

APPLICATION

PERCOLATION TESTING

A 50809

P _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

DISTRICT _____

DATE 8/2/95

PROPOSAL IS FOR A
SINGLE LOT.
OK TO EXAMINE
A "FEW" REPRESENTATIVE
TEST HOLES ELSEWHERE
FOR FUTURE PROSPECTS

EXISTING HOUSE ELSEWHERE
ON PROPERTY HAS ESTABLISHED
SEPTIC AREA (CW)

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER FRED T. LEWIS DVM & MARY AGNES LEWIS

ADDRESS 6005 Ten Oaks Rd, Clarksville PHONE 410-531-3813

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION _____

TAX MAP 34 PARCEL # P/O 160

SIZE OF LOT one acre TYPE BLDG. single family
(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 ALL HOLES IN THIS VICINITY FAIL FOR CLAY, H₂O, MOTTLES

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE MR 8/15/95

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

THIS IS NOT A PERMIT

SOIL PROFILE

0

tan brn
org
cl loam
and
clay

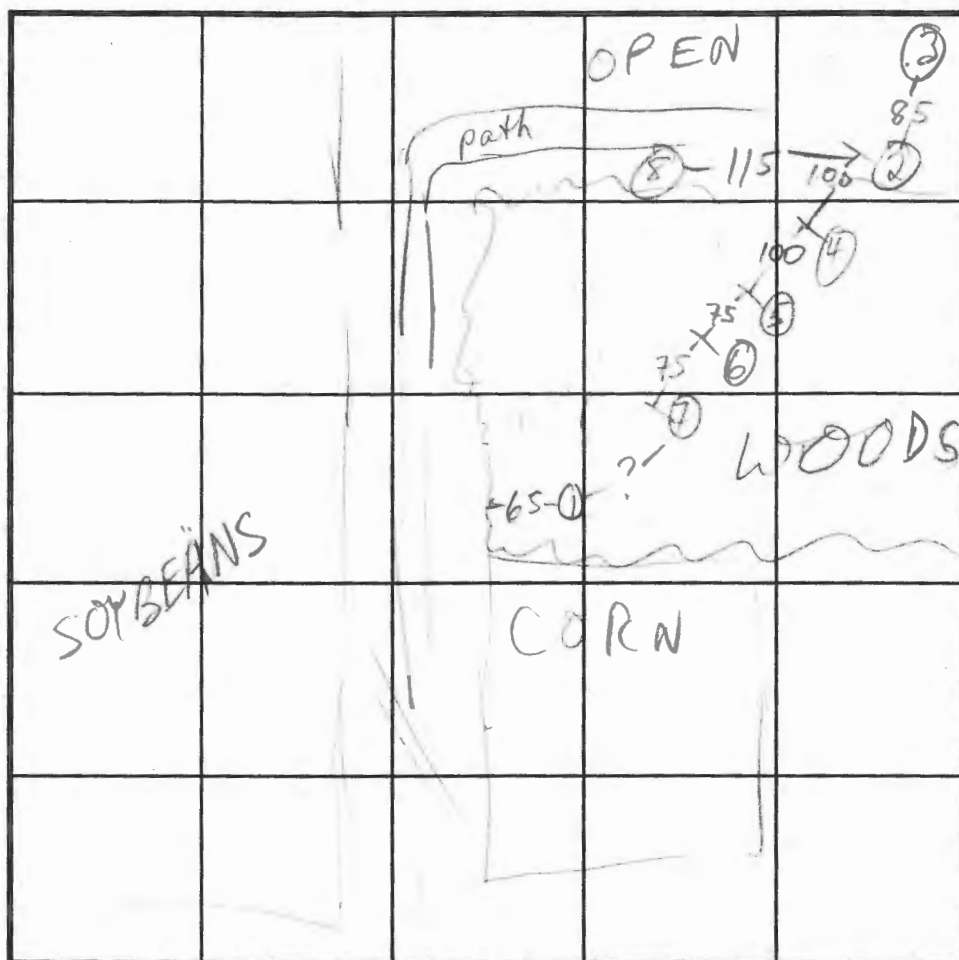
HEAVY
GRAY
BOTTLES

yellow
cl / m
or
sac / m
15-20%
frag in
pockets

red'si
cl / m
MOTTLES
WATER

orge
red
c / d
c / m

damp
gel silty c
WATER



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

TEN OAKS RD

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/15/95	1 V	8 1/2	FAIL	CLAY TO		BOT	
	2 V	11' 9"	H ₂ O @	10' 9"		FAIL	
	3 V	9' 9"	H ₂ O @	9' 3"		FAIL	
	4 V	10	clay	@ BOT		FAIL	
	5 V	10	clay	@ BOT		FAIL	
	6 V	10' 9"	wet	From 8 1/2'		FAIL	
	7 V	9 1/2	wet sim mica below	8' + 5'		clay, 3' orge	
	8 V	11 1/2	H ₂ O @	10' 3"		sacl/m	
			clay varies	from	4-7'	no/sa l/m mix	
			below 7' black	material	to	H ₂ O or deeper	

REMARKS ALL HOLES FAIL: DEEP CLAY, H₂O, MOTTLES

TYPE OF SOIL

TESTED BY M. RIFKIN

ALSO PRESENT Ricky, owners

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM

SOIL PROFILE

C

tan brn yel
el / m
red
tan
silty
loam
20%
frags

tan red
orange
clay

orange	clay	$5\frac{1}{2}$
tan	si loam	$8\frac{1}{2}$
dark brn	damp si	$10\frac{1}{4}$
mica		

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BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

DISTRICT noted 3/5/98

DATE 8/2/95

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OK TO EXAMINE
A "FAN" REPRESENTATIVE
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FOR FUTURE PROSPECTS

EXISTING HOUSE BASEWHERE
ON PROPERTY HAS ESTABLISHED
SEPTIC AREA (CW)

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PROPERTY OWNER Joan Lewis Kennedy
FRED T. LEWIS DVM & MARY AGNES LEWIS

ADDRESS 6005 Ten Oaks Rd, Clarksville PHONE 410-531-3813

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION (6005 Ten Oaks Road)

TAX MAP 34 PARCEL # P/O 160

SIZE OF LOT one acre TYPE BLDG. single family - 4Bm
(SINGLE FAMILY DWELLING OR COMMERCIAL)

REG. PERMIT SIGNATURE

AND RETURNED 8-17-95
Serial # B-0119249

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COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. [Signature]
(SIGNATURE OF APPLICANT)

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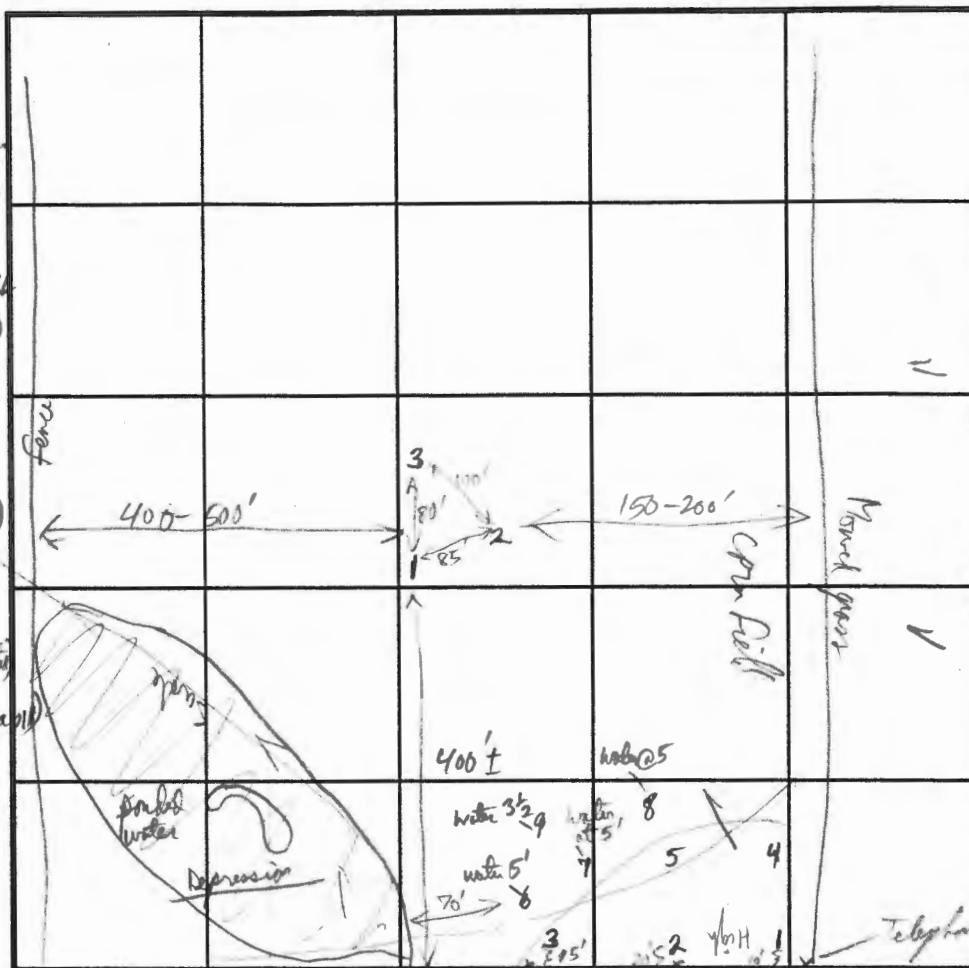
COUNTY #

SOIL PROFILE

0'	dark gray Brn (10YR 5/2) S-L	2 cgrn -Fbk
0-12'	Yel Brn (10YR 5/4) S-L - S-CL	2 Fbk
2 1/2'	Red (2.5YR 5/6-5/8)	2 cgrn - Sbk
4'	co CL - SCL	
4 1/2'	Orange - fbk 5-7.5 YR 5/6-6/8	2 Fbk cgrn
6'	CL - SCL	1 c-f Sbk
8-9 1/2'	Very Mixed Pale orange cream, Tan wit, dk med Brn Mottled dense c 2 Fbk m m m c h L - S-CL (m m c) Massive - Sbk V Moist - wet m m c	(wet)
10'	V. mica L-SL Loose, massive	(natural)

(Test Holes 12, 13 same profile, a bit)

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

intersection τ Brigfon Dam Rd

Telephone pole at Road cut
(16' From Road edge)
Ten Oaks Rd 20' or less from CL
of Road

[illegible]

REMARKS _____

TYPE OF SOIL clay

TESTED BY R. H. H. H. ALSO PRESENT

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH	MAXIMUM BOTTOM DEPTH	SQ. FT./BEDROOM
1.0	1.0	1.0
1.5	1.5	1.5
2.0	2.0	2.0
2.5	2.5	2.5
3.0	3.0	3.0
3.5	3.5	3.5
4.0	4.0	4.0
4.5	4.5	4.5
5.0	5.0	5.0
5.5	5.5	5.5
6.0	6.0	6.0
6.5	6.5	6.5
7.0	7.0	7.0
7.5	7.5	7.5
8.0	8.0	8.0
8.5	8.5	8.5
9.0	9.0	9.0
9.5	9.5	9.5
10.0	10.0	10.0
10.5	10.5	10.5
11.0	11.0	11.0
11.5	11.5	11.5
12.0	12.0	12.0
12.5	12.5	12.5
13.0	13.0	13.0
13.5	13.5	13.5
14.0	14.0	14.0
14.5	14.5	14.5
15.0	15.0	15.0
15.5	15.5	15.5
16.0	16.0	16.0
16.5	16.5	16.5
17.0	17.0	17.0
17.5	17.5	17.5
18.0	18.0	18.0
18.5	18.5	18.5
19.0	19.0	19.0
19.5	19.5	19.5
20.0	20.0	20.0
20.5	20.5	20.5
21.0	21.0	21.0
21.5	21.5	21.5
22.0	22.0	22.0
22.5	22.5	22.5
23.0	23.0	23.0
23.5	23.5	23.5
24.0	24.0	24.0
24.5	24.5	24.5
25.0	25.0	25.0
25.5	25.5	25.5
26.0	26.0	26.0
26.5	26.5	26.5
27.0	27.0	27.0
27.5	27.5	27.5
28.0	28.0	28.0
28.5	28.5	28.5
29.0	29.0	29.0
29.5	29.5	29.5
30.0	30.0	30.0
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32.0	32.0	32.0
32.5	32.5	32.5
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34.0	34.0	34.0
34.5	34.5	34.5
35.0	35.0	35.0
35.5	35.5	35.5
36.0	36.0	36.0
36.5	36.5	36.5
37.0	37.0	37.0
37.5	37.5	37.5
38.0	38.0	38.0
38.5	38.5	38.5
39.0	39.0	39.0
39.5	39.5	39.5
40.0	40.0	40.0
40.5	40.5	40.5
41.0	41.0	41.0
41.5	41.5	41.5
42.0	42.0	42.0
42.5	42.5	42.5
43.0	43.0	43.0
43.5	43.5	43.5
44.0	44.0	44.0
44.5	44.5	44.5
45.0	45.0	45.0
45.5	45.5	45.5
46.0	46.0	46.0
46.5	46.5	46.5
47.0	47.0	47.0
47.5	47.5	47.5
48.0	48.0	48.0
48.5	48.5	48.5
49.0	49.0	49.0
49.5	49.5	49.5
50.0	50.0	50.0
50.5	50.5	50.5
51.0	51.0	51.0
51.5	51.5	51.5
52.0	52.0	52.0
52.5	52.5	52.5
53.0	53.0	53.0
53.5	53.5	53.5
54.0	54.0	54.0
54.5	54.5	54.5
55.0	55.0	55.0
55.5	55.5	55.5
56.0	56.0	

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PROPERTY OWNER Fred T. Lewis + Mary Agnes Lewis

ADDRESS 6005 Ten Oaks Rd, Clarksville PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION N/ Ten Oaks Rd @ Brighton Dam Rd Turnoff.

TAX MAP 34 PARCEL # 1/2 160

SIZE OF LOT _____ TYPE 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.

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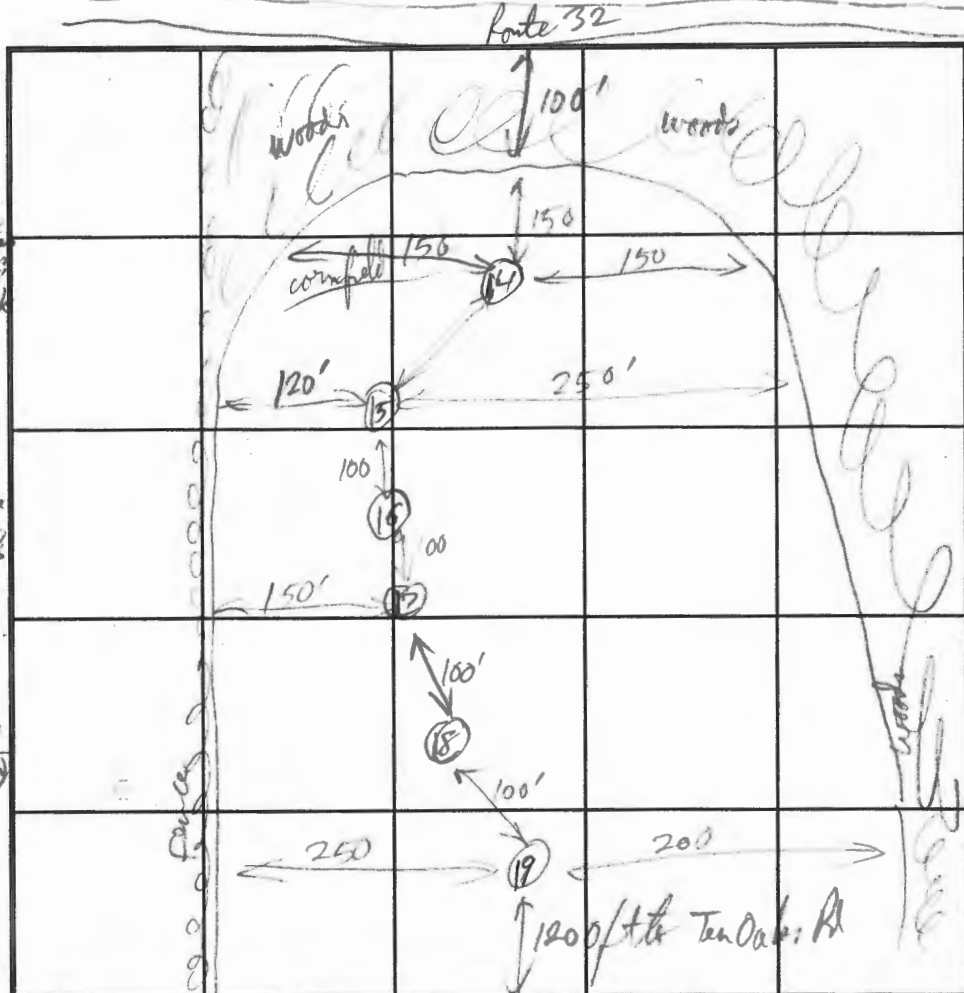
SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

0' - 15	ST Brn HSIL	AP
15' - 20'	Topsoil	
20' - 25'	Rd. Siltstone	C3d
25' - 30'	SIL CL FSL	Gravelly
30' - 35'	yellow clay shale	Gravelly
35' - 40'	Rd. (2.5-3.5% SL)	Gravelly
40' - 45'	5/4-5/6 gnd ptn	1C5SL
45' - 50'	SL dense rd	HT
50' - 55'	Orange SL	
55' - 60'	(3.5% SL - 6/4)	
60' - 65'	Dark rd	
65' - 70'	Dark rd	
70' - 75'	Dark rd	
75' - 80'	Dark rd	
80' - 85'	Dark rd	
85' - 90'	Dark rd	
90' - 95'	Dark rd	
95' - 100'	Dark rd	
100' - 105'	Dark rd	
105' - 110'	Dark rd	
110' - 115'	Dark rd	
115' - 120'	Dark rd	
120' - 125'	Dark rd	
125' - 130'	Dark rd	
130' - 135'	Dark rd	
135' - 140'	Dark rd	
140' - 145'	Dark rd	
145' - 150'	Dark rd	
150' - 155'	Dark rd	
155' - 160'	Dark rd	
160' - 165'	Dark rd	
165' - 170'	Dark rd	
170' - 175'	Dark rd	
175' - 180'	Dark rd	
180' - 185'	Dark rd	
185' - 190'	Dark rd	
190' - 195'	Dark rd	
195' - 200'	Dark rd	
200' - 205'	Dark rd	
205' - 210'	Dark rd	
210' - 215'	Dark rd	
215' - 220'	Dark rd	
220' - 225'	Dark rd	
225' - 230'	Dark rd	
230' - 235'	Dark rd	
235' - 240'	Dark rd	
240' - 245'	Dark rd	
245' - 250'	Dark rd	
250' - 255'	Dark rd	
255' - 260'	Dark rd	
260' - 265'	Dark rd	
265' - 270'	Dark rd	
270' - 275'	Dark rd	
275' - 280'	Dark rd	
280' - 285'	Dark rd	
285' - 290'	Dark rd	
290' - 295'	Dark rd	
295' - 300'	Dark rd	
300' - 305'	Dark rd	
305' - 310'	Dark rd	
310' - 315'	Dark rd	
315' - 320'	Dark rd	
320' - 325'	Dark rd	
325' - 330'	Dark rd	
330' - 335'	Dark rd	
335' - 340'	Dark rd	
340' - 345'	Dark rd	
345' - 350'	Dark rd	
350' - 355'	Dark rd	
355' - 360'	Dark rd	
360' - 365'	Dark rd	
365' - 370'	Dark rd	
370' - 375'	Dark rd	
375' - 380'	Dark rd	
380' - 385'	Dark rd	
385' - 390'	Dark rd	
390' - 395'	Dark rd	
395' - 400'	Dark rd	
400' - 405'	Dark rd	
405' - 410'	Dark rd	
410' - 415'	Dark rd	
415' - 420'	Dark rd	
420' - 425'	Dark rd	
425' - 430'	Dark rd	
430' - 435'	Dark rd	
435' - 440'	Dark rd	
440' - 445'	Dark rd	
445' - 450'	Dark rd	
450' - 455'	Dark rd	
455' - 460'	Dark rd	
460' - 465'	Dark rd	
465' - 470'	Dark rd	
470' - 475'	Dark rd	
475' - 480'	Dark rd	
480' - 485'	Dark rd	
485' - 490'	Dark rd	
490' - 495'	Dark rd	
495' - 500'	Dark rd	
500' - 505'	Dark rd	
505' - 510'	Dark rd	
510' - 515'	Dark rd	
515' - 520'	Dark rd	
520' - 525'	Dark rd	
525' - 530'	Dark rd	
530' - 535'	Dark rd	
535' - 540'	Dark rd	
540' - 545'	Dark rd	
545' - 550'	Dark rd	
550' - 555'	Dark rd	
555' - 560'	Dark rd	
560' - 565'	Dark rd	
565' - 570'	Dark rd	
570' - 575'	Dark rd	
575' - 580'	Dark rd	
580' - 585'	Dark rd	
585' - 590'	Dark rd	

[illegible][illegible]

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0' 14'

8' Grey Brkls, SCL
Strong Bon - dark Red Brn
C/F Hnt + grey Brn (v faint)
Hntls, a few Fcs +
in low mid dls
m. fi - m. fr

3' HL - SCL 1' m. fi - m. fr
1c - m. Sbk - Bk
2 m - m. cl, skins
C/F dark grey
C/F Red Brn - yel Bk
Hntls.
m. yr - 25% 5% nothing
ASL

5' Steg + d. l. (3/6 1/2)
Red Brn C + 2 d
yel Bnt + grey Brn Hntls.
1C Bk HSL

7 1/2' Lost to knot at 7 1/2'

9' Pale yellow
yel Brn LS - Sand (F+)

11' 25% 7 1/2 - 8 1/2

Profile, Hole 8
similar to #10
but with sands shallower
Bt + Cc also shallower

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3/5/98	14	V11					
	15	V10	water level at 8-8 1/2		caving at 5 1/2		
	16	V9 1/2	water level @ 8 ft, saturated creek @ 5 1/2 - 8'				
	17	V6 1/2	water level @ 5 ft				(Fail)
	18	V4 1/2	water level @ 3'3" caving @ 1 1/2 ft				(F)
	19	V6'	water level @ 3'0"		yellow-stn brn silty-cl ft hanging		(F)
			sand layeristrix 1/2 cream white		1/2 pale-tan grey / 3/5 dark grey-black.		
			below olive yellow sand level				

REMARKS Second High to very high water tables (in the pure sand layers)

TYPE OF SOIL _____

TESTED BY HP Int'l ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

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AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

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ROAD AND DESCRIPTION _____

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SIZE OF LOT one acre TYPE BLDG. single family
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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REASONS FOR REJECTION OR HOLDING ALL HOLES IN THIS VICINITY FAIL FOR CLAY & MOTTLES

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE MIR 8/15/95

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

THIS IS NOT A PERMIT

INLET DEPTH	MAXIMUM BOTTOM DEPTH	SQ. FT./BEDROOM
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
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31	31	31
32	32	32
33	33	33
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56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

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PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION _____

TAX MAP 34 PARCEL # P/O 160

SIZE OF LOT 1 Acre TYPE BLDG. SFD (Agri Pres.)
(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'	8 7.5	S/L
	Top Soil Brn	
	Yel Red Brn	
	HL	
1 1/2'	Red h L	
	2 m Sbk	
3'	(Carving 2 1/2' - Bottom)	
	Massive Sbk	
	Red mica	
	Loom-SL	
	med-Loose	
	soil but at 4'	
	water pipe	
	water but at 5'	
4'	Yel & Red Mica	
	mic SL & Bottom	

(Handwritten notes on a vertical strip of paper, possibly a label or tag, with various markings and numbers.)

9
gray Brn
5/2 (total)
yellow Ben
(chardrob)
sicL
2 1/2
red
Epole
(10/17 3/5 - 7/8)
\$3d
on face
Brittle
(m fi)
Lodm-SL
water bird
3' 3"
(Choring 3' 0")

10
~~Top of~~
 10 1/2
 Red Mica L
 E floor
 orange Adiponite
 all mica
 (few rocks)
 ↓
 10 1/2
 some Red chert
 str. S. S. S. S.

SOIL PROFILE

0'

see page 3

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3/5/98	6	7'	coring @ 2 1/2', water seepage @ 4', water level @ 5'				Fail
	7		coring @ 4 1/2', water seepage @ 5', water level @ 6'				Fail
	8	✓	water level @ 4' 10"				Fail
	9	✓ 4'	water @ 3' 3" coring @ 2 1/2'				Fail
	10	✓ 11' 3 1/2'	Hatched: 2:04 (approx)		3-4" @ 2:16		
		repair	2:17:00	2:20:00	2:20:00	2:24:30	4 1/2 days
		water seepage 10 ± water level 10 1/2' after gran/hm (test No. 4)					

REMARKS

TYPE OF SOIL

TESTED BY

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

INLET DEPTH

MAXIMUM BOTTOM DEPTH

ALSO PRESENT

TRENCH WIDTH

SQ. FT./BEDROOM



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

August 17, 1995

RETEST 56T 80~
3/5/98 10:00

Dr. and Mrs. Fred Lewis
6005 Ten Oaks Road
Clarksville, Maryland 21029

RE: Percolation Test Results
Application Number: A50809
Proposed Use: Subdivision
Property ID: Lewis Property
Tax Map: 34 Parcel: 160

Dear Dr. and Mrs. Lewis:

Visual observations of test holes dug on August 15, 1995 on the above referenced property indicated unsatisfactory soil conditions. Deep clay layers and/or shallow depths to mottled soils or water table were present in all tested locations. While percolation testing was not actually conducted, it was the consensus of all parties on-site that there was little likelihood of a positive outcome. Copies of the evaluation are enclosed.

As discussed in the field, we would anticipate your proposal to test in another location on the property in the Spring wet season.

If further review of locations already tested is desired, this is contingent upon submission by a registered engineer of a percolation certification plat showing actual locations and elevations of all excavated test holes and a suitable house and well site. The plat should also include the location of all existing wells and septic systems on the property as well as the location of any other relevant features such as streams, swales, or existing structures. A note must be included certifying that all wells and septic systems within 100 feet of property boundaries have been shown.

This plan should be submitted within sixty (60) days to allow field verification if necessary. If you have any questions regarding this matter, please feel free to contact me at the below address or by calling 313-2640.

Very truly yours,

Mark Rifkin, R. S.
Water and Sewerage Program

MR:jr
Enclosures



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

March 9, 1998

Dr. & Mrs. Fred Lewis
6005 Ten Oaks Road
Clarksville, Maryland 21029

RE: Percolation Test Results Application #: 50809
Proposed Use: Recorded Lot
Property ID: Lewis Property - Ten Oaks Road
Tax Map: 34. Parcel: 160

Dear Dr. & Mrs. Lewis:

Percolation testing conducted on March 5, 1998 on the above referenced property indicated limited satisfactory soil conditions. Limiting soil conditions were seasonally high water table over most of the tested sites on this property. A small area immediately adjacent to Ten Oaks Road just east of the Brighton Dam Road intersection, had percolation rates and water table results low enough to be useable for a shallow sewage disposal system. Copies of the percolation test results are enclosed.

Further review is contingent upon submission by a registered engineer of a percolation certification plat showing actual locations and elevation of all excavated test holes and a suitable house and well site. The plat should also include the location of all existing wells and septic systems on the property as well as the location of any relevant features such as streams, swales or existing structures. A note must be included certifying that all wells and septic systems within 100' of the property boundaries have been shown.

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

If you have any questions regarding this matter, please feel free to contact me at the address below or by calling 410-313-2640.

Very truly yours,

Ronald J. Finkley, R.S.
Water and Sewerage Program

RJP:tl
cc: Tim Feaga
File

NOTES: 1. THE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN TOPOGRAPHIC SURVEY BY VOGEL & ASSOCIATES INC. DATED JULY 15, 1998.

2. THE PROPERTY LINES SHOWN HEREON ARE BASED ON A BOUNDARY SURVEY PERFORMED BY VOGEL & ASSOCIATES, INC. IN JULY 15, 1998.

3. NO WELLS OR SEWERAGE SYSTEMS ARE LOCATED WITHIN 100' OF THE PROPERTY EXCEPT AS SHOWN.

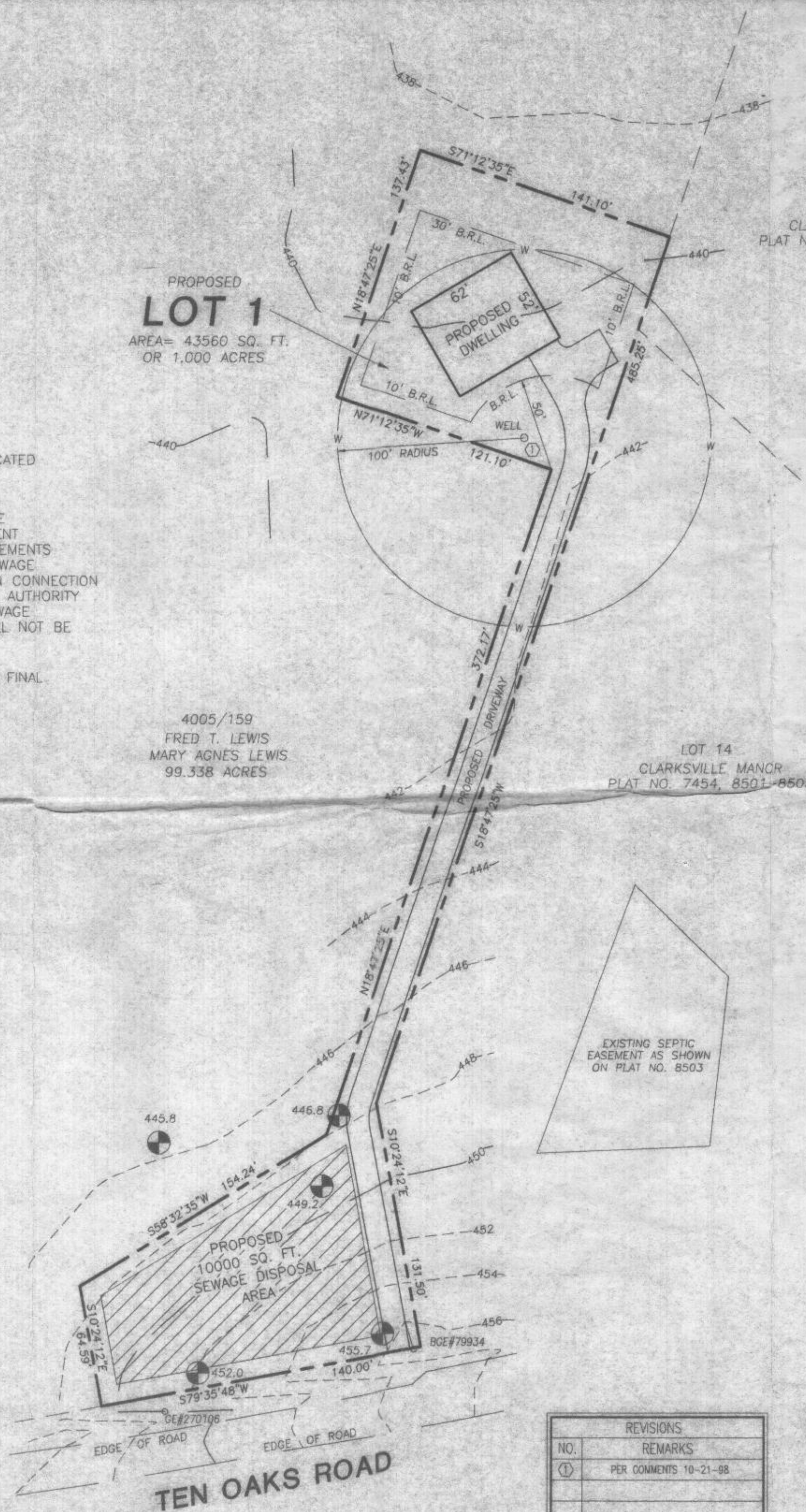
4. EASEMENTS SHOWN HEREON MUST BE RECORDED SUBSEQUENT TO DRILLING THE WELL ON PARCEL 160 AND PRIOR TO ANY BUILDING PERMIT APPROVALS.

5. THE PURPOSE OF THIS PLAT IS TO PROVIDE A USABLE SEPTIC SYSTEM TO THE PROPOSED LOT SHOWN HEREON.

6. PERCOLATION TEST HOLES SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN AS

7. THIS AREA DESIGNATES A MINIMUM 10,000 SQ. FT. PRIVATE SEWAGE EASEMENT 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 SHALL BE NULL AND VOID UPON CONNECTION TO A PUBLIC SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

8. PROPOSED WELL TO BE DRILLED AND TESTED FOR YIELD BEFORE FINAL PLAT RECORDATION. (1)



APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS

George M. Fogel
COUNTY HEALTH OFFICER

11-2-98
DATE

PERCOLATION TEST PLAT

LEWIS PROPERTY

TAX MAP 34, PARCEL 160

FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE 1"= 50' OCTOBER 22, 1998

REVISIONS	
NO.	REMARKS
①	PER COMMENTS 10-21-98



VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966

THE REQUIREMENTS § 3-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1988 REPLACEMENT VOLUME, (AS SUPPLEMENT) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

Mark C. Martin 1/12/99
DATE
MARK C. MARTIN
PROFESSIONAL LAND SURVEYOR NO. 10884

FRED T. LEWIS DATE

MARY AGNES LEWIS DATE

COORDINATE TABLE

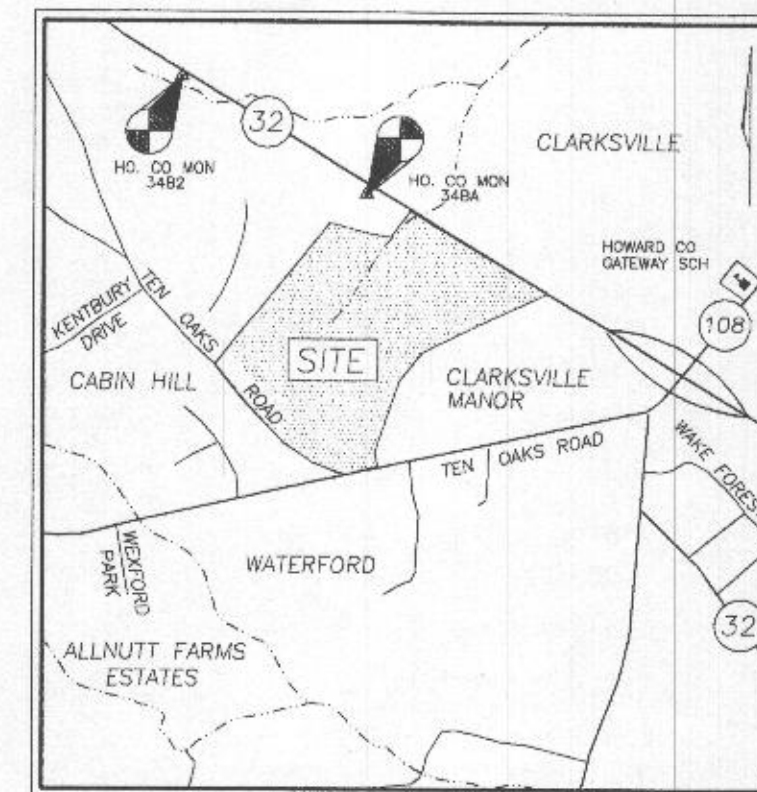
POINT	NORTH	EAST
1	N 560290.3872	E 1325684.8888
2	N 560259.0971	E 1325514.4583
3	N 560322.6263	E 1325502.7947
4	N 560403.1172	E 1325634.3663
5	N 560755.4501	E 1325754.2436
6	N 560794.4570	E 1325639.5978
7	N 560924.5630	E 1325683.8649
8	N 560879.1140	E 1325817.4448
9	N 560419.7255	E 1325661.1430

GENERAL NOTES

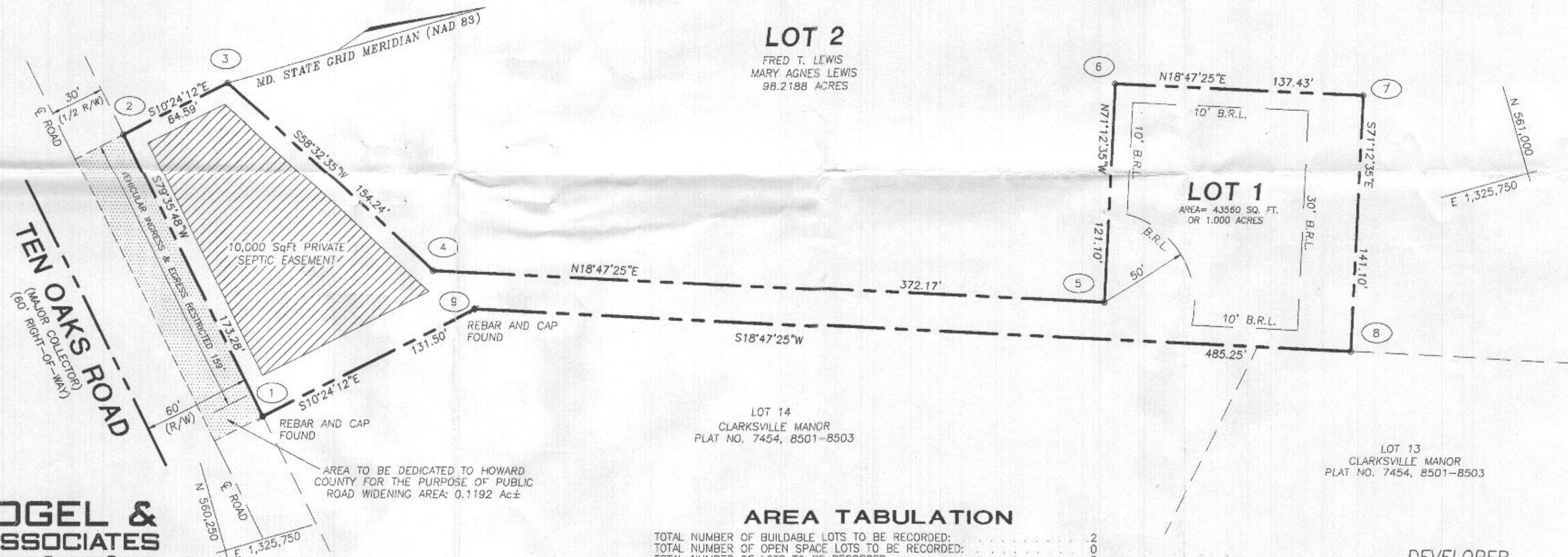
1. SITE REFERENCE: L4005 / F.159
2. THE LOTS SHOWN HEREON COMPLY WITH MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT
3. PROPERTY ZONED RR-DEO PER THE COMPREHENSIVE ZONING PLAN DATED OCTOBER 18, 1993.
4. THIS PLAT IS BASED ON A FIELD SURVEY PERFORMED BY VOGEL & ASSOCIATES INC., ON OR ABOUT AUGUST 11, 1998.
5. THE BEARINGS SHOWN ON THIS PLAT ARE REFERRED TO THE SYSTEM OF COORDINATES ESTABLISHED IN THE MARYLAND COORDINATE SYSTEM (NAD 83) AS PROJECTED BY THE FOLLOWING HOWARD COUNTY GEODETIC CONTROL STATIONS:
34B2 (N) 565,468.155 (E) 1,321,931.507
34BA (N) 563,852.454 (E) 1,324,672.172
6. BRL DENOTES BUILDING RESTRICTION LINE.
7. ● DENOTES IRON PIN W/CAP SET.
8. ○ DENOTES IRON PIPE OR IRON BAR FOUND.
9. ○ DENOTES ANGULAR CHANGE IN BEARING OF BOUNDARY OR RIGHTS-OF-WAY.
10. ■ DENOTES STONE OR MONUMENT FOUND.
11. ALL AREAS SHOWN ARE MORE OR LESS.
12. THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE 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 VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWAGE EASEMENT.
13. FOR LOT 1, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE TO BE PROVIDED TO BE PROVIDED ON TEN OAKS ROAD.

GENERAL NOTES (CONT)

14. DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
A) WIDTH - 12 FEET
B) SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM);
C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45 FOOT TURNING RADIUS;
D) STRUCTURES (BRIDGES/CULVERTS) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING)
E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
F) STRUCTURE CLEARANCES - MINIMUM 12 FEET;
G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
15. THE EXISTING HOUSE LOCATED ON LOT 2 TO REMAIN, THERE IS NO IMPACT TO THE EXISTING HOUSE BY THE CREATION OF LOT 1.
16. LOT 1 IS BEING CREATED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 105.E.6 OF THE HOWARD COUNTY ZONING REGULATIONS FOR THE SUBDIVISION OF LOTS WITHIN THE AGRICULTURAL LAND PRESERVATION DISTRICT.
17. DUE TO AVERAGE LOT SIZE, THIS SUBDIVISION IS EXEMPT FROM STORM WATER MANAGEMENT.
18. THIS SUBDIVISION IS EXEMPT FROM PLATTING THE RESIDUE PROPERTY (LOT 2) PER SECTION 16.102(d)(2) OF THE HOWARD COUNTY SUBDIVISION REGULATIONS (AGRICULTURAL PRESERVATION SUBDIVISIONS).
19. LANDSCAPE SURETY TO BE POSTED WITH GRADING PERMIT AGREEMENT.
20. NO OPEN SPACE REQUIREMENTS EXIST FOR THIS SUBDIVISION PER SECTION 16.121(a)(2) OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.
21. THIS SUBDIVISION IS EXEMPT FROM THE FOREST CONSERVATION PROGRAM PER SECTION 16.1202(b) OF THE COUNTY CODE AS IT RELATES TO AGRICULTURAL PRESERVATION SUBDIVISIONS.



VICINITY MAP
SCALE: 1"=2000'



AREA TABULATION

TOTAL NUMBER OF BUILDABLE LOTS TO BE RECORDED:	2
TOTAL NUMBER OF OPEN SPACE LOTS TO BE RECORDED:	0
TOTAL NUMBER OF LOTS TO BE RECORDED:	2
TOTAL AREA OF BUILDABLE LOTS TO BE RECORDED:	99.2188 AC
TOTAL AREA OF OPEN SPACE LOTS TO BE RECORDED:	0.000 AC
TOTAL AREA OF LOTS TO BE RECORDED:	99.2188 AC
TOTAL AREA OF ROADWAY TO BE RECORDED:	0.1192 AC
TOTAL AREA TO BE RECORDED:	99.3380 AC

DEVELOPER

HERITAGE LAND DEVELOPMENT
3243 BETHANY LANE
ELLICOTT CITY, MARYLAND 21042

OWNERS

FRED T. LEWIS AND MARY AGNES LEWIS
6005 TEN OAKS ROAD
CLARKSVILLE, MD. 21029

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS

3891 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN FOR HOWARD COUNTY

HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DIRECTOR DATE

OWNER'S CERTIFICATE

WE, FRED T. LEWIS AND MARY AGNES LEWIS, OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPT THIS FINAL PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS:

- 1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPE AND OTHER MUNICIPAL UTILITIES AND SERVICES IN AND UNDER ALL ROADS OR STREET RIGHTS-OF-WAYS AND THE SPECIFIC EASEMENT AREAS SHOWN HEREON;
- 2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE OF THE BEDS OF THE STREETS AND OR ROADS, THE FLOOD PLAINS AND OPEN SPACE WHERE APPLICABLE AND FOR GOOD AND VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREETS AND/OR ROADS AND FLOOD PLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE;
- 3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE;
- 4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERECTED ON OR OVER THE SAID EASEMENTS AND RIGHTS-OF-WAY. WITNESS OUR HANDS THIS DAY OF 1999.

FRED T. LEWIS

WITNESS

MARY AGNES LEWIS

WITNESS

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF THE LAND CONVEYED BY FRED T. LEWIS AND MARY AGNES LEWIS, HIS WIFE TO FRED T. LEWIS AND MARY AGNES LEWIS BY DEED DATED JUNE 19, 1977 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 4005 AT FOLIO 159.

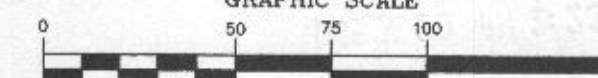
I FURTHER CERTIFY THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY, AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED, AND THIS PLAT IS IN ACCORDANCE WITH THE HOWARD COUNTY SUBDIVISION REGULATIONS.

Mark C. Martin
MARK C. MARTIN, PROFESSIONAL LAND SURVEYOR
MARYLAND LICENSE NO. 10884

RECORDED AS PLAT NO. _____ ON _____
AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND.

LEWIS PROPERTY LOTS 1 AND 2

ZONED: RR-DEO
TAX MAP NO:34 BLOCK:5 PARCEL NO:160
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
DATE: JANUARY 5, 1999
GRAPHIC SCALE



SCALE: 1"=50'
SHEET 1 OF 1
F 99-