



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

523837
AP 523273

AGENCY REVIEW: _____

DATE 9/8/2005

05-436605

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 4 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) PETER G BONNETT & IRIS J BONNETT

DAYTIME PHONE 301 854 1292 CELL 301 674 1428 FAX 301 854 0700

MAILING ADDRESS 13515 HIGHLAND ROAD CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT RONALD A. RICKS

DAYTIME PHONE 301 854 0565 CELL 410-627-5038 FAX 301-854-0922

MAILING ADDRESS 13509 NARROW LEAF COURT CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT
WOOD RIDGE MSA C 2466-215J

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME LOT 10 1. 1034A, PLAT BOOK 7, F 31 LOT NO. 10

PROPERTY ADDRESS 13500 BRIGHTON DAM ROAD CLARKSVILLE
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 8 PARCEL(S) 430 PROPOSED LOT SIZE 1.1 ACRE

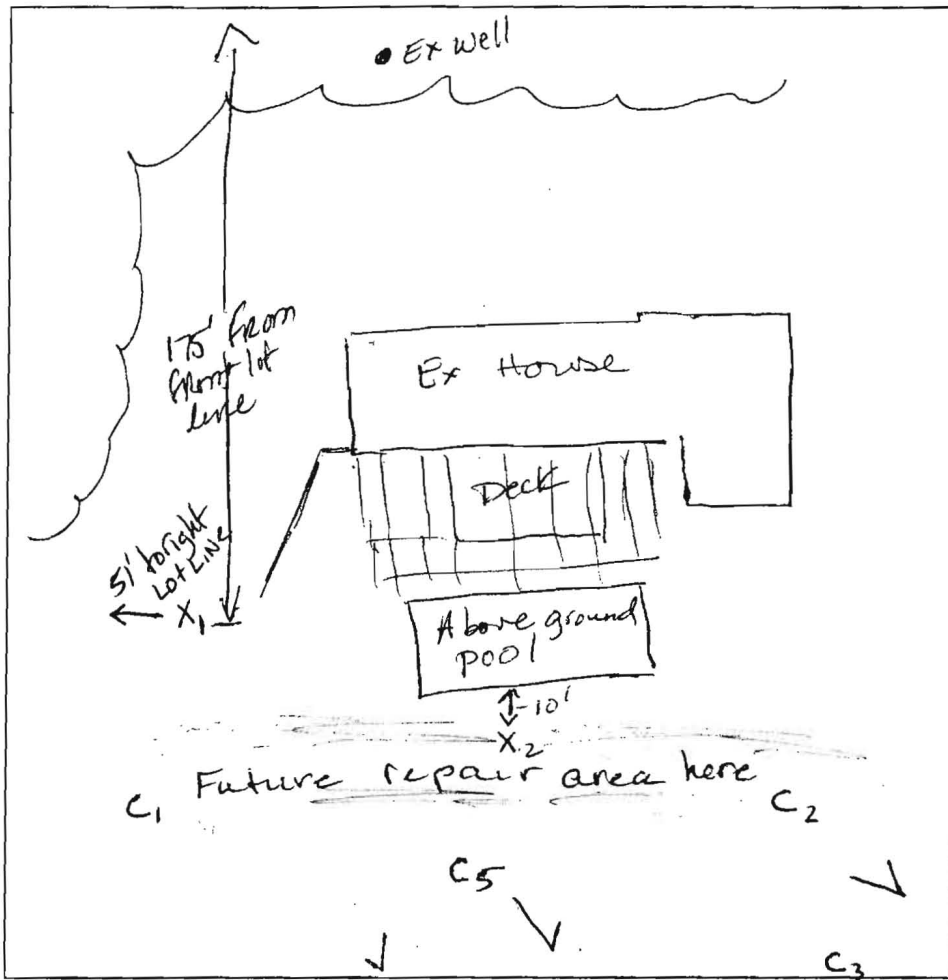
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. 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
C5/C3
excessive
Flagstone
2' to 4½'
refusal
v. micac.



X₁
Str brn
Loam
2½'
brn
LS
@ 4'
platy struct
yellow loam
to 5'
SANDY
Loam
Rock
15-20%
12' Hard Bot.

X₂
Str brn
hvy L
pockets
of CL
3'
brn
Loam
pockets
of
Flagstone
from 5' to 7'
testing
@ 5½'
9' Bottom

C₁
Org brn,
brn
CL
2'
Brown
platy loam
w/ 4% si
tested to
zone @
6'
8' refusal

C₂
DK brn
hvy L
3'
platy
micac.
SL-L
Rx - 35/45%
test to
zone
@ 6'
refusal
@ 9'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
1/27/06	C ₁	6' Tx zone	5 gallons 10:17:30	+ 10:25	okay for shallow trench		P
	C ₂	6½' Tx zone	5 gallons 10:37	10:44			P
	X ₁	Visual	- searching for dry well NOT found - SEE P profile				OK
	X ₂	5½'	10" auger perc hole 11:23:30	30 11:26	11:31	4'	OK
ABRUPT Δ in A to B horizon							
OWNER UNDERSTAND NO INGROUND pool permitted - need soils for future septic repair (2nd repair system)							

REMARKS Holes C₁, C₅, C₃, C₂ per plan
 SANITARIAN None BACKHOE S. Carroll OTHERS owner
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR 180
 TRENCH WIDTH 3 INLET DEPTH 2 MAX. BOT DEPTH 4 EFFECTIVE SW Ø
 SHALLOW SYSTEMS ONLY Major Replacement



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

April 25 2006

Mr. & Mrs. Bonnett
13515 Highland Road
Clarksville, MD 21029

Re: Percolation Test Plat Review

Dear Mr. Bonnett,

Review of the Percolation Test Plat submitted April 14, 2006 by KCE requires the following revisions for further review and approval:

For your existing lot of record

- Show the 100' well radius for your existing well
- Show the location of the existing septic tank and vicinity of dry well
- Label the pool as an above ground pool
- Connect the perimeter of the septic area as a line directly from C2 to C1 passing holes
- Show the layout of two systems at the highest elevation of the proposed future repair area and delete any septic area that is not needed and not supported with percolation test holes (southern side of septic area)
- Add a statement on the lot line separating the proposed buildable lot and your southern lot line for clarity: "Existing lot line since 1959, no adjustments proposed". Still maintain note #6 in General Notes

For your adjacent lot of record

- Keep all percolation test holes as shown
- Maintain 25' setback from any 25% slopes and 25' off the centerline of the swale
- Although percolation test hole A2 passed, there is not enough area for a 40' length trench on contour; shorten the septic disposal area perimeter line uphill until a 40' length trench is supported in the area while maintaining the above mentioned setbacks.
- Adjust the septic tank sanitary line from the house to enter the tank from the end of the tank, not the corner of the tank or its side.
- Propose the pump tank location near the elevation of the septic tank to allow gravity fall into the pump chamber.

As a reminder, the septic trench design *for your address* are as follows: Inlet of pipe at 2', bottom of trench at 4', trench width 3' wide, trenches 9' edge to edge . Percolation test rate supports 180 cubic feet of adsorption area per bedroom. Design *for the proposed buildable* lot is as follows: At the highest elevation of the septic area, invert at 4', bottom of trench at 9', trench width 2' wide. Place trenches 7' edge to edge. Included is a copy of the trench design spec sheet.

Sincerely,



Kacie Noonan, R. S.
Well & Septic Program

KN

Cc: file



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

January 30, 2006

Mr. & Mrs. Bonnett
13515 Highland Road
Clarksville, MD 21029

RE: **Percolation Test Results**
Application: A523273 & A523837
Property ID: 13515 Highland Road
Tax Map: 34, Parcel: 181
&
13500 Brighton Dam Road
Tax Map: 34, Parcel: 430

Dear Mr. & Mrs. Bonnett;

Percolation testing was conducted for both referenced properties on January 27, 2006. Although the designation of 10,000 square feet does not apply to either property due to the final record plat dated June, 1959, as you are aware, identifying areas as close to 10,000 square feet is most favorable. Our office would like to applaud your assistance in allowing us to analyze the soils on your property as to maximize safety for the proposed well sites on the adjacent parcel. For your convenience, a copy of the percolation test results is enclosed.

A **licensed surveyor** MUST submit a Percolation Certification Plan showing the following information and changes to the percolation test plan:

- actual locations and elevations of all excavated test holes with hole numbers matching sanitarian notes
- identify percolation test holes as passed or failed
- overlay the plan with soil map
- calculate septic reserve area's total square footage after adjustment to SDA
- topography with 2' contours,
- propose house sites with a driveway location (s)
- propose three acceptable well locations from septic disposal area
- identify slopes if greater than 24.99% and ensure septic area 25' away from them
- show the predominate swale for parcel 430
- field locate actual location of all existing wells and septic systems within 100 feet of all property boundaries
- include in General Notes the zoning of the property and note that lot lines will remain as documented on the final record plat dated June, 1959.
- Add in the General Notes the drilled proposed well site will have grout surpassing the minimum state requirement per the Approving Authority's discretion

⊙ NOT DONE ON 4/15/06 Submission

For clarification, the proposed building lot must have at minimum, enough room for two systems; however, the area identified in the field may support three complete systems. Trench design criteria are found on the bottom of the percolation test notes. If, however, three systems cannot be established in the identified septic area, pretreatment will be required. If further help is needed with the trench layout, do not hesitate to call me directly at 410-313-1775. Thank you for your time and cooperation.

Sincerely,

A handwritten signature in cursive script that reads "Kacie Noonan".

Kacie Noonan, R.S.

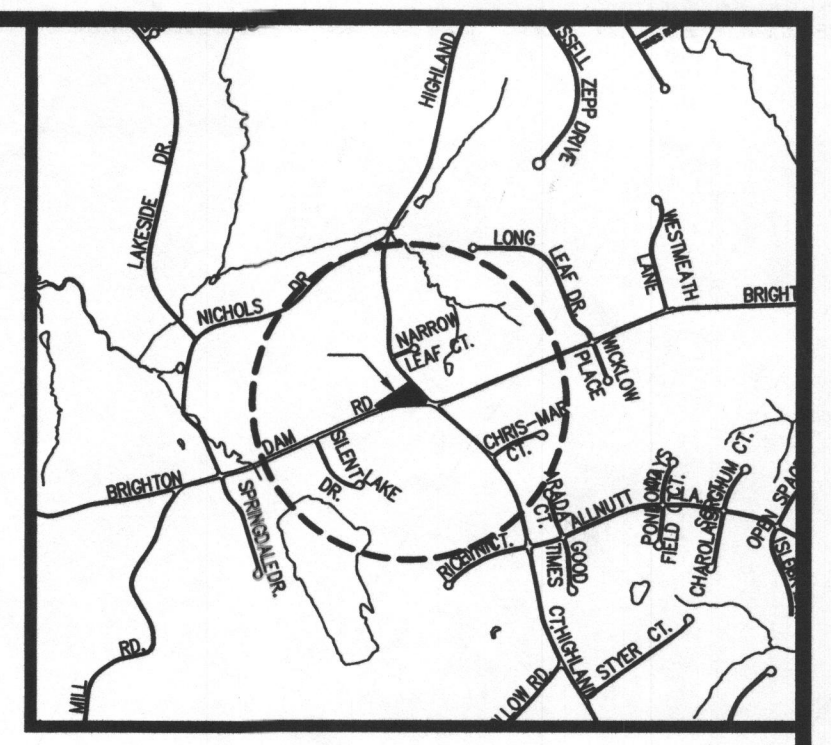
Water and Sewerage Program

Enclosures

Cc: Ron Ricks/ Builder

SOILS LEGEND		
SYMBOL	NAME/DESCRIPTION	TYPE
ChB2	Chester silt loam, 3 to 8% slopes, moderately eroded	B
GIC2	Glenelg loam, 8 to 15% slopes, moderately eroded	B
M1D2	Manor loam, 15 to 25% slopes, moderately eroded	B

- NOTES:
- This site is zoned RR-DEO per the 10-18-93 Comprehensive Zoning Plan.
 - BRL denotes Building Restriction Line.
 - Driveway shall be provided per the following minimum requirements:
 - Width-12' (14' serving more than one residence);
 - Surface-6" of compacted crusher run base w/tar and chip coating (1-1/2" min.);
 - Geometry-Max. 15% grade, max. 10% grade change and min. 45' turning radius;
 - Structures (culverts/bridges)-capable of supporting 25 gross tons (H25 loading);
 - Drainage Elements-capable of safely passing 100-year flood with no more than 1 foot depth over driveway surface;
 - Maintenance-sufficient to insure all weather use.
 - Topography shown here is based on field run topo performed by KCE Engineering, Inc. in November, 2005.
 - Boundary survey was performed by KCE Engineering, Inc. in November, 2005.



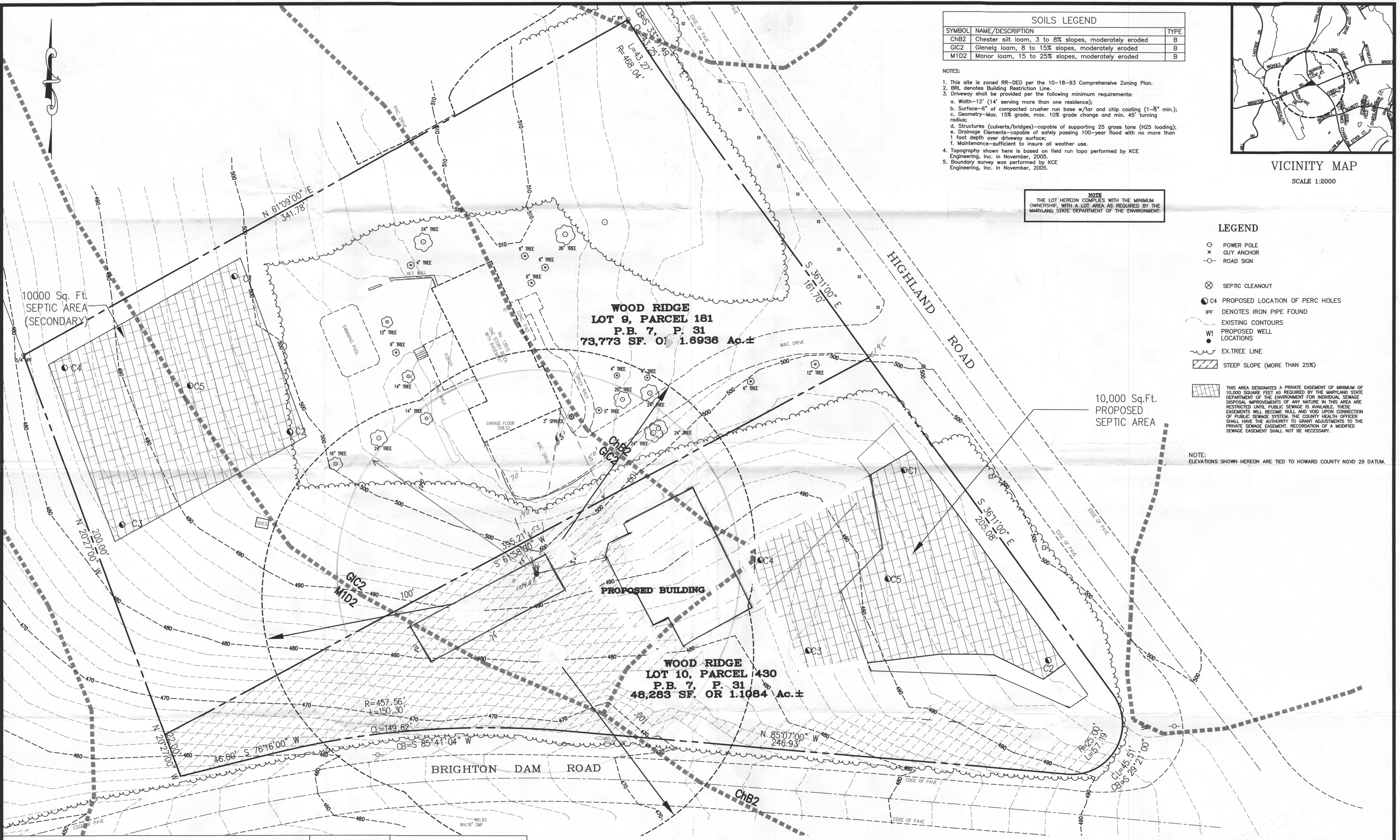
VICINITY MAP
SCALE 1:2000

NOTE
THE LOT HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WITH A LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.

LEGEND

- POWER POLE
- x GUY ANCHOR
- ROAD SIGN
- ⊗ SEPTIC CLEANOUT
- C4 PROPOSED LOCATION OF PERC HOLES
- IPF DENOTES IRON PIPE FOUND
- - - EXISTING CONTOURS
- W1 PROPOSED WELL LOCATIONS
- - - EX.TREE LINE
- ▨ STEEP SLOPE (MORE THAN 25%)
- ▨ THIS AREA DESIGNATES A PRIVATE EASEMENT OF MINIMUM OF 10,000 SQUARE FEET 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. THESE EASEMENTS WILL 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 EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

NOTE:
ELEVATIONS SHOWN HEREON ARE TIED TO HOWARD COUNTY NGVD 29 DATUM.



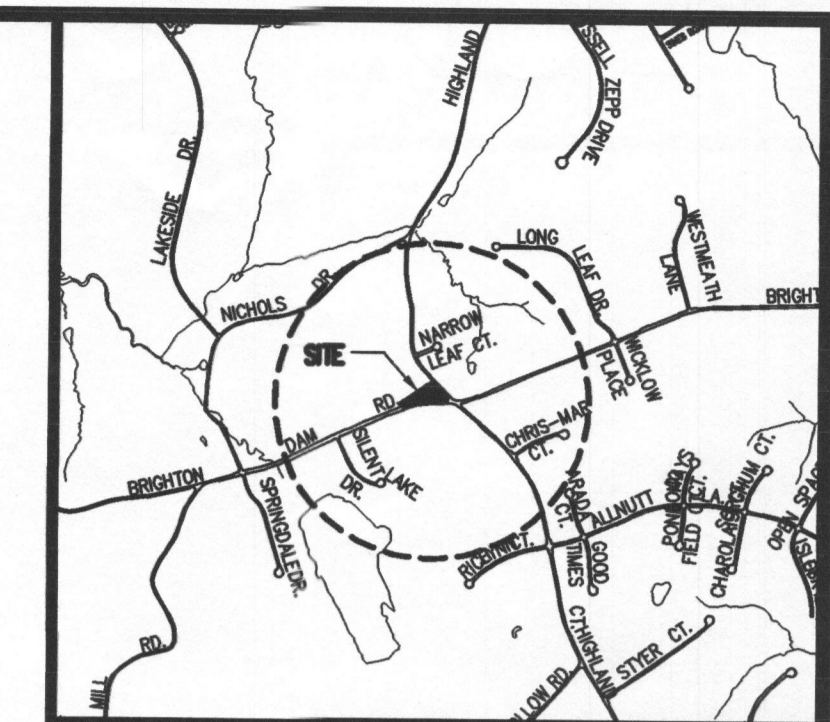
KCE ENGINEERING, INC.
EXECUTIVE CENTER
3300 NORTH RIDGE ROAD, SUITE 315
ELLCOTT CITY, MARYLAND 21043
PHONE (410) 203-9800 FAX (410) 203-9228

OWNER & DEVELOPER (LOT 9)
PETER BONNETT
13515 HIGHLAND ROAD
CLARKVILLE, MD-21029

PERCOLATION TEST LOCATION PLAN
LOTS 9 & 10
PARCELS 181, 430, TAX MAP 34, GRID 8
WOOD RIDGE, HOWARD COUNTY, MARYLAND

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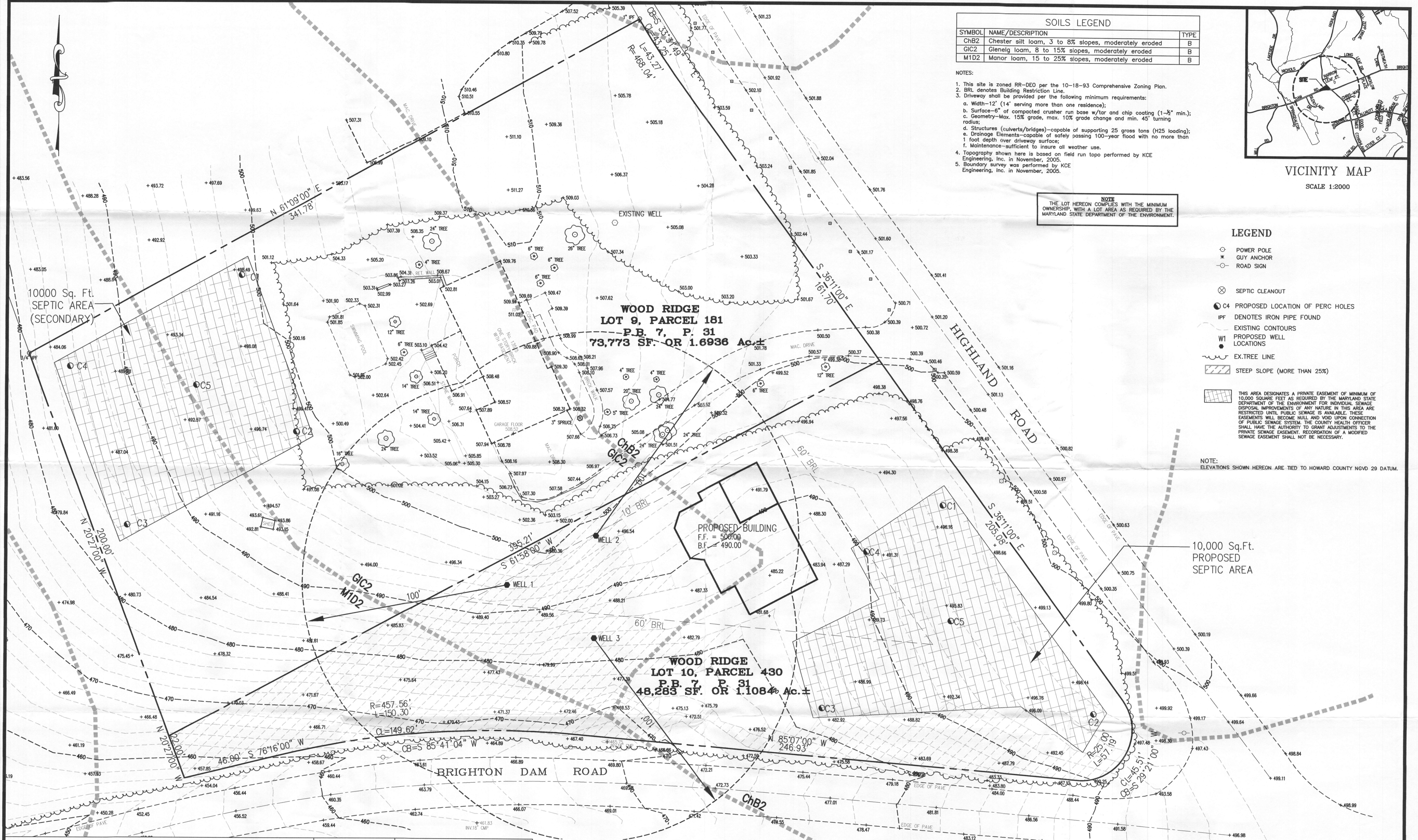
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PERCOLATION TEST LOCATION PLAN
LOTS 9 & 10
PARCELS 181, 430, TAX MAP 34, GRID 8
WOOD RIDGE, HOWARD COUNTY, MARYLAND

SCALE: 1" = 20'
JOB NO.: 05110.00
DATE: 12/19/2005
SHEET: 1 OF 1