

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) 7-15-05 TEST TIME 9:00 Am AVP 52 2427

AGENCY REVIEW: _____ DATE 4/26/2005

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) WILLIAM G. RADHE SR

DAYTIME PHONE (301) 596-9688 CELL (301) 980-0726 FAX (301) 854-1130

MAILING ADDRESS 12497 Petricillo Dr. HIGHLAND MD 20777

STREET CITY/TOWN STATE ZIP

APPLICANT EUGENE GIBSON SR. (MILDENBERG, BOENDER & ASSOC.)

DAYTIME PHONE (410) 997-0296 CELL (301) 523-1863 FAX (410) 997-0298

MAILING ADDRESS 5072 Dorsey Hall Dr. #202 ELlicott City, MD 21042

STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME HIGHLAND ACRES LOT NO. 19

PROPERTY ADDRESS 12497 Petricillo Dr. HIGHLAND

STREET TOWN/POST OFFICE

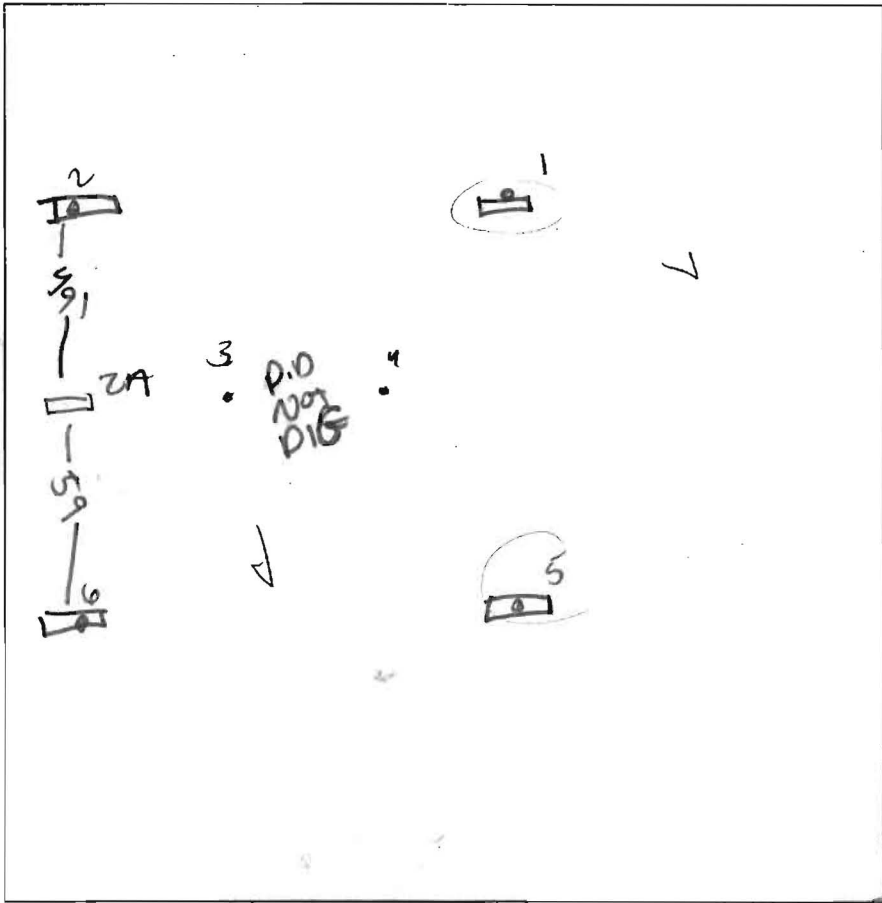
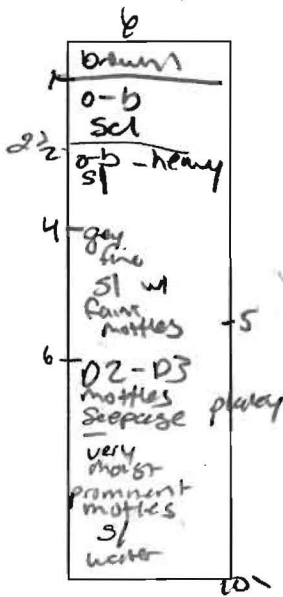
TAX MAP PAGE(S) 40 GRID 18 PARCEL(S) 241 PROPOSED LOT SIZE 1.13 ac.

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.

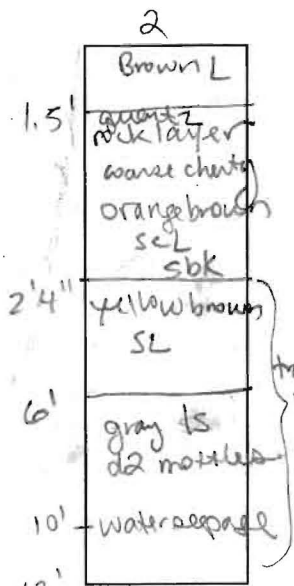
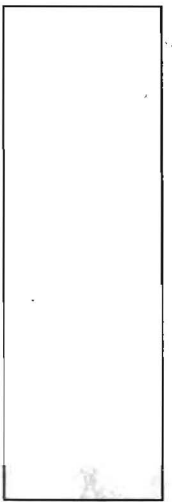
TEST RESULTS WILL BE MAILED TO APPLICANT. [Signature]
SIGNATURE OF APPLICANT

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

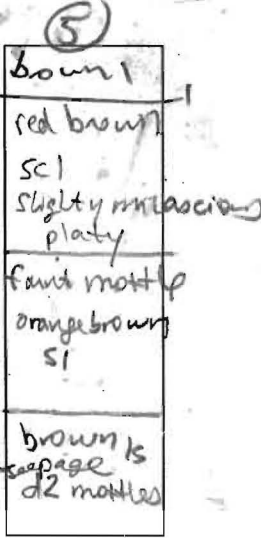
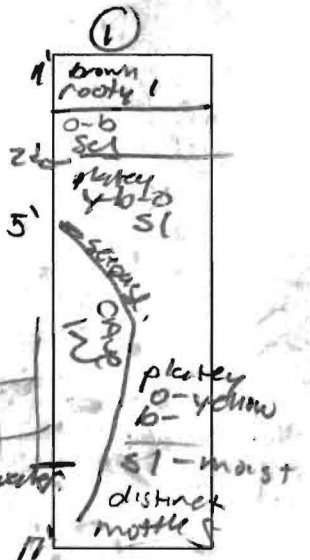


Pettillo Dr.

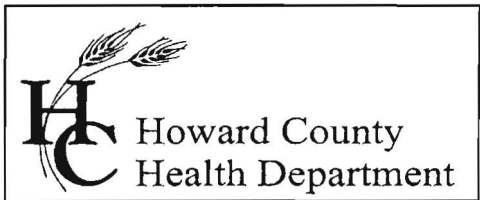


West Magnet Cr

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/24/05	2	12					
	6						



REMARKS: Shallow water table & Mottling to high for trenches.
 SANITARIAN: DAY / SP BACKHOE: Fyall OTHERS:
 TEST HOLES USED IN SDA: _____ AVG. PERC TIME: _____ SQ. FT/BR: _____
 TRENCH WIDTH: _____ INLET DEPTH: _____ MAX. BOT DEPTH: _____ EFFECTIVE S/W: _____



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 12, 2005

Mr. William G. Radhe Sr.
12497 Petrillo Drive
Highland MD, 20777

RE: **Sand mound percolation test results**

Proposal: Establish sufficient septic reserve area to serve existing lot
Property ID: Radhe Property
Petrillo Drive Lot 19
Tax Map: 40 Parcel #241

Dear Mr. Radhe Sr.:

Sand mound percolation testing was conducted on the above referenced property on July 15, 2005. These tests were unsuccessful due to lack of percolation in the most limiting soil layer. As previously indicated, percolation testing for conventional trench systems also failed, as evidenced by the testing conducted on May 24, 2005. Based on these test results, this existing lot has failed for on-site sewage disposal systems.

Short of a successful appeal, remaining options for this site would include:

- Provision of an off-site septic easement
- Provision of public water and/or public sewer
- Provision for tax relief as a non-buildable lot based on recent Health Department findings

Please inform me as to whether or not you wish to continue with the proposal for an off-site septic system or if you wish to request reconsideration of the preliminary determination. If you have any questions regarding this matter, please contact at the address below or by calling (410) 313-1771.

Sincerely,



Peter A. Yencsik
Water and Sewerage Program

PAY
Enclosures

Cc: MB& Assco. INC
file

MOUND TEST DATA SHEETS

Property I.D. Asfalto Lot # 19 Date 7/15/05

Sanitarian APM Landscape Position Gentle slope

% Slope _____ Soil Type ChBZ Contractor Frylock

HOLE # ① DEPTH OF TEST 22" START TIME 10:32 / 8:2/16

Brown loam rich organic

 orange brown ab silt

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
	60min	2/16		

FAIL

2/16 in 1 hour
Failed

HOLE # ② DEPTH OF TEST 22" START TIME 10:53 8:11

Dark brown loam

 ab slightly micaceous silt

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
	15 (11:08)	25'	60	
	11:33 (30)	125	120	FAIL
	11:53 (60)	125		

.5" in one hour
Failed

MOUND TEST DATA SHEETS

Property I.D. 261110 Lot # 19 Date 2/15/05

Sanitarian PAY Landscape Position gentle slopes

% Slope _____ Soil Type CBZ Contractor Frylock

HOLE # 3 DEPTH OF TEST 21" START TIME 11:32

8/11

Dark
brown
loam

o-b
silt
as.

↓

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
8				
7 ¹⁴ / ₁₆	30	.125		FAIL
7 ¹⁰ / ₁₆	30	.125		

21

8 ²/₁₆ Start.

HOLE # 2A DEPTH OF TEST 22" START TIME 12:05

8/2/10

Dark
brown
loam
(moist)

o-b
silt
slightly
uncalcified

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
7 ⁹ / ₁₆				Fail

No Measurement

22

5

6

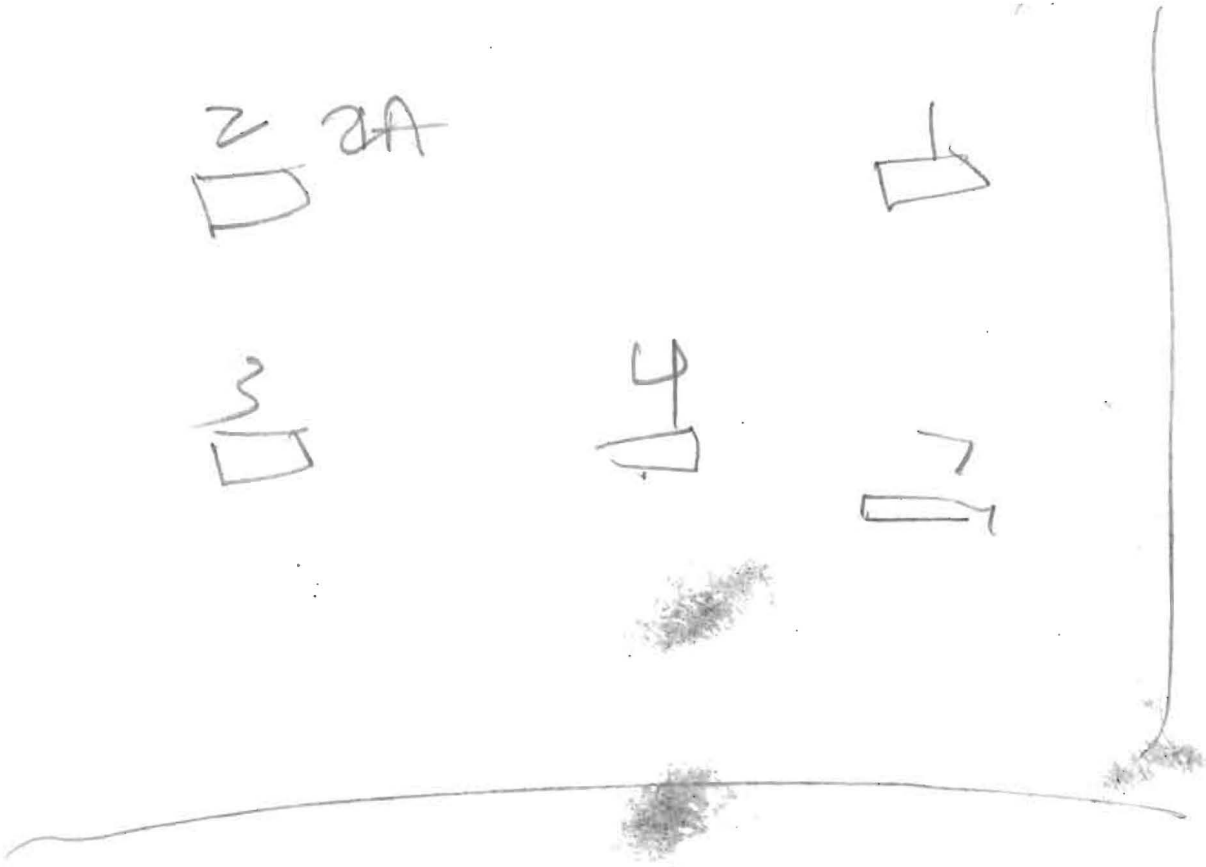
2 2A

1

3

4

7



MOUND TEST DATA SHEETS

Property I.D. Perrillo Lot # 19 Date 7/15/05

Sanitarian JAY Landscape Position gentle slopes

% Slope _____ Soil Type ChB₂ Contractor Fyock

HOLE # 6 DEPTH OF TEST 24 START TIME 1:42

Dark brown loam
 (ab)
 Heavy loam
 (ab)
 sil

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
	18	9/16		
	28	11/16		
	15	4/16		0
	15	4/16		0
	15	4/16		0
	15	4/16		0

8:10/16
 8:7/16

ONLY passing test
 9:11

HOLE # 7 DEPTH OF TEST 22 START TIME 1:53

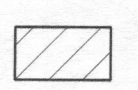

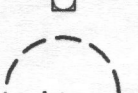


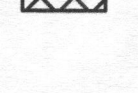
Dark brown loam
 orange brown sil

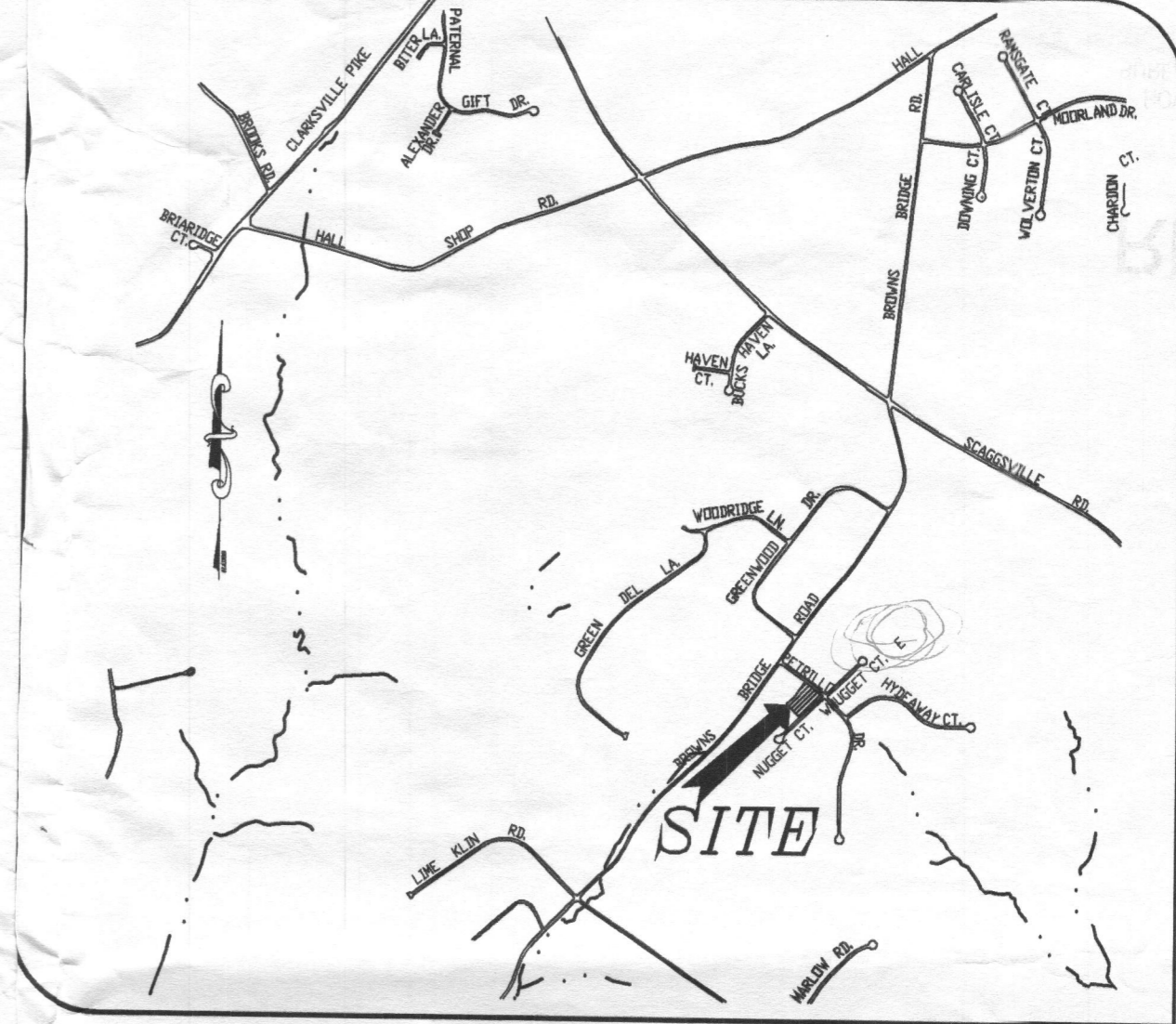
Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
	60	None	NA	

Fail

No Movement

LEGEND

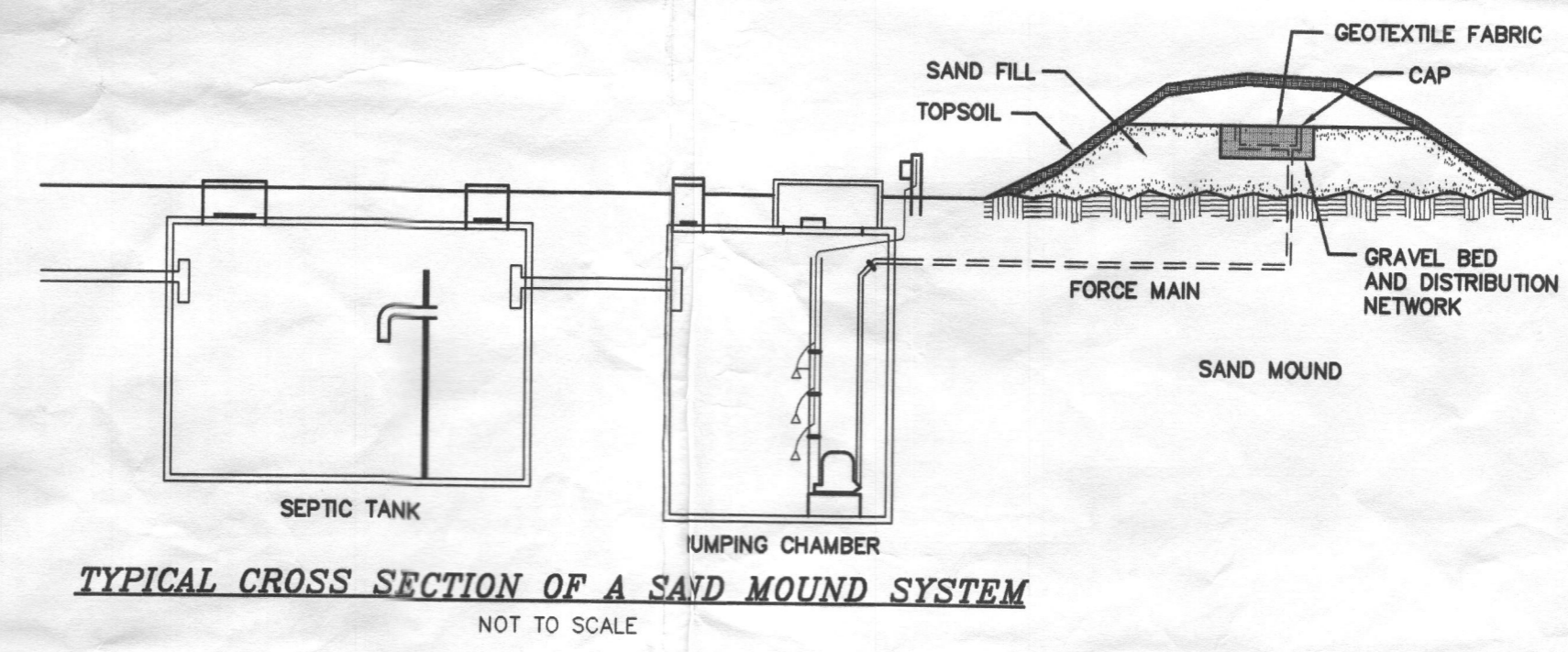
-  SEWAGE DISPOSAL EASEMENTS
-  INFILTRATOR TEST LOCATION
-  EXISTING SEPTIC CLEANOUTS
-  EXISTING WELL (W/ RADIUS)
-  PROPOSED WELL
-  SAND MOUND FOOTPRINTS



GENERAL NOTES:

1. THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE 2/2/2004 COMPREHENSIVE ZONING PLAN.
2. **PARCEL BACKGROUND:**
TAX MAP : 40 , PARCELS : 241 , LOT : 19.
ELECTION DISTRICT : FIFTH.
ZONING : RR-DEO.
DEED REFERENCE : 3556/279
AREA : 1.13 ACRES
3. TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY BY MILDENBERG, BOENDER & ASSOC., INC. IN APRIL 2005. BOUNDARIES BASED ON DEED PLOT.
4. EXISTING ON-SITE STRUCTURES & VEGETATION ARE BASED ON FIELD LOCATION CONDUCTED IN APRIL 2005.
5. PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
6. SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968, SHEET 10.
7. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT 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 EASEMENT SHALL NOT BE NECESSARY.
8. TO THE BEST OF OUR KNOWLEDGE ALL ADJACENT WELL AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN.
9. BASED ON FIELD INVESTIGATION BY MILDENBERG, BOENDER & ASSOCIATES, INC. IN APRIL 2005, NO WETLANDS EXIST ON-SITE.
10. NO FLOODPLAIN EXISTS ON-SITE.
11. THE LOTS SHOWN HEREON COMPLY WITH MINIMUM OWNERSHIP LOT WIDTH AND AREA AS REQUIRED BY MDE.
12. NO STEEP SLOPES EXIST ON-SITE.

10. A SAND MOUND CONSTRUCTION DETAIL PLAN IS TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO ISSUANCE OF A BUILDING PERMIT FOR THIS PROPERTY.
11. THE SAND MOUNDS ARE SIZED BASED ON A FIVE BEDROOM HOUSE AND 750 GPD.
12. FIELD RUN TOPOGRAPHIC SURVEY IN THE VICINITY OF THE PROPOSED SAND MOUNDS AND LOCATION OF PERC TEST HOLES WAS COMPLETED BY MILDENBERG, BOENDER & ASSOCIATES, INC. IN JAN., 2002.
13. THE ENTIRE SAND MOUND SEPTIC DISPOSAL EASEMENT IN TO BE SURROUNDED BY SUITABLE FENCING DURING ALL PHASES OF GRADING AND BUILDING CONSTRUCTION.



SOILS DESCRIPTION

SYMBOL	DESCRIPTION
EKA	ELIOAK SILT LOAM, 0% TO 3% SLOPES-- TYPE C
Ba	BAILE SILT LOAM-- TYPE D
EKB2	ELIOAK SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED -- TYPE C
ChB2	CHESTER SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED -- TYPE B

OWNER
WILLIAM G. RADHE SR. &
SUE ELLEN RADHE
12497 PETRILLO DRIVE
HIGHLAND, MD 20777-9567

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

project	date	approval
04-074	APR 2005	EGI
illustration	EGI	EGI
scale	1"=50'	

no.	description	revisions	date

RADHE PROPERTY
TAX MAP 40 - PARCEL 241 - GRID 18 - LOT 19
FIFTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
PERC CERTIFICATION PLAT

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Fax: (301) 621-5521 Wash. (410) 997-0298 Fax