

516084
COUNTY #

SOIL PROFILE
(58D)

Strong org brn Loam Rx 55% 4 1/2'
SLoam Rx 45%
pockets of beige loam
micaceous Mn aggregate & lateral 1/4'

(58E)

Coarse Loam sm frag 15% 3 1/2'
Strong org
gravelly coarse fine sand or silt micaceous
Gravel 25-35%
Bottom 1/3'

(58B)

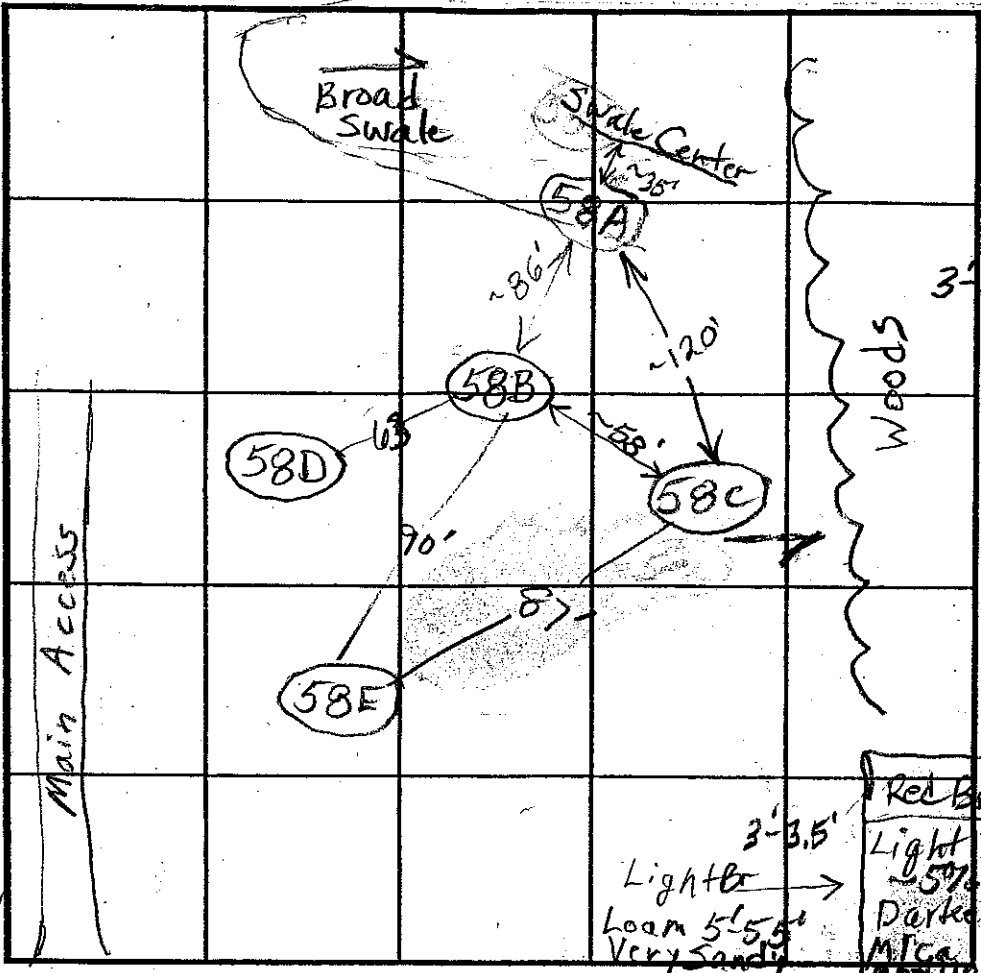
Strong rd brn heavy LM trace 5 1/2'
micaceous white Sand
Saprolite 5-10%

SOIL PROFILE
(58C)

Red Br Heavy Loam 3-4'
Light Br SaLoam
5-10% Saprolite
Micaceous mottling Not clearly Evident

(58A)

Red Br Heavy Loam
Light Br SaLoam
5% Saprolite
Darker Colored Mica suggests mottling below 10' water



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
Homewood Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7/17/02	58D	3.5' / 14" V	2:14	2:16	2:16	2:21	5 min
	58E	4' / 13" V	2:28 ⁰⁰	2:29 1/2	2:29 1/2	2:31 ⁰⁰	17 min
		7' / 13	2:28 ⁰⁰	2:32		2:37	5 min
	58B	7' / 14	2:38 ³⁰	2:39 ⁰⁰		2:39 ³⁰	30 sec
	Repour	7'	2:41 ⁰⁰	2:41 ⁵⁵	2:41 ⁵⁵	2:43 ⁵⁵	2 min
	58C	4' / 14.5" V	11:23	11:27:30	11:27:30	11:35:30	8
		7'	11:23	11:23:30	11:23:30	11:24:10	40 sec
	12" x 12"	7'	11:29	11:29:35	11:29:35	11:30:25	50 sec
	Repour	7'	11:36:15	11:37:20	11:37:20	11:38:30	70 sec
	58A	4.5' / 14" V	11:47	12:04	12:04	~15/16"	1:30 min
		7' / 14" V	11:46	11:46:30	11:46:50	11:47:15	45 sec

REMARKS: Holes Dug Per Plan Wet Season Testing
 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 _____

OK
OK
OK
OK
F
F

516084

COUNTY #

SOIL PROFILE

(186)

Red Br Loam

4'

Tan Sa Loam

~10% Rock and Saprolite

(188)

Red Br Heavy Loam

3.5'-5'

Med Red Br Sa Loam

A few Large Rocks Scattered Throughout ~20% Rock and Saprolite Pocket of >50% Rock From 10'-13' 14'

(187)

Red Br Heavy Loam

2.5'-3'

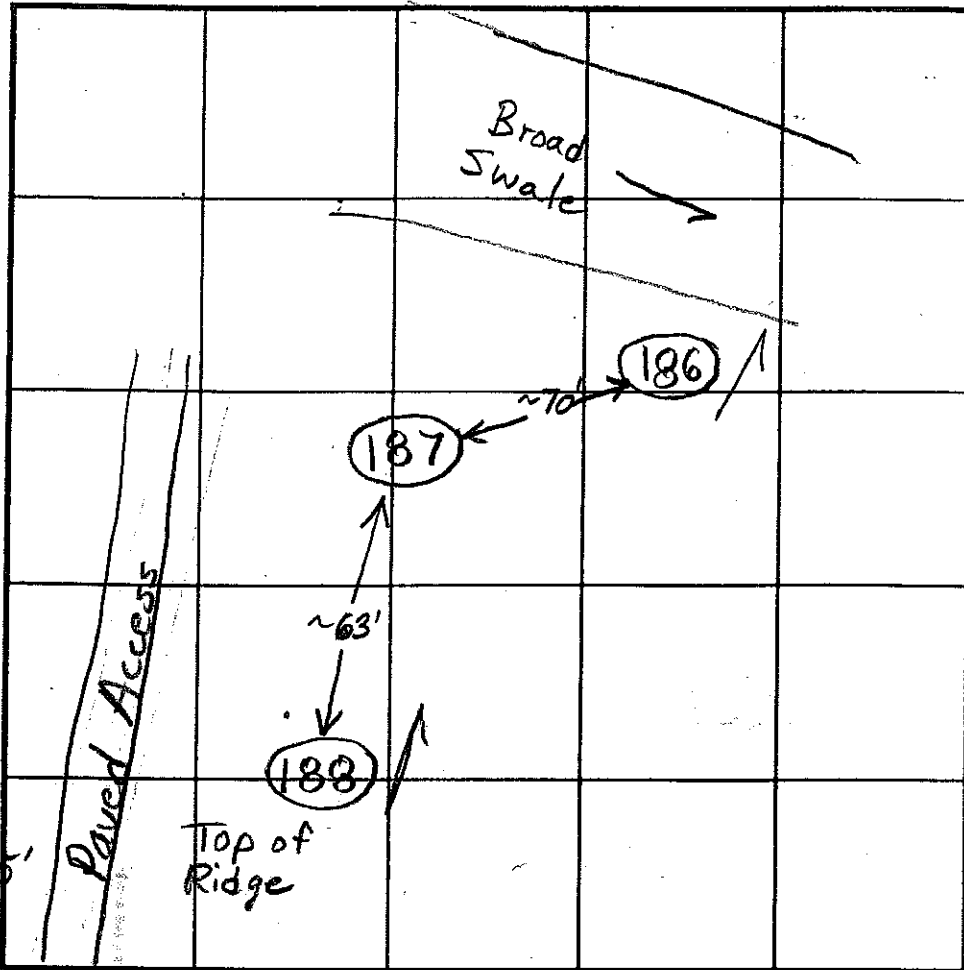
Red Br Loam

4'-5'

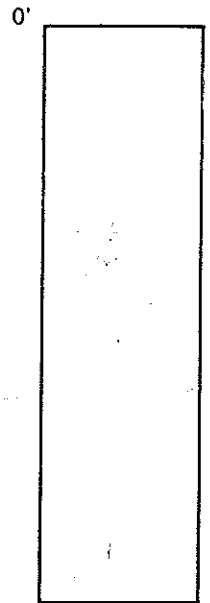
Beige and Tan Sa Loams

Some Si Loam Layers Down to 8'

~20% Rock and Saprolite 14.5'



SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Homewood Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
10/22/02	186	4.5'/13.5'	2:03	2:04:10	2:04:10	2:06:45	2 1/2	OK
		7'	2:03:15	2:04:05	2:04:05	2:05:45	1/min 40sec	
	188	5.5'/14'	2:52:45	2:54:20	2:54:20	2:57	~2 1/2	OK
	Shallow System	7'	2:52:45	2:55:45	2:55:45	3:01:15	5 1/2	
	187	6'/14.5'	3:13	3:14:30	3:14:30	3:18	3 1/2	OK
		7.5'	3:13:15	3:22	3:22	3:38:30	16 1/2	
		4.5'	3:20	Little Movement in 15 minutes			slow	

REMARKS 188 is O.K. for system with 6' bottom

TYPE OF SOIL

TESTED BY B. Baker

ALSO PRESENT Hatfields

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SO. FT/BEDROOM

516084
COUNTY #

SOIL PROFILE

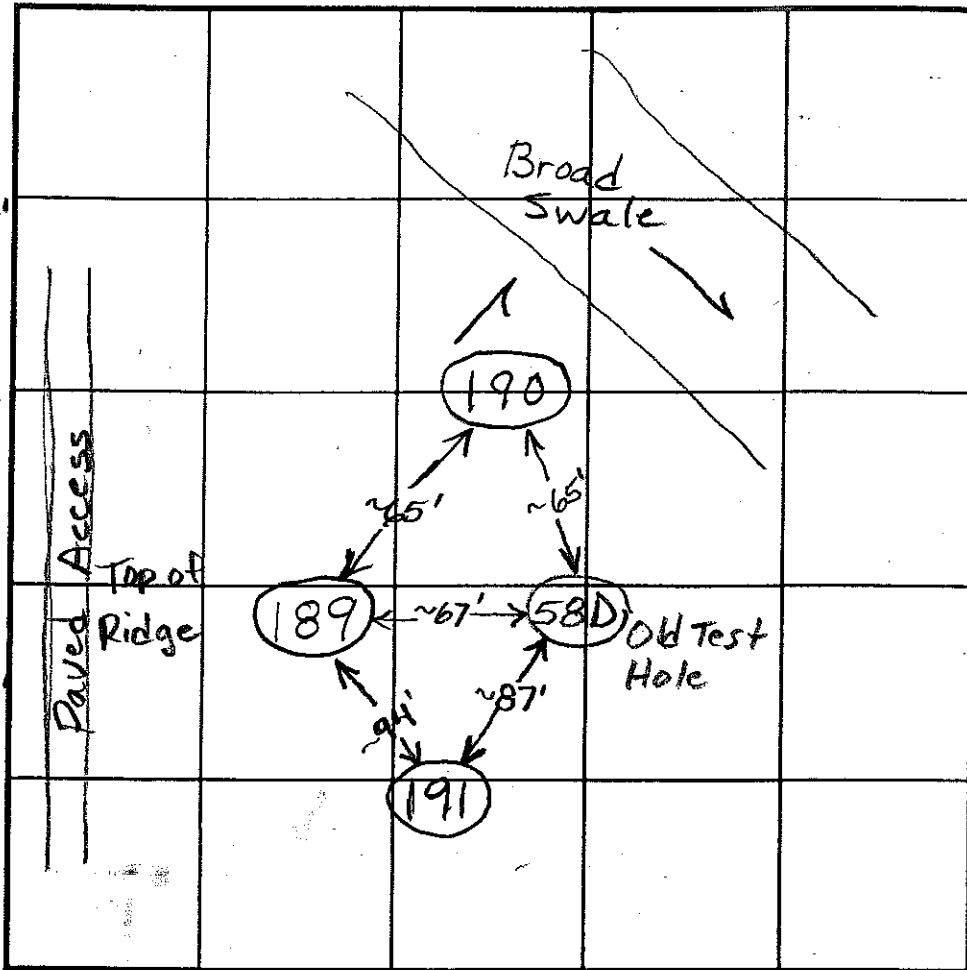
0' (190)
Red Br Loam 2.5'
Light Br Sa Loam
~10% Rock and Saprolite 14.5'

(189)

Red Br Loam 2.5'
Tan Sa Loam
~10% Rock and Saprolite 14'

(191)

Red Br Gravelly Heavy Loam 2'-5.5'
or Red Br Sa Loam
~30% Rock and Gravel
A few large pockets of ~50% Rock Below 7.5' 15.5'



SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Homewood Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
10/22/02	190	3.5' / 14.5'	2:17:30	2:18:50	2:18:50	2:21:30	~2 1/2	
		6.5'	2:18	2:19:10	2:19:10	2:21:10	2	
	189	3.5' / 14'	2:29	2:32	2:32	2:38	6	
		6'	2:28:45	2:30:15	2:30:15	2:32:25	~2	
10/23/02	191	4' / 15.5'	9:56:30	10:01:40	10:01:40	10:08	~8 1/2	
		7.5'	9:57	9:58:10	9:58:10	10:00:20	~2	
		Bottom	Not Extremely Fast					
			Probably O.K. for Shallow System					

REMARKS: Easement May Be Less Than 25' to >25%
 TYPE OF SOIL: Slopes, Need Field Run Topo.
 TESTED BY: B. Baker ALSO PRESENT: Hatfields
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
 INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

516084
COUNTY #

SOIL PROFILE

(190)

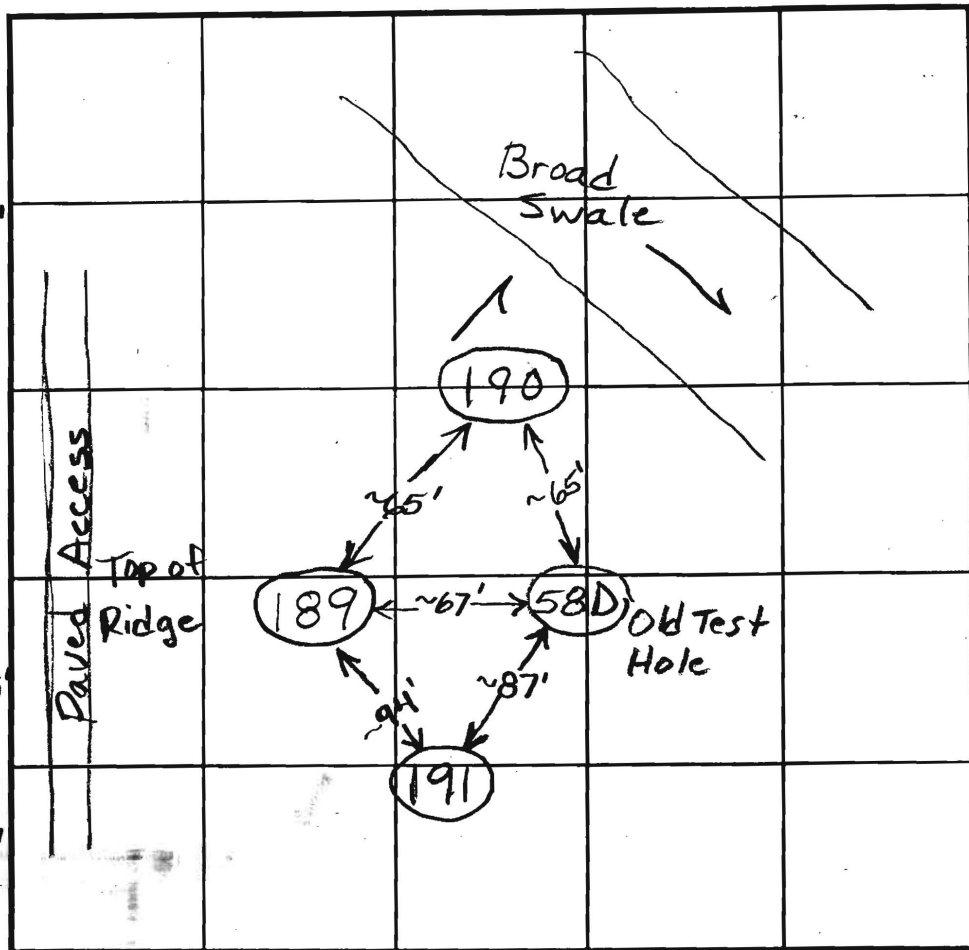
Red Br
Loam
2.5'
Light Br
Sa Loam
~10%
Rock and
Saprolite
14.5'

(189)

Red Br
Loam
2.5'
Tan Sa
Loam
~10%
Rock
and
Saprolite
14'

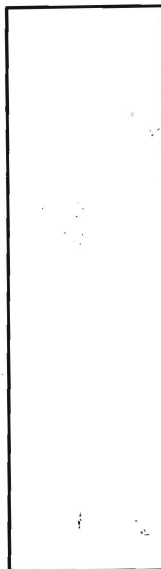
(191)

Red Br
Gravelly
Heavy Loam
2'-5.5'
Or Red Br
Sa Loam
~30%
Rock and
Gravel
A few large
pockets of
~50% Rock
Below 7.5'
15.5'



SOIL PROFILE

0'




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			START	STOP	START	STOP			
10/22/02	190	3.5' / 14.5'	2:17:30	2:18:50	2:18:50	2:21:30	~2 1/2	OK	
		6.5'	2:18	2:19:10	2:19:10	2:21:10	2		
	189	3.5' / 14'	2:29	2:32	2:32	2:38	6	OK	
		6'	2:28:45	2:30:15	2:30:15	2:32:25	~2		
10/23/02	191	4' / 15.5'	9:56:30	10:01:40	10:01:40	10:08	~8 1/2	OK	
		7.5'	9:57	9:58:10	9:58:10	10:00:20	~2		
		Bottom Not Extremely Fast							
		Probably o.k. for Shallow System							

REMARKS: Easement May Be Less Than 25' to >25%
 TYPE OF SOIL: Slopes, Need Field Run Tops.
 TESTED BY: B. Baker ALSO PRESENT: Hatfields
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
 INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

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-94-4060, 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.

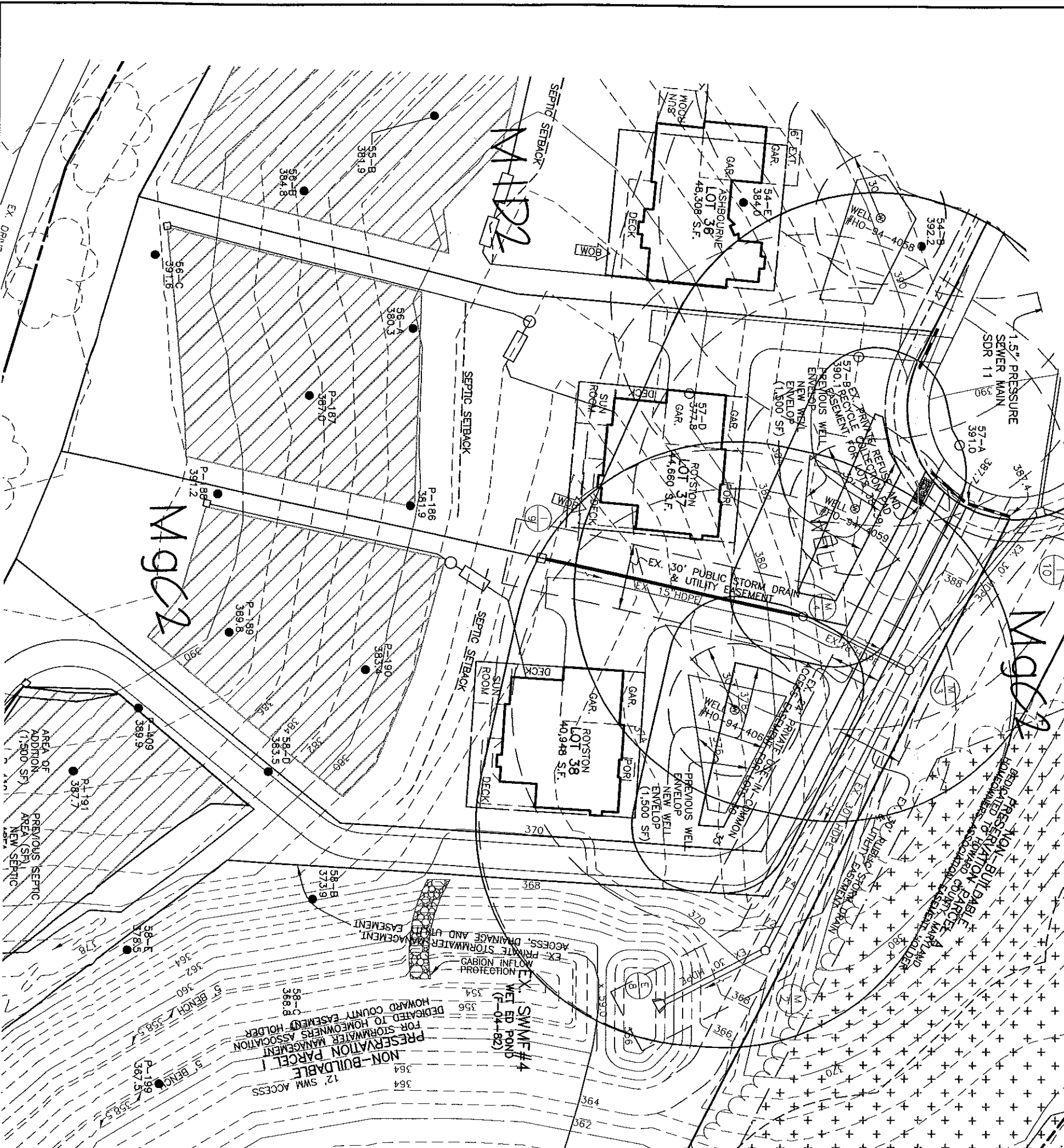
John M. Carney 6/18/08

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





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

Benjamin for Peter Bildeisen 7/14/08
COUNTY HEALTH OFFICER

DATE



LEGEND

-  EXISTING CONTOURS ESTABLISHED UNDER F-04-082
-  FIELD SURVEYED WELL LOCATION
-  7001A 402.8 PASSED PERCOLATION TEST PER P-03-010
-  62-A 397.10 FAILED PERCOLATION TEST PER P-03-010



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

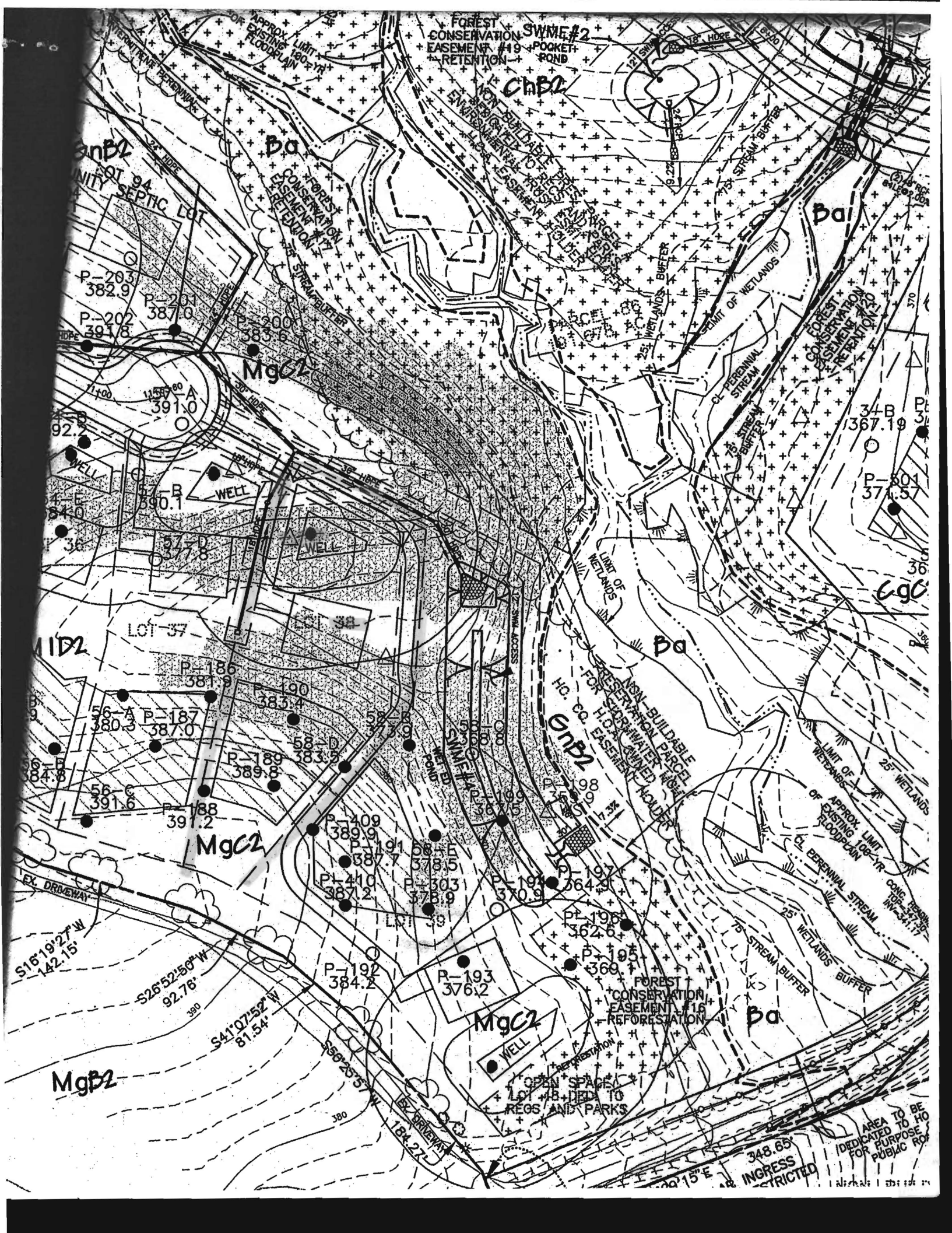
BUILDER:
CAMBERLEY HOMES, INC.
6905 ROCKLEDGE DRIVE
SUITE 800
BETHESDA, MARYLAND 20817
301-803-4929

**RIVERWOOD
LOT 38**

11238 KINSALE COURT, 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:	JUNE 16, 2008	PROJECT NO.	1950
SCALE:	1" = 50'	DRAWING	1 OF 1



FOREST CONSERVATION EASEMENT #19 RETENTION POCKET SWME #2

ChB2

MgB2

Ba

Ba1

MgC1

EgC

MgB2

Ba

GnB2

MgC2

MgC2

MgB2

INGRESS RESTRICTED

AREA TO BE DEDICATED TO HO FOR PURPOSE PUBLIC ROA