

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 528496

AGENCY REVIEW: \_\_\_\_\_

DATE 2/5/08

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 4065 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) HERITAGE LAND DEVELOPMENT (C/O TIM FEAGA)

DAYTIME PHONE 410-489-7900 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 15950 NORTH AVE P.O. Box 482 LISBON MD 21766  
STREET CITY/TOWN STATE ZIP

APPLICANT HERITAGE LAND DEVELOPMENT (C/O TIM FEAGA)

DAYTIME PHONE 410-489-7900 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 15950 NORTH AVE P.O. Box 482 LISBON MD 21766  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME ROUTE HILL LOT NO. 13  
501

PROPERTY ADDRESS ROUTE 97 COOKSVILLE  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 8 GRID 5 PARCEL(S) 32 PROPOSED LOT SIZE 501

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.

M. Jeany Rutter  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 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

March 11, 2008

Tim Feaga  
Heritage land Development  
15950 North Ave.  
Lisbon, MD 21765  
FAX: 410-489-9768

RE: PERCOLATION TEST RESULTS, Quartz Hill, Lot 13 (Tax Map 8, Parcel 32) –A528496

Dear Mr. Feaga,

Percolation testing conducted on March 4, 2008, on the referenced property indicated unsatisfactory soil conditions. Three of the five planned percolation test locations have failing soil conditions. Two of the locations fail due to too slow percolation rates, and the third fails due to rock content greater than 50% in the treatment zone.

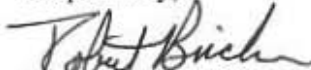
Exploring the property for an area of suitable soils, five additional locations were observed. Two locations fail due to rock content greater than 50% in the treatment zone, two locations fail due to too slow percolation rates, and one location has a passing percolation time of 25 minutes.

Sunken areas and soil piles were observed at regular intervals on the remainder of the hillside within the property boundaries. These are believed to be locations observed in a preliminary attempt to locate soils suitable for wastewater treatment and disposal. However, results of percolation tests or soil profile descriptions are not known to exist. The test locations appear weathered and it is likely that the soil properties observed are unsuitable.

Soil profiles at the far west end of the subject property have not been observed as the area is dominated by a concave landform, i.e. a broad swale. Two Field Data Worksheets accompany this report.

If you have further questions regarding this project, you may contact me by calling (410) 313-2691.

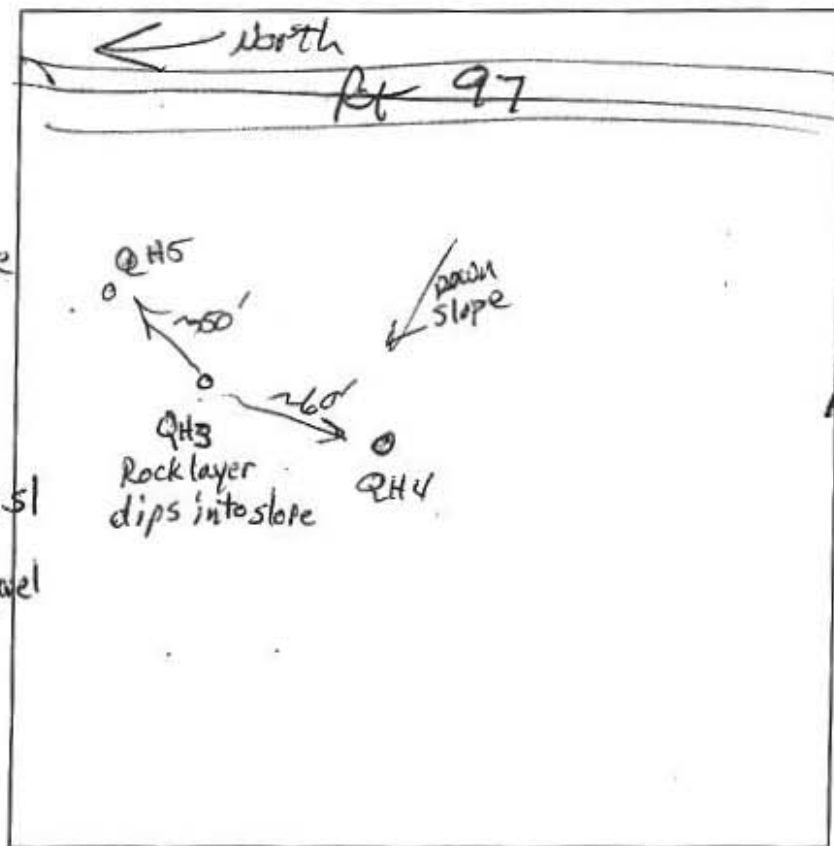
Respectfully,

  
Robert Bricker, RS, CPSS  
Well and Septic Program  
Development Coordination Section

Copy: File

AP \_\_\_\_\_

QHS  
 0.5' grey-brn loam (ss)  
 1' brn cl  
 2.5' f 1/2 olive  
 3.5' variegated brn cl & H. brn sel  
 6' dk brn grey sl saprolite  
 13' dry 10% gravel



QH3  
 0.5' grey-brn loam  
 3' brn cl  
 5' 1msbk  
 11.5' brn gr sl  
 12.5' dk brn & brn sl  
 13.5' m 2 d grey  
 14.5' e 2 p orange  
 15.5' dk brn grey sl clp  
 17.5' orange

| DATE   | TEST # | DEPTH        | START                            | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|--------|--------|--------------|----------------------------------|---------------|--------------|------------------|-------|
| 3/3/08 | QH3    | 6.5' / 11.5' | 12:06                            | 12:10         | 12:35        | 25               | P     |
| 3/3/08 | QH4    | 3'           | Visual (> 50% rock dipping to S) |               |              |                  | F     |
| 3/3/08 | QH5    | 6.5' / 13'   | 1:25                             | 30'           |              |                  | F     |
|        |        |              |                                  |               |              |                  |       |
|        |        |              |                                  |               |              |                  |       |
|        |        |              |                                  |               |              |                  |       |
|        |        |              |                                  |               |              |                  |       |
|        |        |              |                                  |               |              |                  |       |

QH4  
 0.3' dk brn loam  
 3' brn grey  
 1msbk  
 variegated dk brn cl & yel brn gr sil (ss)  
 3' to 8' dark grey dipping layer  
 stones & boulders (st & by loam)

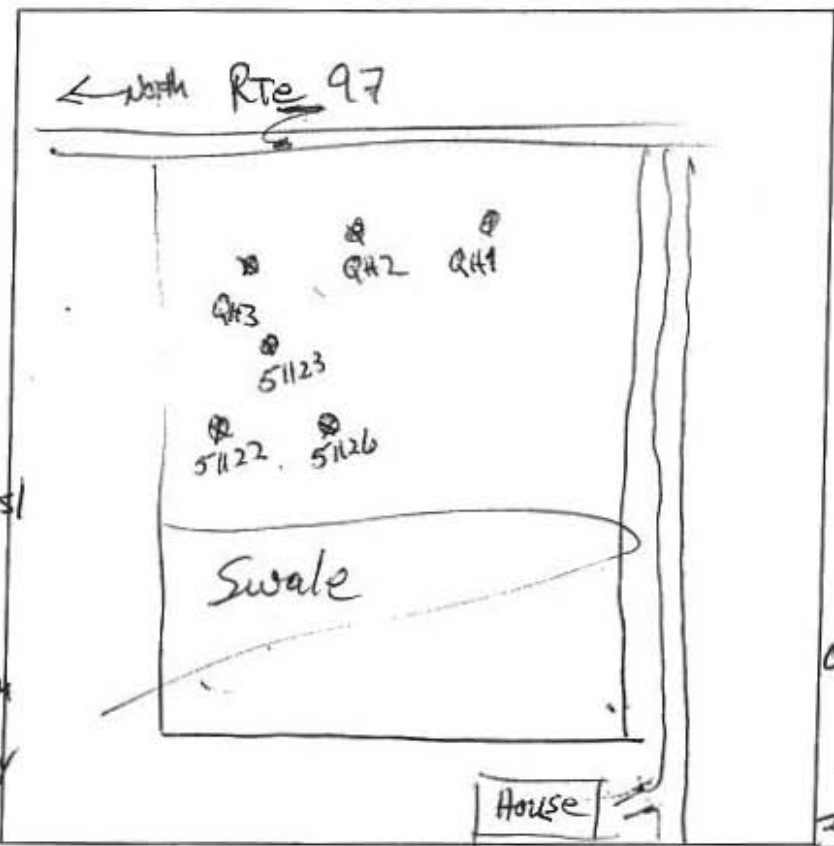
REMARKS: QH3 Dipping rock layer on downhill side; QH4 uphill end way perc  
 SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

AP \_\_\_\_\_

51126  
 0.5' dk grey-brn sol, 2 fshK  
 1.5' brn grcl  
 1 mshK  
 6' brn bycl  
 1 mshK  
 10.5' dk brn st sl (heavy)  
 13' brn st by sl

51123  
 0.5' grey-brn loam  
 2' brn grcl  
 1 mshK heavy  
 2' brn bycl  
 40%  
 6.5' brn vst & by loam  
 50-80% stones & boulders

51122  
 0.2' grey brn loam  
 4.5' brn grcl  
 9' by st loam  
 dk. brn st sl (heavy)  
 1' dk grey-brn water seeps  
 13'



QH2  
 0.5' dk. grey brn loam  
 C1D depletions (ch2)  
 brn grcl  
 M1+2D depletions  
 3' red-brn st sl  
 M1D depletions  
 7' dk brn st & gr sl (heavy)  
 9' very bouldery water seeps

| DATE   | TEST # | DEPTH   | START              | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|--------|--------|---------|--------------------|---------------|--------------|------------------|-------|
| 3/3/08 | 51126  | 7' 1/3' | 9:15               | 9:24          | >>>          | 30 min           | F     |
| 3/3/08 | 51122  | 5' 5/8' | 9:53               | 10:08         | 1/2"         | —                | F     |
| 3/3/08 | 51123  | 6.5'    | Visual, rock > 50% |               |              |                  | F     |
| 3/3/08 | QH1    | 4'      | Visual, refusal    |               |              |                  | F     |
| 3/3/08 | QH2    | 4' 5/8' | 11:05              | 11:26         |              | no movement      | F     |
|        |        |         |                    |               |              |                  |       |
|        |        |         |                    |               |              |                  |       |
|        |        |         |                    |               |              |                  |       |
|        |        |         |                    |               |              |                  |       |

REMARKS 51123 dug 20' downhill of stake

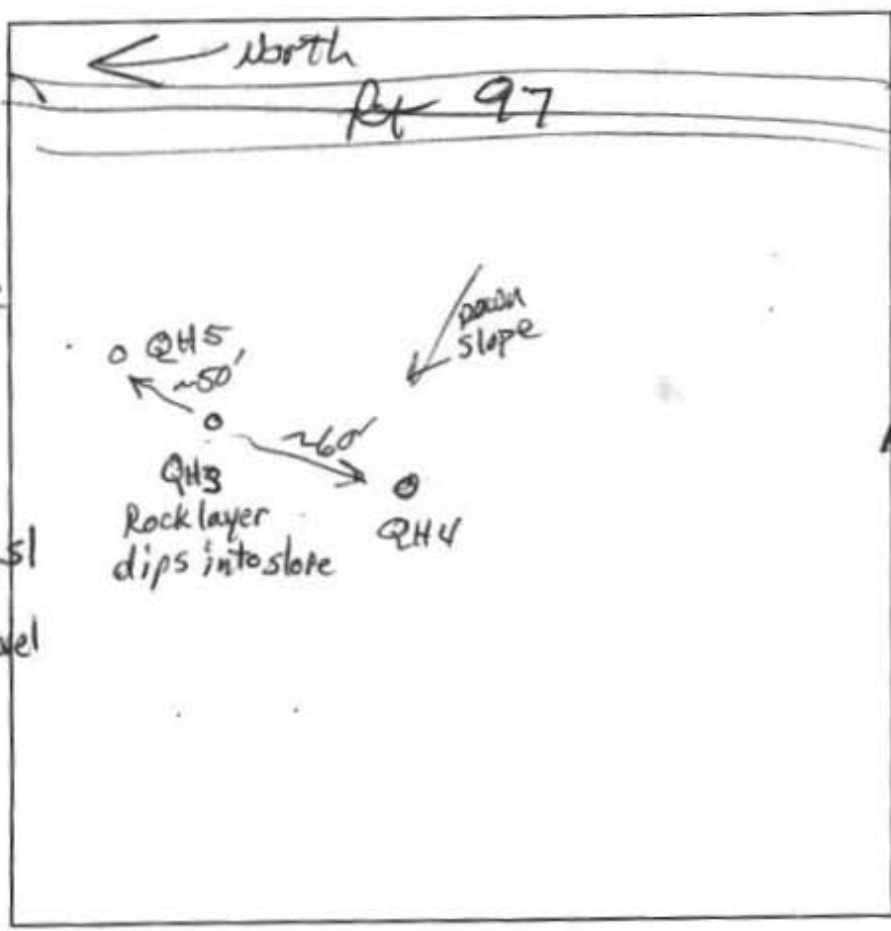
SANITARIAN RB BACKHOE Dennis Feaga OTHERS Jeremy Rutter

TEST HOLES USED IN SDA none AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

AP \_\_\_\_\_

QHS  
 0.5' gray-brn loam (ss)  
 1' brn cl  
 2.5' f 1/2 f olive  
 3.5' variegated brn cl & lt. brn sel  
 6' dk brn-grey sl saprolite  
 13' dry; 10% gravel



QH3  
 0.5' gray-brn loam  
 1' brn cl  
 3' 2 msbk  
 5' 1 msbk to dm  
 1' dm, 20%  
 11.5' dk brn & brn sl  
 m 2 d grey  
 12.5' e 2 p orange  
 dk brn-grey  
 sl ctp  
 13.5' 2 orange

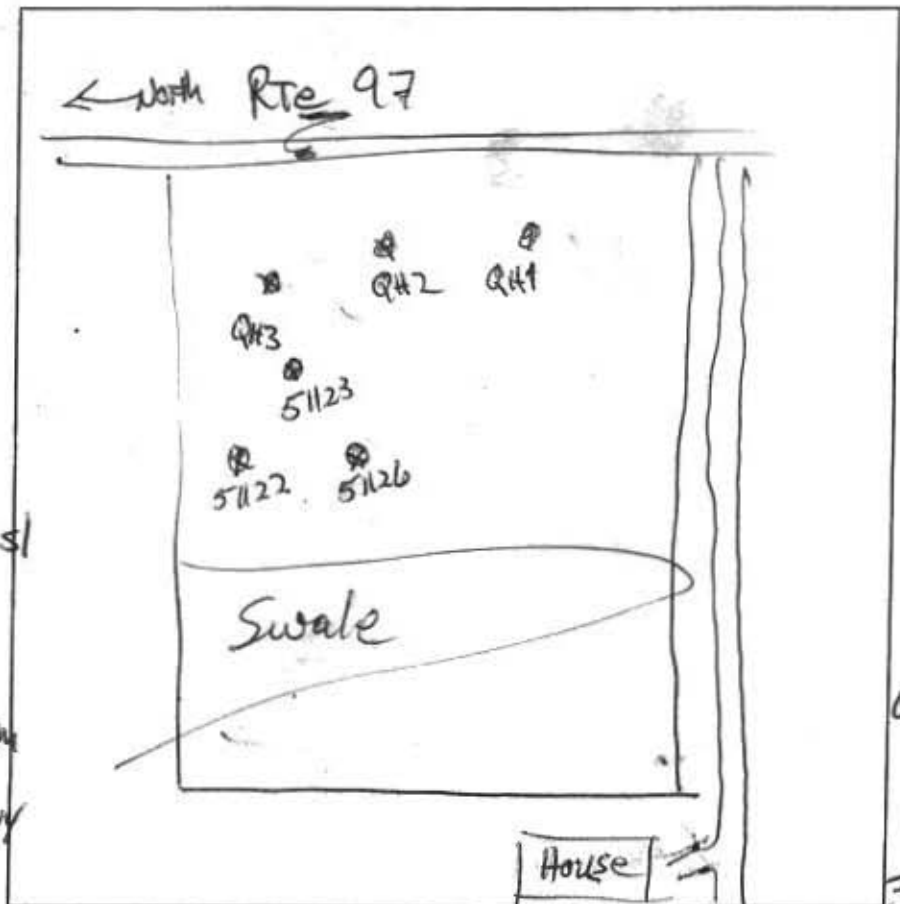
| DATE   | TEST # | DEPTH        | START  | BREAK 1" DROP        | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|--------|--------|--------------|--------|----------------------|--------------|------------------|-------|
| 3/3/08 | QH3    | 6.5' / 11.5' | 12:06  | 12:10                | 12:35        | 25               | P     |
| 3/3/08 | QH4    | 3'           | Visual | (> 50% rock dipping) |              |                  | F     |
| 3/3/08 | QH5    | 6.5' / 13'   | 1:25   | 30'                  |              |                  | F     |
|        |        |              |        |                      |              |                  |       |
|        |        |              |        |                      |              |                  |       |
|        |        |              |        |                      |              |                  |       |
|        |        |              |        |                      |              |                  |       |
|        |        |              |        |                      |              |                  |       |
|        |        |              |        |                      |              |                  |       |

QH4  
 0.3' dk brn loam  
 3' brn grel  
 1 msbk  
 variegated dk brn cl & yel brn gr sel (ss)  
 3' to 8' dark grey dipping layer  
 stones & boulders (st & by loam)

REMARKS: QH3 Dipping rock layer on downhill side; QH4 uphill end way perc  
 SANITARIAN RB BACKHOE Dennis Faye OTHERS Jeremy Ritter  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

AP

51126  
 0.5' dk grey-brn scl, 2 fsk  
 1.5' brn gtl  
 1 mskk  
 6' brn by cl  
 7 mskk  
 10.5' dk brast sl (heavy)  
 13' brn st & by sl



51123  
 0.5' grey-brn loam  
 2' brn & cl  
 1.5' gel. brn heavy  
 6.5' brn v by cl  
 40%  
 9' brn vst & by loam  
 50-80% stones & boulders

QH2  
 0.5' dk grey brn loam  
 C1D depletions (ch2)  
 3' brn gtl  
 M1 & 2D depletions  
 3' red-brast sl  
 MID depletions  
 7' dk brn st & gr fsl (heavy)  
 9' very bouldery water seeps

51122  
 0.5' grey brn loam  
 4.5' brn gtl  
 9' by & st loam  
 dk. brn  
 13' st sl (heavy)  
 dk grey-brn water seeps

| DATE   | TEST # | DEPTH     | START  | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|--------|--------|-----------|--------|---------------|--------------|------------------|-------|
| 3/3/08 | 51126  | 7' 13"    | 9:15   | 9:24          | >>>          | 30 min           | F     |
| 3/3/08 | 51122  | 5' 9"     | 9:53   | 10:08         | 1/2"         | —                | F     |
| 3/3/08 | 51123  | 6.5'      | Visual | rock          | > 50%        |                  | F     |
| 3/3/08 | QH1    | 4'        | Visual | refusal       |              |                  | F     |
| 3/3/08 | QH2    | 4' 5 1/2" | 11:05  | 11:26         | no movement  |                  | F     |
|        |        |           |        |               |              |                  |       |
|        |        |           |        |               |              |                  |       |
|        |        |           |        |               |              |                  |       |
|        |        |           |        |               |              |                  |       |

REMARKS 51123 dug 20' downhill of stake  
 SANITARIAN RB BACKHOE Dennis Feaga OTHERS Jeremy Rutter  
 TEST HOLES USED IN SDA none AVG. PERC TIME SQ. FT/BR  
 TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW

# APPLICATION

PERCOLATION TESTING

A 514205

P \_\_\_\_\_

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

DISTRICT \_\_\_\_\_

DATE 8/23/2000

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 GOLSTEIN MARION TRUSTEE

ADDRESS 13828 VINTAGE LANE, SILVER SPRING 20906 PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER JOHN CONGEDO, MARBLE SOURCE UNLIMITED

ADDRESS 10907 GUILFORD RD, ANNAPOLIS JCT, MD PHONE (301) 470-2007

PROPERTY LOCATION: Quartz Hill

SUBDIVISION ~~QUARTZ HILL~~ LOT NO. 13

ROAD AND DESCRIPTION W. ROUTE 97, COOKSVILLE, MD 21723

TAX MAP 8 PARCEL # 33

SIZE OF LOT 1 ACRE TYPE BLDG. SINGLE FAMILY DWELLING  
(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

lot 11

COUNTY #

SOIL PROFILE  
429

0'  
Red Br  
Clay Loam  
4.5'  
5'  
Or Red Br  
Sa Clay Loam  
Light  
Br Sa  
Loam  
~35%  
Rock  
14'

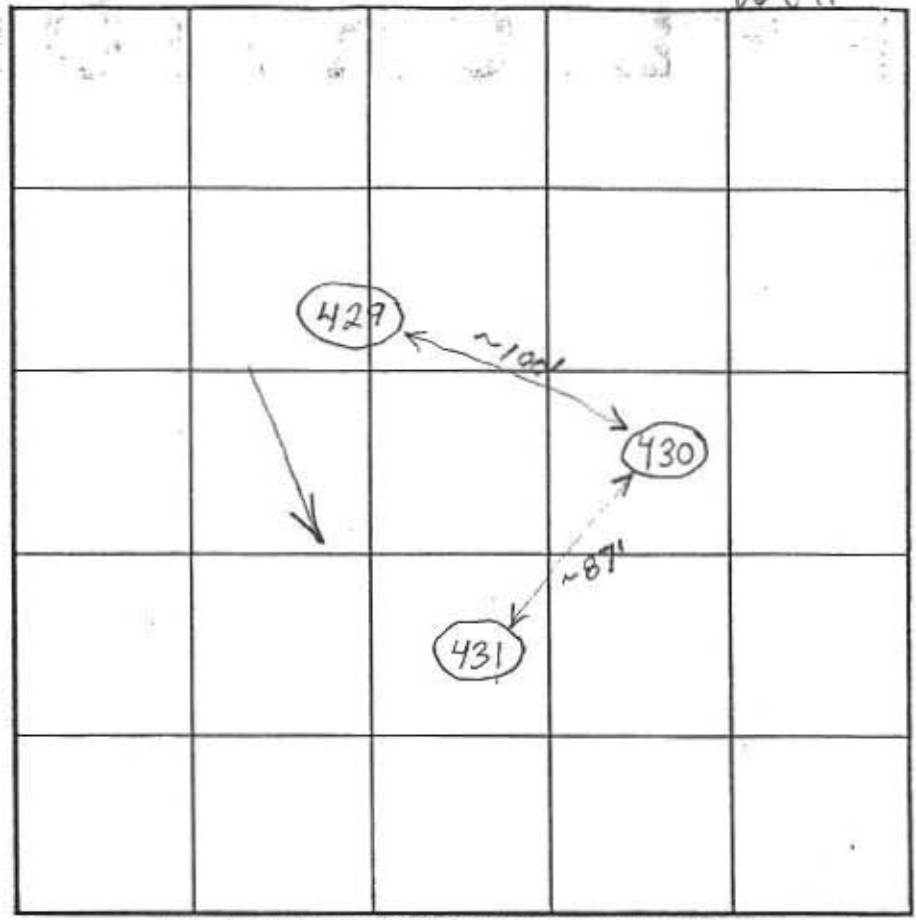
431

6'  
Red Br  
Cl Loam  
8'  
Red Br  
Sa Cl Loam  
Light  
Or Red  
Sa Loam  
~20%  
Rock  
14.5'

430

6'  
Red Br  
Cl Loam  
8'  
Red Or Brown  
Sa Cl Loam  
Light  
Red  
Sa Loam  
~10%  
Rock  
14.5'

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

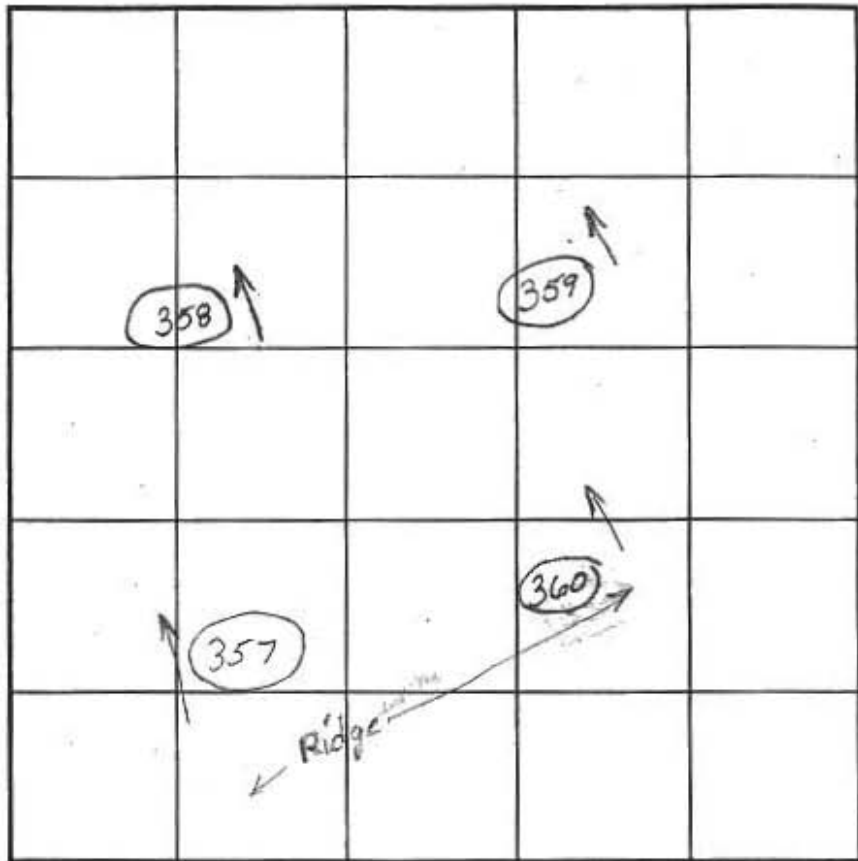
| DATE   | TEST NO. | DEPTH        | PRE-WET |        | TEST - 1" DROP |        | TIME |
|--------|----------|--------------|---------|--------|----------------|--------|------|
|        |          |              | START   | STOP   | START          | STOP   |      |
| 5/9/01 | 429      | 5' / 14.5'   | 1:34    | 1:36   | 1:36           | 1:38   | 2    |
| 5/8/01 | 431      | 5.5' / 14.5' | 3:21    | Pulled |                | → Slow |      |
| 5/9/01 |          | 7'           | 1:29    | 1:38   | 1:38           | 1:51   | 13   |
|        | 430      | 5' / 14.5'   | 1:43    | Pulled |                | → Slow |      |
|        |          | 7'           | 2:11    | 2:13   | 2:13           | 2:20   | 7    |
|        |          |              |         |        |                |        |      |
|        |          |              |         |        |                |        |      |
|        |          |              |         |        |                |        |      |
|        |          |              |         |        |                |        |      |

lot 13

REMARKS \_\_\_\_\_  
 TYPE OF SOIL \_\_\_\_\_  
 TESTED BY B. Baker ALSO PRESENT Mike Johnson  
 TRENCH DESIGN DATA AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_  
 INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SO FT/BEDROOM \_\_\_\_\_

Lot 11

COUNTY # \_\_\_\_\_  
 SOIL PROFILE  
 0' (357)  
 Red Br Cl Loam  
 3.5'  
 Or Brown Sa Si Loam  
 6.0'  
 Rock Pocket 75% Rock  
 Hard Bottom  
 10' (360)  
 Top Soil  
 1.0'  
 Red Br Cl Loam > 50% Rock  
 3.5'  
 Hard Bottom  
 (359)  
 Red Br Cl Loam  
 4.0'  
 Light Or Br Sa Cl Loam  
 6.5'  
 Light Or Br Sa Loam  
 12.0'



SOIL PROFILE  
 0' (358)  
 Red Br Clay Loam  
 4.0'  
 75% Rock from 3.5' down  
 Tan Sa Loam  
 9.0'  
 Hard Bottom

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Route 97

| DATE     | TEST NO. | DEPTH                 | PRE-WET |       | TEST - 1" DROP |       | TIME |     |
|----------|----------|-----------------------|---------|-------|----------------|-------|------|-----|
|          |          |                       | START   | STOP  | START          | STOP  |      |     |
| 11/15/00 | 357      | 3.5'/10'v             | 10:34   | 10:40 | 10:40          | 10:49 | 9    | (F) |
| 12/21/00 | 360      | 3.5'v - See Profile   |         |       |                |       |      | (F) |
|          | 359      | 5'/12'v               | 2:20    | 2:22  | 2:22           | 2:26  | 4    |     |
|          | 358      | 1/9.0'v - See Profile |         |       |                |       |      | (F) |
|          |          |                       |         |       |                |       |      |     |
|          |          |                       |         |       |                |       |      |     |
|          |          |                       |         |       |                |       |      |     |
|          |          |                       |         |       |                |       |      |     |

REMARKS 357, 358, + 360 -> Failed, Excessive Rock  
 TYPE OF SOIL 359 O.K.  
 TESTED BY B. Baker ALSO PRESENT Mike Johnson,  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH John Congedo  
 INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

514209

Lot 11 + 14

COUNTY #

SOIL PROFILE

0' 252/251

Strong brn  
yell brn  
CL Lm  
Lg  
Pebbles  
Rx  
15-20  
6 1/2'

CL Lm to  
hvy Lm  
tan brn  
Rx 10-15%

10'  
14'

Lm  
tan brn  
beige

254

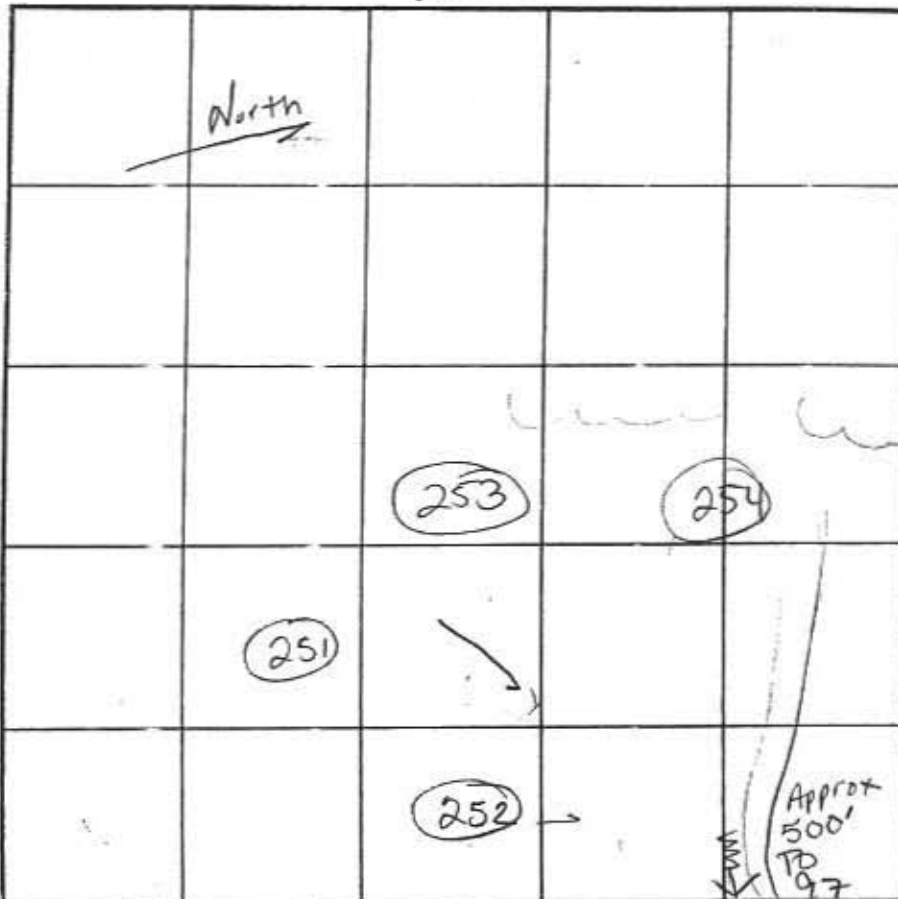
Dr brn  
CL Lm  
2'

tan  
beige  
yellow-brn  
Lm

4' 50% S wall  
Sandy Lm  
Rx  
Pocket  
Patent  
tan  
beige  
9'

35-  
40%  
Rx  
Bot tan  
13'

SOIL PROFILE



| STRUCTURE DATE | TEST NO. | DEPTH     | PRE-WET  |         | TEST - 1' DROP             |      | TIME   |
|----------------|----------|-----------|----------|---------|----------------------------|------|--------|
|                |          |           | START    | STOP    | START                      | STOP |        |
| 2-28-02        | 253      | Refusal @ | 6' Rx    |         | Boulders smaller<br>65-70% |      | (F)    |
|                |          |           |          |         | CLAY ABOVE                 |      |        |
|                | 251      | 6 1/2' S  | 4:43     |         | TOP SLOW                   |      | (F)    |
|                |          | 14' B     |          |         |                            |      |        |
|                | 252      | 6' S      | SEE HOLE | (251)   |                            |      | (F)    |
|                |          | 14' B     |          |         |                            |      |        |
|                | 254      | 4' S      | 4:49:37  | 4:51:15 | 4:51:15                    | 4:55 | ~4 min |
|                |          | 7' S      | 5:01:48  | 5:04:00 | 5:04:00                    | 5:08 | 4 min  |
|                |          | 13' B     |          |         |                            |      | OK     |

REMARKS Lots 14 & 15 Holes per plan

TYPE OF SOIL \_\_\_\_\_ TESTED BY Karee Goedeking ALSO PRESENT Donny Hatfields

TRENCH DESIGN DATA AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

ALLOWED DEPTH \_\_\_\_\_ MA: \_\_\_\_\_ INCH BOTTOM DEPTH \_\_\_\_\_ SO FT/BED' \_\_\_\_\_ M \_\_\_\_\_

10/11

COUNTY #

SOIL PROFILE  
**253A**

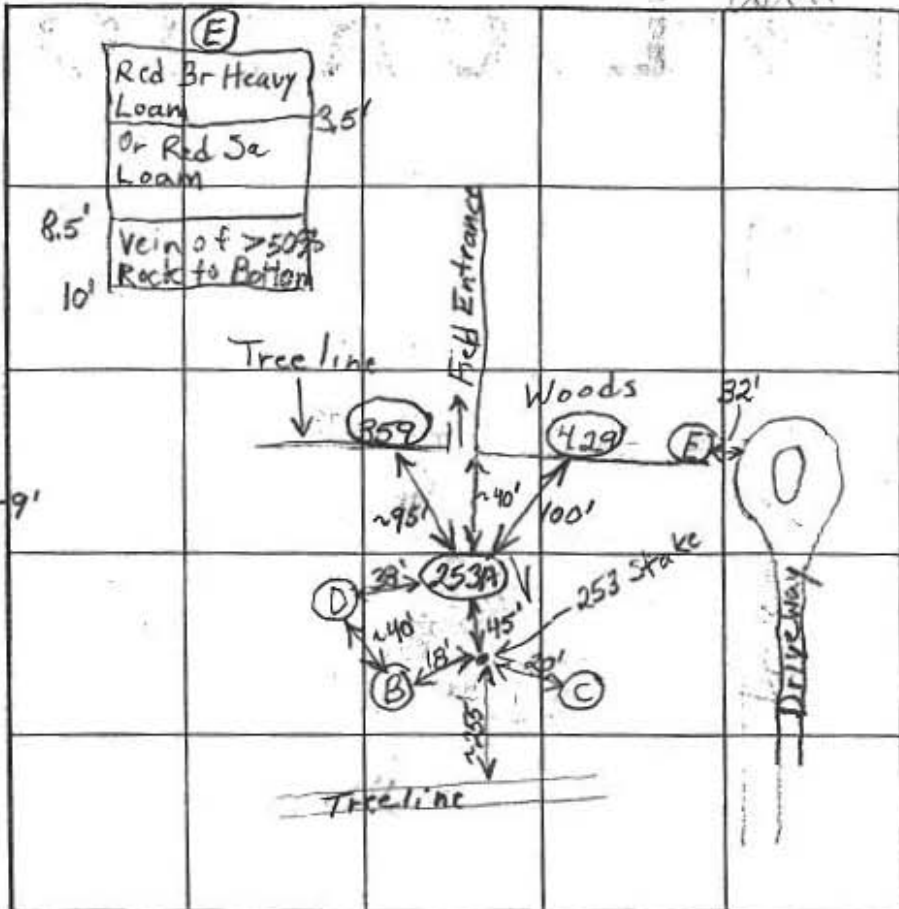
Weak Red Heavy Loam 3.5'  
Or Br Loam ~20% Rock 5'  
Light Br Sa Loam Pockets of ~30 Rock 8.5'  
Pockets of 75% Rock 13'

**(B)**

>50% Rock starting at 1' below Topsoil to 3.5' below Topsoil  
Hard Bottom 5.5'

**(C)**

>50% Rock  
Hard Bottom 46"



SOIL PROFILE

>50% Rock Starting Below 6"  
Hard Bottom 3'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Route 97

| DATE   | TEST NO. | 12"X12" DEPTH | PRE-WET  |          | TEST - 1' DROP |          | TIME                   |
|--------|----------|---------------|----------|----------|----------------|----------|------------------------|
|        |          |               | START    | STOP     | START          | STOP     |                        |
| 6/6/02 | 253A     | 64" / 13'V    | 10:36    | 10:37:05 | 10:37:05       | 10:38:50 | 1/min 45sec <b>(E)</b> |
|        | B        | 5.5'V         |          |          |                |          | <b>(F)</b>             |
|        | C        | 46"V          |          |          |                |          | <b>(F)</b>             |
|        | D        | 3'V           |          |          |                |          | <b>(F)</b>             |
|        | E        | 65" / 10'V    | 11:20:45 | 11:21:30 | 11:21:30       | 11:24:30 | 3                      |
|        |          |               |          |          |                |          |                        |
|        |          |               |          |          |                |          |                        |
|        |          |               |          |          |                |          |                        |
|        |          |               |          |          |                |          |                        |
|        |          |               |          |          |                |          |                        |

REMARKS

TYPE OF SOIL

TESTED BY B. Baker, B. Glatfelter, K. N. ALSO PRESENT M. McCann

TRENCH DESIGN DATA AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH J. Congedo

46" INLET DEPTH MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SO FT/BEDROOM \_\_\_\_\_

COUNTY #

SOIL PROFILE

1011

Red Br Heavy Loam

0- Br

Sa Loam

One Pocket of ~40% Rock From 6.5'-8'

Vein of >50% Rock Below 8'

13'

1011A

Or Br Loam and Topsoil

Red and Or Br Sa Loam

15-20% Rock

8'

75% Rock

11'

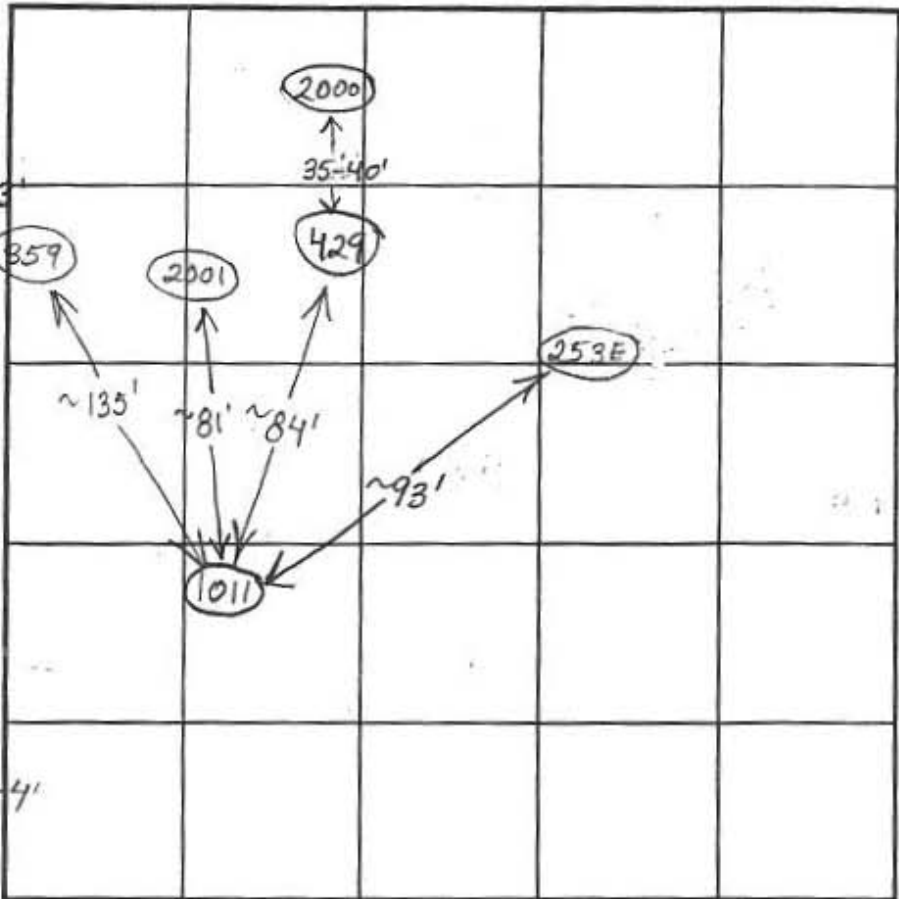
1011B

Red Br Heavy Loam, Loam + topsoil

Or Br Loam and Or Br Sa Loams

Red Br Sa Loam ~25% Rock >50% Rock Below 8'

13.5'



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     |        |  |
| 3/28/03 | 1011     | 3'10" / 13' V | 1:18:15 | 1:20:15          | 1:20:15        | 1:22:15  | ~2 1/2 |  |
|         |          | 6'4"          | 1:18:30 | 1:20             | 1:20           | 1:22:30  | 2 1/2  |  |
|         |          | 8'            | 1:43:15 | 1:47:45          | 1:47:45        | 1:54:30  | ~7     |  |
|         |          | In Rock       |         |                  |                |          |        |  |
|         | 1011A    | 3'8" / 11' V  | 4:37    | Pulled to Around | Save Time      | Probably |        |  |
|         | 1011B    | 4' / 13.5' V  | 5:00    | 5:22:30          | 5:22:30        |          | Slow   |  |

REMARKS

TYPE OF SOIL

TESTED BY B. Baker / F. Alfonso

ALSO PRESENT

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SO FT/BEDROOM

EASEMENT

H08-10-006

This Grant of Easement, made as of this 3 day of February 2009, by Quartz Hill, LLC, hereinafter referred to as the "Declarant", and Chad A. Martin and Julie Martin, hereinafter referred to as the "Contract Purchaser".

WHEREAS Declarant is the owner of certain real property situate in Howard County, State of Maryland, shown as Lot 33 on Exhibit A attached hereto and incorporated herein; which property is more particularly described in a Deed dated December 21, 2000, and recorded among the Land Records of the aforesaid County in Liber 5300 at folio 344 and all of that ground described in a Confirmatory Adjoinder Deed dated January 3, 2002, and recorded among the Land Records of the aforesaid County in Liber 5899 at folio 402 (hereinafter referred to as the "Servient Estate"); and

WHEREAS Declarant is the owner of that certain real property adjacent to the Servient Estate described as Lot 32 as shown on Exhibit A attached hereto and incorporated herein; which property is more particularly described in a Deed dated March 12, 2002, and recorded among the Land Records of the aforesaid County in Liber 6048 at folio 650 (hereinafter referred to as the "Dominant Estate") which property Chad A. Martin and Julie Martin have contracted to purchase pursuant to a contract dated 9/23, 2008 ("Contract Purchaser"); and

20  
20  
JC

WHEREAS it is Declarant's intention to provide for the means of construction, installation, repair, maintenance, alteration, and operation of a septic field as well as an easement for purposes of performing maintenance on said septic field, on, in, through, over and across the Servient Estate for the use and benefit of the Dominant Estate.

WHEREAS Declarant desires to create, in perpetuity an easement for such purposes.

NOW THEREFORE, THIS DECLARATION WITNESSETH:

1. Declarant, for itself, its successors and assigns, does hereby declare and create a perpetual easement for the installation, construction, maintenance, alteration, and operation of a septic field and all related facilities and operations as well as an easement for ingress and egress over the within described area whenever it may be necessary for the purpose of installation, construction, maintenance, alteration and inspection of the septic field. The area over which the easement is granted is described on Exhibit A attached hereto and entitled "Description of A Private Sewerage Access and Maintenance Easement Across and Within the Property of Quartz Hill, LLC (Liber 5300 at Folio 344 and Liber 5899 at Folio 402), Fourth Election District, Howard County, Maryland" (the "Easement Area") and the easement shall run to the benefit of the Dominant Estate and burden the Servient Estate and run with the Dominant Estate and bind the Servient Estate in perpetuity, or until such time as Dominant Estate is connected to public sewage.

2. At no time shall any permanent above-ground structure be erected on the Easement Area by the Declarant, or its respective successors and assigns.

2/10/2009 12:33 PM Csh 0024 Reg 0047  
T/Ref 0047002819 Grp 000001 R/Lne 000003  
01 - Main Location  
\$0.00  
Validation Number: 0047-002540  
10000540  
Easement Number: 429813  
Easement Description:  
Easement Amount: \$0.00

3. Declarant, its successors and assigns, shall have the right and privilege of entering upon the Servient Estate, whenever it may be necessary, to make openings and excavations, and to lay, construct and maintain the septic fields, provided, however, that the ground shall be restored and left in good condition at the completion of such work, to the reasonable satisfaction of the owner of the Servient Estate.

4. Contract Purchaser executes this Easement to acknowledge its understanding as to the agreements as set forth above and to bind the Dominant Estate in which it has equitable title.

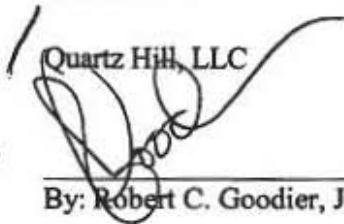
5. This Easement constitutes a mutual covenant running with the land, and all successive future owners of each of the Dominant Estate and Servient Estate shall have the same right to invoke and enforce its provisions as the original signers hereof.

IN TESTIMONY WHEREOF, the parties have signed this Easement under seal, as of this 3 day of February, 2009.

WITNESS:

DECLARANT:

Robert L. Callahan

Quartz Hill, LLC  


(SEAL)  
By: Robert C. Goodier, Jr., Managing Member

CONTRACT PURCHASER

\_\_\_\_\_

  
Chad A. Martin (SEAL)

\_\_\_\_\_

  
Julie Martin (SEAL)

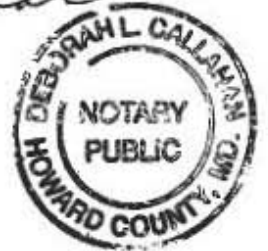
STATE OF MARYLAND, COUNTY OF Howard, to wit:

I HEREBY CERTIFY that on this 2<sup>nd</sup> day of Feb, 2009 before me the subscriber, a Notary Public of the State of Maryland personally appeared **ROBERT C. GOODIER, JR.**, as Managing Member of Quartz Hill, LLC, known to me (or satisfactorily proven) who made oath in due form of law as to the truth of the matters and facts contained herein to the best of his knowledge, information and belief and that the execution hereof is his free and voluntary act.

WITNESS my hand and Notarial Seal.

Deborah L. Callahan  
Notary Public

My Commission Expires: 2/28/12



STATE OF MARYLAND, COUNTY OF Howard, to wit:

I HEREBY CERTIFY that on this 3 day of February, 2009 before me the subscriber, a Notary Public of the State of Maryland personally appeared **CHAD A. MARTIN**, known to me (or satisfactorily proven) who made oath in due form of law as to the truth of the matters and facts contained herein to the best of his knowledge, information and belief and that the execution hereof is his free and voluntary act.

WITNESS my hand and Notarial Seal.

CHRISTINE R. SADLER  
NOTARY PUBLIC STATE OF MARYLAND  
County of Carroll  
My Commission Expires June 1, 2011

CS  
Notary Public

My Commission Expires: \_\_\_\_\_

STATE OF MARYLAND, COUNTY OF Howard, to wit:

I HEREBY CERTIFY that on this 3 day of February, 2009 before me the subscriber, a Notary Public of the State of Maryland personally appeared **JULIE MARTIN**, known to me (or satisfactorily proven) who made oath in due form of law as to the truth of the matters and facts contained herein to the best of her knowledge, information and belief and that the execution hereof is her free and voluntary act.

WITNESS my hand and Notarial Seal.

  
\_\_\_\_\_  
Notary Public

CHRISTINE R. SADLER  
NOTARY PUBLIC STATE OF MARYLAND  
County of Carroll  
My Commission Expires June 1, 2011

My Commission Expires: \_\_\_\_\_

**AFTER RECORDING RETURN TO:**

**JAMES L. MAYER, P.A.  
10805 HICKORY RIDGE ROAD  
SUITE 200  
COLUMBIA, MD 21044  
(410) 740-9401**

real estate/easement/feaga/Quartz Hill septic easement

November 25, 2008

**DESCRIPTION  
OF A PRIVATE SEWERAGE,  
ACCESS AND MAINTENANCE EASEMENT  
ACROSS AND WITHIN  
THE PROPERTY OF  
QUARTZ HILL, LLC  
(LIBER 5300 AT FOLIO 344 AND LIBER 5899 AT FOLIO 402)  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND**

**BEING** a parcel or strip of varying width, situate and lying in the Fourth Election District of Howard County Maryland; and being within, through, over and across part of the property conveyed by Zelda L. Dubin and Marian Goldstein, Trustee of The Marian Goldstein Revocable Trust Dated March 18, 1996 to Quartz Hill, LLC by deed dated December 21, 2000 and recorded among the Records of Howard County, Maryland in Liber 5300 at Folio 344 (Parcel One) and part of the property conveyed by Thomas P. Haney and Gertrude Haney, individually, and Thomas P. Haney and Gertrude Haney, Trustees to Quartz Hill, LLC by Confirmatory Adjoiner Deed dated January 3, 2002 and recorded among the Land Records of Howard County, Maryland in Liber 5899 at Folio 402; said parcel or strip being more particularly described in the Maryland State Coordinate System NAD'83 Datum, as projected by Howard County Geodetic Control, as follows:

**BEGINNING FOR THE SAME** at a point on and distant 131.32 feet from the end of the Fourth (4th), or North 88°56'50" East, 217.96 foot Deed Line of the land conveyed by Thomas P. Haney and Gertrude Haney, individually, and Thomas P. Haney and Gertrude Haney, Trustees to Quartz Hill, LLC by Confirmatory Adjoiner Deed dated January 3, 2002 and recorded among the Land Records of Howard County, Maryland in Liber 5899 at Folio 402; thence leaving said Deed Line and running in, through, over and across the property of the owner, the following ten (10) courses and distances:

- 1) South 02°55'16" West, 147.28 feet,
- 2) North 87°48'04" West, 489.44 feet,
- 3) South 39°47'32" West, 64.83 feet,

**FISHER,  
COLLINS  
&  
CARTER,  
INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

18272 Baltimore National Pike  
Ellicott City, Maryland 21042  
(410) 481-2955  
Fax (410) 750-3784

- 4) South 76°40'28" West, 55.82 feet,
- 5) North 46°14'18" West, 80.84 feet,
- 6) North 18°51'02" East, 61.11 feet, and
- 7) North 79°33'20" East, 98.41 feet,
- 8) South 40°19'42" East, 64.33 feet,
- 9) South 87°48'04" East, 466.50 feet, and
- 10) North 02°55'16" East, 126.15 feet to a point on and distant 66.59 feet from the beginning of the aforesaid Fourth (4th) Deed Line of Liber 5899 at Folio 402; thence running with and binding on said Deed Line, the following course and distance:
- 11) North 88°57'41" East, 20.05 feet to the point of beginning; containing 26,460 square feet or 0.61 of an acre, more or less.

**SUBJECT TO** all easements, covenants, restrictions and right-of-ways of record, which may apply.

The above description was prepared without the benefit of a Title Report.



Prepared By GAF

Checked By GAF

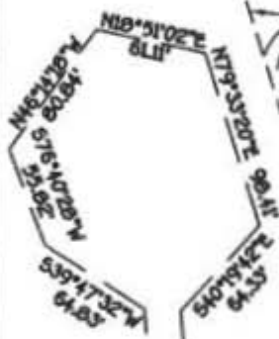
WO #30797

|                |              |
|----------------|--------------|
| IMP FD SURE \$ | 28.00        |
| RECORDING FEE  | 28.00        |
| TOTAL          | 48.00        |
| Reg # HD82     | Acct # 58912 |
| MDR SLC        | Blk # 918    |
| Feb 11r 2009   | 12:16 PM     |

**FISHER,  
COLLINS  
&  
CARTER,  
INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

10272 Baltimore National Pike  
Ellicott City, Maryland 21042  
(410) 461-2900  
Fax (410) 750-3784



20TH N79°32'29"E  
 252.47' DEED LINE  
 (PARCEL ONE)  
 LIBER 5300, FOLIO 344

PROPERTY OF  
 THOMAS P. & GERTRUDE P.  
 HANEY, TRUSTEES  
 Liber 3964, Folio 377  
 Tax Map 8, Grid 5, Parcel 31

ZONED RC-DEO

SEPTIC  
 EASEMENT



PARCEL 32

PROPERTY OF  
 QUARTZ HILL LLC  
 TAX MAP 8 PARCEL 32  
 LIBER 6048 FOLIO 650

N07°40'04"W 159.44'  
 S07°40'04"E 159.50'

EXISTING 10'  
 PRIVATE R/W  
 LIBER 3964, FOLIO 377

N02°55'16"E 126.15'

N00°57'41"E  
 20.05'

POINT OF  
 BEGINNING  
 FOR DESCRIPTION

S02°55'16"W 147.28'

PROPERTY OF  
 QUARTZ HILL LLC  
 TAX MAP 8 PARCEL 33  
 LIBER 5899 FOLIO 402  
 LIBER 5300, FOLIO 344

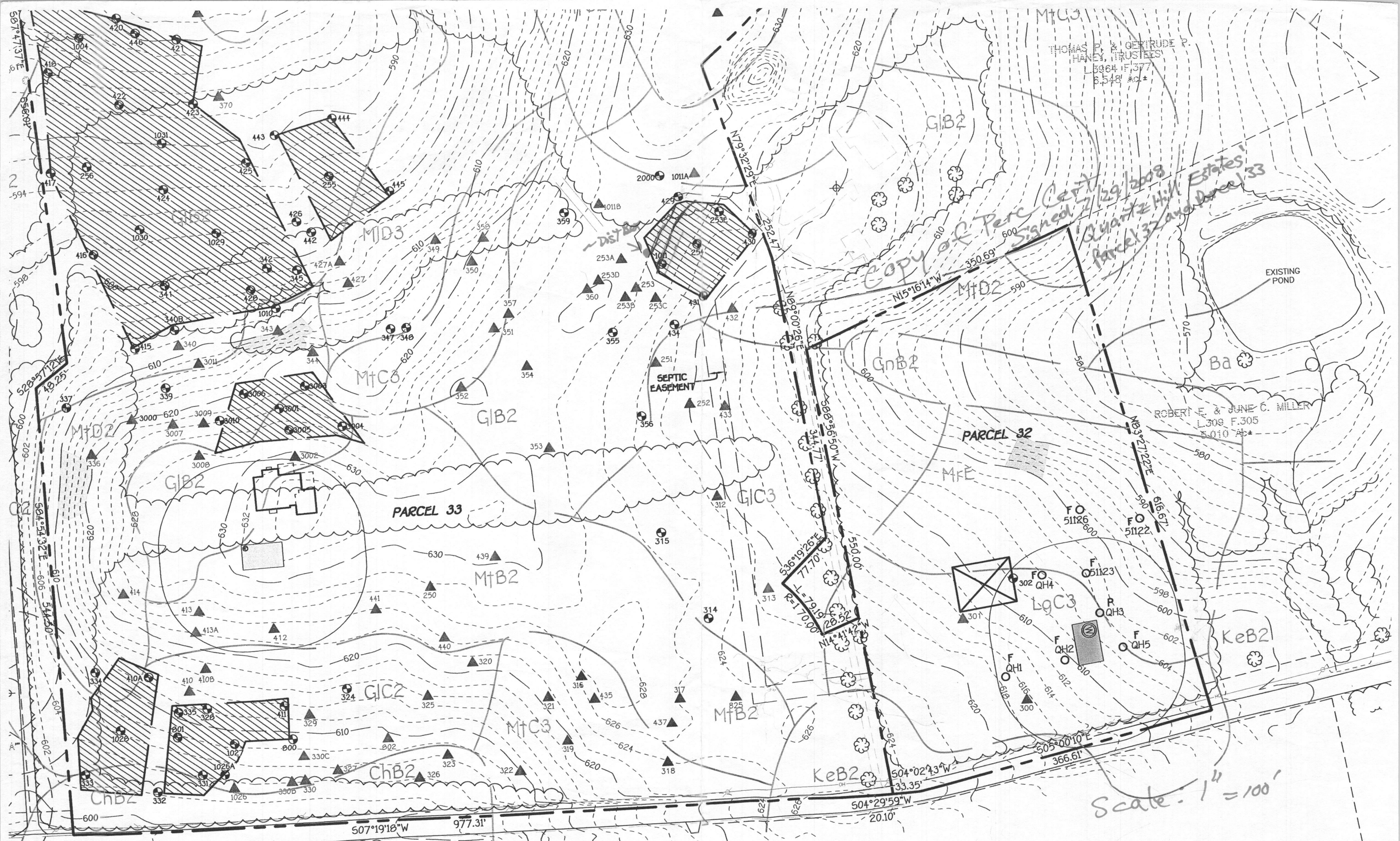
4TH N00°56'50"E  
 217.96' DEED LINE  
 LIBER 5899, FOLIO 402

HOODS MILL ROAD  
 MARYLAND ROUTE 97

QUARTZ HILL ESTATES  
 PARCEL 32  
 ZONED: RC-DEO  
 GRID No. 5 PARCEL No: P/O 33 AND 32  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: JANUARY 28, 2009  
 SCALE: 1" = 100'  
 SHEET 1 OF 1

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2055

K:\SDSKPROJ\30797 QUARTZ HILL\dwg\30797 Revised Septic Exhibit Parcel 32.dwg, 1/30/2009 8:03:07 AM, tony, 1:1



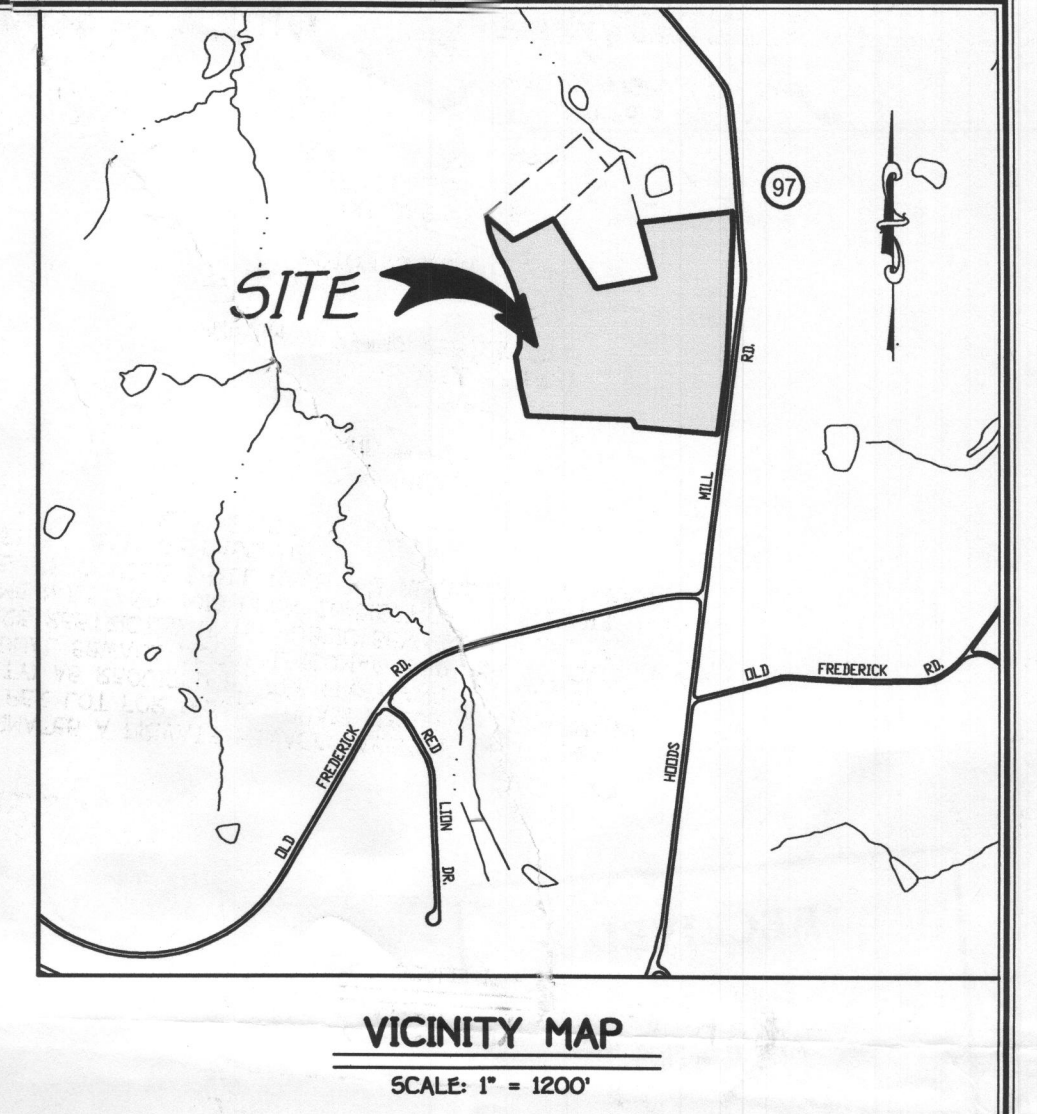
**HOODS MILL ROAD - MARYLAND ROUTE NO. 97**  
 (EXISTING R.O.W. - 30')

ROSE HILL FARM, LLC  
 L5091 F.754

DAVID J. & ELIZABETH C.  
 SURVEYORS

| SOIL | NAME   | CLASS |
|------|--|-------|
| ChB2 | Chester silt loam, 3 to 6 percent slopes, moderately eroded        | B     |
| GIB2 | Glennig loam, 3 to 6 percent slopes, moderately eroded             | B     |
| GIC2 | Glennig loam, 6 to 15 percent slopes, moderately eroded            | B     |
| GIC3 | Glennig loam, 6 to 15 percent slopes, severely eroded              | B     |
| GnB2 | Glennville silt loam, 3 to 6 percent slopes, moderately eroded     | C     |
| KeB2 | Kelly silt loam, 3 to 6 percent slopes, moderately eroded          | D     |
| LgC3 | Legore silty clay loam, 6 to 15 percent slopes, severely eroded    | D     |
| MgC3 | Montalto silty clay loam, 6 to 15 percent slopes, severely eroded  | B     |
| MD3  | Minor loam, 15 to 25 percent slopes, severely eroded               | B     |
| ME   | Minor loam, 25 to 45 percent slopes                                | B     |
| MyE  | Montalto and Relay soils, 15 to 45 percent slopes                  | B     |
| MJB2 | Mt. Airy channery loam, 3 to 6 percent slopes, moderately eroded   | A     |
| MJC2 | Mt. Airy channery loam, 6 to 15 percent slopes, moderately eroded  | A     |
| MJC3 | Mt. Airy channery loam, 6 to 15 percent slopes, severely eroded    | A     |
| MJD2 | Mt. Airy channery loam, 15 to 25 percent slopes, moderately eroded | A     |

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



**GENERAL NOTES:**

- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SF (OR 10,000 SQUARE FEET PER LOT FOR SHARED DRAIN FIELDS ASSOCIATED WITH A SHARED SEWAGE DISPOSAL FACILITY) AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03) IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT.
- ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- EXISTING WELLS AND/OR SEWAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM ALL REASONABLE EFFORTS.
- ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- WELL SHALL BE DRILLED PRIOR TO BUILDING PERMIT.
- TOPOGRAPHIC CONTOURS BASED ON AERIAL BY POTOMAC AERIAL SURVEYS AND FIELD VERIFIED BY VANMAE ASSOC. INC.
- THIS PLAT IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT MARCH, 2007, BY FISHER, COLLINS & CARTER, INC.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- DEED REFERENCE Parcel 32 LIBER 6048 FOLIO 650 Parcel 33 Liber 5300 FOLIO 344.
- LOT YIELD IS DEPENDENT UPON NITROGEN BALANCE STUDY (IF OVER 5,000GPD THEN ADD GROUNDWATER MONITORING AND HYDROLOGIC BALANCE STUDIES).
- LOT YIELD AND BEDROOM COUNTS ARE SUBJECT TO REVIEW BY MARYLAND DEPARTMENT OF THE ENVIRONMENT, BUREAU OF UTILITIES, AND THE HOWARD COUNTY HEALTH DEPARTMENT WHEN THE WATER AND SEWER CONTRACT PLANS WITH THE SHARED SEWAGE DISPOSAL SYSTEM ARE SUBMITTED.
- THE DRIVEWAY SERVING PRESERVATION PARCEL 401 0000 ROUTE 97 CANNOT BE CONSTRUCTED OVER THE AREA IDENTIFIED AS "SEPTIC EASEMENT", WHICH IS A RECORDED EASEMENT SERVING PARCEL 32.

**LEGEND:**

PROPOSED PERC TESTS 3/2011  
 EXISTING PERCOLATION TEST SITE: BY FISHER COLLINS & CARTER, INC.  
 EXISTING PERCOLATION TEST SITE: BY VANMAE  
 PROPOSED HOUSE  
 PROPOSED WELL SITE  
 SOILS  
 NOTE: THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF ANY PROPERTY BOUNDARIES UNLESS OTHERWISE SHOWN HEREON.  
 SEPTIC RESERVE TO BE ABANDONED  
 PREVIOUSLY APPROVED SEPTIC RESERVE  
 EXISTING WELL SITE  
 FOREST CONSERVATION EASEMENT

**PERC CERTIFICATION**

I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.

*Terrill A. Fisher*  
 Signature of Professional Land Surveyor  
 Terrill A. Fisher, Professional Land Surveyor No. 10446 Expires 12/13/13

4/5/13  
 Date

APPROVED FOR PRIVATE WATER AND PRIVATE SEPTIC SYSTEMS ON PARCEL 32 AND P/O PARCEL 33, AND SHARED SEPTIC SYSTEMS ON P/O PARCEL 32 & 401

*Anna Roman*  
 COUNTY HEALTH OFFICER

4/16/2013  
 DATE

**PERCOLATION CERTIFICATION PLAN**  
**QUARTZ HILL ESTATES**  
 PARCEL 401  
 ZONED: RC-DEO  
 TAX MAP No. 6 GRID No. 5 PARCEL No. P/O 33 AND 32  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: APRIL 5, 2013  
 SCALE: 1" = 100'  
 SHEET 1 OF 1

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2995

DAVID J. & ELIZABETH C. MULLINIX  
 L-264 F-43  
 HOWARD COUNTY AGRICULTURAL PRESERVATION PROGRAM - EASEMENT #H084-04-E

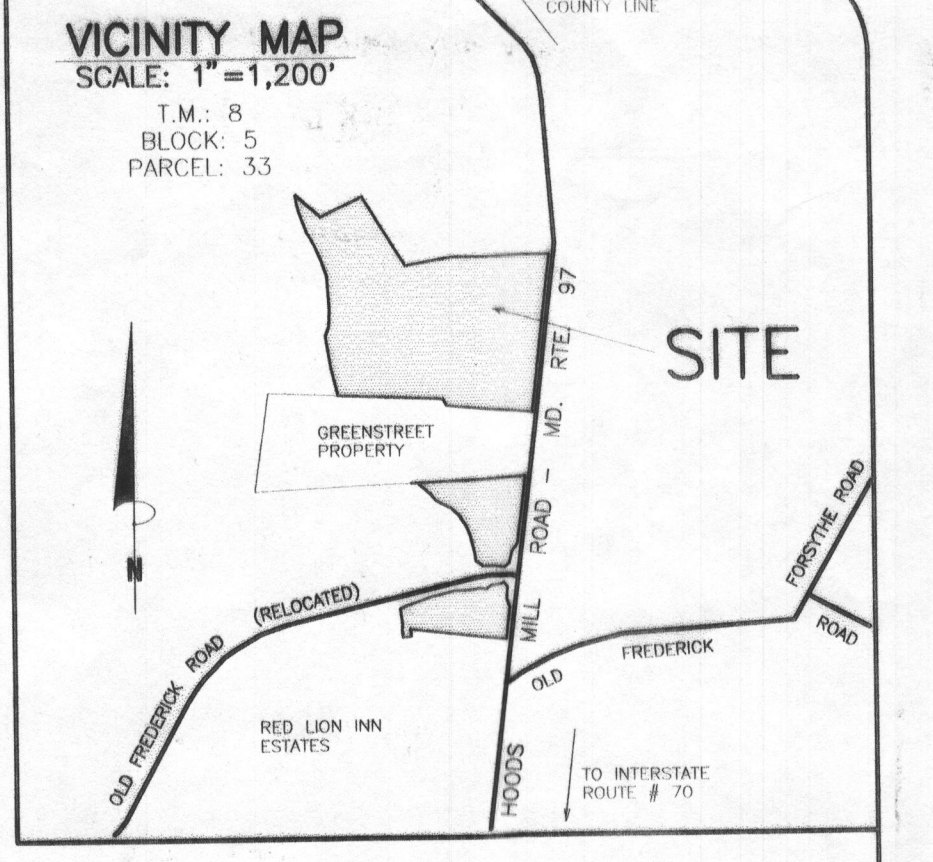
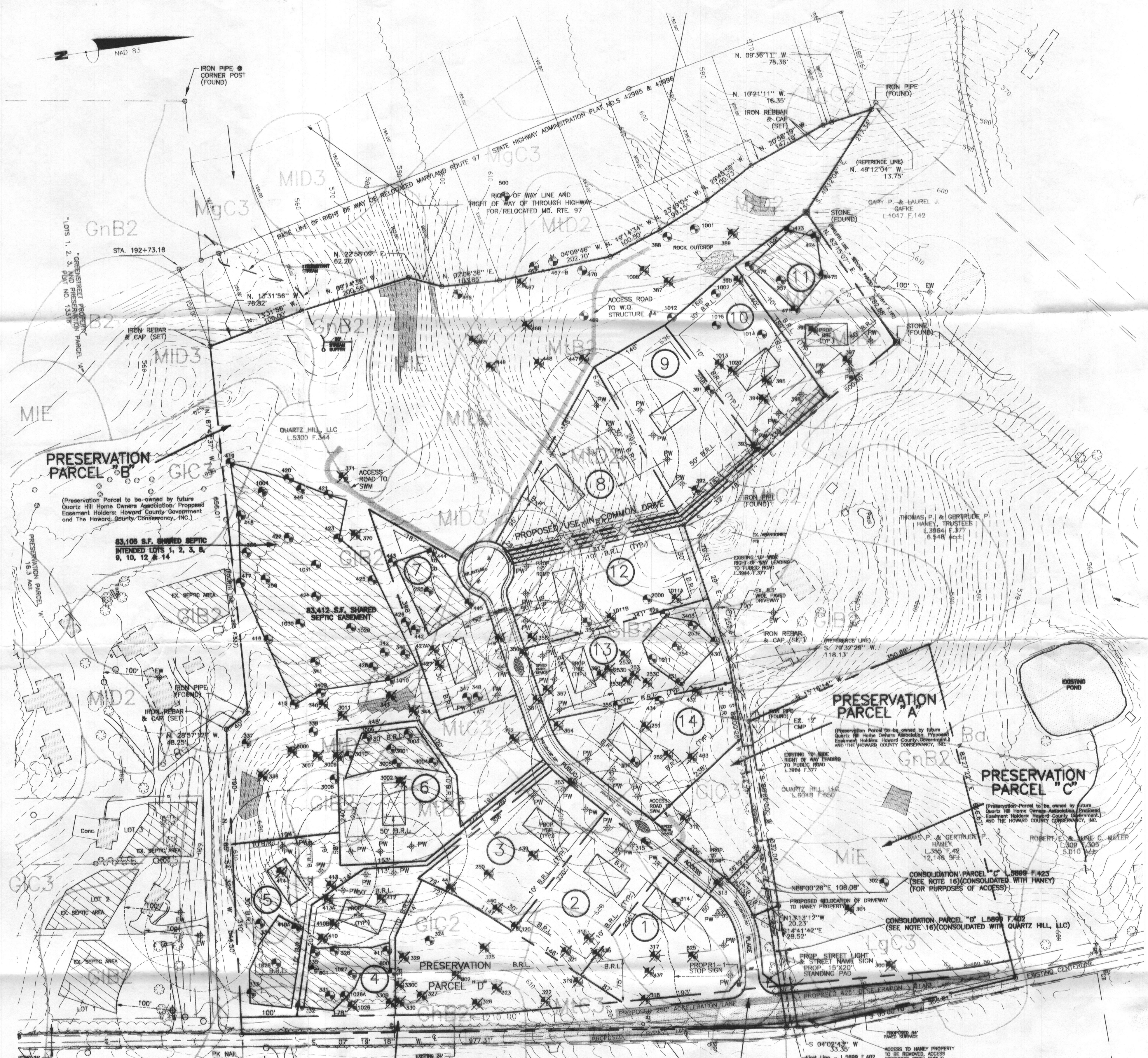
ROSE HILL FARM, LLC  
 L-5091 F-754

**Owner And Developer**

Jen And Jason Pett  
 4560 Hemlock Cone Way  
 Ellicott City, Md 21042

PC53014

| LOT AREA CHART |          |        |
|----------------|----------|--------|
| LOT            | SQ. FEET | AC±    |
| 1              | 43,863   | 1.0069 |
| 2              | 38,300   | 0.8792 |
| 3              | 43,153   | 0.9906 |
| 4              | 45,176   | 1.0371 |
| 5              | 49,845   | 1.1443 |
| 6              | 49,564   | 1.1378 |
| 7              | 44,360   | 1.0184 |
| 8              | 48,918   | 1.1230 |
| 9              | 49,932   | 1.1455 |
| 10             | 49,819   | 1.1437 |
| 11             | 49,852   | 1.1444 |
| 12             | 48,996   | 1.1248 |
| 13             | 49,485   | 1.1342 |
| 14             | 47,807   | 1.0975 |



- GENERAL NOTES:
- LOT 7 IS RESTRICTED TO A 4 BEDROOM HOUSE.
  - TAX MAP: 8 GRID: 5 PARCEL: 33
  - THERE IS NO FLOOD HAZARD (100 YEAR FLOOD PLAIN) LOCATED ON THIS PROPERTY ACCORDING TO FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL # 240044 0008 B, REVISED DECEMBER 4, 1988
  - TOPOGRAPHY: CONTROLLED AERIAL BY POTOMAC AERIAL SURVEYS, MD 83 DATUM. CONTOUR INTERVAL IS TWO FEET. FIELD VERIFIED BY VANMAR ASSOC., INC.
  - THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
  - THE EXISTING WELL(S) SHOWN ON THIS PLAN HAS BEEN FIELD LOCATED BY VANMAR ASSOCIATES, INC. PROFESSIONAL LAND SURVEYORS AND ACCURATELY SHOWN.
  - ZONING DISTRICT: AC60
  - ALL WELLS TO BE DRILLED PRIOR TO SUBMITTAL OF SIGNATURE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
  - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
  - GROUNDWATER APPROPRIATIONS TO BE SIGNED PRIOR TO WELLS BEING DRILLED AND FINAL PLAT RECORDATION.
  - THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY MARYLAND STATE DEPARTMENT OF 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 PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
  - LOT YIELD IS CONTINGENT UPON NITROGEN BALANCE CALCULATIONS.

EXISTING PERCOLATION TEST SITE: (FAILED) (PASSED)

PROPOSED HOUSE SITE: PROPOSED WELL: EXISTING WELL:

NOTE: THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF ANY PROPERTY BOUNDARIES UNLESS OTHERWISE SHOWN HEREON.

HOODS MILL ROAD - MARYLAND ROUTE NO. 97  
(EXISTING R.O.W. - 30' / FUTURE R.O.W. - 80')

AREA OF DEDICATED RIGHT OF WAY FOR THE MD. STATE HIGHWAY ADMINISTRATION - FOR THE PURPOSE OF PUBLIC ROAD WIDENING.

LAND DEDICATED TO HOWARD COUNTY, MARYLAND FOR THE PURPOSE OF A PUBLIC ROAD.

| DATE     | REVISIONS                       |
|----------|---------------------------------|
| 04/26/01 | 50K SHD SYS & 284/43            |
| 05/23/01 | Adj. 30k s/s & Lots 5&11        |
| 05/17/02 | Additional perc test holes      |
| 06/22/02 | Additional testing results      |
| 12/20/02 | Finals Lot 14/15/16/17/18/19/20 |
| 04/07/03 | Additional perc test results    |
| 05/30/03 | Revise Lot 6                    |
| 12/14/05 | Percs added, Reconfig. Lots     |
| 1/3/06   | Adj. Septics, Note 12           |
| 1/10/06  | Label for Lot 5, Note 13        |
| 1/19/06  | Lots 4&5 Septic                 |

I HEREBY CERTIFY THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.  
I FURTHER CERTIFY THAT THE PERCOLATION TEST HOLES HAVE BEEN FIELD LOCATED IF EXISTING AND ACCURATELY STAKED IF PROPOSED AND SHOWN HEREON.

*T. Michael Vansant* 1/20/2006  
T. MICHAEL VANSANT, PROF. L. S., MD. REC. # 21268 DATE



PERCOLATION CERTIFICATION PLAN  
QUARTZ HILL ESTATES

Liber 5300 at Folio 0344 (PARCEL ONE)

SITUATED ON THE WEST SIDE OF HOODS MILL ROAD - MARYLAND ROUTE #97

FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE: 1"=100' APRIL, 2001

**VANMAR ASSOCIATES, INC.**  
Engineers Surveyors Planners  
310 South Main Street P.O. Box 328  
Mount Airy, Maryland 21771  
(301) 259-2890 (301)851-8018 (410) 549-2751

APPROVED:  
FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*Robert J. Wale* 1/20/06  
HOWARD COUNTY HEALTH OFFICER DATE

File name: T:\EP\UCBS\A0-4471\FIELD\A04471F



# HOWARD COUNTY HEALTH DEPARTMENT

A5 28496

DATE  
2/13/08

Received From

Heritage Realty & Land Development PHONE #

PO Box 482 Lisbon MD 21765

For Perce Application

CASH

CHECK

Swing Hill - Lot 13 - Rt 97

NO.

3971

Five hundred 24 and 00/100

Dollars

\$

506

00

Received By

Mary R. Briggs