

# APPLICATION

## PERCOLATION TESTING

A 518516

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 410-313-2640

DISTRICT \_\_\_\_\_  
DATE 1/17/2003

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 Phillip Carroll

ADDRESS <sup>3500</sup> Manor Lane, Ellicott City, MD 21042 PHONE Call Tim Feaga

AGENT OR PROSPECTIVE BUYER Tim Feaga, Heritage Land Development

ADDRESS 3060 Washington Rd., Suite 220, Glenwood, MD 21738 PHONE 410-489-7900

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION \_\_\_\_\_

Manor Lane off of Frederick Rd. (Rt. 144)

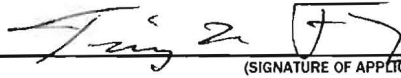
TAX MAP NO. 23 PARCEL # 71

SIZE OF LOT approx. 350 ac TYPE OF BLDG. Tenant House  
(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

518516

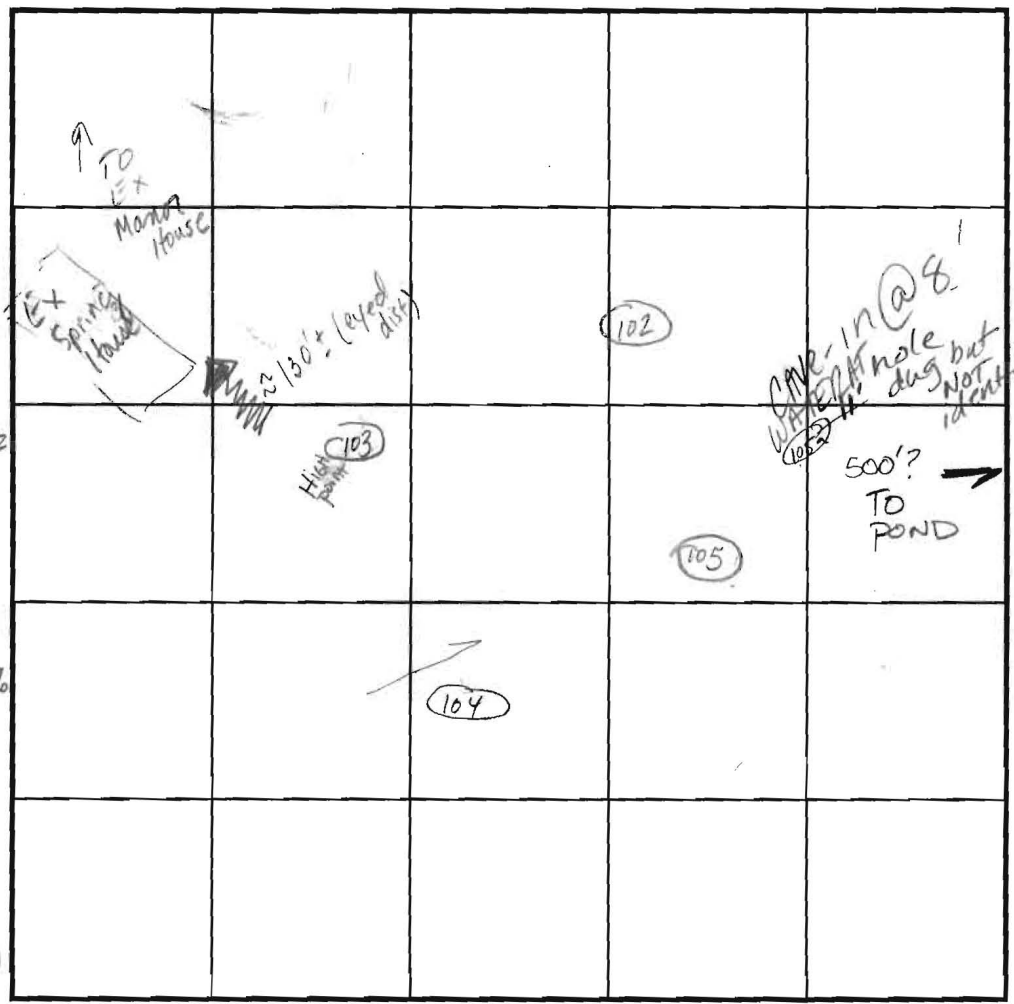
COUNTY #

SOIL PROFILE

0' (104)  
 ybrn  
 tan  
 Trace Rx  
 SiCLM  
 5'  
 gleyish  
 grey  
 SLam  
 5 1/2'  
 loamy  
 sand  
 rd brn  
 brn  
 sm frags  
 decomposed  
 Rx-granular < 5%  
 Water 11'

(105)  
 Strong  
 org  
 CLM  
 Ribbons 1/2"  
 Some gritty  
 texture (sand)  
 3'  
 DKybrn  
 DKbrn  
 md grained  
 sand  
 Trace  
 Sr saprolite  
 11 1/2'  
 Water  
 (102) 12 1/2'

DKorgbrn  
 CLM  
 4'  
 DKbrn  
 SCLM  
 TRANSITION  
 5'  
 DKybrn  
 strongbrn  
 md grained  
 sand  
 14'  
 Water



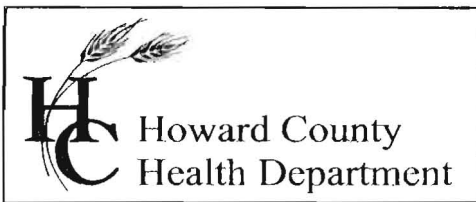
INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0' (103)  
 Strong  
 org  
 yorg  
 SCLM  
 pebbles 1/2"  
 17'  
 med  
 grained  
 sand  
 brn  
 tan  
 beige  
 Cave-in  
 @ 11'  
 Water 13'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
2-6-03	ARRIVAL		9:01 AM				
(105) & (102)	AT 11:30,		CAVE IN UP TO 10'				
	1/5A - Hole dug but NOT STAKED - NE of 105		≈ 60' AWAY				
			Cave-in @ 8'				
			Chuck Zepp and Tim Feaga				
			decided not to perc soils.				
			Chose new location				

REMARKS Gently rolling terrain Holes dug per plan  
 TYPE OF SOIL 5' Deep clay & water table Massive soil struct  
 TESTED BY Kacie ALSO PRESENT Tim Feaga & Chuck Zepp  
 TRENCH DESIGN DATA: AVG. PERCOLATION TIME TRENCH WIDTH  
 INLET DEPTH MAXIMUM BOTTOM DEPTH SQ. FT./BEDROOM



3525 H Ellicott Mills Drive, Ellicott City, MD 21043  
(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

February 7, 2003

Phillip Carroll  
3500 Manor Lane  
Ellicott City, MD 21042

RE: Percolation test results –**A518516**  
Tax Map: 23 Lot:71  
Percolation testing to support tenant dwelling

Dear Mr. Carroll:

Percolation testing conducted February 6, 2003, on the referenced property yielded limiting soil conditions. Compacted soil structure exists to an average depth of 4 1/2 feet with mottles as high as 4 feet below the surface. Due to such conditions additional percolation test holes were dug at higher elevations. Test holes 107, 113, 116, 114, and 115 are most ideal for consideration of septic system installation. Copies of the percolation test notes enclosed.

Further review is contingent upon submission of a percolation certification plan by a professional engineer with holes located by a licensed surveyor. This plan must include the following:

- actual locations and elevations of all excavated test holes
- suitable well and house location including the number of proposed bedrooms
- locations and intent of any existing structures on the property
- locations of any streams, drainage swales, or springs on the property
- field matched contour lines at 2-foot intervals with clearly defined elevation labels
- locations of any wells or septic systems within 100 feet of the proposed building and any wells or down slope of the proposed septic area up to 200 feet away
- proposed SDA with total calculated area

The plan should be submitted within sixty (60) days. If you have any questions regarding this matter, please contact me at the address above or by calling (410) 313-2640. Thank you in advance for your time and cooperation.

Respectfully,

Kacie Noonan, Sanitarian  
Water and Sewerage Program

KN  
Enclosures

cc: Tim Feaga  
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

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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)

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(SIGNATURE OF APPLICANT)

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DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

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REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

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

# THIS IS NOT A PERMIT

518510

COUNTY #

SOIL PROFILE

0' (112)  
strong org  
tightly  
packed cl  
loam

4 1/2"  
gleyish  
colors, strong  
mottles, strong  
contrast  
Mn nodules  
sm + lg  
micaceous  
silm

15'  
water  
Bottom

(108)

4'  
strong brn  
tan  
packed  
slm  
gritty  
pebbles  
20-25%

str. brn  
tan  
med grained  
SAND

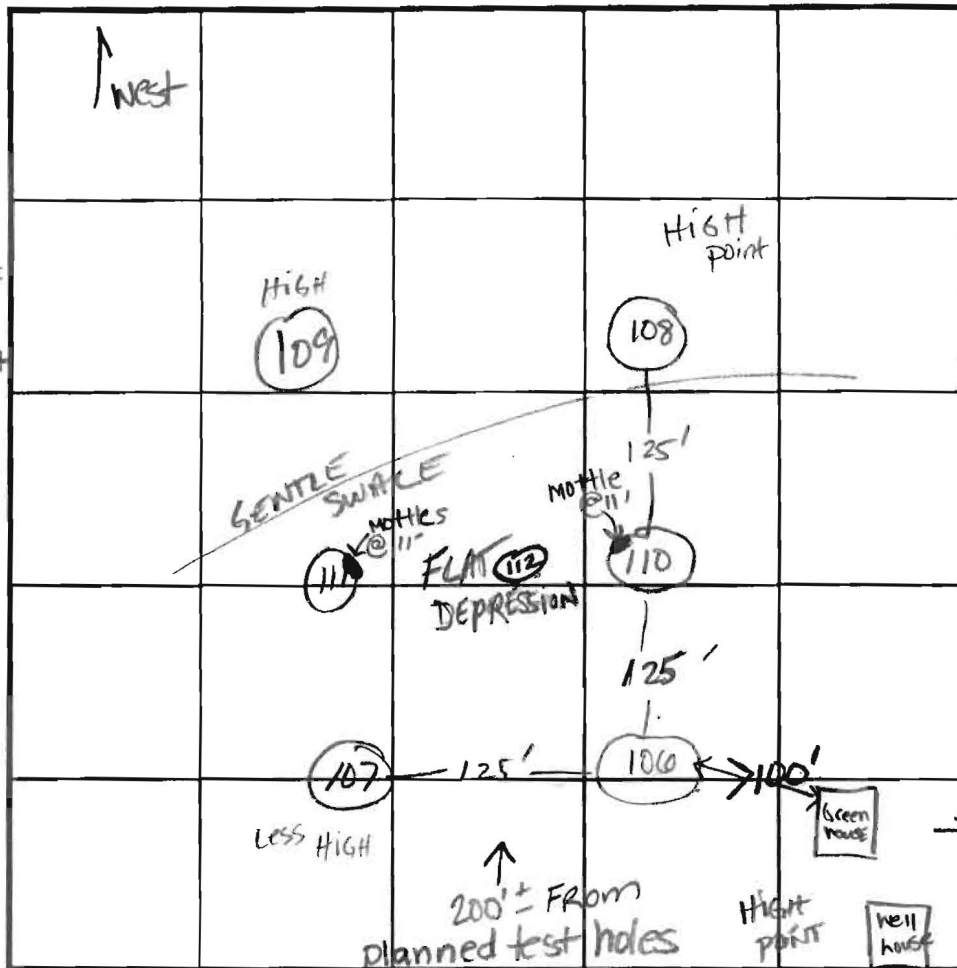
13'  
Bottom

(106) (107)

4 1/2"  
org brn  
scllm  
granular  
CLAY SKINS

tan  
dk. y brn  
fine +  
md-grained  
Sand

14'  
Bottom



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0' (110) (111)  
Strong brn  
hvy lim-  
CLLm

4 1/2"  
to  
5'  
lt brn  
tan  
beige  
Sand  
11' - pocket  
of mottles  
SEE diagram  
14' Bottom

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
2-6-03	112	Mottles @ 4'		water seeping @	14 1/2		(F)
	108	3 1/2' - slow 4' 10" S	11:06:13	11:11:00	11:11:00	11:18:00	7 min OK
	106	4 1/2' S	10:11:04	10:16:00	10:16:00	10:27:00	11 OK
	107	Visual	SEE	SOIL	PROFILE		OK
	110	4' 10" S	10:52	11:26	TOO SLOW		(F)
	(111)	Will go at 5 1/2'					(F)
	(111)	SEE Soil Profile					(F)

REMARKS Field-locate holes Trace rock IN ALL HOLES

TYPE OF SOIL Mottles greyish blue + strong org brn

TESTED BY KC with Mn nodules

ALSO PRESENT Tim F. + Chuck Z.

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

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ FT/BEDROOM \_\_\_\_\_



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# THIS IS NOT A PERMIT

518516

COUNTY #

SOIL PROFILE

(114)

Brn  
Densely  
packed  
Silm

2 1/2'  
3'

brn  
lt. brn  
med. grain  
SAND

No Rx



Bottom

14 1/2'

(115)

Strong brn  
tightly  
packed  
silm

4 1/2'

y.  
tan  
brn  
sand  
med  
grained  
sand

mottles  
begin  
coarse  
y. tan

12'

Bottom

14'

(113)

strong  
brn  
silm

5'

DK brn  
tan  
brn  
fine  
sand

Bottom

14'

SOIL PROFILE

(116)

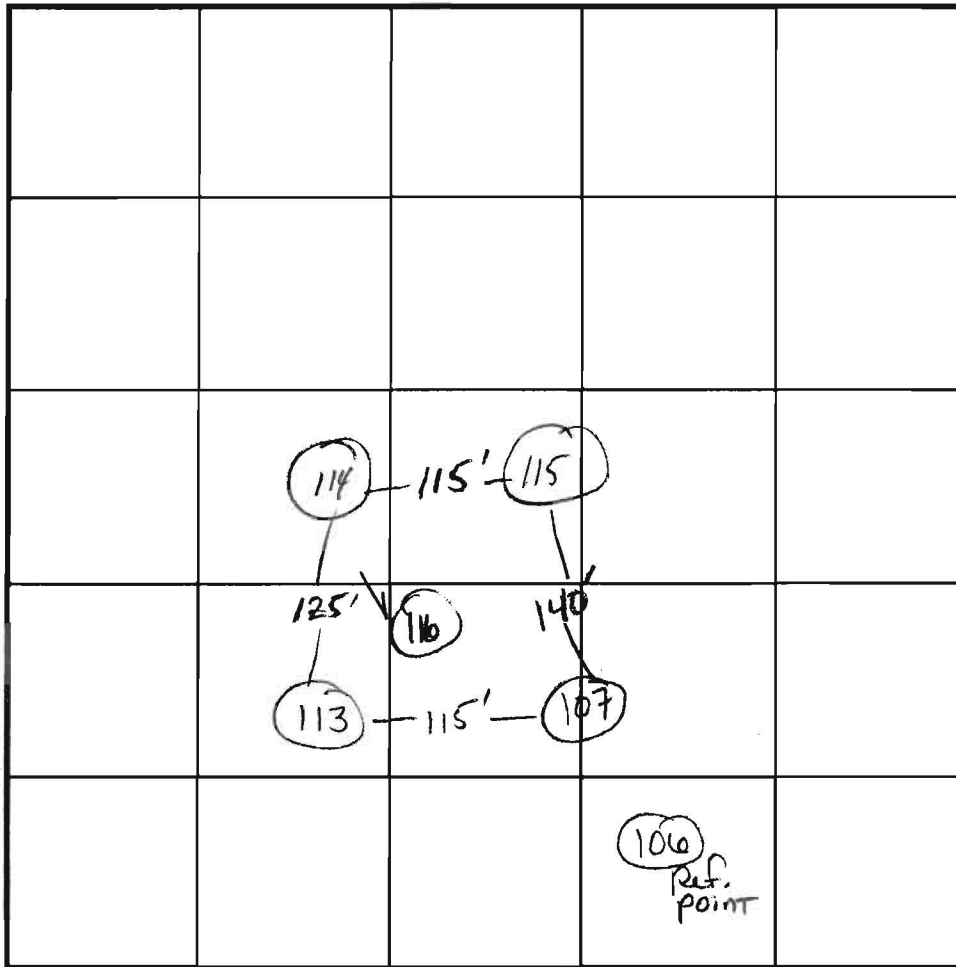
Strong brn  
hvy Lm-  
CLM

2 1/2'  
3'

brn  
lt brn  
tan  
SAND

13 1/2'

Bottom



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
2-6-03	(114)	3 1/2'S	12:00	12:12	12:12	12:40	~28 OK
	(116)	Visual	SEE Soil Profile				OK
	(113)	4'S - sand 5'S - OK				EST	25 min
	(115)	3 1/2'S	12:25	TOO SLOW			
		5'4"	12:35	12:38	12:38	12:43	7 min

REMARKS y = yellow

TYPE OF SOIL

TESTED BY Kacie

ALSO PRESENT Tim F & Chuck Z

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

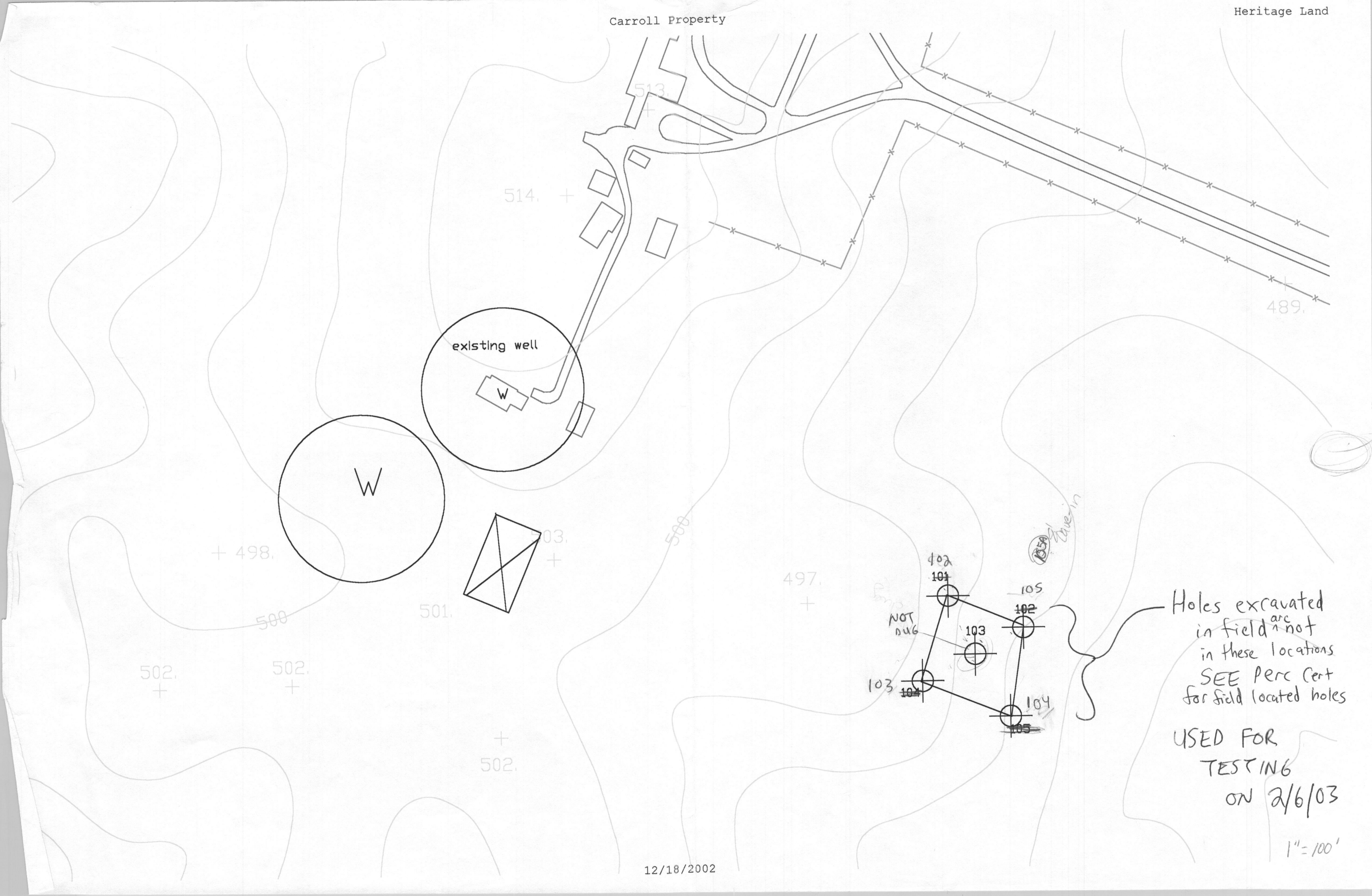
TRENCH WIDTH

INLET DEPTH 3 1/2

MAXIMUM BOTTOM DEPTH 5 1/2

SQ. FT/BEDROOM 200 sq ft

= 100' per bdrn



existing well

W

W

03.

101

102

103

103

104

104

105

NOT DUG

Holes excavated in field are not in these locations SEE Perc Cert for field located holes

USED FOR TESTING ON 2/6/03

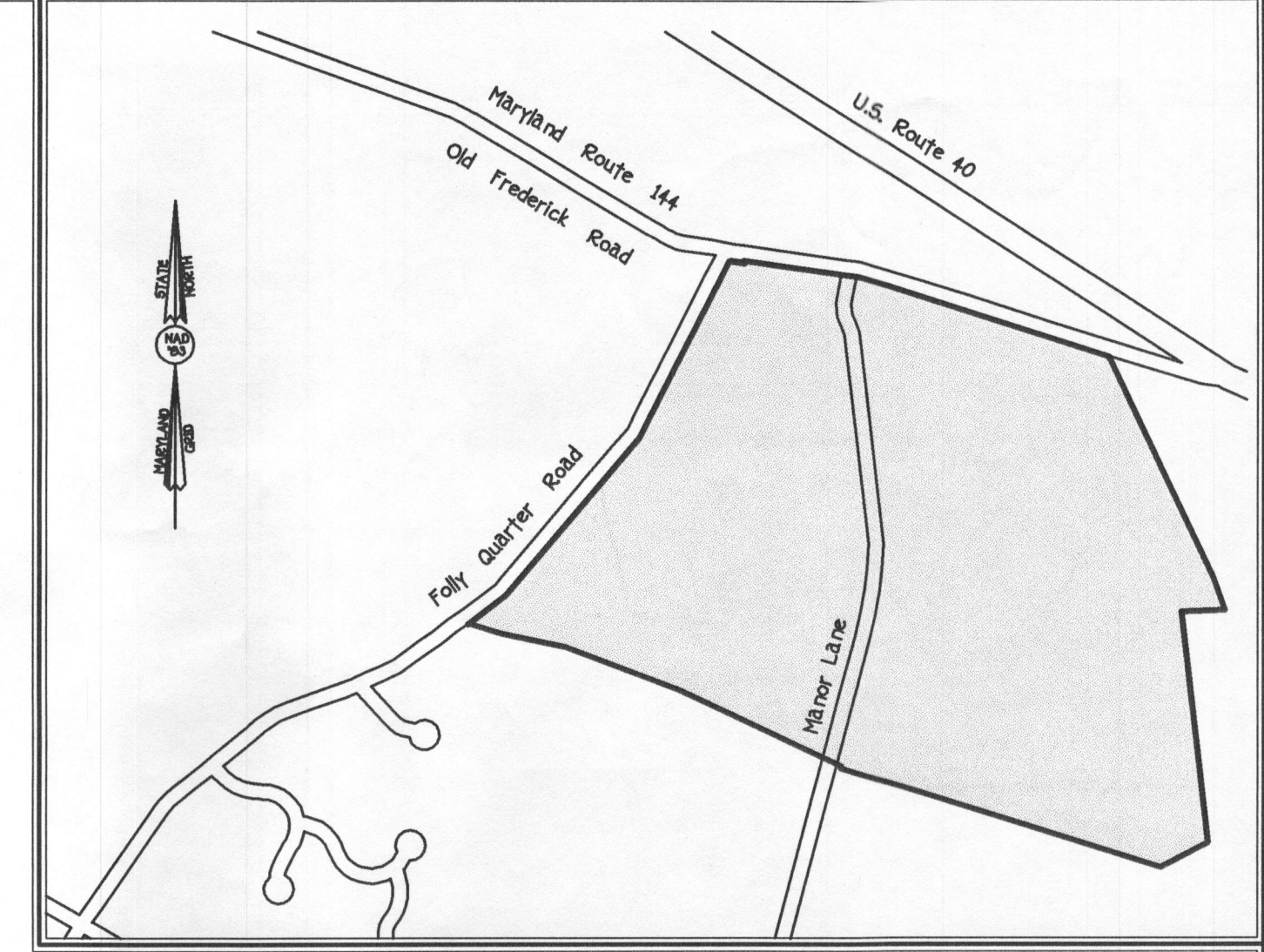
1" = 100'

**LEGEND**

- EXISTING 2' CONTOURS
- EXISTING 25' 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



N 508,000  
E 1340,000  
Metric



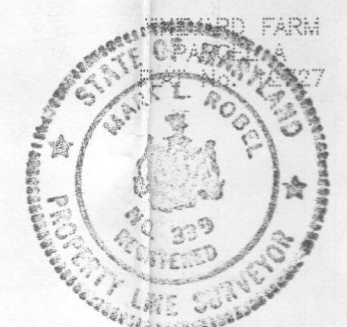
**VICINITY MAP**  
SCALE: 1" = 1200'

**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF A MINIMUM 0.010,000 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. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
3. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
4. TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
5. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF 7' FIELD SURVEY AT THIS TIME.
6. THE SEWERAGE EASEMENTS SHOWN CAN NOT BE ADJUSTED WITHOUT ADDITIONAL PERCOLATION TESTS AND SITE EVALUATION.



**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.  
*Mark L. Robel* 4/03/03  
Signature of Professional Land Surveyor Date  
Mark L. Robel, Property Line Surveyor No. 339



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.  
*Debra Bennett MUP* 4-4-03  
COUNTY HEALTH OFFICER DATE

**SOILS LEGEND**

SOIL	NAME	CLASS
ChA	Chester silt loam, 0 to 3 percent slopes	D
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B

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

**PERC CERTIFICATION PLAN  
CARROLL PROPERTY**

TAX MAP #23 PART OF PARCEL: 71  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=400' DATE: MARCH 11, 2003  
(REVISED) DATE: APRIL 3, 2003  
SHEET 1 OF 2

*Signed Perc Cert.*

**LEGEND**

- EXISTING 5' CONTOURS
- EXISTING 25' CONTOURS
- EXISTING TREE LINE
- GLB2 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



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**SOILS LEGEND**

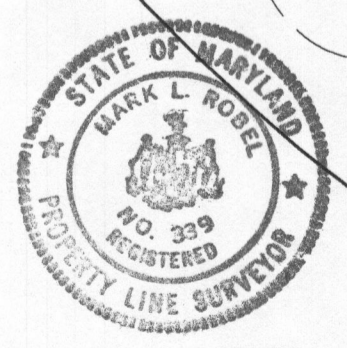
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*Mark L. Robel*      4/03/03  
 Signature of Professional Land Surveyor      Date  
 Mark L. Robel, Property Line Surveyor No. 339



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 HOWARD COUNTY HEALTH DEPARTMENT.

*Denny Barnett*      4-4-03  
 COUNTY HEALTH OFFICER      KN      DATE

**PERC CERTIFICATION PLAN  
 CARROLL PROPERTY**

TAX MAP #23      PART OF PARCEL: 71  
 SECOND ELECTION DISTRICT      HOWARD COUNTY, MARYLAND  
 SCALE: 1"=100'      DATE: MARCH 11, 2003  
 (REVISED) DATE: APRIL 3, 2003

C:\SDS\PERC\01681842\Carroll\1842 Carroll Property Sheet 2.dwg 4/2/2003 9:34:39 AM