

COUNTY #

SOIL PROFILE

0' 228

orange
brn
cllm

3'
dark
brn
salm
pockets
of
decayed
feldspar
&
mica

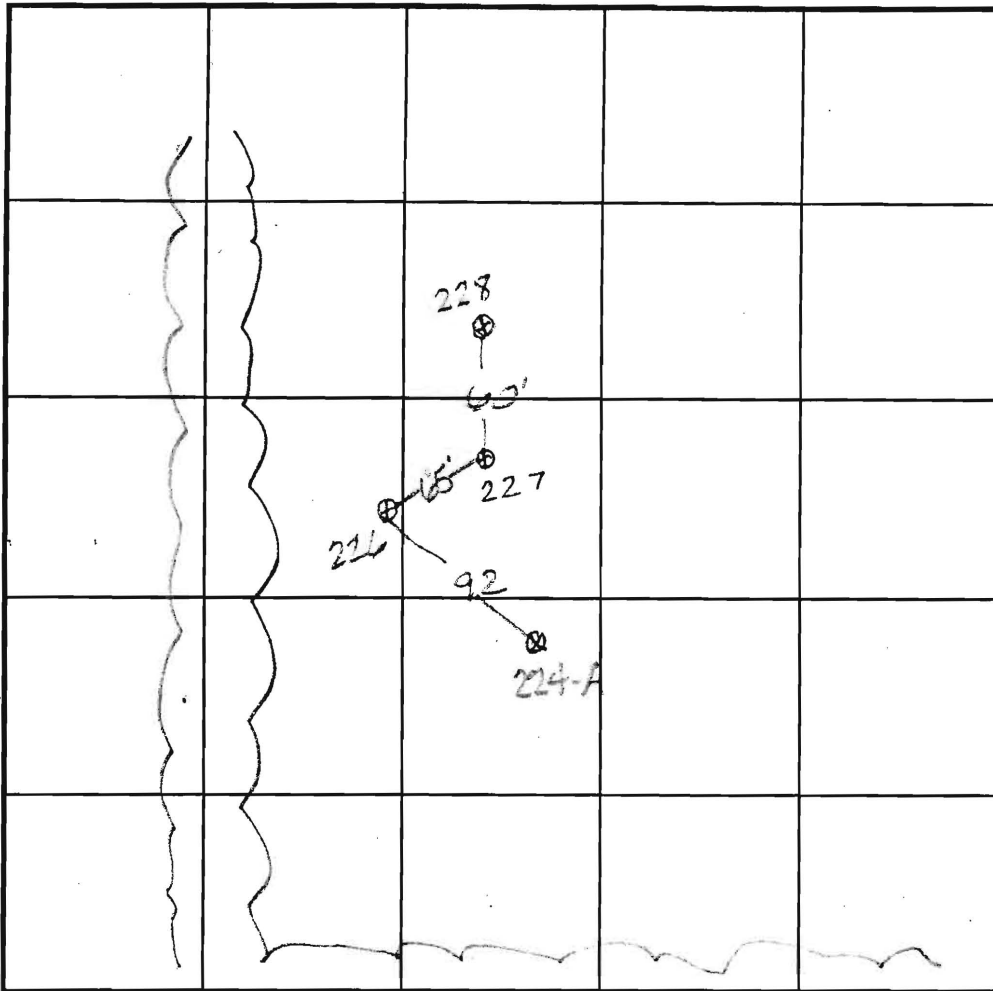
227

1/2'
lgt
br. brn
cllm

1/2'
lgt
br
salm
small
pockets
of
decayed
feldspar

14 1/2' 226

Visual
to
13'
like
227



SOIL PROFILE

0' 224-A

dark
brn
salm

2 1/2'
lgt
brn
salm
40%
of hole
decayed
feldspar
salm
no
rock

12 1/2'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
5-28-03	228	5'	5:17	5:19	5:19	5:21	2min	F
	228	7'	5:18	5:21	5:21	5:24	3min	F
	227	7'	5:23	5:26	5:26	5:30	4min	F
	226	7'	5:26	5:31	5:31	5:36	5min	P
	224A	3 1/2'	5:27	5:36	5:36	5:50	1-hour	P
	224A	6 1/2'	5:27	5:39	5:39	5:54	15min	P

REMARKS Test holes opened @ 1:30 pm

TYPE OF SOIL

TESTED BY Amy Hart

TRENCH DESIGN DATA: AVG. PERCOLATION TIME

INLET DEPTH

MAXIMUM BOTTOM DEPTH

ALSO PRESENT

TRENCH WIDTH

SQ. FT./BEDROOM

John Carney

13'

516084

COUNTY #

SOIL PROFILE
83E

Strong brn
hvy SLM
Rx trace 6'

Loam-SLM
micaceous
turning to
Sa Ldm
Rx, pebbles
Saprolite
15-20%
possible mottles
Bottom at 14'

83C

strong brn
wk rd brn
Dense
CLM
Trace Rx 4'

W. Jail
7.5'

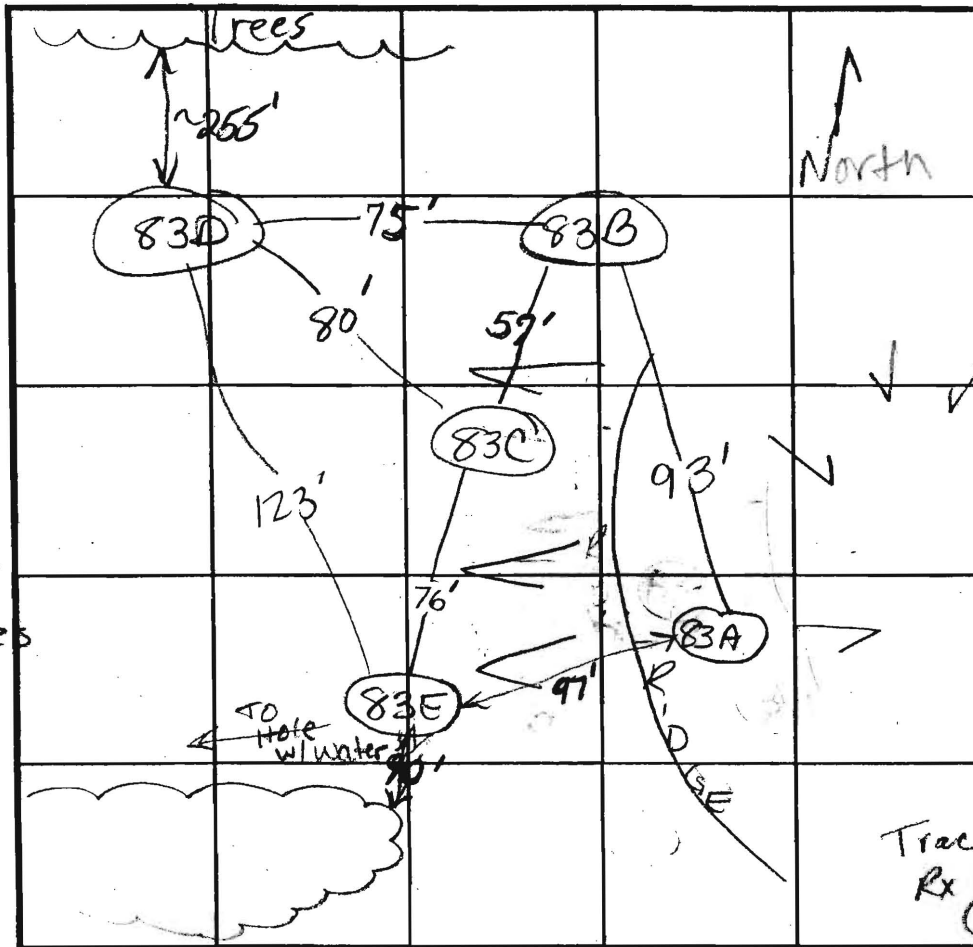
S.LM
↓?
strong brn
Loam
Rx 5-10%

Bottom 14'

83D

Topsoil 15"

pure, fine
white
lt y brn
SAND
13.5'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE
83D

hvy Lm-CLM
Lmy SAND
Bottom 14'

83A
hvy SLM
wk rd brn

Coarse brn
OK brn
micaceous
SAND
Bottom 14'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
6-21-02	83E	6'3" / 14'	3:15:07	3:31:29		3:52:18	21 min
	83C	6'12" / 14'	3:27:00	3:28:30		3:30:30	2 min
	83C	6'8" / 14'	3:35:57	14' @ 3:54	to second peg.		stop (F)
	83B	7' / 13 1/2'	3:43	3:43:58		3:45:45	2 min OK
	83D	6' / 14'	3:51:54	3:55:54		4:05	9 min
	83A	6' 1/2" / 14'	4:00:28	4:01:30		4:02:45	1:15 (F)
	Repair 12x12	6.5'	4:05:00	4:06:11		4:07:34	1:20

REMARKS

TYPE OF SOIL 83E - possible WS hole

TESTED BY B. Baker / K. Noonan

ALSO PRESENT

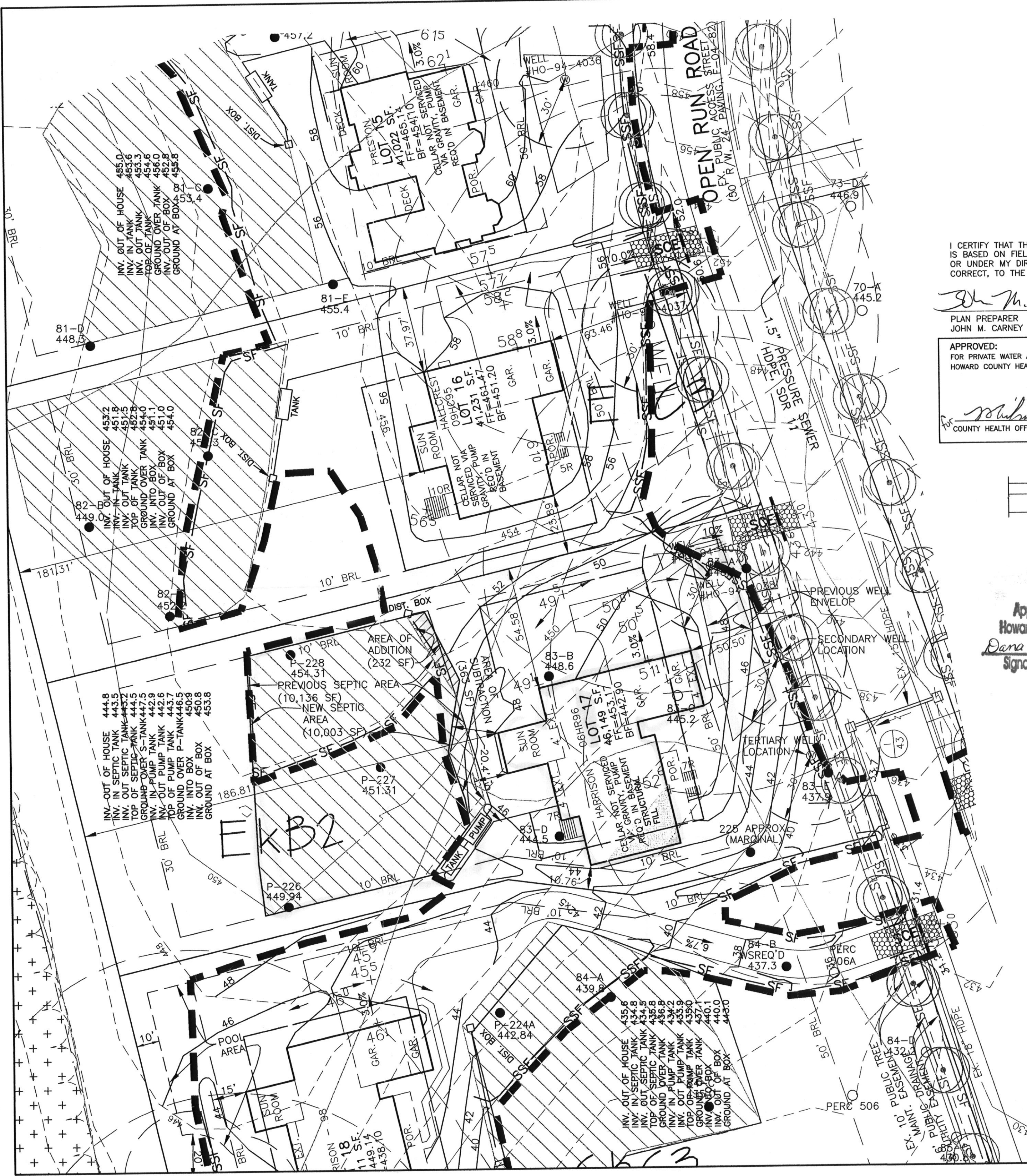
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

13.5' INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM



NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR RIVERWOOD, PHASE 1, PLAT No. 18037. 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 GP-05-31 AND MODIFIED FOR THIS SPECIFIC HOUSE.
4. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS.
5. EXACT LENGTH OF SEPTIC TRENCHES ARE TO 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-94-4038, 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.

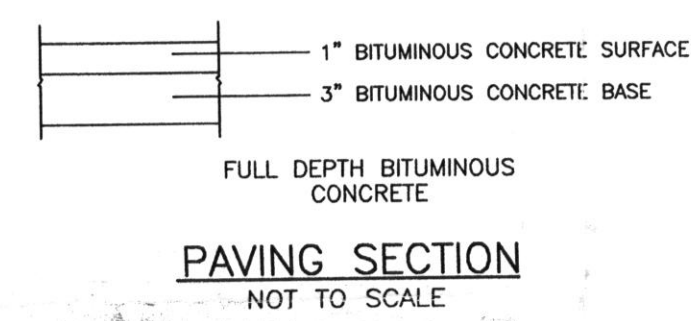
John M. Carney 7/28/08
 PLAN PREPARER
 JOHN M. CARNEY FOR BENCHMARK ENGINEERING, INC.

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

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

LEGEND

- EXISTING CONTOURS ESTABLISHED UNDER F-04-082
- FIELD SURVEYED WELL LOCATION
- PASSED PERCOLATION TEST PER TEST NOTES
- FAILED PERCOLATION TEST PER TEST NOTES
- FAILED SAND MOUND TEST PER TEST NOTES
- EXISTING APPROVED SEPTIC RESERVE AREA
- PROPOSED RESERVED SEPTIC RESERVE AREA



Approved Septic System Plan
 Howard County Health Department
Dana Bernard 8-8-08
 Signature Date



NO.	DATE	REVISION

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
 EMAIL: benchmark@ceis.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 17
LOCATION: 12052 OPEN RUN ROAD ELLICOTT CITY, MD 21042 TAX MAP No. 29 - BLOCK Nos. 3, 4, 9 & 10 - PARCEL No. 20 3rd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	TITLE: PERMIT PLAN AND REVISED PERCOLATION CERTIFICATION PLAN
HOUSE TYPE: HARRISON	DATE: JUNE 19, 2008 JULY 28, 2008
DESIGN: JMC	DRAFT: JMC
SCALE: 1" = 30'	PROJECT NO. 1950 DRAWING 1 OF 1

