

APPLICATION

PERCOLATION TESTING

A 515951

P _____

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

DISTRICT _____

DATE 7/20/2001

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 Jeffrey Shumaker

ADDRESS 854 Route 97, Cooksville, MD 21723 PHONE _____

AGENT OR PROSPECTIVE BUYER Heritage Land Development

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

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. 2

ROAD AND DESCRIPTION _____

854 Route 97

TAX MAP NO. 8 PARCEL # 237

SIZE OF LOT 3+ Acres TYPE OF BLDG. SFD
(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' (6)
 1' Topsoil
 Rd brn
 org brn
 CL Lm
 Rock Frag
 3-5%

5 1/2' 6
 Tan
 beige
 brn
 Si Lm
 25-35%
 Rock Frag

12' 4" Refusal
 (10)

1' Topsoil
 org brn
 lt brn
 Si Lm
 10-15%
 Rock Frag

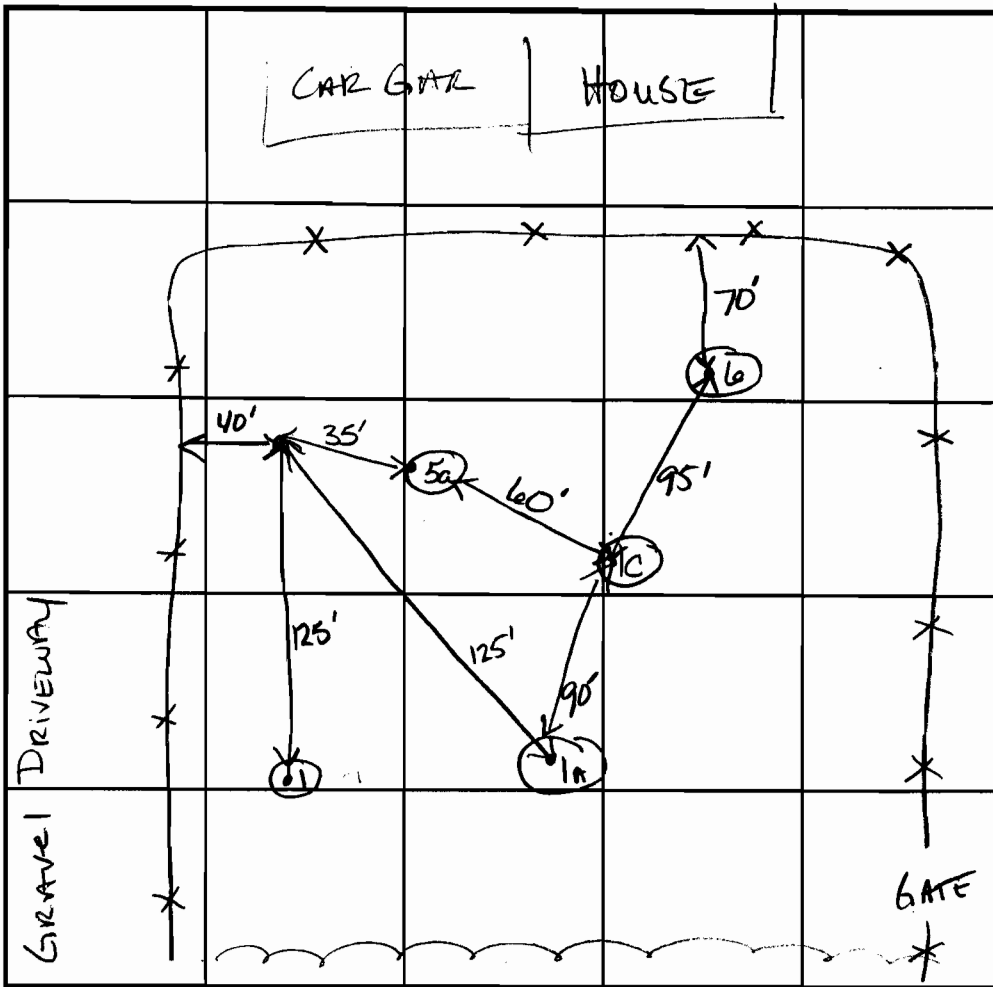
5 1/2' 6
 org brn
 lt brn
 Si Lm
 25-35%
 Rock Frag

10' 9" Refusal
 (5a)

0' 1' Topsoil
 lt brn
 brn
 tan
 Si Lm

5' rd brn
 org brn
 tan
 Si Lm
 15-20%
 Rock
 Spherulite

12' Refusal



SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

RT 97

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|--------|----------|---------------------|--------------------|--------------------|--------------------|--------------------|------------|
| | | | START | STOP | START | STOP | |
| 8-6-01 | 6 | 2' 4" S 12' 4" D | 1:45 | 1:52 | 1:52 | 2:14 | 20 min ok |
| | 10 | 3' S 10' 9" D | 1:51 ⁰⁰ | 1:52 ⁰⁰ | 1:52 ⁰⁰ | 1:53 ⁰⁰ | 1 min FAIL |
| | 5a | 3' 3" S 12' D | 2:05 | 2:07 | 2:07 | 2:08 | 1 min ok |
| | | | 2:09 | 2:10 | 2:10 | 2:11 | 1 min ok |
| | 5 | 6.0' ± D Refusal | | (70% R @ 2' ±) | | | → FAIL |
| | 1 | 6.0' ± D Refusal | | (70% R @ 2' ±) | | | → FAIL |
| | 1A | 6.0' ± D Refusal | | (70% R @ 2' ±) | | | → FAIL |
| | 1B | 6.0' ± D Refusal | | (70% R @ 2' ±) | | | → FAIL |

REMARKS

TYPE OF SOIL

TESTED BY

Goedeking, K

ALSO PRESENT

T. Feaga

TRENCH DESIGN DATA: AVG. PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM

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AGENT OR PROSPECTIVE BUYER Heritage Land Development

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PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. 2

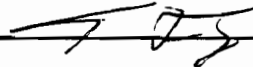
ROAD AND DESCRIPTION _____

854 Route 97

TAX MAP NO. 8 PARCEL # 237

SIZE OF LOT 3+ Acres TYPE OF BLDG. SFD
(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

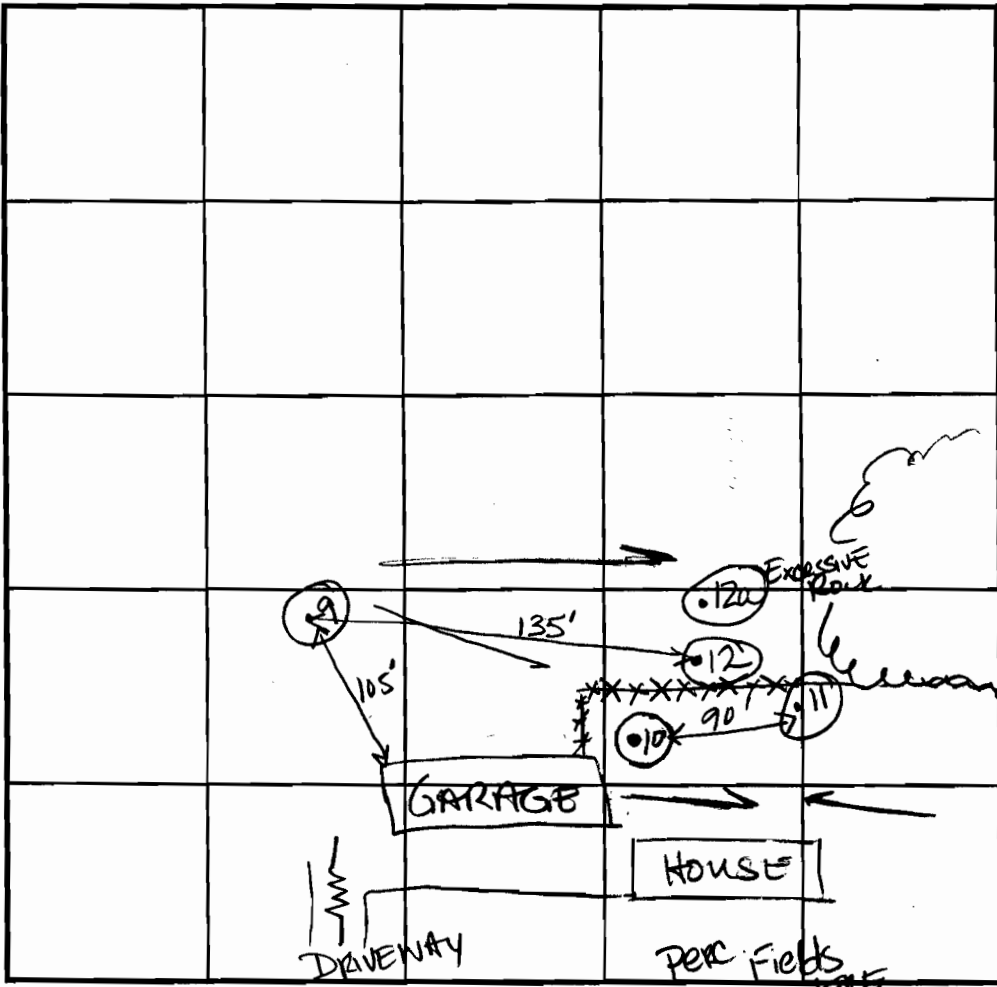
0' (9)
 1' Topsoil
 Rd brn
 Si CL Lm
 2' org brn
 beige
 tan
 Si Lm
 10-15%
 Rock Frag
 10' Bottom

0' (10)
 1' Topsoil
 Rd brn
 CL Lm
 4' H brn
 tan
 yellowish
 brn
 Si Lm
 10-20%
 Rock
 frag
 13 1/2' Bottom

0' (11)
 1' Topsoil
 tan
 org brn
 H brn
 Si Lm
 5-10% Rock
 3 1/2' tan
 org brn
 beige
 Si Lm
 8 1/2" Schist
 11 1/2" Refusal

SOIL PROFILE

0' (12)
 1' Topsoil
 5-10%
 Rock Frag
 rd brn
 H brn
 tan
 beige
 Si Lm
 Bottom 10' 7"



| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|--------|----------|---------------------|--------------------|------------------------|--------------------|--------------------|-----------|
| | | | START | STOP | START | STOP | |
| 8-6-01 | 9 | 3' S / 10' D | 2:31 | 2:32 | 2:32 | 2:33 | 1 min |
| | | | 2:35 ³⁰ | 2:37 | 2:37 | 2:38 ²⁰ | 1 1/2 min |
| | 10 | 4' S / 6' S | 2:44 ³⁰ | less than 1" in 30 min | | | |
| | | | 3:02 ³⁰ | 3:10 | 3:10 | 3:29 | 19 min |
| | 12 | 3 1/2' S / 10' 7" D | 2:49 ⁰⁵ | 2:50 ⁰⁰ | 2:50 ⁰⁰ | 2:51 ³⁰ | 1 1/2 min |
| | 11 | 3' S / 11 1/2" D | 3:41 ⁵⁰ | 3:50 | 3:50 | 3:59 | 9 min |
| | 12a | 5' - 7' D | Refusal | | | | FAIL |

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

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ROAD AND DESCRIPTION _____

854 Route 97

TAX MAP NO. 8 PARCEL # 237

SIZE OF LOT 3+ Acres TYPE OF BLDG. SFD

(SINGLE FAMILY DWELLING OR COMMERCIAL)

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

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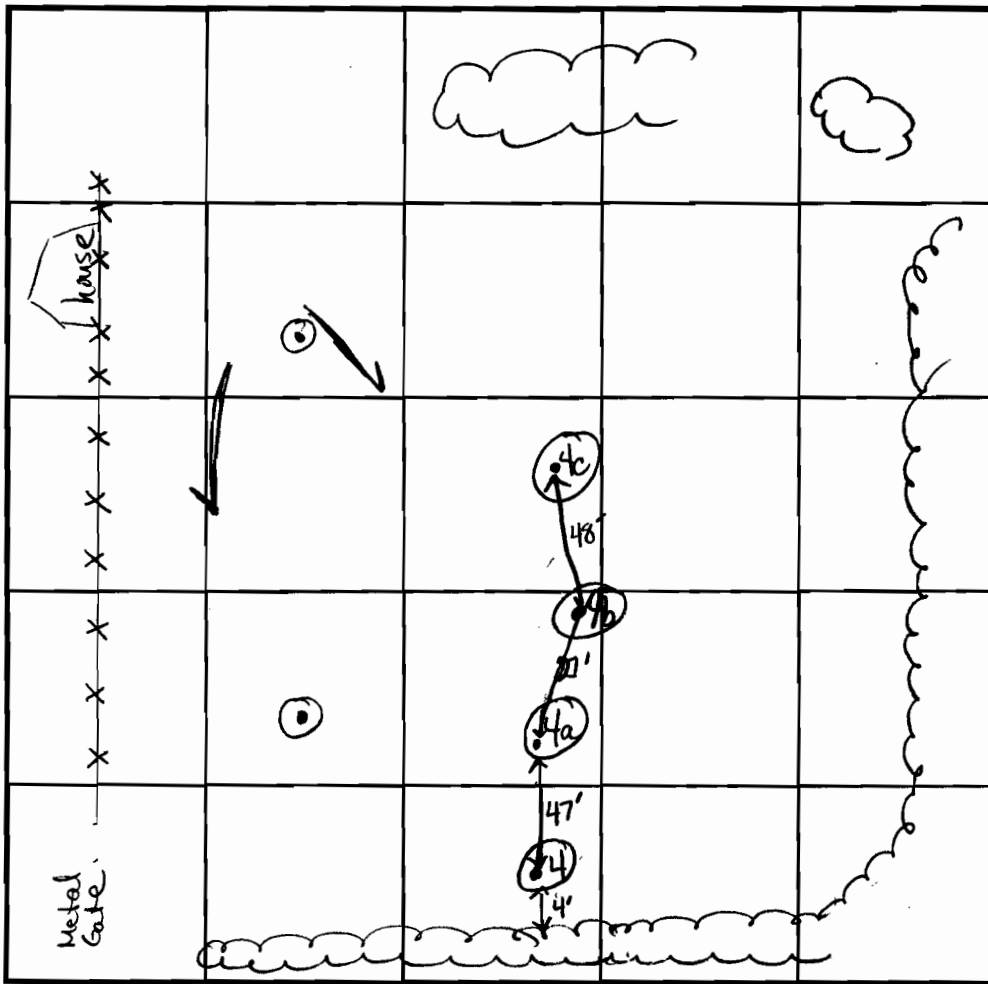
COUNTY #

SOIL PROFILE

0' (4)
 1' Topsoil
 org brn
 CL Lm
 25-35%
 rock
 frag
 2' tan
 brn
 4'
 1t brn
 Si Lm
 5'6" 50-60%
 Rock
 frag
 7'9" Refusal
 (4a)

1' Topsoil
 1t brn
 beige
 tan
 Si Lm
 org
 brn
 CL
 Lm
 4 1/2'
 beige
 tan
 Si Lm
 25-35%
 Rock
 frag
 7'7" Refusal
 (4b)

1' Topsoil
 tan
 1t brn
 Si CL Lm
 Rock
 frag
 ≥ 70%
 7'4" Refusal



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

ROUTE 97

SOIL PROFILE

0' (4c)
 1' Topsoil
 org brn
 1t brn
 Si Lm
 5-10%
 Rock
 frag
 7'
 15-25%
 Rock
 frag
 Sph
 erulite
 tan
 brn
 Si Lm
 12'4"

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|--------|----------|-------------------|---------------------|---------------------|---------------------|---------------------|-----------|
| | | | START | STOP | START | STOP | |
| 8-6-01 | 4 | 7'9" Refusal | - see profile | | → | | Fail |
| | 4a | 7'7" Refusal | - see profile | | → | | Fail |
| | 4b | 7'4" Refusal | - see profile | | → | | Fail |
| | 4c | 3'5" S 12'4" D | 11:11 ⁰⁰ | 11:11 ²⁰ | 11:11 ²⁰ | 11:12 ⁰⁵ | > 1min |
| | | | 11:14 | 11:15 ⁴⁵ | 11:15 ⁴⁵ | 11:16 ⁴⁵ | 1min PASS |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

REMARKS

TYPE OF SOIL Mostly Si Lm, some pockets of clay areas of excessive rock

TESTED BY Goedeking, Kacie

ALSO PRESENT Tim Feaga

TRENCH DESIGN DATA: AVG. PERCOLATION TIME 1min

TRENCH WIDTH

INLET DEPTH 18"

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM

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854 Route 97

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

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

7a

0' Topsoil
 1' org brn
 H brn
 Si lm
 5' >50%
 Rock frg
 org brn
 tan
 H brn
 beige
 Si lm
 11" Refusal

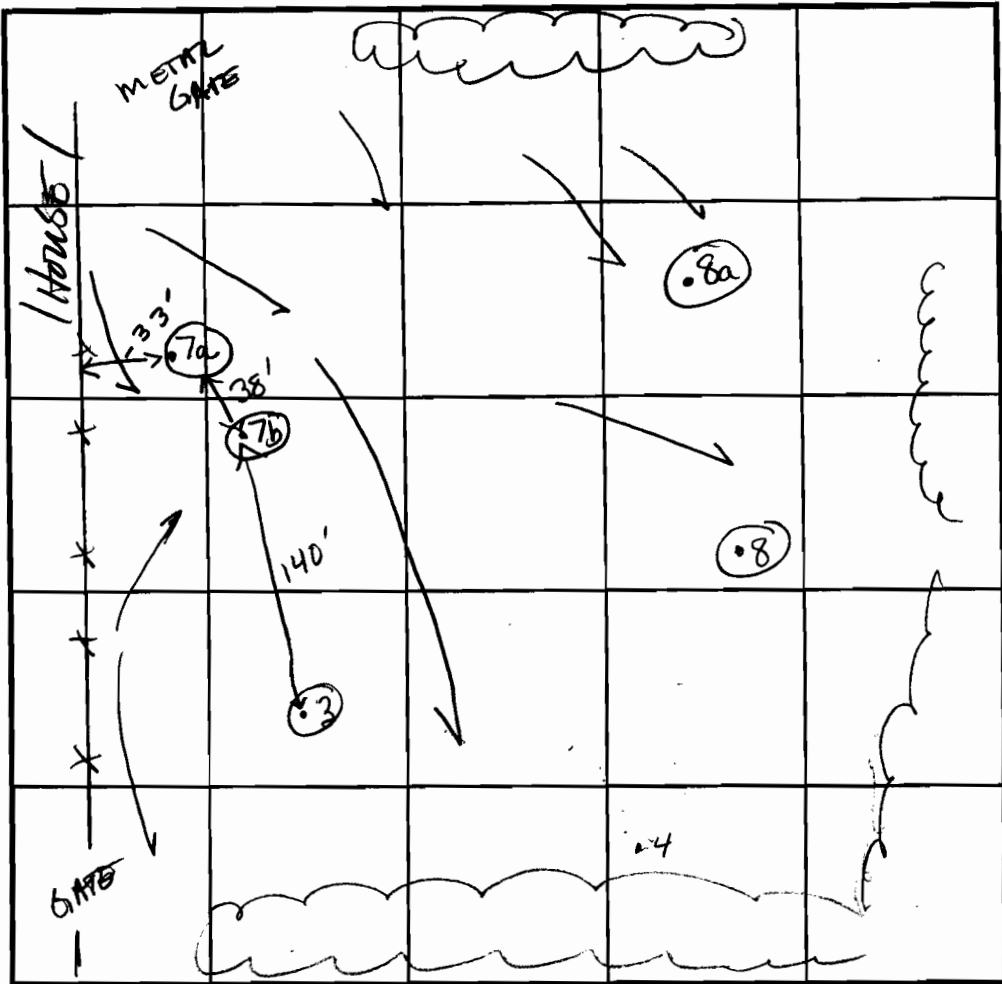
8a

0' Topsoil
 1' org brn
 tan
 Si CLM
 5-10%
 Rock
 FRg
 6' 45-55%
 Rock
 Si LM
 9'3" Refusal

8

0' Topsoil
 1' org brn
 beige
 Si LM

6' H brn
 beige
 brn
 Si lm
 15-25%
 Rock Frg
 12'10" Bottom



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

ROUTE 97

SOIL PROFILE

7b

0' Topsoil
 1' rd brn
 org brn
 beige
 Si CLM
 Rock Frg
 5-10%
 Rock
 6 1/2' More beige
 org brn
 Si lm
 25-35%
 Rock
 Frg
 Refusal 12'3"

3

0' Topsoil
 1' rd brn org
 Si CLM
 Rock Frg
 6' 75%
 Rock
 Frg
 org brn
 tan
 beige
 Si LM
 11'6" Refusal

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|--------|----------|---------------|---------------------|---------------------|---------------------|---------------------|------------|
| | | | START | STOP | START | STOP | |
| 8-6-01 | 7a | 3' S | 11:31 ⁴⁵ | 11:33 ⁰ | 11:33 ⁰ | 11:35 | 2 min ok |
| | 8a | 2 1/2' S | 11:45 ¹⁰ | 11:51 ⁴⁰ | 11:51 ⁴⁰ | 12:09 ³⁰ | ~19 min ok |
| | | 6' M | 11:53 | 11:57 | 11:57 | 12:02 ⁴⁰ | ~6 min ok |
| | | 9'3" D | Refusal | - see profile | | | 70K |
| | 8 | 3' S | 12:51 | 12:57 | 12:57 | 1:08 | 11 min ok |
| | | 12'10" Bottom | - see profile | | | | OK |
| | 7b | 5' S | 1:05 | 1:19 | 1:19 | 1:45 | 26 min ok |
| | | 12'3" Refusal | - see profile | | | | OK |
| | 3 | 3'10" S | 1:19 | 1:20 | 1:20 | 1:24 | 4 min ok |
| | | 11'6" Refusal | - see profile | | | | OK |

REMARKS

TYPE OF SOIL

TESTED BY Goedeking

ALSO PRESENT Tim Feaga

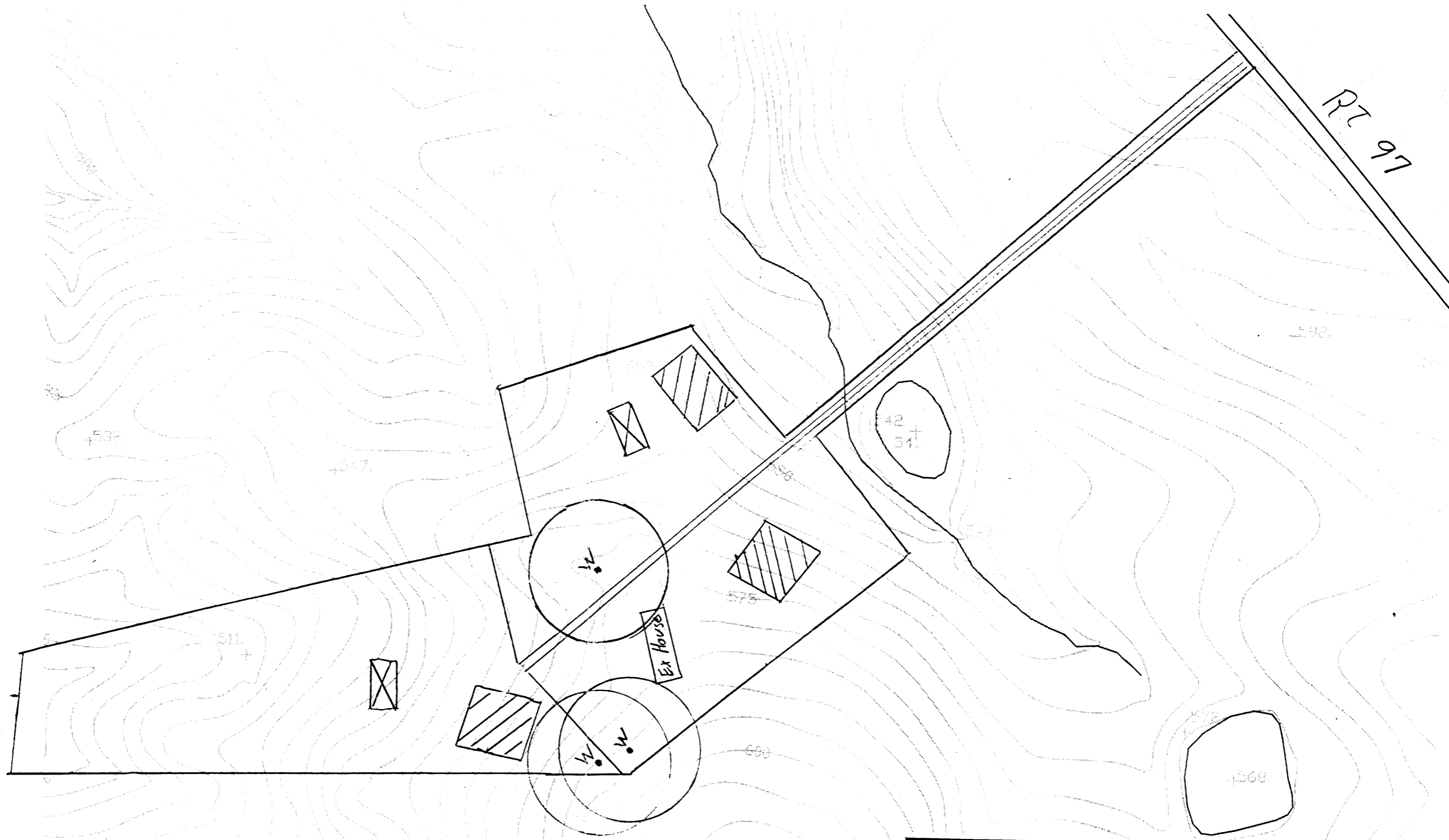
TRENCH DESIGN DATA: AVG. PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM



| | | |
|--------------------------|--------------------------------------|--------------------|
| PERK APPLICATION | | |
| SHUMAKER PROPERTY | | |
| 854 ROUTE 97 | | |
| DATE: 7/18/2001 | SCALE: 1" = 200' <i>150' App.</i> | DRAWN BY: HERITAGE |

PERK APPLICATION

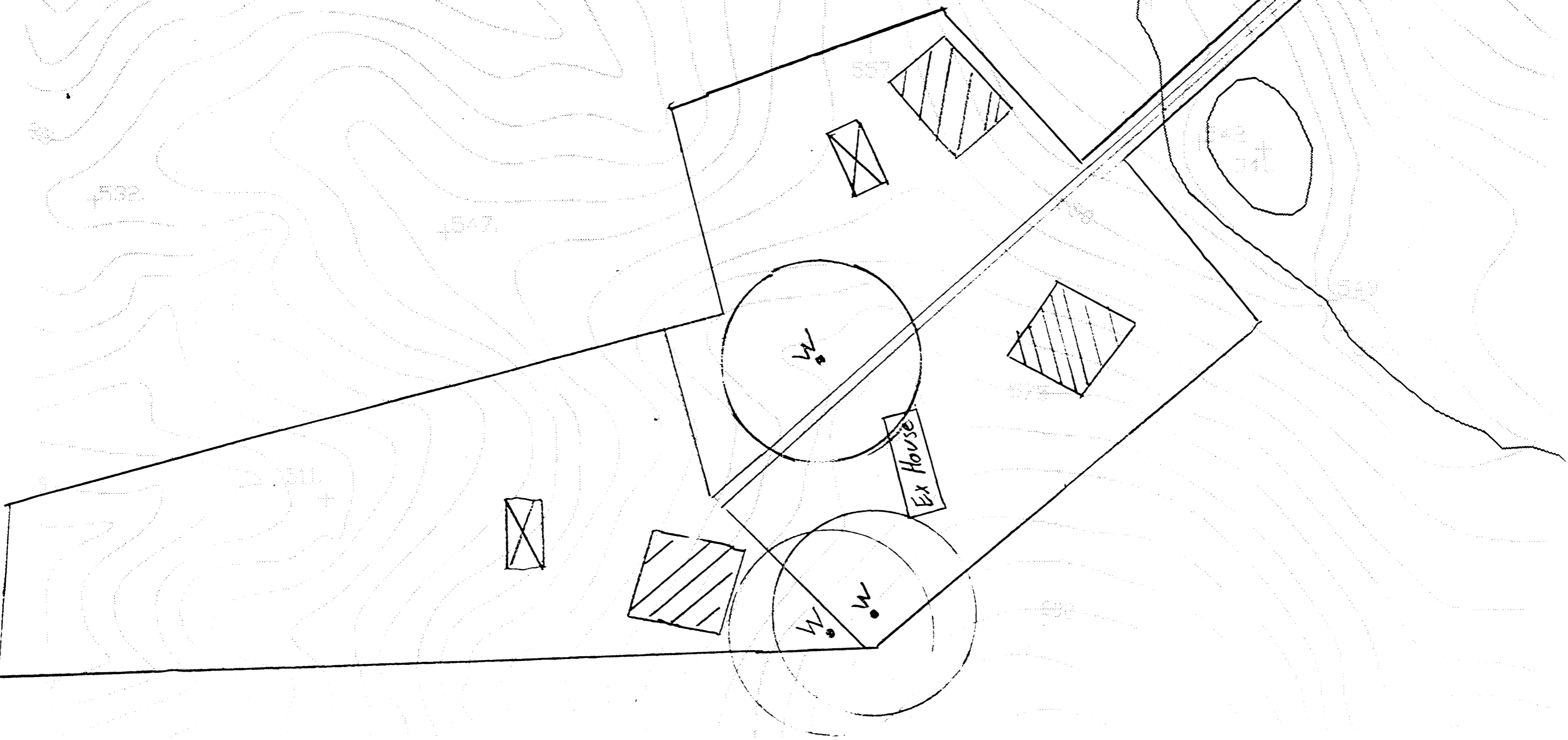
SHUMAKER PROPERTY

854 ROUTE 97

DATE: 7/18/2001

SCALE: 1" = ^{100'}200'

DRAWN BY: HERITAGE





HOWARD COUNTY HEALTH DEPARTMENT

Diane L. Matuszak, M.D., M.P.H., County Health Officer

July 30, 2001

Mr. Jeffrey Shumaker
C/o Heritage Land Development
3060 Washington Road, Suite 220
Glenwood, Maryland 21738

RE: **Percolation Test Date**
Application: A515951
Proposal: Subdivision
Property ID: Shumaker Property
Route 97
Tax Map: 8 Parcel #237

Dear Mr. Shumaker:

Percolation testing has been tentatively scheduled for the above referenced property for **Monday, August 6, 2001 at 10:00 a.m.** Please call this office at (410) 313-2640 to confirm your acceptance of these percolation test dates.

You shall be responsible for having a contractor on site to excavate the percolation test holes to a minimum depth of 14 feet. It is expected that all proposed percolation test holes shall be staked and excavated as approved on the recently submitted percolation test plan. Additional test holes may only be performed upon permission of the Health Department representative at the time of testing.

In the event of uncertain weather (i.e., precipitation or extremes of temperature), please contact this office prior to 9:00 a.m. on the test date to determine whether or not percolation testing can be performed on that date. If it is not feasible to perform the test, a new test date shall be assigned.

Percolation test results may be expected by mail two weeks after the completion of the percolation testing.

Thank you in advance for your cooperation in this matter.

Sincerely,

Donna K. Clark, R.S.
Water and Sewerage Program
DKC
cc: file



HOWARD COUNTY HEALTH DEPARTMENT

Diane L. Matuszak, M.D., M.P.H., County Health Officer

August 20, 2001

Mr. Jeffrey Shumaker
C/o Heritage Land Development
3060 Washington Road, Suite 220
Glenwood, Maryland 21738

RE: **Percolation Test Results**
Application: A515951
Proposal: Subdivision
Property ID: Shumaker Property
Route 97
Tax Map: 8 Parcel #237

Dear Mr. Shumaker:

Percolation testing was conducted Monday, August 6, 2001, on the above referenced property. Copies of the percolation test results are enclosed.

A **licensed surveyor** should submit a Percolation Certification Plan showing the following information to this office at this time:

- actual locations of all excavated test holes and proposed septic reserve areas
- proposed well sites for (each) lot, including two replacement well sites for each lot (or an area of approximately 1000 to 1500 square feet of approvable well area per lot)
- a suitable house site for (each) lot (with footprint approximately 55 feet by 70 feet)
- locations of all existing wells and septic systems on the property
- locations and intent of all existing structures on the property
- locations of streams/swales/springs and any other features on the property
- field matched contour lines at 2-foot intervals
- location of all existing wells and septic systems within 100 feet of all property boundaries
- source of topography with areas of excessive slope clearly indicated

This plan should be submitted within sixty (60) days to allow field verification if necessary.

If you have any questions regarding this matter, please contact me at the address below or by calling (410) 313-2640. Thank you in advance for your time and cooperation.

Sincerely,

Kacie Goedeking
Water and Sewerage Program
DKC
Enclosures
Cc: file

Stiff & Peg
Tape

measure

down hill

is 10ft

down hill stiff tape

$\frac{1}{6}$ into 30

More than 7' into

$30 = 24 \frac{6}{10}$

pg 82