

APPLICATION

PERCOLATION TESTING

A 516084
P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2840

DISTRICT _____

DATE _____

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 SECURITY DEVELOPMENT, L.L.C.
P.O. BOX 417
ADDRESS ELLICOTT CITY, MD 21041 PHONE 410-465-4244

AGENT OR PROSPECTIVE BUYER _____
ADDRESS _____ PHONE _____

PROPERTY LOCATION:
SUBDIVISION HOMEWOOD LOT NO. 70
ROAD AND DESCRIPTION HOMEWOOD ROAD

TAX MAP 23 E 29 PARCEL # 20 E 86
SIZE OF LOT 1 ACRE ± TYPE BLDG. SINGLE FAMILY DETACHED
(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.
By: SECURITY DEVELOPMENT LLC
MEMBER
(SIGNATURE OF APPLICANT) STEVEN K. BIZZO

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

516084

COUNTY #

SOIL PROFILE

70-D

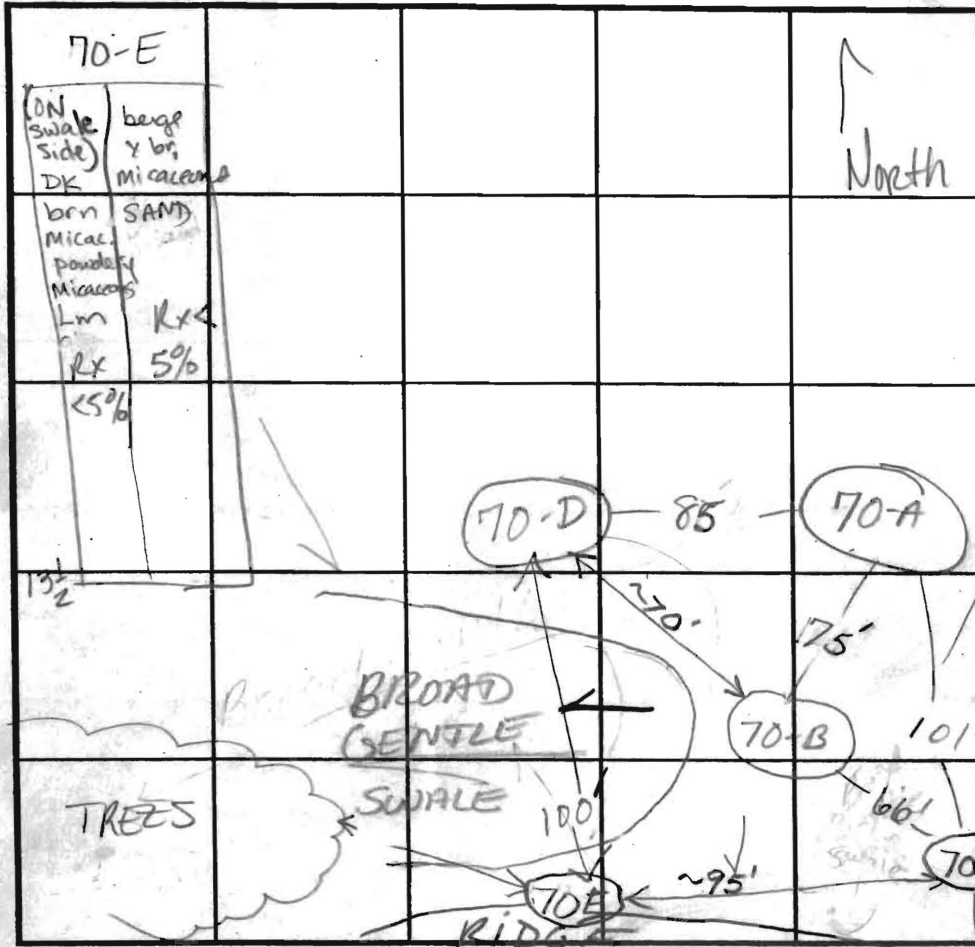
DK
brn
hvy
Lm
Rx
5%
4 1/2
COARSE
SAND
or gbrn
Rx
5-10%
Bottom

70-A

DK brn
hvy
Loam
Rx 25%
yellow
hard clay
DK brn
micaceous
Loam
Rx 25%
5%
Bottom

70-B

DK brn
hvy Lm
over all
Fine
Sandy
Micaceous
Loam
pockets
of silt-
bright yellow
strong gray
greenish
dk brn
pockets of
coarse sand
7+



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

70-C

DK
brn
hvy Loam
almost
CL Lm
4 1/2
to
5'
S-
SLm
DK
brn
Rx < 10%
Bottom

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-3-02	70-D	7'2"	7:42:35	7:46:30	7:46:30	8:07:30	21 min OK
	70-A	8'	7:49	Pulled @ 8:07 No movement	8:07	3/4" to go to 2nd	2nd
	70-B	7 1/2'	7:55	7:56	7:57	7:57	Too FAST (F)
	70-C	4 1/2'			7:57:30	7:58:50	FAST
	70-C	14'	8:03:45	8:05:00	8:05:00	8:09	4 min OK
	70-E	5'	8:15	8:17	8:17	8:19	2 min OK

REMARKS Holes Dug Per Plan

TYPE OF SOIL _____

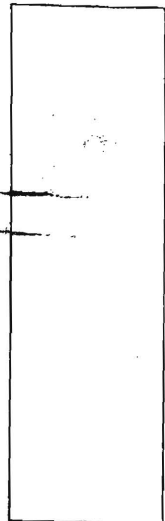
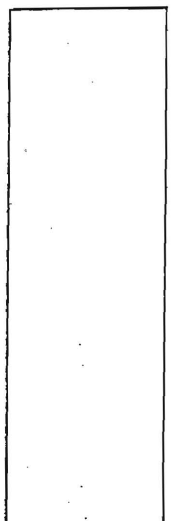
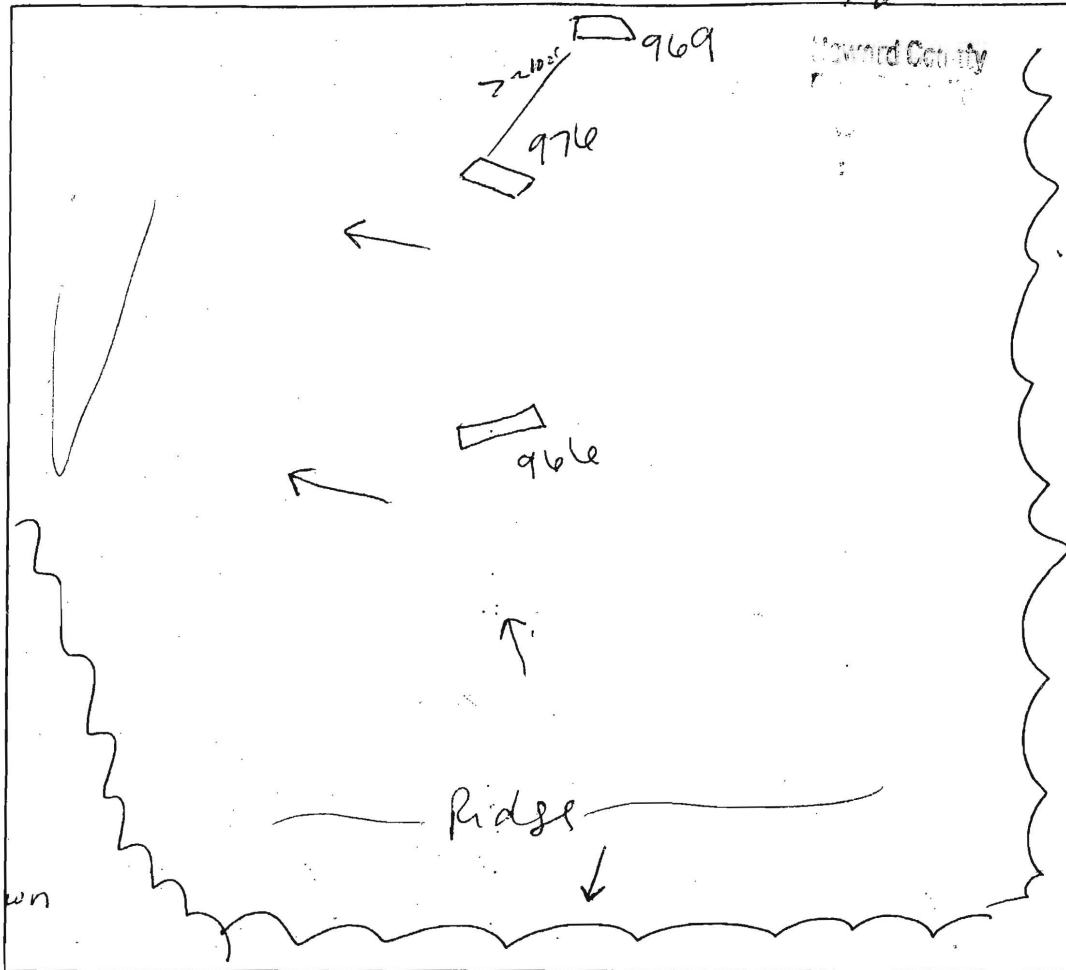
TESTED BY B. Baker / K. Noonan ALSO PRESENT Hatfields

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

Open Run Cut
N

A/P lot 61/62



966
brown L
1' yellow orange
scl coarse
3 3/4' gray/orange brown
dsl
very micaceous
7' gray/white
scl sg

969
brown L
sbk
2' orange yellow
brown
scl
5' orange brown
scl coarse
6' gray/white
dsl coarse
grainy
13' decomposing
rock

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
10/13/05	966	6' / 14'	9:35 ⁵⁰	9:38	9:55	17	P
	976	6' / 13'	9:42 ³²	9:45 ¹²	9:50	5	P
	969	6'3" / 13'	10:01	10:16	too slow		-
		8' / 13'	1:08	1:13	1:19	6	P

14' 976
brown L
9" orange brown
scl sbk
25" white quartz
sand
3' brown
dsl
micaceous
scl sg
micaceous

REMARKS _____

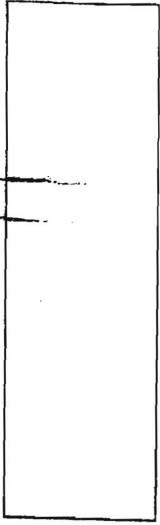
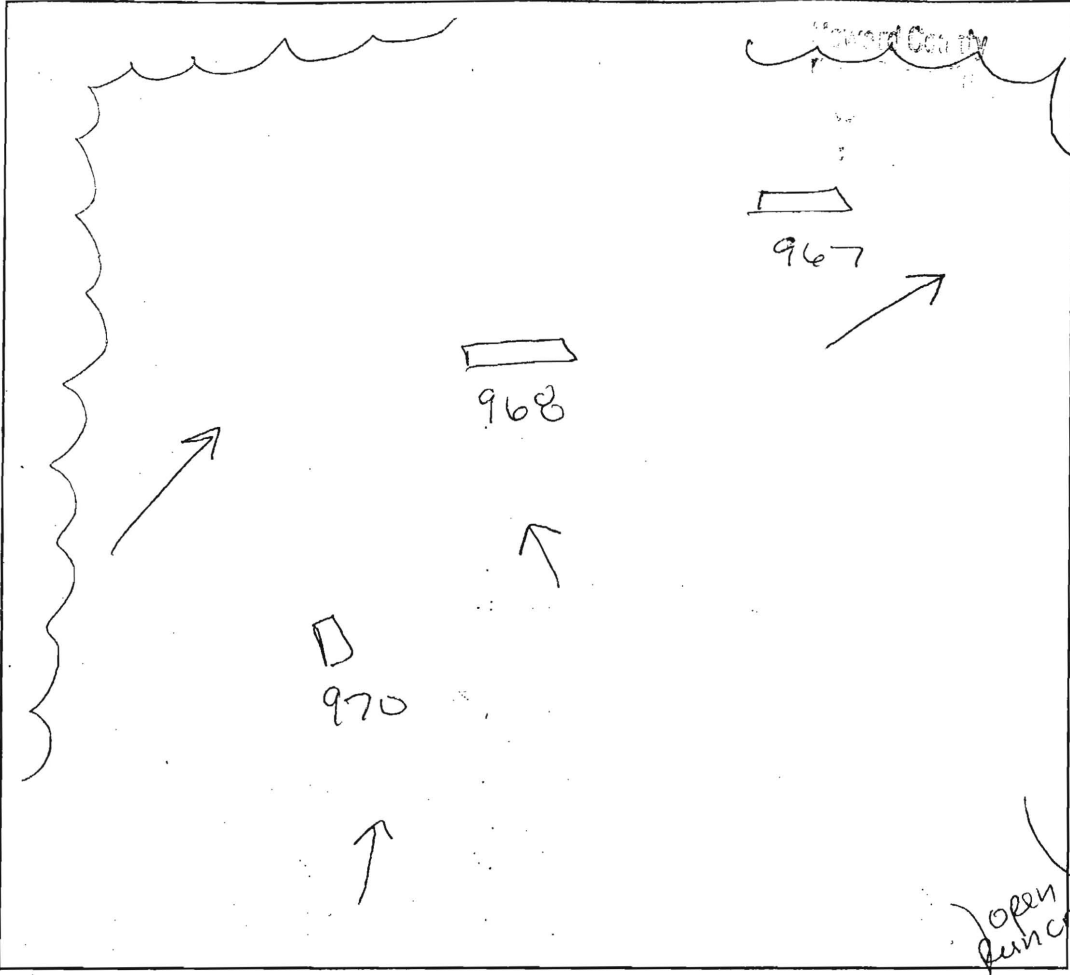
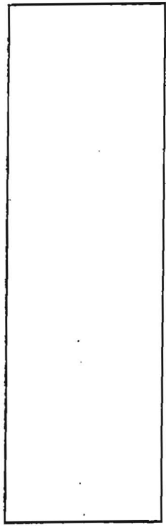
SANITARIAN SF BACKHOE Mike J. (AEC) OTHERS Bob Sheesley

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

13'

A/P _____



970
brown L
25% gravel
orange brown
scl
4 1/2"
orange brown
dsi sg.
micaceous
7 1/2"
yellow brown
scl/s
sg.
micaceous
14'

967
brown L
strong
orange brown
scl m
2 3/4"
yellow brown
dsi w/
rock grains
sg
orange brown 4'
dsi sg
w/rock grains
5'
weak orange /
white si
w/ gravel
1 1/2" lenze of quartz

968
brown L
5-10% gravel
5"
orange brown
dsi m
well compacted
5% gravel
rock grains
0 1/2"
yellow brown
scl w/ sg
gravel frags
10% - 15%
w/ si bk
white gravel
13' lenze of quartz

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
9/20/05	970	7'5" / 14'	1:37	1:42	1:53	9	P
	968	6' / 13'	1:32	1:41	1:52	9	P
	967	6'5" / 14'	1:59	2:00	2:03	3	P

REMARKS _____

SANITARIAN SF/KJB BACKHOE Mike J(AEC) OTHERS Bob Sheerley

TEST HOLES USED IN SDA _____ AVG. PERC TIME 10 SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

MOUND TEST DATA SHEETS Wood County

Property I.D. Riverwood Lot # 76 Date 12/2/03

Sanitarian B. Baker Landscape Position _____

% Slope < 12% Soil Type _____ Contractor Hatfields

HOLE # 47 DEPTH OF TEST 26" START TIME 10:22

2.5'
Br Loam and
Topsoil
~10% Rock
Or Br Loam
~15% Rock
3'10"
Water
Seeping In
Side of Hole
4.5'

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
7"	Start	0		
6 1/16"	10:43 (21)	15/16"		
5 3/8"	11:09 (26)	11/16"		
4 14/16"	11:31 (22)	1/2"		
Reset to 7"	11:34			
6 1/2"	11:54 (20)	1/2"		
6 1/16"	12:14 (20)	7/16"	= 1.31 inch/hour	

Infiltrometer
Leaking?

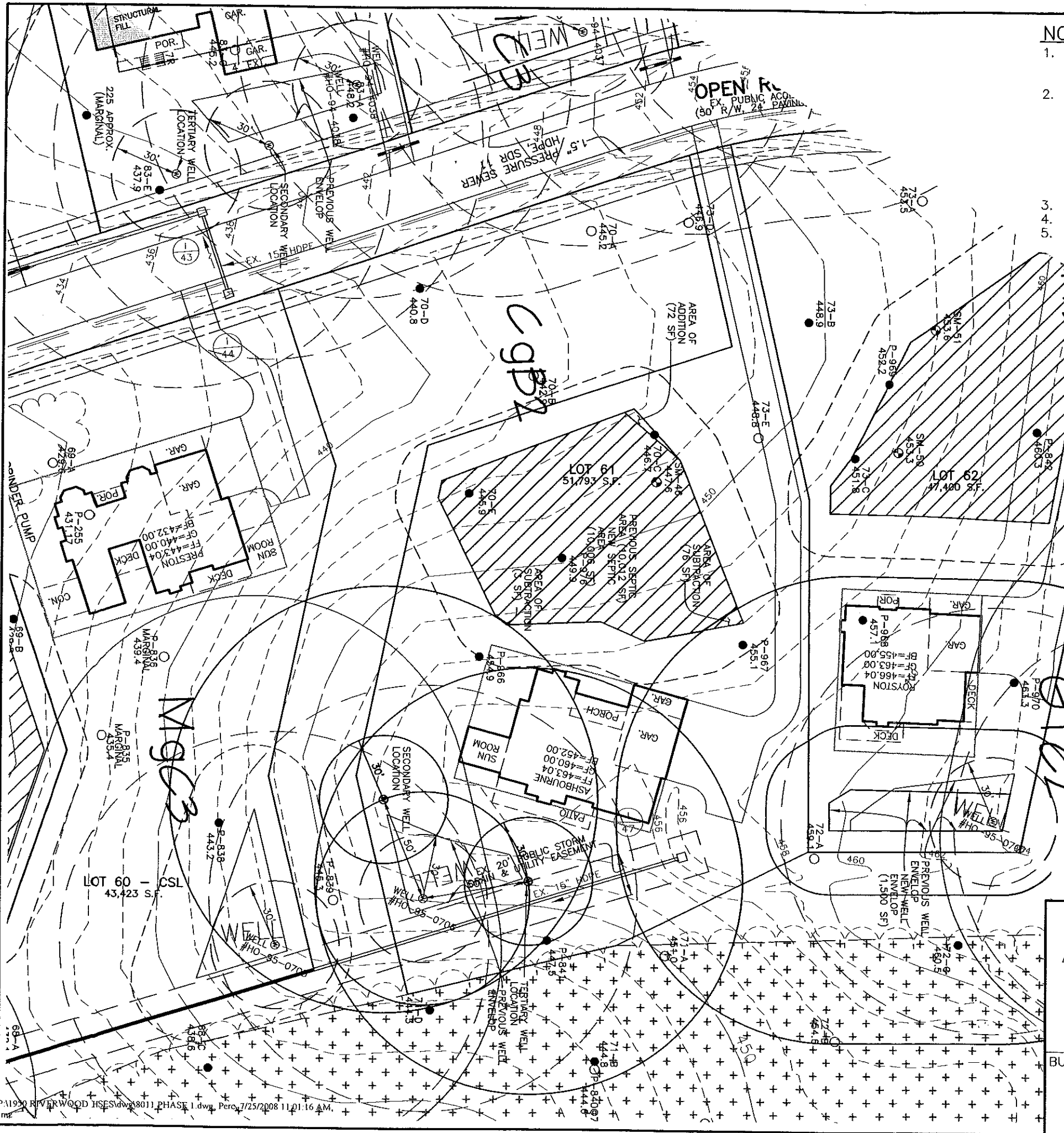
Retest if Useful, Rates Unusual
For Type of Soil Encountered

HOLE # 46 DEPTH OF TEST 16" START TIME 10:42

1.5'
Br Topsoil
Red Br
Gravelly Cl
Loam
~15% Rock
3.5'
Br Si Cl
Loam
~10% Rock
4'

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
7"	Start	0		
6 7/8"	11:07 (25)	1/8"		
6 6/8"	11:28 (21)	1/8"		
6 21/32"	11:48 (20)	3/32"	= 0.28 inch/hour	

Fail



NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR RIVERWOOD, PHASE 1, PLAT Nos. 18031 - 18045 OR PHASE 2, PLAT Nos. 19720 - 19726. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREAS AND ALL EASEMENTS.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT 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. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS.
4. SEPTIC TANK FOR THIS LOT TO BE 2,000 GALLONS.
5. THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-0706, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF.

John M. Carney 7/25/08

PLAN PREPARER
JOHN M. CARNEY FOR BENCHMARK ENGINEERING, INC.

APPROVED:
FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Robert J. Davis 7/8/08
COUNTY HEALTH OFFICER SS DATE

LEGEND

- EXISTING CONTOURS ESTABLISHED UNDER F-04-082
- FIELD SURVEYED WELL LOCATION
- 7001A 402.8 PASSED PERCOLATION TEST PER CERTIFICATION PLANS
- 62-A 397.1 FAILED PERCOLATION TEST PER CERTIFICATION PLANS
- SM-32 397.1 FAILED SAND MOUND TEST PER CERTIFICATION PLANS



BENCHMARK
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418
ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644
www.bei-civilengineering.com

BUILDER:
CAMBERLEY HOMES, INC.
6905 ROCKLEDGE DRIVE
SUITE 800
BETHESDA, MARYLAND 20817
301-803-4929

RIVERWOOD
LOT 61

12043 OPEN RUN ROAD
ELLICOTT CITY, MD 21042
TAX MAP 29, GRIDS 3, 4, 9 & 10 - PARCEL 20
3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

REVISED
PERCOLATION CERTIFICATION PLAN

DATE:	JULY 25, 2008	PROJECT NO.	1950
SCALE:	1" = 50'	DRAWING	1 OF 1

P:\1950 RIVERWOOD HSES\dwg\8011 PHASE 1.dwg, Perc, 7/25/2008 11:01:16 AM