

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P _____

AGENCY REVIEW: _____ DATE _____

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) _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT _____

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 _____
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.

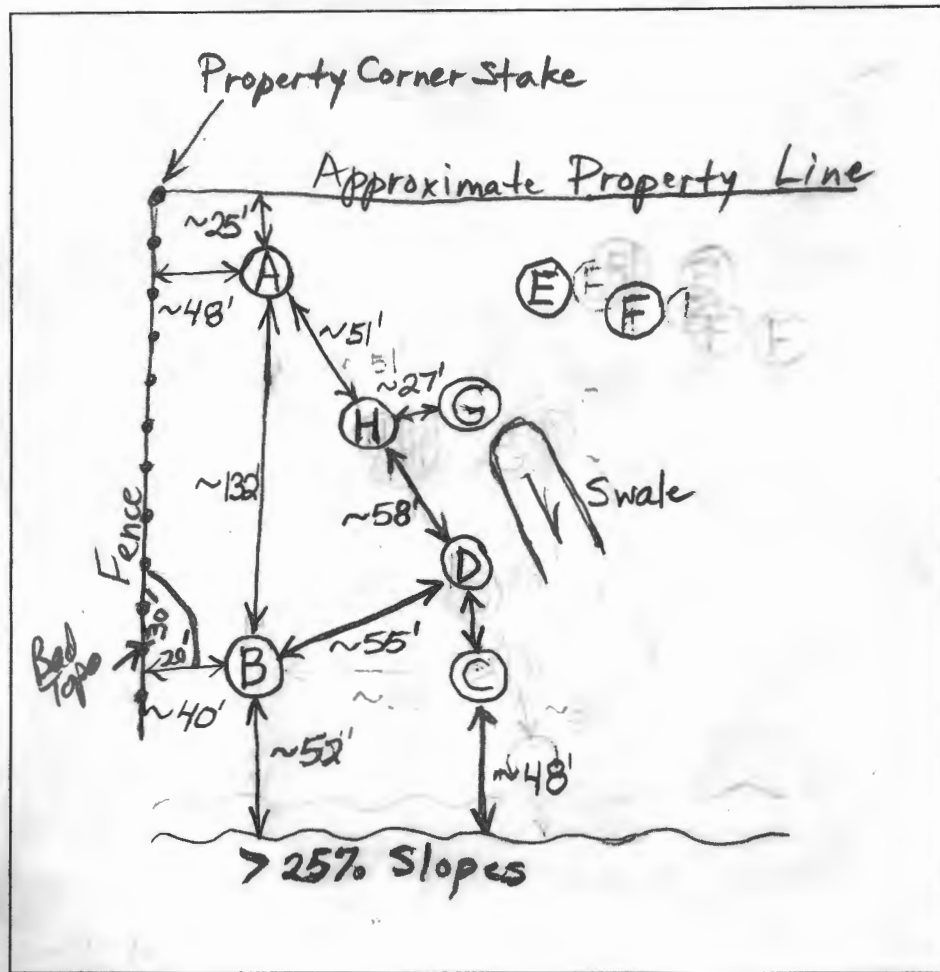
TEST RESULTS WILL BE MAILED TO APPLICANT. _____
SIGNATURE OF APPLICANT

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 (A)
 1.5' Br Loam
 Or Br Dense
 Fine Sa
 Loam
 Saprolite
 Increasing
 With Depth
 ~35-40%
 Near
 Bottom

(B)
 1.5' Br. Loam
 Dense Or
 Br Fine
 Sa Loam
 Excessive
 Rock on
 Downhill
 Side of
 Hole at 8.5',
 Below 11' on
 Upper End

(C)
 2'-2.5' Red. Br
 Loam
 >80%
 Rock at 6'



(D)
 Or Br Cl
 Loam 3'
 Or Br Dense
 Fine Sa
 Loam,
 Excessive
 Rock Below
 7' on Downhill
 Side of Hole,
 Below 12.5 on
 Upper Side

(E)
 >50%
 Rock
 Below 5'

(F)
 Red Br Loam 1'-1.5"
 Red Br
 Sa Loam 2'-2.5"
 Loamy
 Sand
 Hard
 Bottom 8'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
5/1/07	A	5' / 14' V	11:11:15	11:14	11:19	5	P
		2.5'	11:24	11:32	11:43	11	P
	B	4' / 13' V	12:02	12:10	12:24	14	P
	C	6' V					F
	D	4' / 12.5' V	1:01	1:04	1:12:30	8	P
	E	6' V					F
	F	3.5' / 8' V	1:41	1:41:55	1:43:20	Too Fast	F
		Repour	1:44	1:45:45	Too Fast		F
	G	14' V					

REMARKS Water Poured in Bottom of Hole A - Rate O.K.
 SANITARIAN B.B./R.B./K.W. BACKHOE R. Heaps OTHERS Homeowner
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



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PROPERTY OWNER(S) _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
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SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS _____
STREET TOWN/POST OFFICE

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

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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



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

May 14, 2007

Christopher and Penny Brackins
440 Woodbine Road
Woodbine, Maryland 21797

RE: PERCOLATION TEST RESULTS, REPAIR AND EASEMENT, A-526670

Dear Mr. & Mrs. Brackins,

Percolation testing was conducted on the referenced property on May 1, 2007. Field data collected are shown on the Percolation Test Worksheets enclosed with this letter. The purpose for conducting these tests was twofold: 1) to identify an area of soils suitable for an immediate repair (re: replacement of the residences failing dry well, and 2) identify enough area for two more drainfields so as to bring the property into compliance with Howard County Code.

Percolation Test Results indicate soils' conditions in the areas tested that are both satisfactory and unsatisfactory for onsite wastewater disposal. Soil characteristics and percolation times at test locations A, B, D and H are satisfactory. The shallow, extremely stony conditions at test locations C and E are unsatisfactory, and a percolation rate faster than 2 minutes at location F is unsatisfactory. The soil characteristics at location G indicate that it is in an area of subsurface water collection leading to the swale immediately down slope.

On May 7, a repair system was installed on the subject property. The repair drainfield consist of two trenches, 70 feet and 80 feet in length, respectively, installed near the subject property's southwest corner. The installation included a new septic tank, a pump tank and about 390 feet of effluent line leading to the drainfield distribution box.

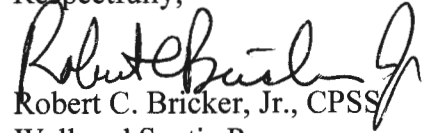
An easement can be defined that we believe is large enough to accommodate the recently installed system and 2 replacement systems. The south and west boundaries of the easement are defined by the 10-foot setback distance from the south and west boundaries, respectively. From a point on the south property boundary, 20 feet toward 'B' and then southwest to a point about 30 feet up the property line (toward the southwest property corner), there is an area that does not fit with the topography of the satisfactory soils. From a point about 20 feet north of the property fence, the septic easement east boundary is drawn through test locations 'B' and 'D'. Proceeding from 'D', the north easement boundary is defined by the 25-foot setback from a swale to test location 'H', and then is drawn to the north ends of the newly installed trenches. A sketch of the proposed easement is included with this report.

Further review of this proposal is contingent upon submission of a Percolation Certification Plan that meets state and county requirements. I have enclosed the list of requirements for a Percolation Certification Plan. Please show the proposed

pool location on the Percolation Certification Plan. It is my understanding that after approval of the Percolation Certification Plan, pool construction will begin on the subject property. The well is to be protected during all phases of construction.

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
Well and Septic Program
Development Coordination Section

Enclosures (3)

CC: File

APPLICATION

PERCOLATION TESTING

A _____

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER _____

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION _____

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG. _____

(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. _____

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

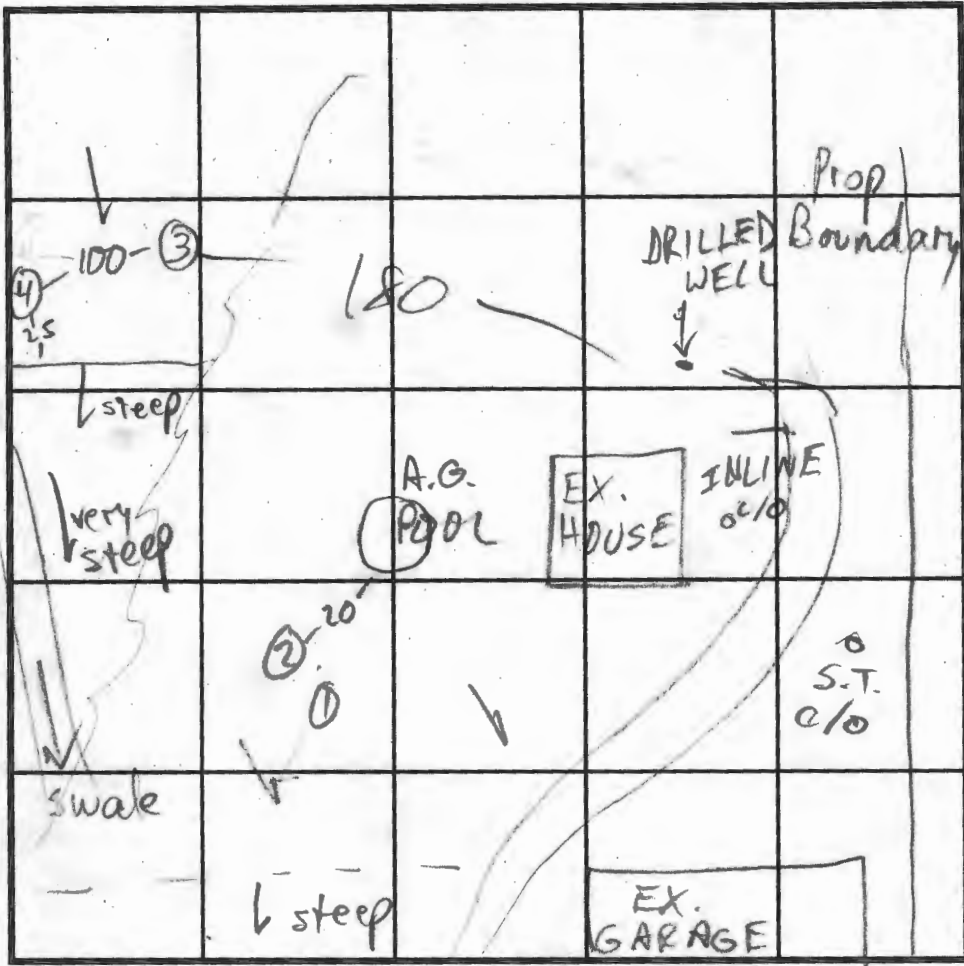
COUNTY #

SOIL PROFILE

0' ① ②
 orge
 brn
 cl m
 4-5
 25-50%
 frags
 tan brn
 si lm
 7-9
 REFUSAL

③
 org
 sic lm
 3
 tan brn
 sa lm
 25-35%
 shale
 7
 HARD
 BOT

④
 org
 sic lm
 3
 tan sa lm
 20-25%
 frags
 8
 could've
 gone
 deeper



SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
6/19/01	1 V	9'	FAIL - TOO MUCH RX + CL					
	2 V	7'						
	3 S	3'	11:56:00	12:00	12:00	12:07	7	
	3 M	6'	11:51	11:54:00	11:54:00	12:00	6	
	3 V	7'						
	4 S	3'4"	12:02	12:07	12:07	12:14	7	
	4 V	8'						

REMARKS _____
 TYPE OF SOIL _____
 TESTED BY _____ ALSO PRESENT _____
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
 INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

SITE INSPECTION SHEET

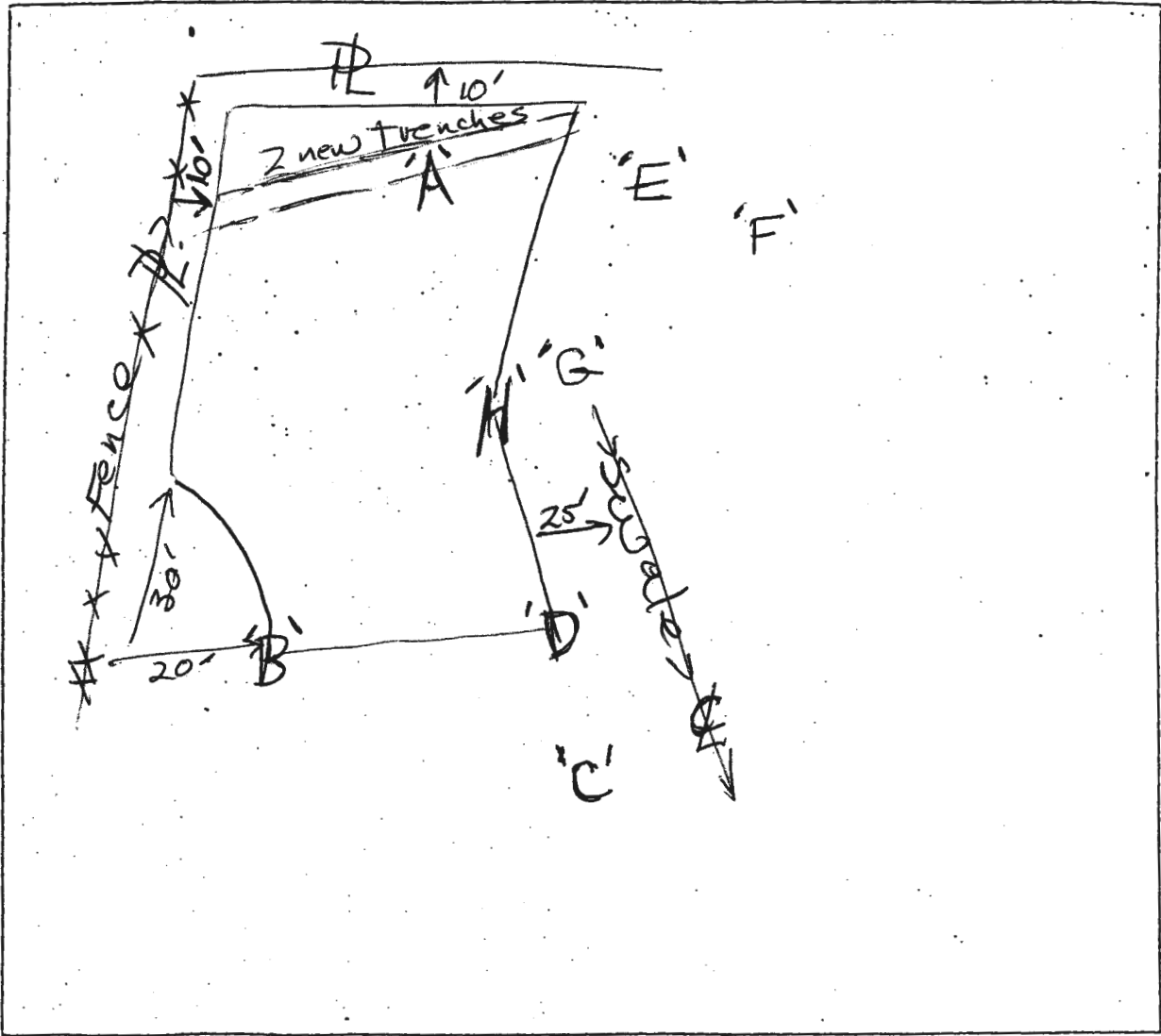
OWNER: Chris & Penny Brackins PHONE #: _____

ADDRESS: 440 Woodbine Road CONTRACTOR: _____
Woodbine WELL TAG #: _____

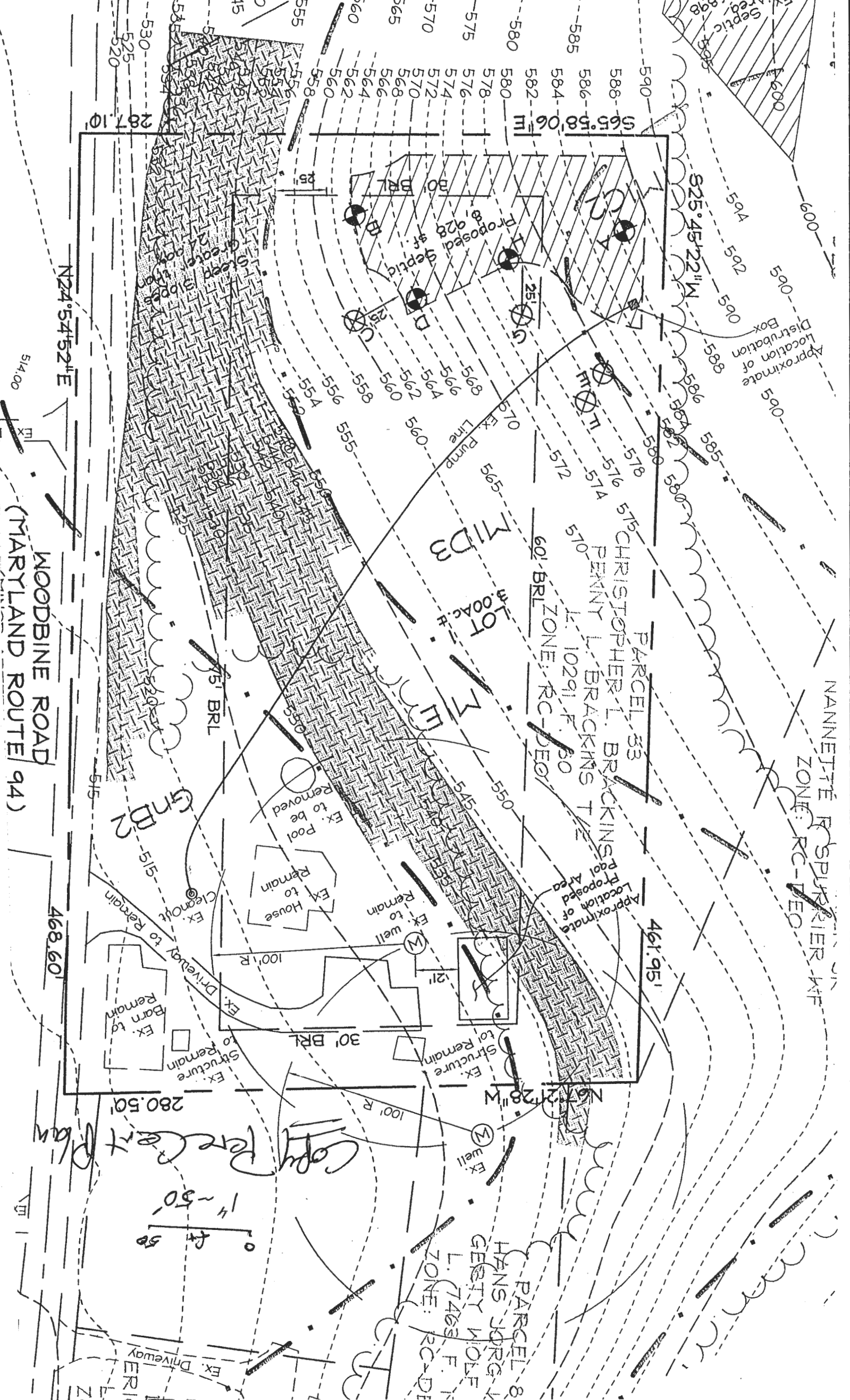
SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: Perc Test locations with proposed boundary for septic casement

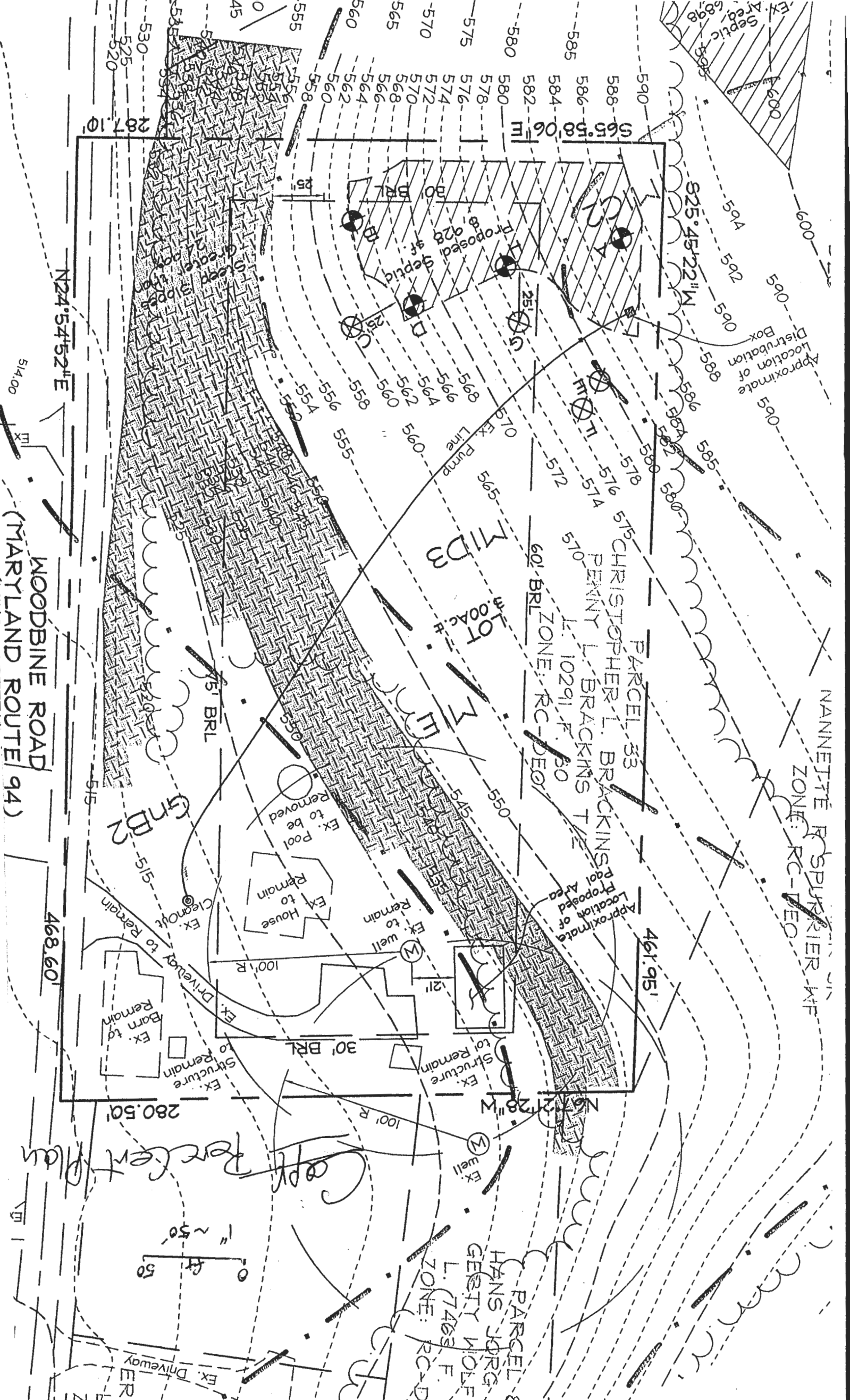
LOCATION DIAGRAM



COMMENTS: Test locations A, B, C, D, E, F, G & H all must be shown & the elevation given for each.



Copy Per Cent Plan



WOODBINE ROAD
(MARYLAND ROUTE 94)

N24°54'52"E
514.00'

468.60'

Copy Percent Plan

0' 50' 100' 150'

1" = 50'

Parcel 33
CHRISTOPHER L. BRACKINS
L. 10291, F. 30
601' BRL ZONE: RC-DEO

Parcel 34
HANS JORG GERTY MOLE
L. 740' F.
ZONE: RC-D

Parcel 35
NANNETTE R. SPURRER
ZONE: RC-DEO

Approximate Location of Pool Area

Proposed septic

Proposed 8' x 28' sf.

Pump Line

Ex. well

Ex. House to Remain

Ex. Pool to be Removed

Ex. Structure to Remain

Ex. Barn to Remain

Ex. Driveway to Remain

Ex. Driveway

Ex. Septic Area

Approximate Location of Distribution Box

590, 585, 580, 575, 570, 565, 560, 555, 550, 545, 540, 535, 530, 525, 520, 515, 510, 505, 500, 495, 490, 485, 480, 475, 470, 465, 460, 455, 450, 445, 440, 435, 430, 425, 420, 415, 410, 405, 400, 395, 390, 385, 380, 375, 370, 365, 360, 355, 350, 345, 340, 335, 330, 325, 320, 315, 310, 305, 300, 295, 290, 285, 280, 275, 270, 265, 260, 255, 250, 245, 240, 235, 230, 225, 220, 215, 210, 205, 200, 195, 190, 185, 180, 175, 170, 165, 160, 155, 150, 145, 140, 135, 130, 125, 120, 115, 110, 105, 100, 95, 90, 85, 80, 75, 70, 65, 60, 55, 50, 45, 40, 35, 30, 25, 20, 15, 10, 5, 0

N67°21'28"W
461.95'

N24°54'52"E
280.50'

S25°45'22"W
565.58, 58.06 FT

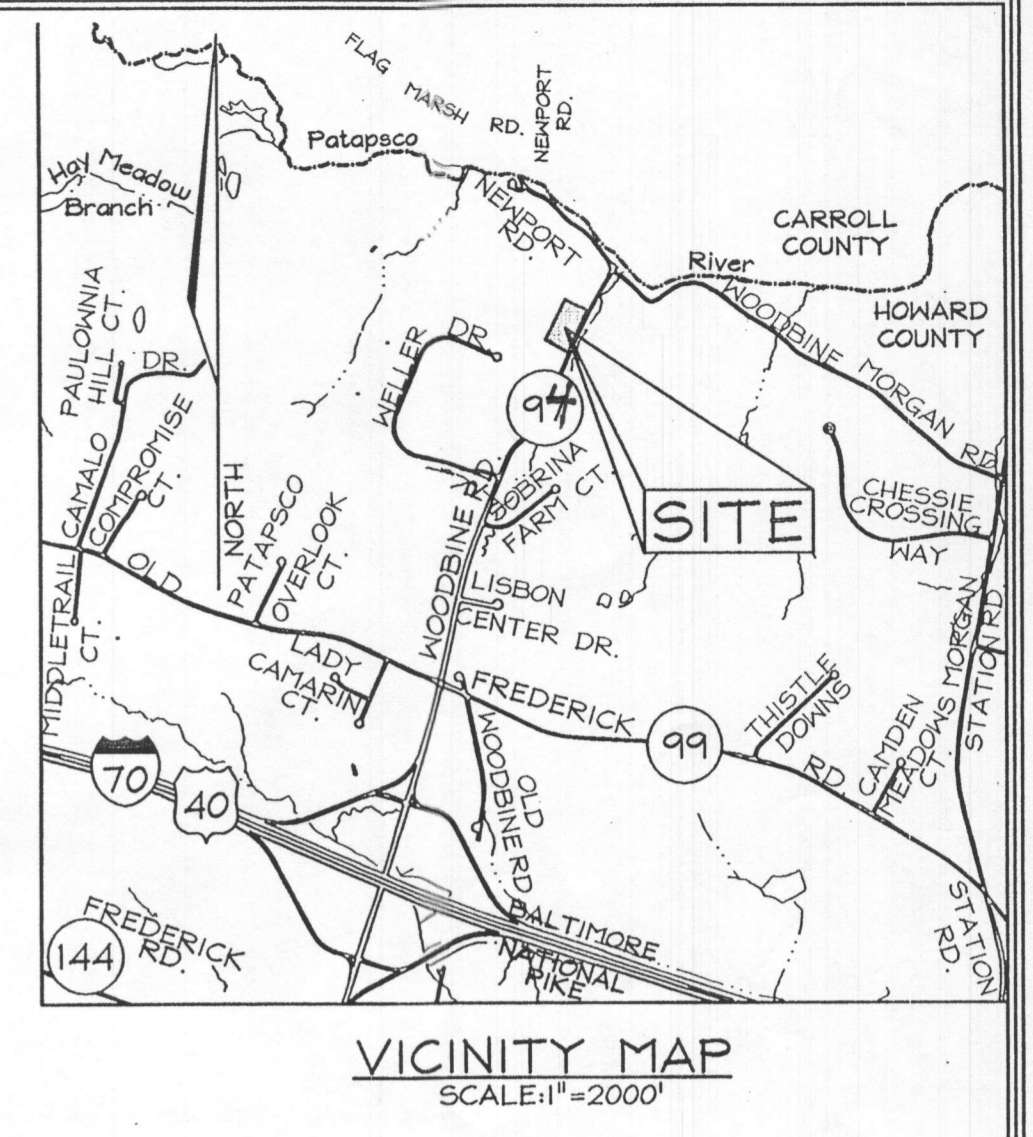
287.10'

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
GnB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
MIC2	Manor loam, 8 to 15 percent slopes, moderately eroded	B
MID3	Manor loam, 15 to 25 percent slopes, severely eroded	B
MIE	Manor loam, 25 to 45 percent slopes	B

PERC. CHART	
Number	Elevation
A	585.500
B	564.064
C	560.774
D	567.307
E	577.700
F	573.600
G	574.664
H	576.284

LEGEND

- Existing Contour: ---
- Existing Spot Elevation: 564.00
- Existing Trees to Remain: [Tree Symbol]
- Existing Septic Easement: [Hatched Box]
- Proposed Septic Easement: [Hatched Box]
- Existing House: [House Symbol]
- Percolation Test Hole (PASSED): A
- Percolation Test Hole (FAILED): C
- Soil Boundary: ---
- Existing Well: (W)
- Existing Stream: [Wavy Line]
- Existing Clean-Out: [Circle]
- Steep Slopes (25% or Greater): [Cross-hatched Box]



- ### GENERAL NOTES
- Subject property zoned RC-DEO per 03/20/04 Comprehensive Zoning Plan, and per the Comprehensive Lite Zoning Amendments effective 07/26/06.
 - Total area of property = 3.00 ac.±
 - Private water and Private sewage will be used within this site.
 - 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. Recodification of a modified sewage easement shall not be necessary.
 - All wells and septic fields within 100' of property's boundary have been shown.
 - Existing topography based on Howard County Aerial Topography flown in 1993 with five foot contours and Field Run elevations at each Percolation Test Hole by FSH Associates.
 - Deed History:
July, 2006 - Present: Christopher L. Brackins & Penny L. Brackins
Mar., 1988 - July, 2006: David J. Diagle & Linda C. Diagle
July, 1966 - Mar., 1988: Evelyn M. Cooper Kegley & Heber Kegley, JR.
Nov., 1938 - July, 1966: Lillian T. Mullinix, widow
 - The lot shown hereon comply with the minimum ownership, width and lot area as required by the Maryland Department of the Environment.
 - References: Parcel 33 Liber 10291 Folio 30.
 - Existing well on site Tag# No Number to remain.
 - Howard County soils map #2.
 - All existing structures and site improvements to remain unless otherwise noted.
 - Any changes to a private sewage easement shall require a Revised Percolation Certification Plan.

Maryland State Grid (NAD 83/91)

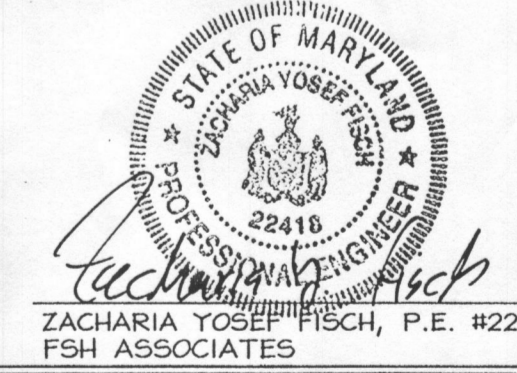
E 1,293,500 N 616,400

E 1,293,500 N 615,700

N 615,700 E 1,294,400



"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."



5/29/07 DATE

PERCOLATION CERTIFICATION PLAN
440 WOODBINE ROAD
BRACKINS PROPERTY
 A# 526670
 TAX MAP 2 GRID 18 PARCEL 33
 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER
 CHRISTOPHER L. BRACKINS
 PENNY L. BRACKINS T/E
 440 Woodbine Road
 Woodbine, Maryland 21797-8710

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" = 50'
 DATE: May 29, 2007
 W.O. No.: 3485
 SHEET No.: 1 OF 1

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 Peter Reilinson, MD 5/1/07
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT