

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

A/P 528954
DATE 7/18/08

AGENCY REVIEW: _____

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) GARY W UNVERZAGT

DAYTIME PHONE _____ CELL 410 984-3987 FAX _____

MAILING ADDRESS 11744 Tridelphia Road Ellicott City MD 212042
STREET CITY/TOWN STATE ZIP

APPLICANT Gary W Unverzagt

DAYTIME PHONE _____ CELL 410 984 3987 FAX _____

MAILING ADDRESS 11744 Tridelphia Road Ellicott City MD 21042
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME 315 LOT NO. _____

PROPERTY ADDRESS 315 Route 32 West Friendship
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE 5 Acres

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.

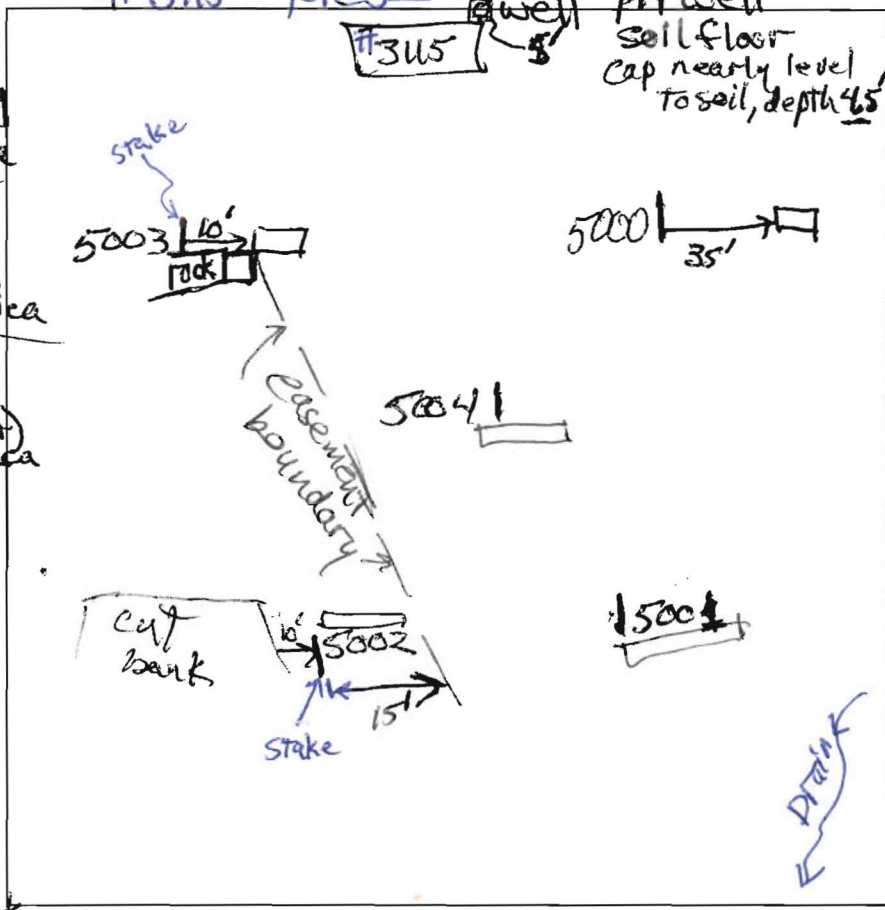
TEST RESULTS WILL BE MAILED TO APPLICANT. Gary W Unverzagt
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

#3115 Rte 32

pit well
soil floor
cap nearly level
to soil, depth 45'

5002
fill
0.8' grey-brn sl
common mica
med to coarse
platy
2.5' brn sl
zmsbk
common mica
5' red-brn sl
1msbk
heavy (slowy)
many mica
13' brn chsl
micaceous
13.5' brn chsl
micaceous
5003
fill
0.8' dk grey brn
sl, common
mica
coarse platy
few gravel
2' brn sl, 1msbk

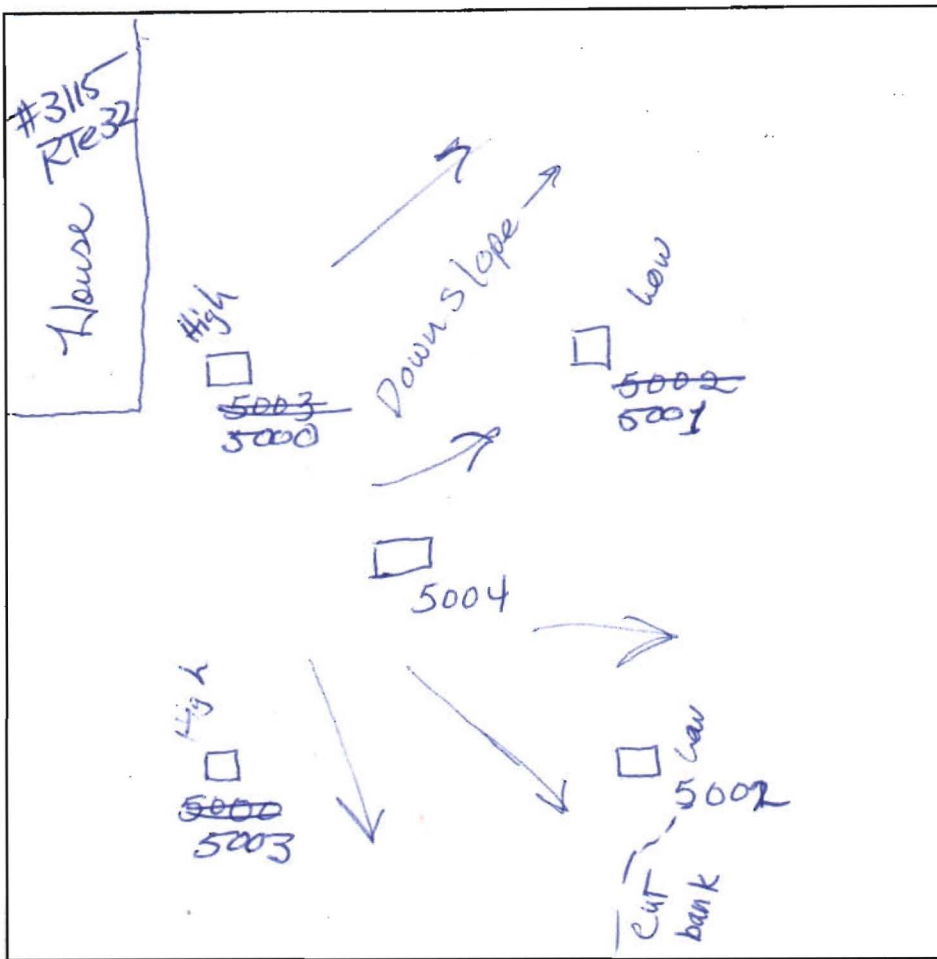


5000
0.3' brn sl
common mica
1.5' brn sl
zmsbk
common mica
3' brn sl, 1msbk
common mica
1' common med. roots
8.5' yel-brn flsl
saprolite
(mica schist)
1' few med roots
10.5' brn chsl
common
mica
2' A. brn chsl
fls (40% rock
frag)
hard digging
2' hard digging

6.5' yel-brn chsl
few flags
common mica
common to few
medium roots
8.5' brn ls chsl
w/ small inclusion
yel-red flsl
14' no roots

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/31/08	5002	6' / 8.5'	9:31	9:33:30	9:38	4:5	P
7/31/08	5000	11'	Visual	Side wall OK	2' to 7'		P
7/31/08	5003	14'	Visual	Side wall OK	2' to 8'		P
7/31/08	5001	4.5' / 10'	9:53	9:54	9:55	1.2	—
	Repair 5001	4.5' / 10'	9:56	9:58	10:00	2	P
7/31/08	5004	5' / 11'	10:32	10:34	10:38	4	P

REMARKS #5002 differs from rest of easement area
 SANITARIAN RB/OB BACKHOE Jeff (Hatfield) OTHERS Ken Hatfield, Gary Unverzagt
 TEST HOLES USED IN SDA _____ AVG. PERC TIME 5.5 SQ. FT/BR 125
 TRENCH WIDTH 20x3 INLET DEPTH 2 to 4 MAX. BOT DEPTH 6 (pit needed) EFFECTIVE S/W 2 to 4



5001
~~105~~
 1' Light Brown
 traces of
 rock sandy loam
 mica light & 2
 sandy loam
 20-30%
 clay
 1.5% Sphagnum (ch)
 2.0% organic
 brown
 4'
 Red
 Pale loamy
 sand 6'
 mica
 30-45%
 flat
 Light Brown
 loamy
 sandy 8'
 10'

stamp hole
 0.4' # 5004
 cut on right
 side
 Light Brown
 sandy loam
 mica 10%
 Pale Red
 in spots 4'
 sandy
 sand loam
 mica
 chsl 6'
 8'
 @ 8' 30% mica
 light sandy loam
 mica
 light Brown
 Brown
 light fawn
 sandy loam
 10'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/31/08	5001 5001	4 1/2 / 10	9:53	9:54	9:55	1 min	—
	Repair 5001	4 1/2 / 10	9:56	9:58	10:00	2 min	P
7/31/08	5004	5 / 10	10:32	10:34	10:38	4 min	P

REMARKS Sidewall begins at 2 ft. depth (except #
 SANITARIAN RB/DB BACKHOE Jett (Hatfield) OTHERS Ken Hatfield; Cary Haverzagt
 TEST HOLES USED IN SDA _____ AVG. PERC TIME LS SQ. FT/BR 125
 TRENCH WIDTH 2 or 3 INLET DEPTH 2 to 4 MAX. BOT DEPTH 6' at 5001
7' at 5004 EFFECTIVE SW 2 to 4



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

August 1, 2008

Gary W. Unverzagt
11744 Triadelphia Road
Ellicott City, Maryland 21042

RE: PERCOLATION TEST RESULTS, A-528954

Dear Mr. Unverzagt,

Percolation testing was conducted on the referenced property on July 31, 2008. Field data collected are shown on the Percolation Test Worksheet enclosed with this letter. The Percolation Test Results indicate soils' conditions that are satisfactory for onsite wastewater disposal.

Drainfield trench bottoms are to be 4 feet above restrictive horizons: Trench Bottoms may be as deep as 8 feet along the south boundary of the proposed septic easement. On the remaining portion, the Trench Bottom may be 7 feet in the upper easement area, but only 6 feet deep in the lower easement area. Three percolation times were recorded at 4.5 feet to 6 feet, and all were less than 5 minutes per inch of fall. Recommended Inlet and Trench Bottom depths, and Usable Sidewall will be provided for subsequent system design, and all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. The values for these parameters will be maintained in the Health Department file for the subject property.

After completion of the planned addition, the residence will have about 3000 sq. ft of living area, requiring a 1500-gallon septic tank. The existing septic tank and dry well are to be abandoned, and the replacement septic tank and drainfield installed during construction of the proposed addition. A condition will be assigned to the Building Permit requiring installation prior to Final Inspection.

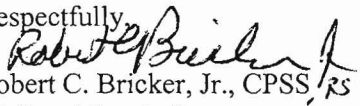
The existing well, a pit well, was observed. The well is located near the northwest corner of the existing residence, about 5 feet from the foundation wall. The well cap is nearly level with the soil floor at a depth of about 4.5 feet.

The well is to be upgraded prior to approval of the Building Permit Application. The steel casing is to be extended to a height of at least 8 inches above the soil surface. It is to have a 2-piece cap with a tightly fitted electrical conduit that extends to least 18 inches beneath the soil surface. A Pitless Adapter is to be installed at no less than 36 inches depth.

The well is to be protected during all phases of property redevelopment. Similarly the integrity of the septic easement is not to be compromised at any time; installation of drainfield trenches is the only acceptable excavation activity that should occur in that area.

The next step in this process is to have your engineering 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 calling (410) 313-2691.

Respectfully,


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

Enclosure: Percolation Test Results Worksheets (2)
Copy: Tony Fertitta, Fisher, Collins & Carter
File

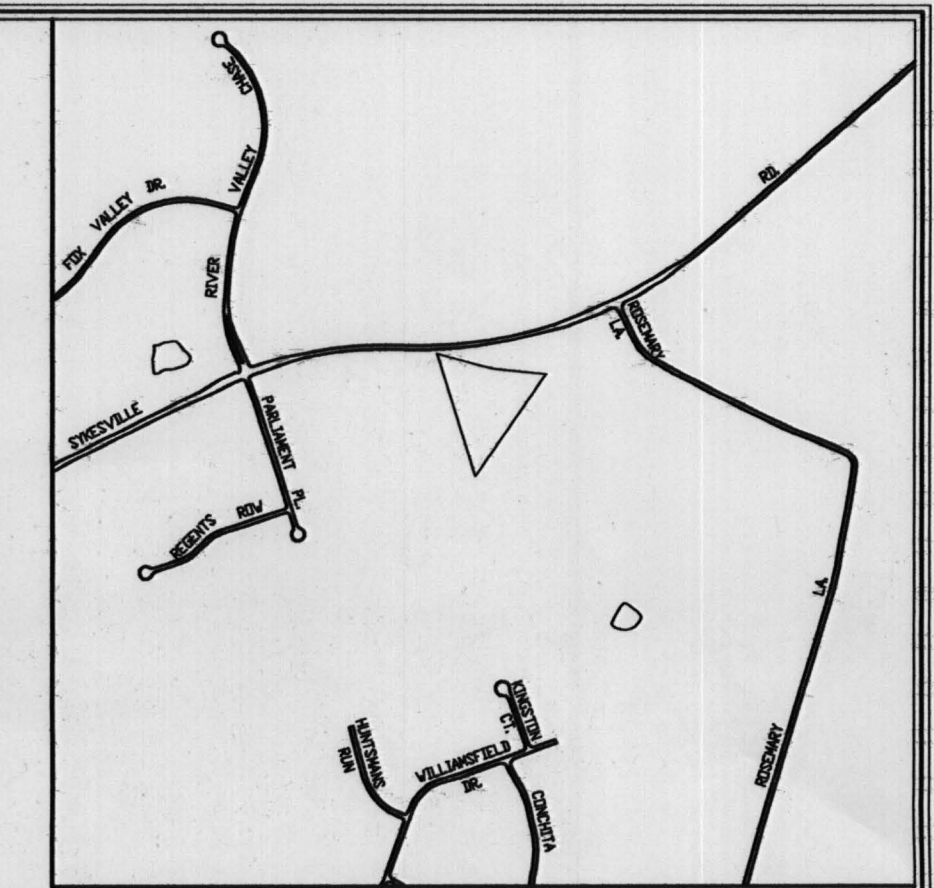
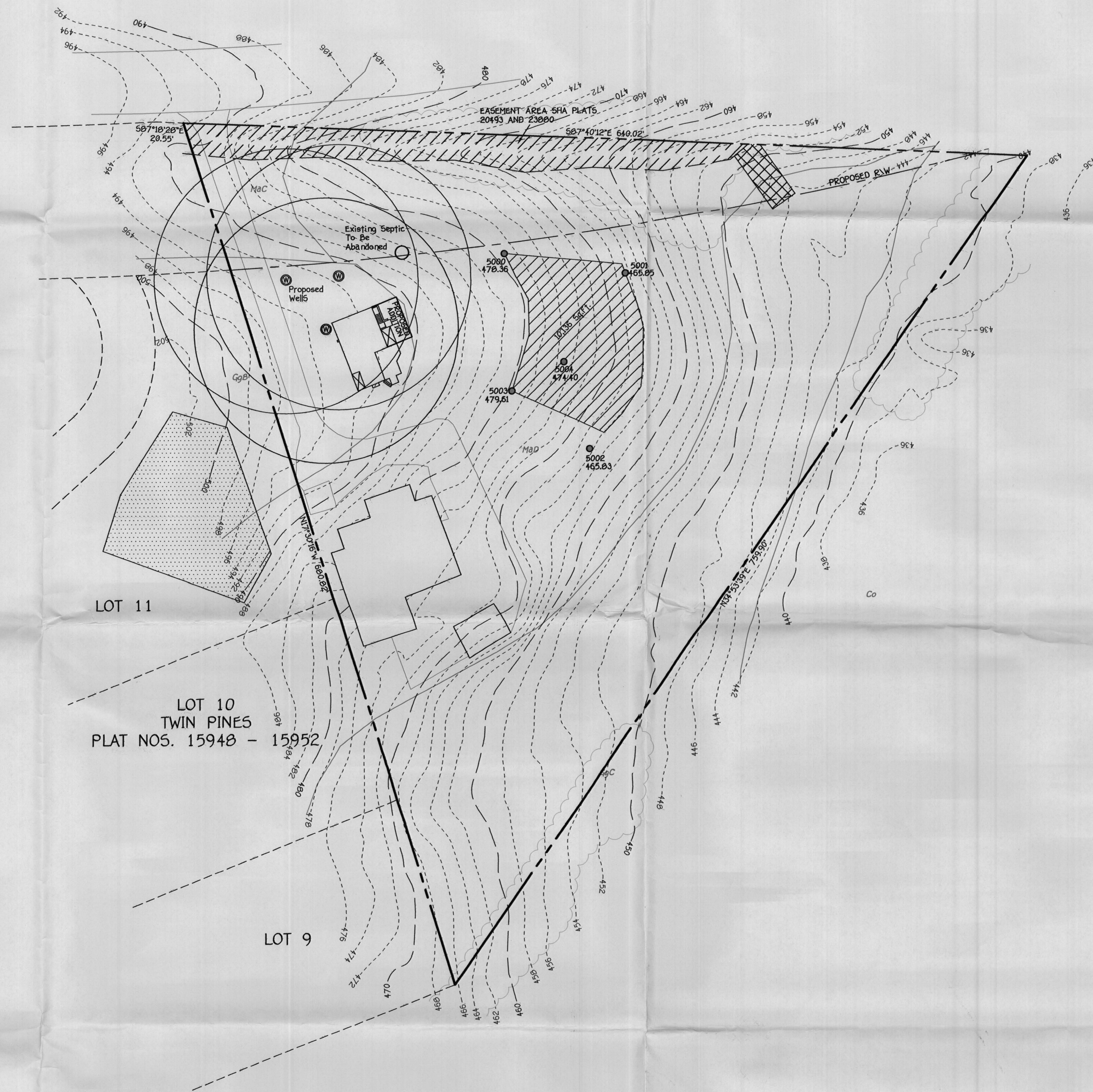
LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- ⊙ DENOTES FAILED PERC
- ⊙ DENOTES PASSED PERC
- ⊙ DENOTES PROPOSED HOUSE
- ▨ DENOTES 15% - 24.9% SLOPES
- ▨ DENOTES 25% AND GREATER SLOPE
- ⊙ DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

SOILS LEGEND		
SOIL	NAME	CLASS
Co	Codorus and Haysboro silt loams, 0 to 3 percent slopes	C
GgD	Glenelg loam, 3 to 8 percent slopes	B
GgC	Glenelg loam, 8 to 15 percent slopes	B
MaC	Manor loam, 8 to 15 percent slopes	B
MaD	Manor loam, 15 to 25 percent slopes	B

NOTES

- * Hydric soils and/or contains hydric inclusions
- ** May contain hydric inclusions
- † Generally only within 100-year floodplain areas



VICINITY MAP
SCALE: 1" = 1200'

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
7. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
9. DEED REFERENCE LIBER 223 FOLIO 169
10. AFTER COMPLETION OF THE PLANNED ADDITION, THE RESIDENCE WILL HAVE ABOUT 3000 SQ.FT. OF LIVING AREA, REQUIRING A 1500-GALLON SEPTIC TANK. THE EXISTING SEPTIC TANK AND DRY WELL ARE TO BE ABANDONED, AND THE REPLACEMENT SEPTIC TANK AND DRAINFIELD INSTALLED DURING CONSTRUCTION OF THE PROPOSED ADDITION. A CONDITION WILL BE ASSIGNED TO THE BUILDING PERMIT REQUIRING INSTALLATION PRIOR TO FINAL INSPECTION.
11. THE WELL IS TO BE UPGRADED PRIOR TO APPROVAL OF THE BUILDING PERMIT APPLICATION. THE STEEL CASING IS TO BE EXTENDED TO A HEIGHT OF AT LEAST 8 INCHES ABOVE THE SOIL SURFACE. IT IS TO HAVE A 2 PIECE CAP WITH A TIGHTLY FITTED ELECTRICAL CONDUIT THAT EXTENDS TO AT LEAST 18 INCHES BENEATH THE SOIL SURFACE. A PITLESS ADAPTER IS TO BE INSTALLED AT NO LESS THAN 36 INCHES DEPTH.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
410-481-1255

PERC CERTIFICATION
I certify that the location and depth of the well shown on this plan are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.
Signature of Professional Land Surveyor: *Terrell A. Fisher*
Terrell A. Fisher, Professional Land Surveyor, No. 00692
Date: 9/2/08

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.
B. Wilson for Peter B. Silveanu
COUNTY HEALTH OFFICER
DATE: 9/11/2008

PERC CERTIFICATION PLAT
3115 ROUTE 32

TAX MAP #22 GRID: 4 PARCEL: 119
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=50' DATE: SEPTEMBER 2, 2008



HOWARD COUNTY HEALTH DEPARTMENT

A5 28954

DATE
5 / 20 / 08

Received From

Laura U Beebe

PHONE # *410-489-0148*

3115 Route 32, West Friendship 21794

For *Per Application*

CASH

CHECK

3115 Route 32

NO.

2489

Five hundred and 00/100

Dollars

\$

506

00

Received By

Mary L Bugis