

APPLICATION

PERCOLATION TESTING

A 516084

P _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

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

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. 35

ROAD AND DESCRIPTION HOMEWOOD ROAD

TAX MAP 23 & 29 PARCEL # 20 & 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. SECURITY DEVELOPMENT LLC
BY: [Signature] MEMBER
(SIGNATURE OF APPLICANT) STEVEN K BIRNBAUM

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

35A

Topsoil
Then Br
Sa Loam

Large
Vein of
~ 80%
Rock
From 3'
To Bottom
Through Center
of Ridge 1/2'

35B

LOAMY SAND

Rx
10-15%

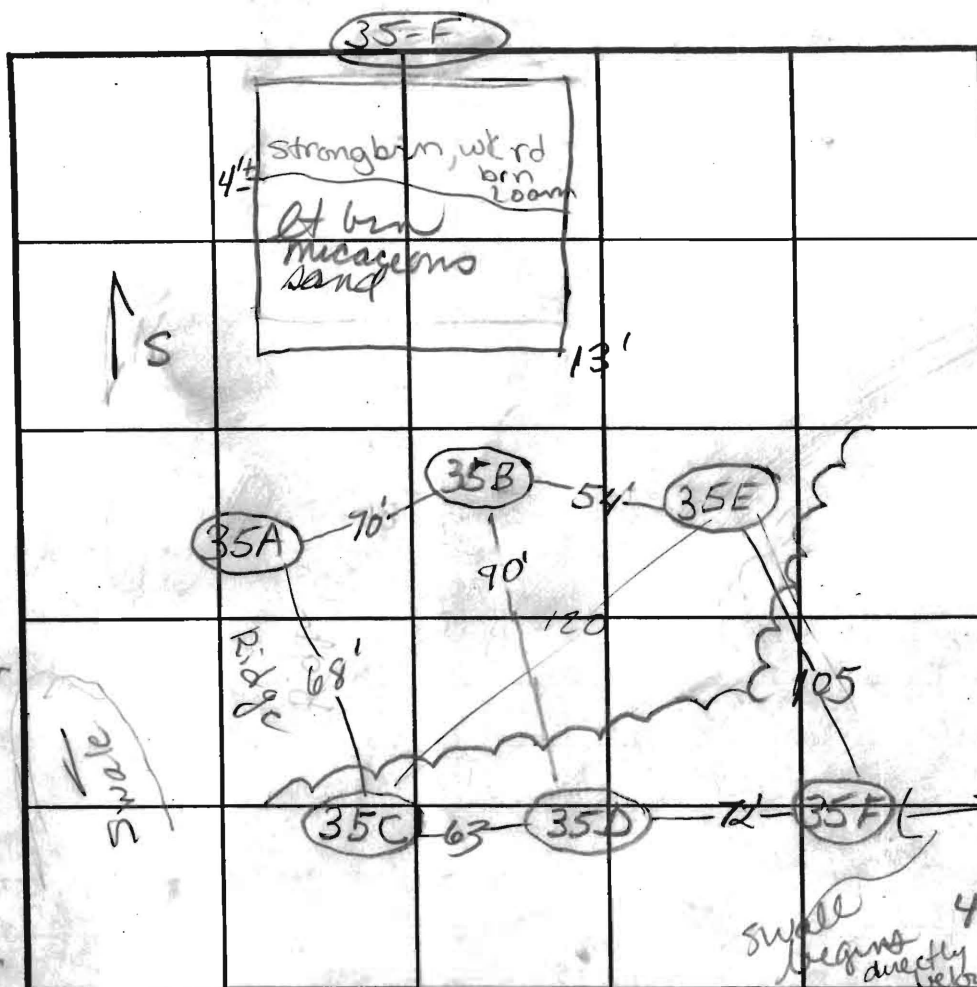
Hard

35C

kin (2)
loamy
sand
(coarse)
micaceous

Coarse
Sand
micaceous
 $R_x \leq 10\%$

Hard Bottom



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

E. vfr saprolite

SOIL PROFILE

33E

De brr
Loann

Same

tan
y brn
white
Rx
~10%

144 Bottom

35-D

Massive
Structure
SiLm

Lt brn
Sand mucous
Rx $\leq 5\%$
most so.
3 Bottom

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1 DROP		TIME
			START	STOP	START	STOP	
7/17/02	35A	13' V	1				(F)
	35B	2.5'/10' V	11:56	11:57:30	11:57:30	12:00:15	~3 SK
	35C	3'		11:11		11:12	1+ min
		6 1/2'	11:11	11:12:30		11:14:20	2 min OK
	35E	3 1/2' / 14.5' V	11:20:45	11:24:00		11:30	6 OK
Let 25%	35D	3' 3" / 13' V	1:07:00	1:08:10	1:08:10	1:10:30	2L o/c
	35F	4 1/2' / 13'	1:20:30	1:24	1:24	1:28	4m OK
		6 1/2'	1:20:10	1:21:10	1:21:10	1:22:55	2 min
5/23/03	35D	3' 8" / 14.5' V	1:46:40	1:49:40	1:49:40	1:55:40	5 O.K.
		→ Dry					

REMARKS

TYPE OF SOIL

TESTED BY

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

INLET DEPTH

MAXIMUM BOTTOM DEPTH

ALSO PRESENT

TRENCH WIDTH

SQ. FT./BEDROOM

COUNTY #
SOIL PROFILE

0'
Br Cl Loam
2'
Br Loam
~30% Rock
5'
Br Sa Loam
~50% Rock
9.5'
Hard Bottom

(822)

Br Loam and Topsoil
2-2.5'
Br Sa Loam
15-20% Rock

Packet of
750% Rock

(823)

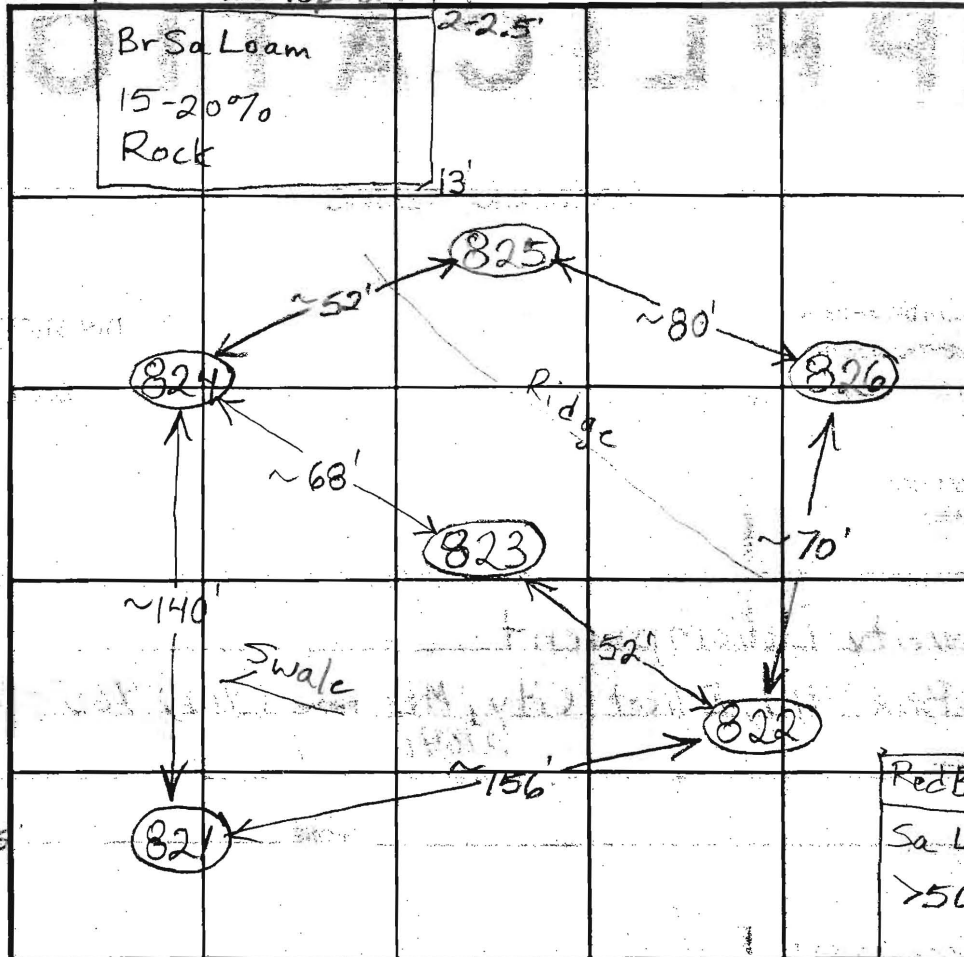
Br Cl Loam and Topsoil
2'
Red Br Loam and Dense Sa Loam
3'

Light Br and Or Br Sa Loam
25-30% Rock

(821)

Br Loam and Topsoil

Br Sa Loam
15-20% Rock



SOIL PROFILE

0'
(825)
Red Br Loam and Topsoil
2-3'
Mixture of Red Br Loam and Sa Loam
30-40% Rock
6'
Light Br Sa Loam
~40% Rock
12'
Hard Bottom

(824)

Red Br Cl Loam
2.5-3.5'
Sa Loam
>50% Rock
5.5'
Hard Bottom

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
12/18/03	826	9.5' V	Not	Shelved			(F)
	822	3' / 13' V	9:41:45	9:44:45	9:44:45	9:51:15	6 1/2 O.K.
		6'	9:40	9:41:40	9:41:40	9:43:50	~2
	823	3' / 12.5' V	9:55:30	9:57:50	9:57:50	10:12:30	15 O.K.
		6'	9:56	9:58:30	9:58:30	10:04	5 1/2
	825	3.5' / 12' V	10:13	10:16	10:16	10:21	5 O.K.
		6.5'	10:12:45	10:15	10:15	10:18	3
	824	5.5' V					(F)
	821	4' / 13' V	10:42:30	10:45	10:45	10:49	4 O.K.
		6.5'	10:43	10:44:30	10:44:30	10:47:30	3

REMARKS Shallow System

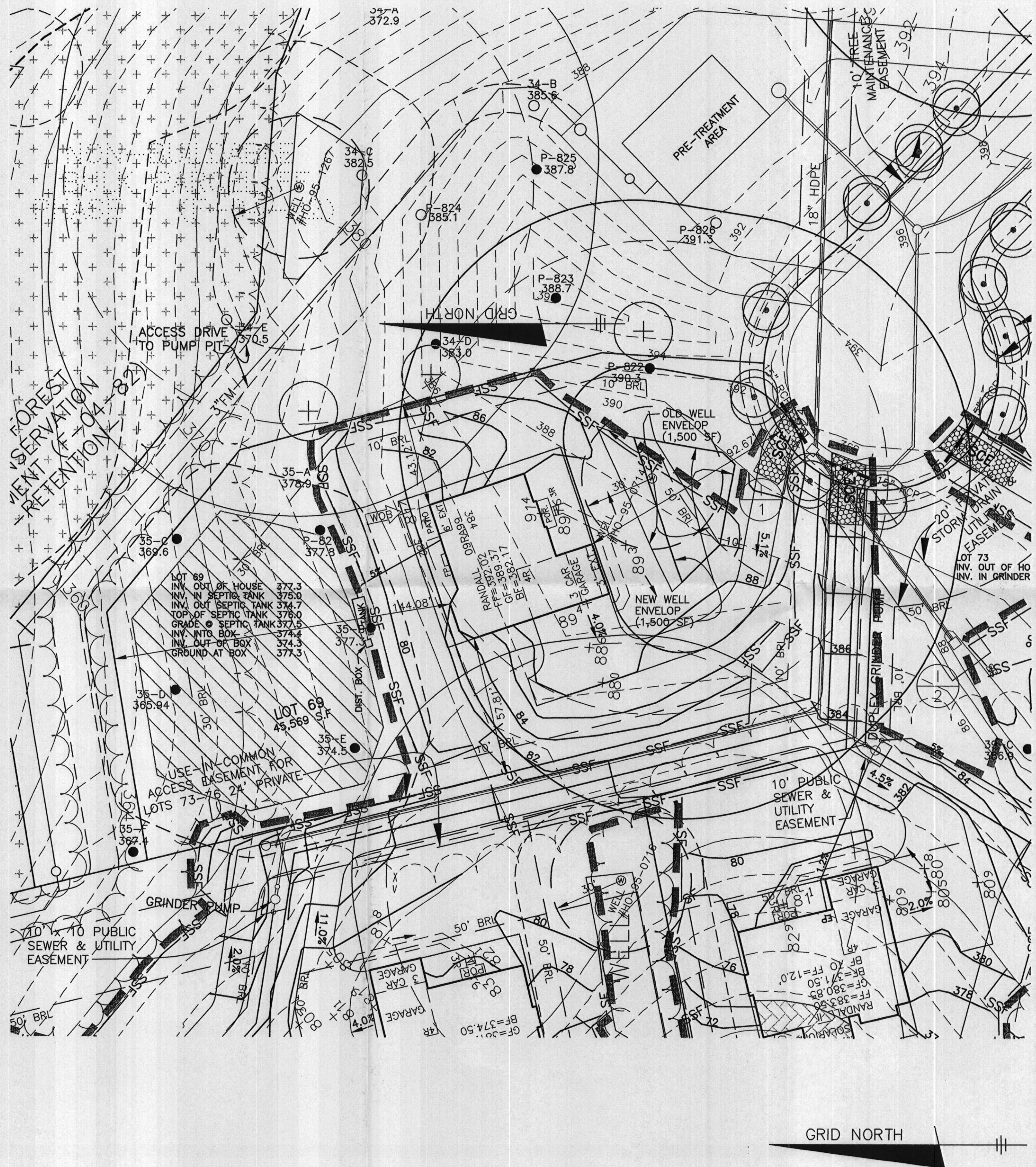
TYPE OF SOIL

TESTED BY B. Baker

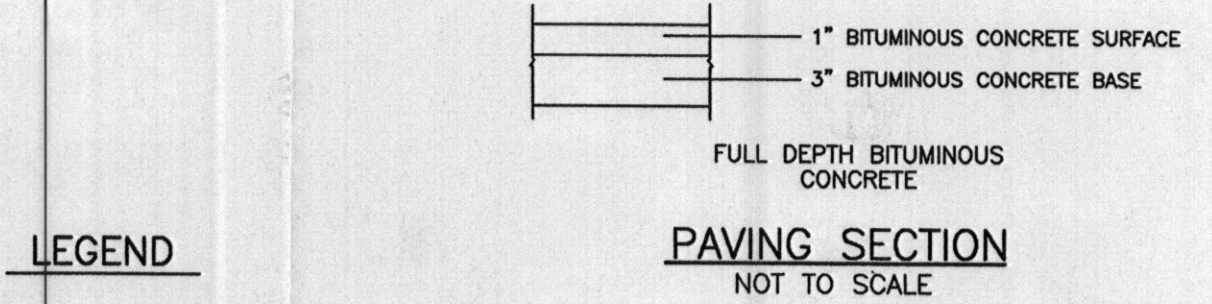
ALSO PRESENT

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH



- NOTES:**
1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR RIVERWOOD, PLAT No. 19724. 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. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER A GRADING PLAN AND MODIFIED FOR THIS SPECIFIC HOUSE.
 4. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND HAS BEEN FIELD VERIFIED BY J.A. RICE, INC., ON OR ABOUT SEPTEMBER 2002.
 5. EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
 6. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
 7. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 8. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS.
 9. SEPTIC TANK FOR THIS LOT TO BE 2,000 GALLONS.
 10. THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-0714, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.
 11. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
 12. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 13. STORMWATER MANAGEMENT FOR THE REAR HALF OF THE HOUSE IS PROVIDED BY SHEET FLOW TO CONSERVATION AREAS.
 14. THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO REVISE THE WELL BOX FOR THE DRIVEWAY AND HOUSE PLANNED FOR THIS LOT.



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 6-20-11
PLAN PREPARER
JOHN M. CARNEY FOR BENCHMARK ENGINEERING, INC.

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

Michael J. Davis 6/20/11
COUNTY HEALTH OFFICER 9w 1700 DATE

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 BEI@BEI-CIVILENGINEERING.COM	
OWNER/BUILDER: CAMBERLEY HOMES, INC. 6905 ROCKLEDGE DRIVE SUITE 800 BETHESDA, MD 20817 PHONE: 301-803-4800 FAX: 301-803-4929	PROJECT: RIVERWOOD LOT 69 LOCATION: 11240 WHITHORN WAY ELLICOTT CITY, MD 21042 TAX MAP No. 29 - BLOCK Nos. 3, 4, 9 & 10 - PARCEL No. 20 3rd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TITLE: REVISED PERCOLATION CERTIFICATION AND BUILDING PERMIT PLAN HOUSE TYPE: RANDALL DATE: JUNE 20, 2011 PROJECT NO. 1950 SCALE: 1" = 30' DRAWING 1 OF 1
DESIGN: JMC DRAFT: JMC	



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-95-0714, 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 7/15/08
PLAN PREPARER
JOHN M. CARNEY FOR BENCHMARK ENGINEERING, INC.

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

Michael J. Carney 7/16/08
COUNTY HEALTH OFFICER DATE

LEGEND

- EXISTING CONTOURS
- ESTABLISHED UNDER F-04-082
- FIELD SURVEYED WELL LOCATION
- PASSED PERCOLATION TEST PER CERTIFICATION PLANS
- FAILED PERCOLATION TEST PER CERTIFICATION PLANS
- FAILED SAND MOUND TEST PER CERTIFICATION PLANS

BENCHMARK
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418
ELLCOTT 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 69

11240 HWHITHORN WAY, 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 15, 2008	PROJECT NO.	1950
SCALE:	1" = 50'	DRAWING	1 OF 1

