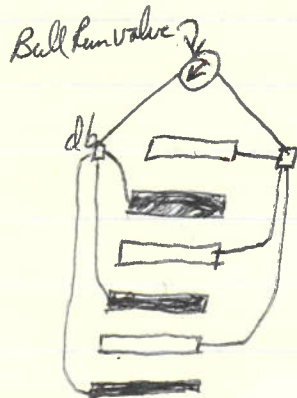


Design for (A402549) 3625 Ton Oak Rd

A Alternating Trench system based on 3 Bdr Hse = 450 gpd D.O.R.
pers = 80 mpg $\Rightarrow$ Soil Loading rate 0.45 gpd/ft²

$$450 / .45 = 1000 \text{ gpd/ft}^2 \text{ Absorbance} \div 3 \text{ ft/trench} = 333.3 \text{ LF Trench}$$



$$333.3 \times 1.5 =$$

$$1500 \times \frac{1}{2} \times \frac{2}{2} = 500 \text{ LF of Trench} / 2 = 250 \text{ LF/set}$$

$$250 \div 30 = 8\frac{1}{3} \text{ LF/Trench } 3 \text{ tr/set}$$

6 Trench for whole system

10/31
EC 3256



HOWARD COUNTY HEALTH DEPARTMENT

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

November 14, 1991

Reply to:

Mr. Isaac Carter
3625 Ten Oaks Road
Glenelg, Maryland 21737

RE: Percolation Test Results Application
Number: A47549
Proposed Use: Expansion of Septic System Area
to Support Proposed Addition
Property ID: 3625 Ten Oaks Road
Tax Map: 22 Parcel: 4

Dear Mr. Carter:

Percolation testing conducted October 30, 1991 on the above referenced property indicated soil conditions not suited to installation of conventional septic systems. Copies of the test results are enclosed.

Perched and seasonal water table conditions and slow percolation rates would limit this site to consideration for Innovative/Alternative Sewage Disposal Systems only. Such solutions are not practical, nor ever permissible for every situation.

Additional information is required about the circumstances of this property before it can be determined whether or not it is appropriate to consider an alternative septic system for this site. It is suggested that you request a conference in this office to discuss this matter further.

If you have any questions regarding this matter or wish to schedule the conference, contact me at this office by calling 461-9933.

Very truly yours,

Ronald J. Pinkley

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

RP:jr
Enclosures
cc: J. Fyock, Contractor
C. Williams
File

11/14/91 AGA600 TO FOUNTAIN
TESTING. C.W./R.P.

Bureau of Environmental Health
3525-H Ellicott Mills Drive Ellicott City, Maryland 21043-4544
Water and Sewerage, Permits 461-9933 Community Environmental Health 461-9944
Technical Services 461-9955 Director 461-9956 TDD 313-2323

Abstract

APPLICATION

PERCOLATION TESTING

A 47549-A

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE 461-9933

DISTRICT _____

DATE 10/15/91

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Isaac Carter

ADDRESS 3625 Ivory Rd. T6W OAKS RD. PHONE H/ 442-7602

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION Ivory Rd.

TAX MAP 22 PARCEL # 4

SIZE OF LOT 1.96 Acre TYPE BLDG _____
(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.

Shelley Fyock
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING Near Ivory Road (Holes A+B) can do IFA Sand Mound Tests - No In Ground

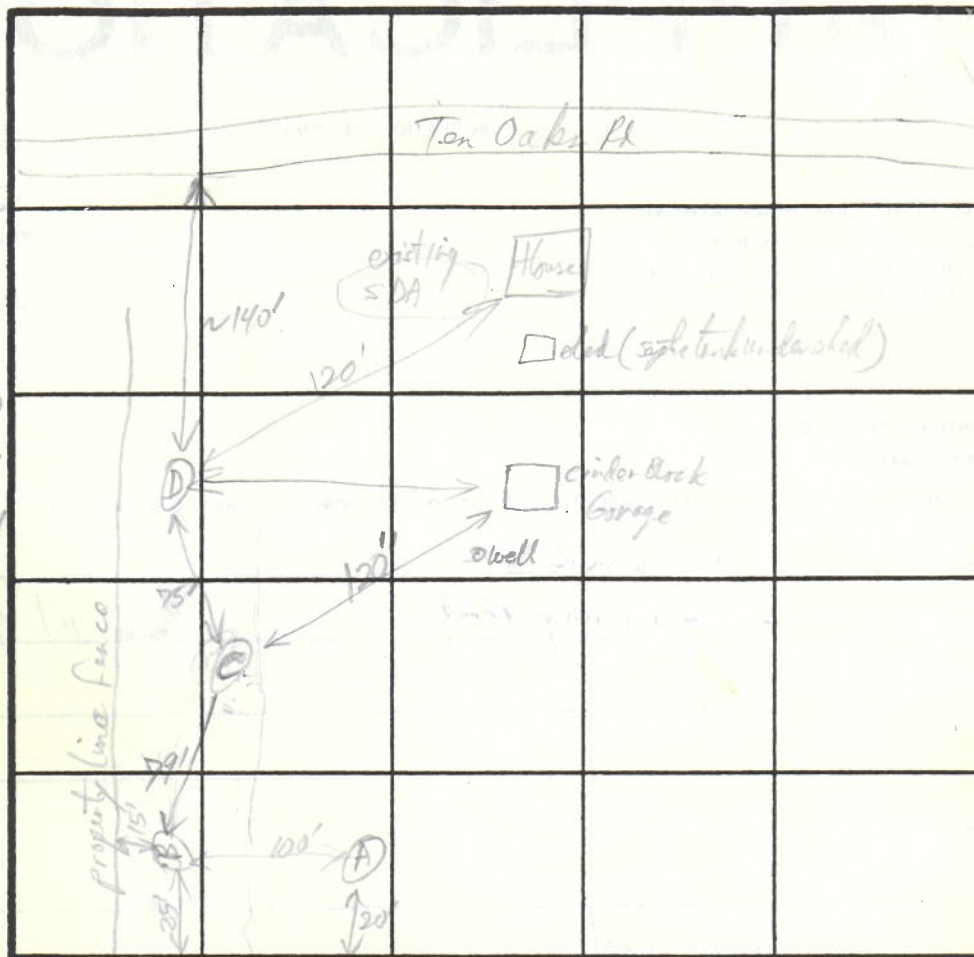
system possible because of Perched + Seasonal Water Table Problems. Elsewhere (Holes C+D)
use IFA Alternating Trenches or LPD - Trenches No Deeper than 4 1/2' because of Water Table
Design on 0.45 gpd/ft² Loading Rate or 60 min perc rate in Saprolite.

THIS IS NOT A PERMIT

Hole C

SOIL PROFILE

0' Brn (10% R 9%)
 1' Lom
 Red Brn (7.5% R 5%)
 SiCL
 2' dark tan Brn (base)
 2' 192d Black Hn
 Stains structured
 Saprolite
 26' dense variegated
 yellow to orange
 + Red Brn massive
 Saprolite
 5' Mix of L-SL
 substructured
 variegated pink
 red Brn + clay gray
 Saprolite
 Str 12' (stone mass)
 ~25%



Hole D

6' 10% R 1/2 Lom
 orange-red Brn
 Silty clay Lom
 2 1/2' Red Brn gravelly
 HL
 3 1/2' Yd Brn
 Red Brn
 h Sand Lom
 to depth zone
 in consistency
 8' water seepage
 1 1/2' water level @ 11 ft

Ivory

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10/30/91	A	see detailed profile	Not	Suitable			
	B	" "	"	Not	Suitable		
	C	@ 4 1/2' m	12:57:00	1:09:30	1:10:00	1:45:00	35 min
		12' v					
	D	@ 2' s	1:13:30	1:47:00	34 min in lot with		
		8 1/2' v	Water Seepage				
		11 1/2' v					

REMARKS

Existing Hoehes 2 Bdr

TYPE OF SOIL

CgBz Cherty gravelly with Lom

TESTED BY

R. P. P. Public

ALSO PRESENT

Rich
Robby + Ricknell

3625 Ten Oaks Rd

SOIL DESCRIPTION

NAME Isaac Carter COUNTY Howard FILE NO _____
SOIL MAP UNIT Electrogray silty loam MAP SYMBOL CaBz DATE 10-30-91
GEOLOGIC MATERIAL Not encountered ELEVATION _____ GRID NO 802 E _____
NO. 110A DESCRIBED BY R. D. B. B. N _____

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
<u>Ap</u>	<u>0-8"</u>	<u>10YR 4/3</u>	<u>3/4</u>	<u>hSiL</u>	<u>3f</u>	<u>gran</u>	<u>Down small</u>	<u>Moist mfr</u> <u>slightly moist since flat in all horizons</u>
	<u>8-16"</u>	<u>10YR 4/5</u>	<u>cl. black Mn spots</u>	<u>SiCL</u>	<u>2f</u>	<u>sbk</u>		<u>Moist mfr-mfi</u>
	<u>16-28"</u>	<u>7.5YR 5/6</u>	<u>2P 5YR 4/6</u>	<u>SiCL</u>	<u>2m</u>	<u>sbk</u>		<u>dry - SiCL moist (about 29%)</u> <u>mfi</u> <u>3 in. clay films</u> <u>5 in. roots, c. 1/4 in.</u>
	<u>28-42"</u>	<u>10YR 5/6</u>	<u>2P 5YR 4/6</u>	<u>hSiCL</u>	<u>2c</u>	<u>prism</u>		<u>Moist mfi</u> <u>mod sticky (about 95%)</u> <u>3 in. clay films</u>
	<u>42-66"</u>	<u>10YR 5/6</u>	<u>mix</u> <u>4.5YR 7.5/8 7.5/8-8</u> <u>4.5YR 7.5/8 7.5/8-8</u> <u>4.5YR 7.5/8 7.5/8-8</u>	<u>hSiCL-C</u>		<u>Massive</u>		<u>Moist mfi</u> <u>mod sticky (about 35-40%)</u>
	<u>56'-12'</u>	<u>Variegated</u> <u>and gray</u> <u>Black stain m. red</u>	<u>Dark Brown</u>	<u>hSiL</u>		<u>Massive</u>	<u>few rubble</u>	<u>about 26-27% clay</u> <u>mod</u>
	<u>Water in hole to 11' below grade</u>							

LANDSCAPE

Position
Summit _____
Shoulder _____
Sideslope ✓
Footslope _____

Depression _____
Upland _____
Terrace _____
Floodplain _____

Slope
Percent 3%
Shape _____

SOIL DRAINAGE CLASS

ED _____ MWD ✓ PD _____
WD _____ SPD _____ VPD _____

WATER TABLE

perched 28"
within 5'-9'
water < 11'

LIMITING ZONE

perched w to 28"
permanently 6-11 ft

SOIL CLASSIFICATION

CgBz