional 3 or 4 percolation tests 'Pass', and the 10,000 sq. ft. SDA is validated, a subsequent Percolation Certification is required to include the following information that is not now accurately depicted in the Percolation Test Plan: depict field verified two-foot contour intervals and a statement certifying the field verification; slopes >25%; soils boundaries and soil types, and a proposed 1,500-gallon septic tank.

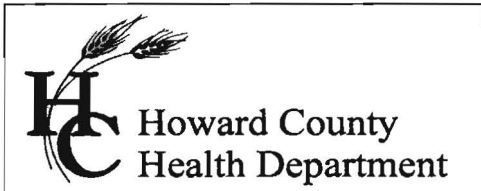
Please re-submit your Percolation Test Plan that incorporates the corrections that are necessary and can be reasonably achievable at this time.

If you have any questions concerning these comments please call 410-313-2691.

For your reference I have attached copies of Howard County Health Department documents that describe the requirements for content of a Percolation Test Application, setback requirements, and content requirements for subsequent Percolation Certification. Also I have attached a copy of the Memorandum (February 6, 2006) sent to the developer, advising him of the SDA requirements for new development on the subject property.

ENCLOSURES
CC: file

RB




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Penny E. Borenstein, M.D., M.P.H., Health Officer

MEMORANDUM

TO: Joseph Purdy
CLSI, Inc.

FROM: Robert Bricker, CPSS 
Well and Septic Program
Development Coordination Section

RE: Percolation Certification Plan: PC524125,
(Kevin Riely) 13919 Forsythe Road, Sykesville

DATE: September 26, 2006

Please address the following items on the above referenced plan. I am providing comments on photocopies of specific areas of the submitted perc-cert plan (9/13/06) on the following 6 pages.

Beginning in the lower right corner: Use 'County File No. PC524125'

In the CLSI certification block the entry for 9/13/06 is more appropriately 'Revision as Percolation Certification Plan/Site Development Plan' (This is our first opportunity to comment on this perc cert plan.)

In the title block, the proper title for this plan is 'Percolation Certification Plan/Site Development Plan'.

The correct address for the subject property is 13919 Forsythe Road.

There are 2 Notes identified that may be more appropriately located in General Notes section. Also see comments on content of these notes.

In General Notes, insert a statement (re: note) concerning the existing septic system and well on the subject property, correct reference to **no 'other'** existing wells or septic systems, and delete the irrelevant note concerning drilling a well.

In Septic System Notes, the area of the septic easement in one of the notes (probably #1). Please finish Note #1.

I believe that in Note #3 you are trying to express units of square feet (sq.ft.) and feet (ft). Also please use more accurate wording for #3.

See corrections in Note #4 for these items: Invert of Septic System at House (must be 1.5' below Basement Elev.); Proposed Grade over Septic Tank; Invert at Distribution Box; Existing Ground at Distribution Box.

Add 'I.' to Note #4: 'Invert of first (re: highest elevation) trench: 487.00'

Concerning the actual drawing of the plan,

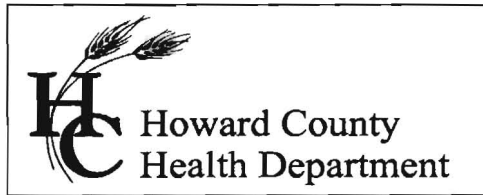
Relocate the Septic Tank and Distribution box as shown. Neither should be in the septic easement. The distribution box should feed the nearest line at about the 490 elevation contour.

Thence, the wastewater line from the house appears to be a straight line. Therefore place the line's cleanout at 70' (required) from the wall.

Adjust the Septic easement boundary, making a setback from driveway of 15 feet or greater at Perc Test # 4 and adding area on contour downhill from perc test #5. See comments on photocopy.

Handwritten initials 'MB' in black ink, consisting of a stylized 'M' and 'B'.

If you have any questions please feel free to contact me at 410-313-2691
Thank you.



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Penny E. Borenstein, M.D., M.P.H., Health Officer

MEMORANDUM

TO: Joseph Purdy
CLSI, Inc.

FROM: Robert Bricker, CPSS
Well and Septic Program
Development Coordination Section

RE: Percolation Certification Plan: PC524125,
(Kevin Riely) 13919 Forsythe Road, Sykesville

DATE: October 4, 2006

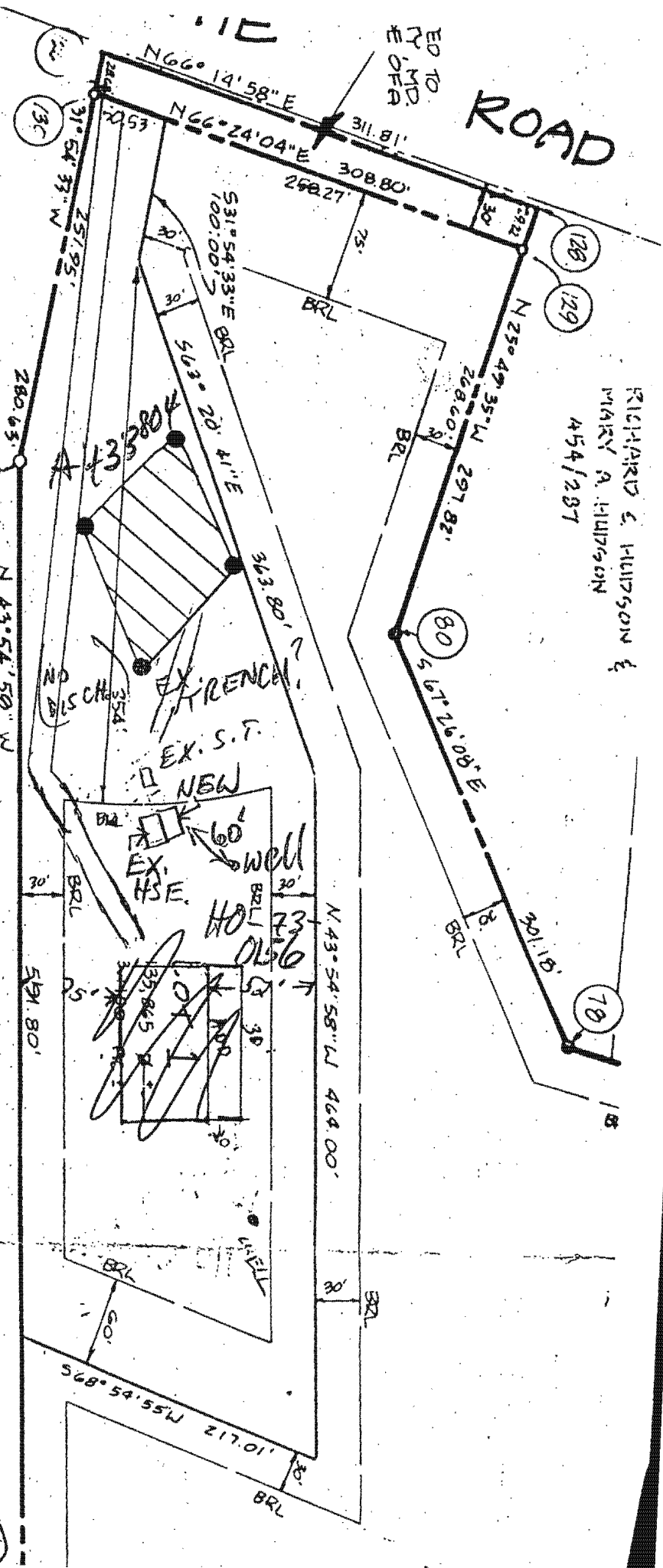
I have reviewed the recently submitted revision of the Percolation Certification Plan that addressed my September 26 comments. There remain a few corrections and details that have been overlooked.

- I. Soil mapping unit delineations need to be shown on the Percolation Certification Plan. Preferably these will be the 2003 soil delineations. The page following this MEMO has a diagram of soils on the subject property and information on where you may obtain the data.
- II. Put a cleanout in the sewage out line at 70 feet or less from the wall. Currently, the scaled distance is ~ 77 feet.
- III. In Septic System Notes,
Please finish Note #1: SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT APPROVAL HAS A TOTAL AREA OF **SQUARE FEET** AND AVERAGE PERCOLATION TIME OF 5 MINUTES. Please fill in the number that is area contained by the septic easement as shown. (This information will be included in a table in future Percolation Certification Plans submitted to this office.)
In Note #3, following 180FT delete the '/' and '2'. Also delete the word 'WITH' and insert the phrase 'AND EACH OF'.
In Note 4G, the invert at distribution box must have value less than 566.7.
Note 4I, delete the note.

IV. A second page following this MEMO shows correction of wording in the note concerning the area of septic easement shown. Please insert the words 'OF 10,000 SQUARE FEET'.

ROAD

RICHARD & HUDSON &
MARY A. HUDSON &
454/287



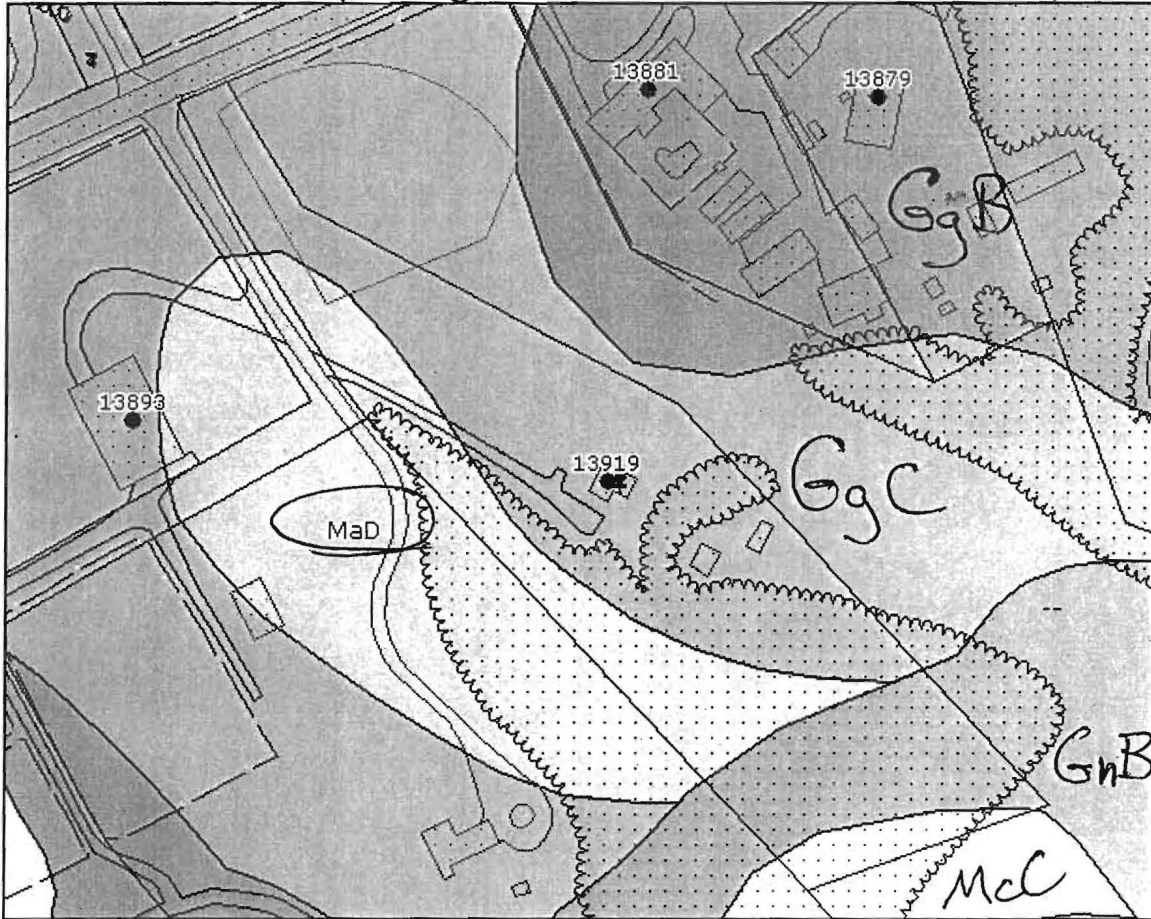
10/11/26 MR
MET TENANT
@ SITE: NO
IMPACT TO WELL,
BUT DOUBLING OF
HOUSE SIZE (22x30)
SHOULD RESULT IN
EXPANSION TO
SEPTIC; ADVISED
HIM
LETTER
GOING TO OWNER
MR

599,590 ft
3,935 ft
608,525 ft
15,767 ft
0.2051 AC
13,969 BACT

10/15/26 THIS RECORD
PLAT NOT
SIGNED, NEVER
REVIEWED;
SEE ENCLOSED
TAX MAP FOR
CURRENT ARRANGE-
MENT OF PROPERTIES
ACHIEVED BY
(MARY A. HUDSON & RICHARD & HUDSON)

LOCATION OF FINAL PLAT
OF LOTS AND/OR PARCELS TO BE RECORDED:
2
OF LOTS AND/OR PARCELS:
OF ROADWAYS TO BE RECORDED
DURING WIDENING STRIPS:
OF SUBDIVISION TO BE RECORDED:

Image from Howard County GIS.



reference Soil Survey of
Howard County (2003)

Soil delineations shown
for 13919 Forsythe Rd.

Howard County (2003) soil map may be
available for you to download.

<http://websoilsurvey.nrcs.usda.gov/app/>

In left margin, Click on 'Soil Data Mart'
Then 'Select State', 'Select County' and 'Select Survey Area'



RECEIVED
SEP 08 2006

BY:-----

Bureau of Environmental Health
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website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

September 5, 2006

Kevin Riely
1209 McCorley Ave.
Catonsville, Maryland 21228

RE: PERCOLATION TEST RESULTS, A-524125

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If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Respectfully,


Robert C. Bricker, Jr., CPSS
Well and Septic Program
Development Coordination Section

Enclosure

Cc: Joseph Purdy, CLSI, Westminster, MD
Jeff Reiter, Hatfield's Equipment, Inc.
File

① Topo map of area

Surrounding wells + lot well

② site plan of existing house with proposed house site

③ Georse Howard Bulden

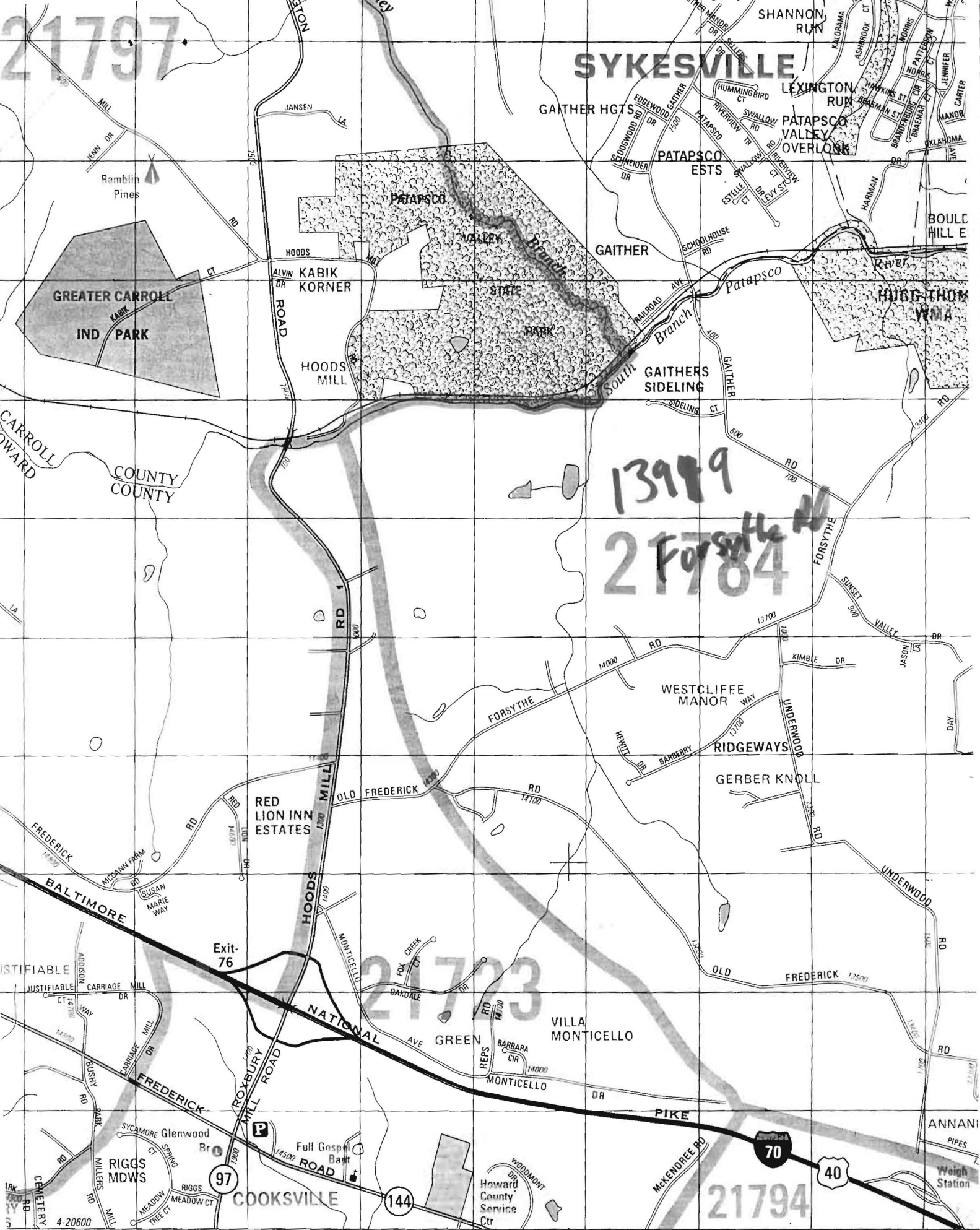
RECEIVED

MAR 15 2006

HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

21797

SYKESVILLE



13999
 21784

21793

21794

[Click here for a plain text ADA compliant screen.](#)

	Maryland Department of Assessments and Taxation HOWARD COUNTY Real Property Data Search	Go Back View Map New Search Ground Rent
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STR

Account Identifier: District - 04 **Account Number -** 319524

Owner Information

Owner Name:	HUDSON RICHARD C TRUSTEE HUDSON MARY A TRUSTEE	Use:	AGRICULTURAL
Mailing Address:	13881 FORSYTHE RD SYKESVILLE MD 21784-5812	Principal Residence:	NO
		Deed Reference:	1) / 4083/ 444 2)

Location & Structure Information

Premises Address	Legal Description
FORSYTHE RD SYKESVILLE 21784	PAR I 3.15203 A FORSYTHE RD SYKESVILLE

Map	Grid	Parcel	Sub District	Subdivision	Section	Block	Lot	Assessment Area	Plat No: Plat Ref:
9	1	162					PAR I	2	

Special Tax Areas	Town Ad Valorem Tax Class	NO A/V, NO M/P, RURAL FIRE TAX
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Primary Structure Built	Enclosed Area	Property Land Area	County Use
1920	1,134 SF	3.15 AC	
Stories	Basement	Type	Exterior
2	NO	STANDARD UNIT	SIDING

Value Information

	Base Value	Value As Of 01/01/2005	Phase-in Assessments As Of 07/01/2005	As Of 07/01/2006	
Land:	101,070	231,070			PREFERENTIAL LAND VALUE INCLUDED IN LAND VALUE
Improvements:	38,670	25,080			
Total:	139,740	256,150	178,543	217,346	
Preferential Land:	1,070	1,070	1,070	1,070	

Transfer Information

Seller: HUDSON RICHARD C	Date: 10/10/1997	Price: \$0
Type: NOT ARMS-LENGTH	Deed1: / 4083/ 444	Deed2:
Seller:	Date:	Price:
Type:	Deed1:	Deed2:
Seller:	Date:	Price:
Type:	Deed1:	Deed2:

Exemption Information

Partial Exempt Assessments	Class	07/01/2005	07/01/2006
County	000	0	0
State	000	0	0
Municipal	000	0	0

Tax Exempt: NO	Special Tax Recapture: AGRICULTURAL TRANSFER TAX
Exempt Class:	

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Michael L. Howard 10/6/06
 SIGNATURE OF ENGINEER DATE

DEVELOPERS CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED PUBLIC HEARING OF THE DISTRICT OF SEEDING AND EROSION BEFORE BEGINS. I ALSO ADVISE THE DISTRICT OF SEEDING AND EROSION BEFORE ANY AS ARE DEEMED NECESSARY.

Kevin P. Riely 10/6/06
 SIGNATURE OF DEVELOPER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

USDA - NATURAL RESOURCE CONSERVATION SERVICE DATE
 HOWARD SOIL CONSERVATION DISTRICT DATE

STANDARDS AND SPECIFICATIONS FOR TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil report issued by the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.

II. Topsoil Specifications - Soil to be used as topsoil must meet the following:
 1. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate regulatory agency. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of clumps, stones, disc cores, fragments, gravel, sticks, roots, trash, or other materials larger than 1" in diameter.
 2. Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutgrass, poison ivy, thistle, or others as specified.

III. Where the subsoil is either highly acidic or composed of heavy clay, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with stage operations as described in the following procedures.

IV. For sites having disturbed areas under 5 acres:
 1. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
 2. For sites having disturbed areas over 5 acres:
 a) On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 i) pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 ii) Organic content of topsoil shall be not less than 1.5 percent by weight.
 iii) Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 iv) No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control unless sufficient time has elapsed (14 days min) to permit degradation of phytotoxic materials.
 Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist, and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
 v. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

SEQUENCE OF CONSTRUCTION

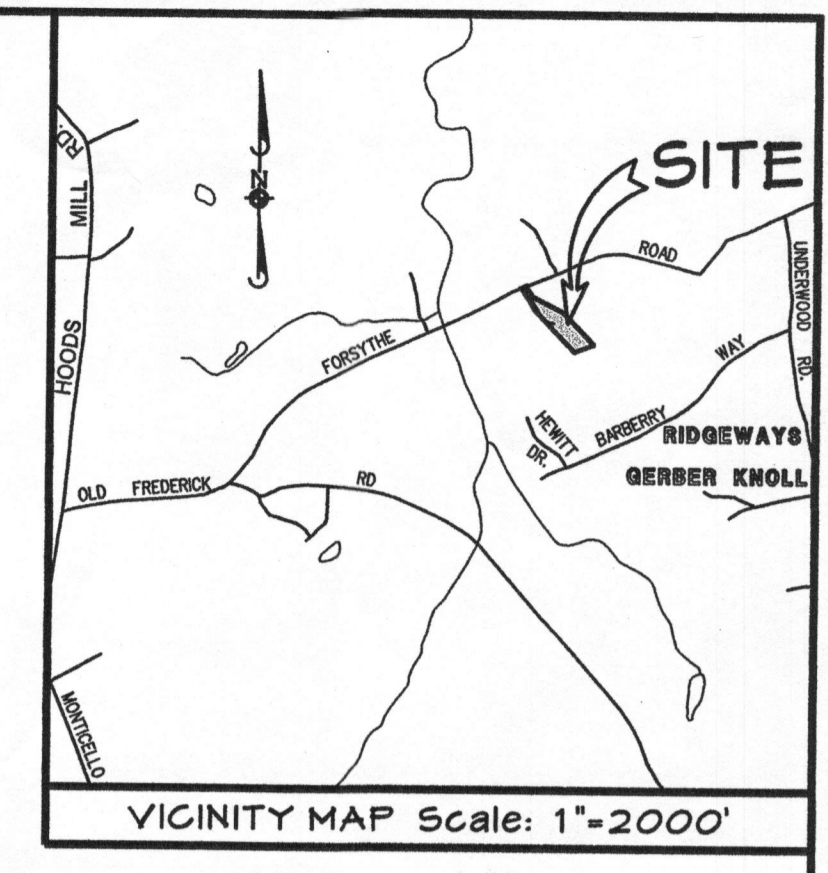
1. OBTAIN GRADING PERMIT.
2. INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (1 DAY)
3. PERFORM NECESSARY GRADING AND STABILIZE THE SITE. BUILD HOUSE (6 MOS.)
4. AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS. (2 DAYS)

Standard Sediment Control Notes

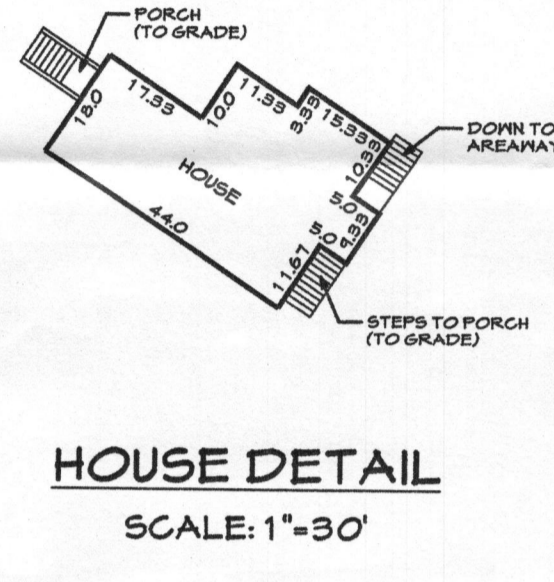
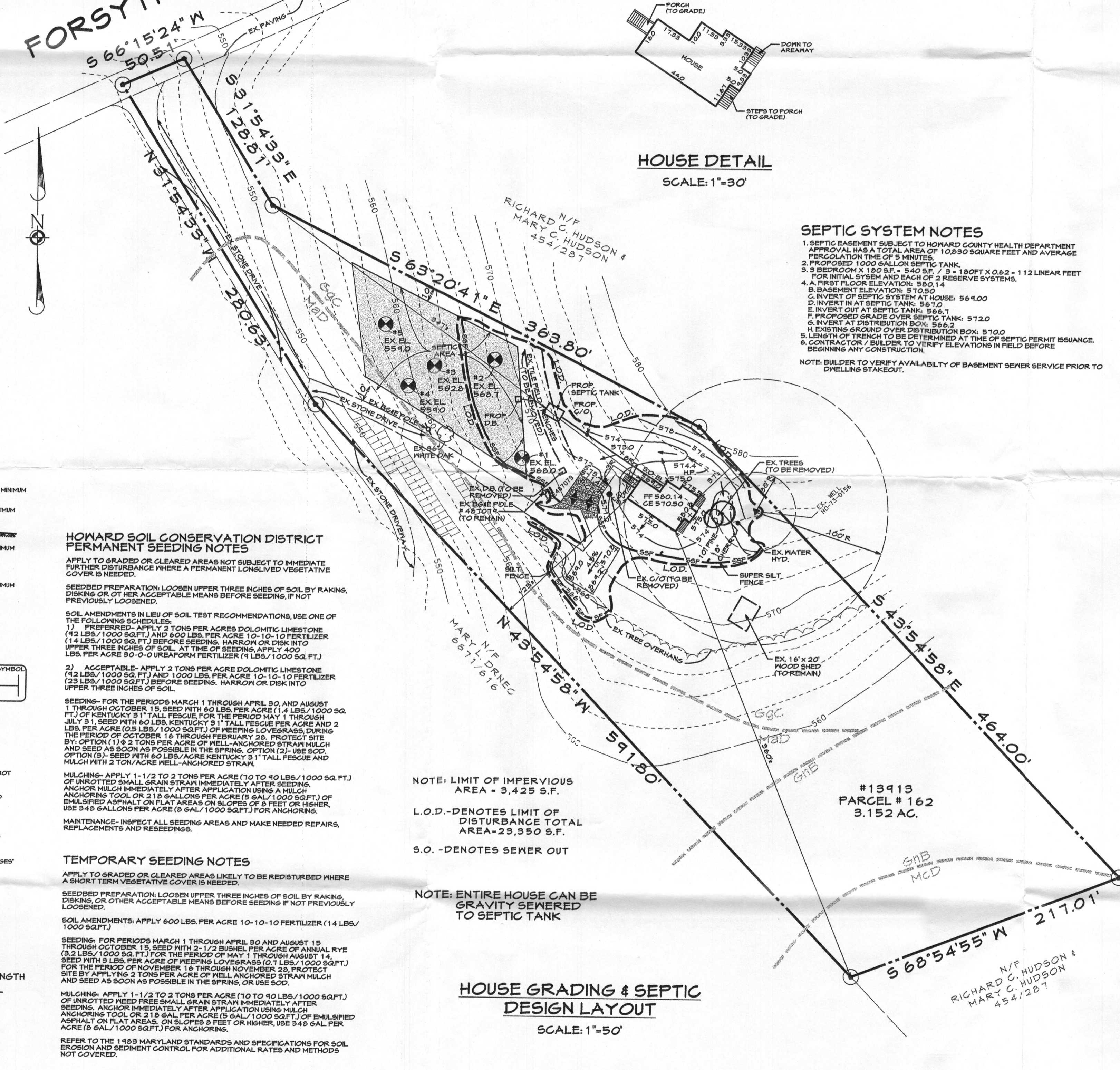
1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (S 15-1-155).
2. All vegetative and structural practices to be installed according to the provisions of this plan and are to be in compliance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within 47 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1. 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1414 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, for permanent seeding (Sec. 5-1), sod (Sec. 5-4), temporary seeding (Sec. 5-2) and mulching (Sec. 5-2). Temporary stabilization with mulch shall not be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:
 Total Area of Site: 3.1520 Acres
 Area Disturbed: 0.9360 Acres / 29,950 S.F.
 Area to be roofed or paved: 0.0781 Acres / 2,425 S.F.
 Area to be vegetatively stabilized: 0.9714 Acres
 Total Top Soil: 250 cu yds.
 Total Fill: 250 cu yds.
 Offsite water storage location
8. Any sediment control practice which is disturbed by grading activity for placement of utilities, must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection agencies may not be authorized until this initial approval by the inspection agency is made.
11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each workday, whichever is shorter.

GENERAL NOTES

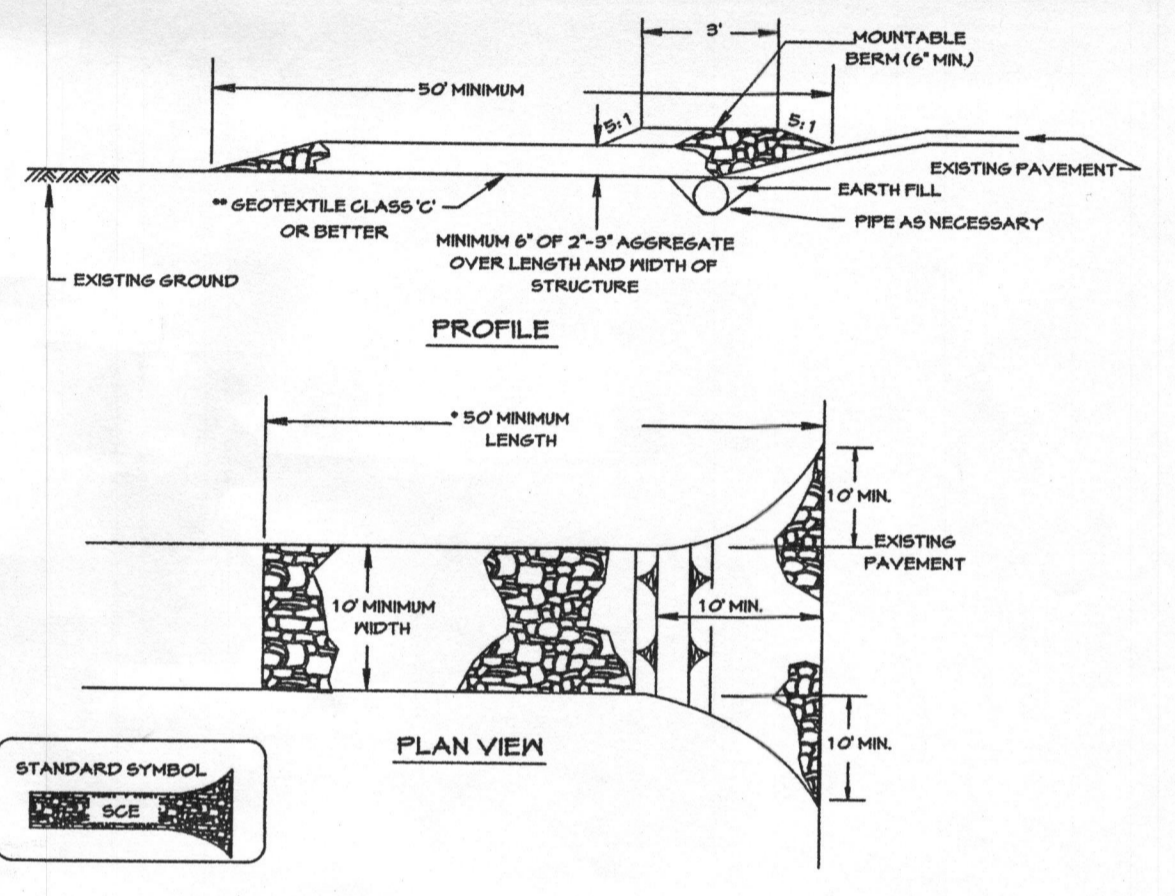
1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
2. EXISTING SEPTIC SYSTEM ON SUBJECT PROPERTY WILL BE ABANDONED, AND EXISTING WELL WILL REMAIN.
3. THERE ARE NO OTHER EXISTING WELLS AND/OR SEPTIC AREAS WITHIN 100 FEET OF THIS PROPERTY, FROM FIELD INSPECTION BY C.L.S.I. INC.
4. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
5. STORMWATER MANAGEMENT IS WAIVED BECAUSE THE TOTAL IMPERVIOUS AREA OF 3,425 S.F. IS IN ACCORDANCE WITH M.D.E. AND HOWARD COUNTY REQUIREMENTS.
6. THE EXISTING WELL(S) SHOWN ON THIS PLAN IDENTIFIED WITH THE ATTACHED HOWARD COUNTY 1:2004 TOPOGRAPHY MAP # 255. THE HORIZONTAL DATUM IS THE MARYLAND COORDINATE SYSTEM N.A.D. 1483 AND VERTICAL DATUM IS BASED ON N.A.V.D. 1488.



FORSYTHE ROAD



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



SEPTIC SYSTEM NOTES

1. SEPTIC BASIN SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT PERCOLATION TEST PERIOD OF 5 MINUTES.
 2. PROPOSED 1000 GALLON SEPTIC TANK.
 3. 3 BEDROOM x 180 S.F. x 540 S.F. x 3 x 180 FT x 0.62 - 112 LINEAR FEET FOR INITIAL SYSTEM AND EACH OF 2 RESERVE SYSTEMS.
 4. A FIRST FLOOR ELEVATION: 300.14
 5. BASEMENT ELEVATION: 510.50
 6. INVERT OF SEPTIC SYSTEM AT HOUSE: 564.00
 7. INVERT IN AT SEPTIC TANK: 56.10
 8. INVERT OUT AT SEPTIC TANK: 566.7
 9. PROPOSED GRADE OVER SEPTIC TANK: 512.20
 10. EXISTING GROUND OVER DISTRIBUTION BOX: 566.2
 11. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
 12. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.
- NOTE: BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING TAKEOUT.

LEGEND

- DENOTES APPROVED PERC HOLE LOCATIONS
- ▲ DENOTES EXISTING WELL LOCATION
- DENOTES STABILIZED CONSTRUCTION ENTRANCE
- DENOTES FLOW DIRECTION
- DENOTES EXISTING CONTOURS
- - - DENOTES SILT FENCE
- - - DENOTES SUPER SILT FENCE
- - - DENOTES LIMIT OF DISTURBANCE
- ▲ DENOTES MOUNTABLE BERM
- DENOTES 25% SLOPES
- DENOTES SOIL LINES

HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONGLIVED VEGETATIVE COVER IS REQUIRED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 1) PREFERRED: APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ.FT.) AND 800 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARRON OR DISK INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREA-FORM FERTILIZER (4 LBS./1000 SQ.FT.)

2) ACCEPTABLE: APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (28 LBS./1000 SQ.FT.) BEFORE SEEDING. HARRON OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE FOR THE PERIOD MAY THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.FT.) OF PEEPLING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY OPTION (A) 2 TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (B) USE 500 LBS. MULCH WITH 2 TON/ACRE WELL-ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (TO 40 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORS 100L OR 2 1/2 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED APHALLON ON FLAT AREAS OR SLOPES OF 2 FEET OR HIGHER, USE 3-48 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 15 THROUGH OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD OF MAY 1 THROUGH AUGUST 31, SEED WITH 3 LBS. PER ACRE OF PEEPLING LOVEGRASS (0.5 LBS./1000 SQ.FT.) FOR THE PERIOD OF NOVEMBER 16 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.

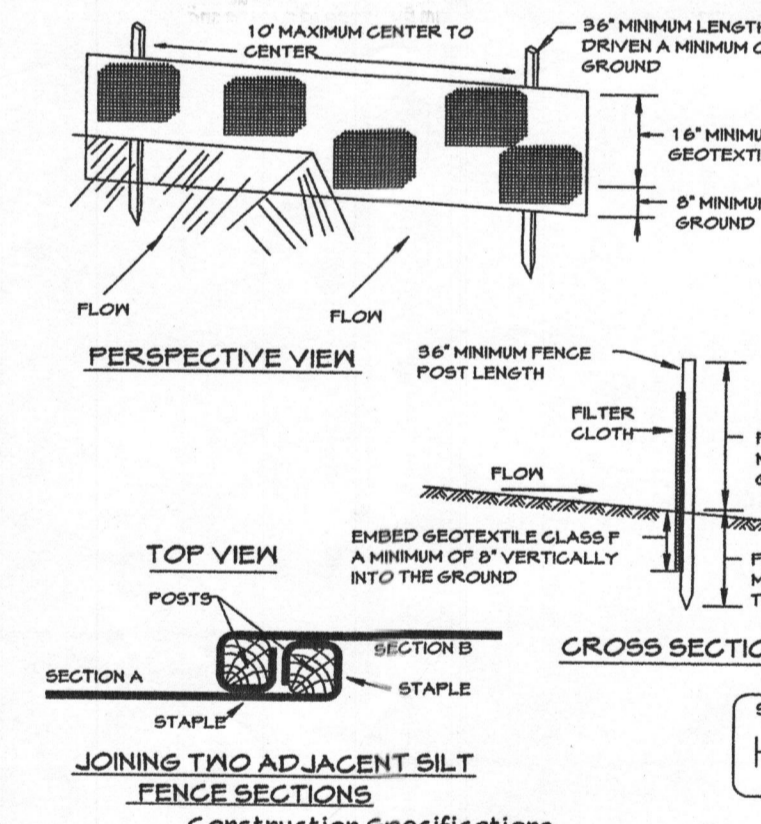
MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (TO 40 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORS 100L OR 2 1/2 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED APHALLON ON FLAT AREAS OR SLOPES OF 2 FEET OR HIGHER, USE 3-48 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1483 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

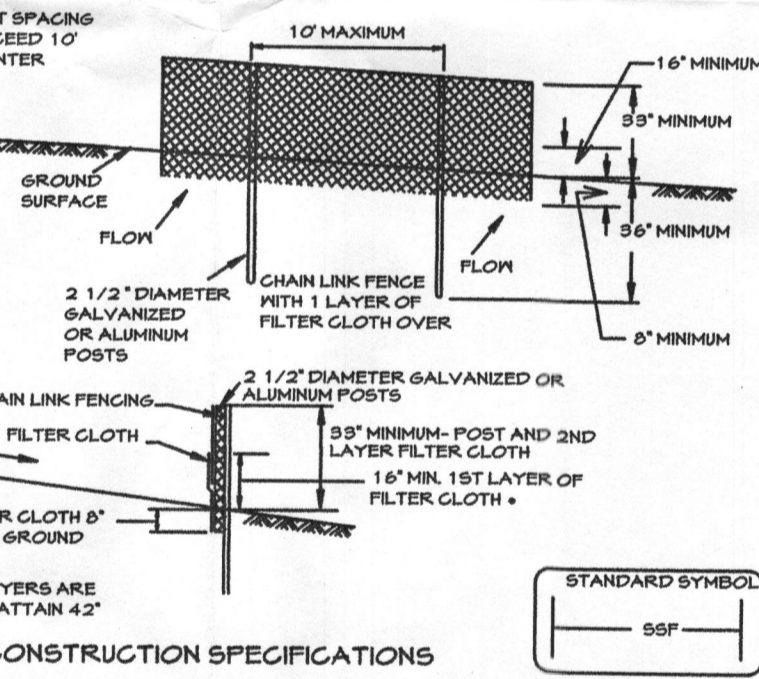
HOUSE GRADING & SEPTIC DESIGN LAYOUT

SCALE: 1"=50'

DETAIL 22 - SILT FENCE



DETAIL 33 - SUPER SILT FENCE



Construction Specifications

1. FENCE POSTS SHALL BE A MINIMUM OF 3/4" LONG DRIVEN 16" MINIMUM INTO THE GROUND. FLOOD POSTS SHALL BE 1 1/2" X 1 1/2" SQUARE (MINIMUM) CUT, OR 1 1/2" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION HEIGHTS NOT LESS THAN 1.00 POUND PER LINEAR FOOT.
2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS 6F:
 TENSILE STRENGTH 50 LBS./IN (MIN) TEST: HSMT 504
 TENSILE MODULUS 20 LBS./IN (MIN) TEST: HSMT 504
 FLOW RATE 0.5 GAL/FT²/MINUTE (MAX) TEST: HSMT 522
 FILTERING EFFICIENCY 15% (MIN) TEST: HSMT 522
3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TOGETHER BY HAND.
4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION EXCEEDS 50% OF THE FABRIC HEIGHT.

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 5:1	unlimited	unlimited
5:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	150 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

NOTE: IN AREAS OF LESS THAN 2% SLOPE AND BANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERMITTER CONTROL REQUIRED.

SOILS DATA

SOIL SYMBOL	SOIL SERIES	SOIL USE
gGc	GLENNVILLE	B
gNb	GLENNVILLE-BAILE	B
MdD	MANOR LOAM	B
MdD	MANOR LOAM	B

OWNER & DEVELOPER
 KEVIN P. RIELY
 6504 MCBETH WAY
 ELDERSBURG, MD 21114
 PHONE: 410-781-6546

THIS AREA DESIGNATES A PRIVATE SEPTIC RESERVE AREA OF 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS RESERVE AREA SHALL BECOME NULL AND VOID UPON CONNECTION OF PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE RESERVE AREA. REGORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

Robert J. Wicks 10/23/06
 COUNTY HEALTH OFFICER DATE

PERCOLATION CERTIFICATION PLAN AND SITE DEVELOPMENT PLAN
 MAP-9 GRID-1 PARCEL-162
13919 FORSYTHE ROAD
 4TH ELECTION DISTRICT • HOWARD COUNTY, MARYLAND
 DEED REF. 4083/444

Original Copy signed Per Cert, 10/23/06

PERCOLATION TEST RESULTS, A-524125

DATE	REVISIONS	JEP
8/15/06	REVISED SDA, ADDED ADDITIONAL PERC, AND ADJUSTED SITE ANALYSIS	JEP
9/29/06	NOTES, AS PER COUNTY COMMENTS	JEP
10/9/06	REVISED AS PERCOLATION CERT. PLAN/SITE DEVELOP. PLAN	JEP
10/9/06	ADDRESS COUNTY HEALTH DEPT. COMMENTS	JEP
10/9/06	ADDRESS COUNTY HEALTH DEPARTMENT COMMENTS #2	JEP

C.L.S.I.
 Civil Engineering & Environmental Consultants
 www.clsi-civileng.com

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 FAX (301) 662-8004

WESTMINSTER OFFICE:
 439 East Main Street
 Westminster, MD 21157-5539
 (410) 846-1790
 FAX (410) 846-1791

Alfred L. Hensard
 Professional Engineer Registration No. 29446
 Date: 1/28/2006
 Drawing No. 2006137
 County File No. PG524125

CAD Drawing File Name:

10/23/06 10:57:03 AM