

516084  
COUNTY #

SOIL PROFILE  
52A

0' ybrn  
brn  
hvy, micaceous  
Lm  
1/3  
lt org brn  
tan  
ybrn  
fine  
Lm  
SAND  
Rx 25%  
Bottom

53D

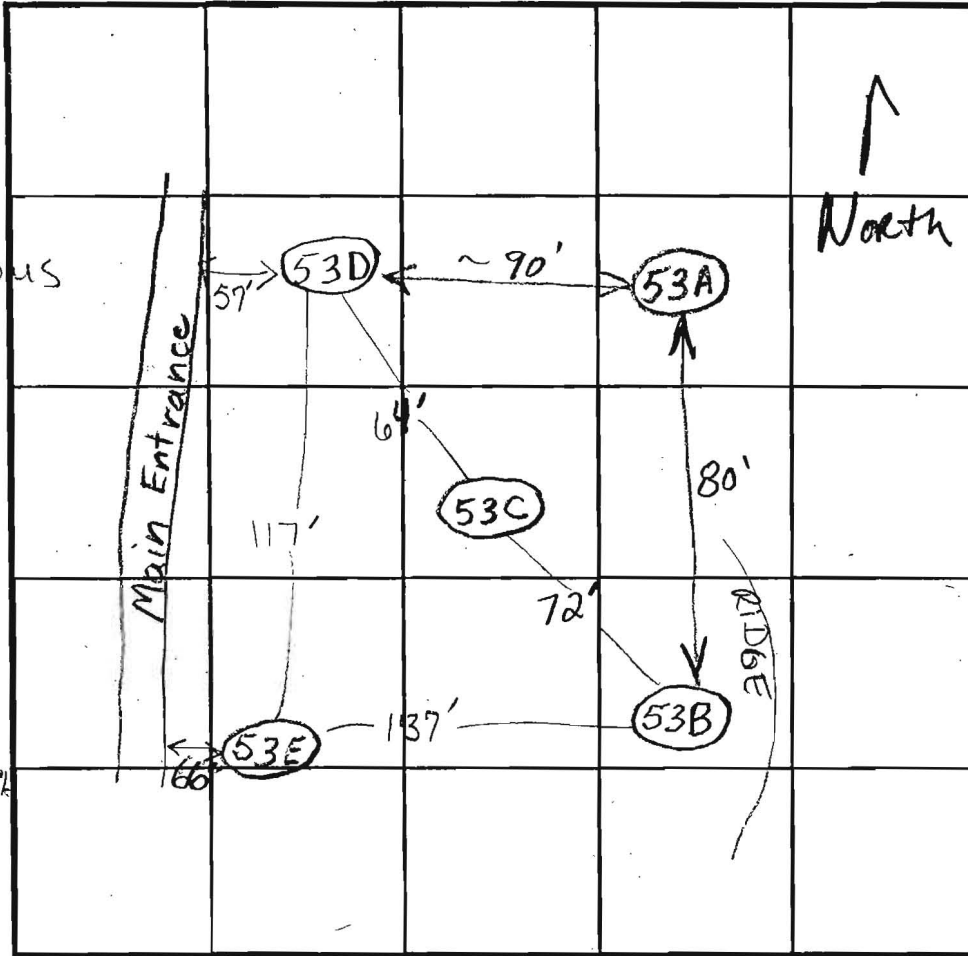
org brn  
strong brn  
CL Lm  
Rx 5%  
2 1/2  
Rx < 5%  
micaceous  
Si Lm  
5'

white  
beige  
sand w/  
pockets  
of s loam  
Rx 5-70%  
Bottom  
14'

53C

hvy dk  
brn  
Lm  
strong  
rd  
brn  
CL  
Dep 100  
5%  
4 1/2

white  
beige  
sand  
20-30%  
Rx  
5m frags  
Bottom  
16'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE  
53B

0' strong  
red, Dense  
SCLM 4 1/2"  
Pebbles  
20-30%  
5 1/2' Sa Cl Lom  
30-40%  
7' 30-40% Frags  
coarse  
sand -  
Lm SAND  
↑  
tiny  
bit-o  
clay  
Bottom  
14'

53E

DKY Brn  
hvy Lm  
DKY brn  
tan  
beige Lm  
Lm SAND  
MED Brn  
Rx < 10%  
Bottom  
13 1/2'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5-15-02	53A	6' 4" / 13'	3:31:31	3:32:14	3:32:14	3:33:45	1' 30" OK
		4' 3" / 5'	3:31:52	3:36:52	3:36:52		28min OK
5-16/02	53D	4' 2"	9:46:20	9:49:35		9:53:52	4 1/2 min OK
		5' 1/2" / 14"	9:46:39	9:48:39		9:51:30	3min OK
	53C	6' / 16"	9:52:50	9:54:50		9:57:45	3 min OK
	53B	6' / 14" V	10:20	10:44	10:44	3/4" in 30 minutes	slow (F)
		2.5 gal @ 14" ≤		15 secs			
	53E	4' / 13 1/2"	10:20:00	10:22:39		10:26	4min OK

REMARKS: Holes per plan  
 TYPE OF SOIL: \_\_\_\_\_  
 TESTED BY: BB/KG ALSO PRESENT: Hatfields  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME: \_\_\_\_\_ TRENCH WIDTH: \_\_\_\_\_  
 INLET DEPTH: \_\_\_\_\_ MAXIMUM BOTTOM DEPTH: \_\_\_\_\_ SQ. FT/BEDROOM: \_\_\_\_\_

516084

COUNTY#

SOIL PROFILE

185

Red Br Heavy Loam

2.5' - 4.5'

Med Br Sa Loam and Si Loams Some Pockets of ~25% Rock

5.5'

Med Br and Tan Sa Loams ~15% Rock

15'

184

Red Br Gravel and Clay Loam

2.5' - 5'

Or Br Cl and Gravel Loam and Sa Loam ~30% Gravel

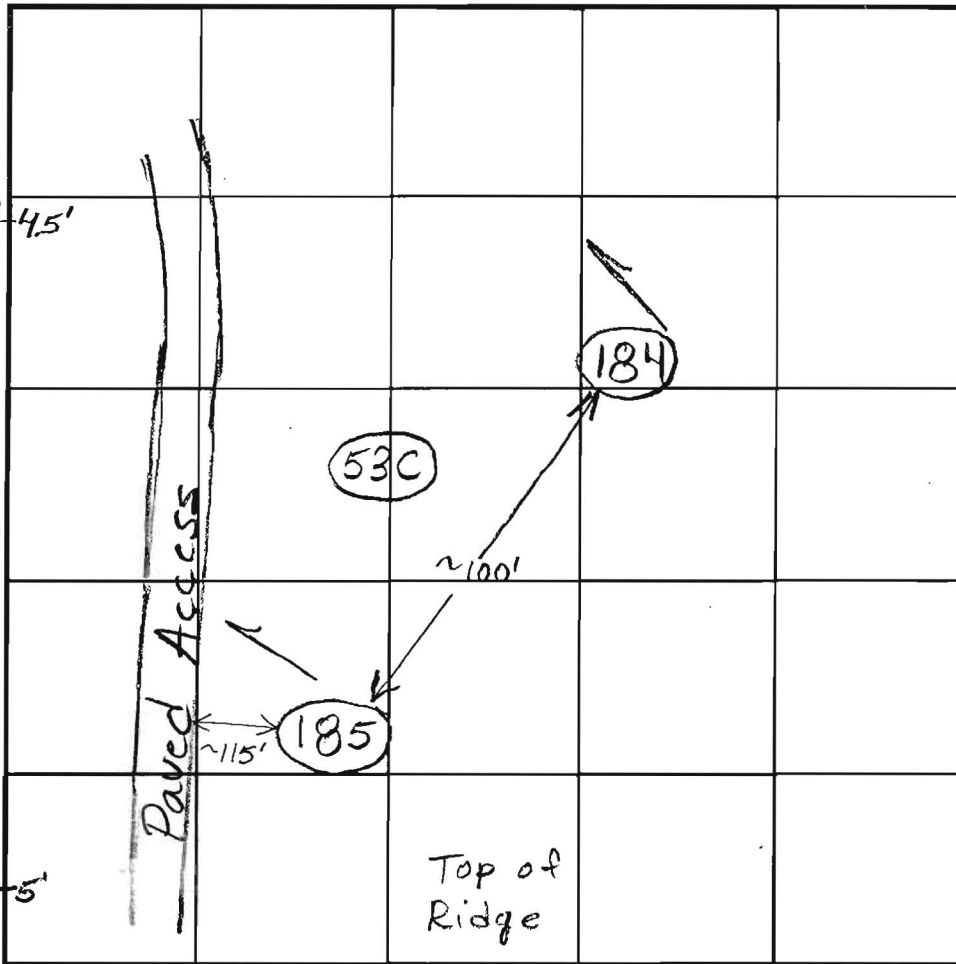
7.5'

Or Br Sa and Gravelly Loam ~36% Rock Small Pocket of ~50% Rock

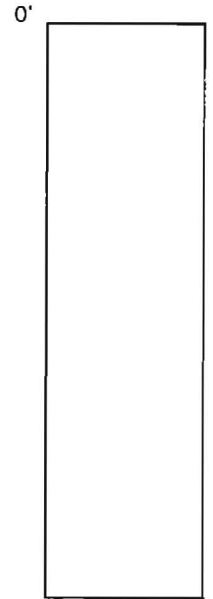
11'

Large Pocket of ~50% Rock

15'



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	185	4' / 15' V	9:43:30	9:51	9:51	10:08:30	17 1/2
		8'	9:44	9:48	9:48	9:54:30	6 1/2
	184	5.5' / 15' V	10:04:30	10:07:30	10:07:30	10:14	6 1/2
	shallow system only	7'	10:05	10:10	10:10	10:20	10

REMARKS 184 is Marginal

TYPE OF SOIL

TESTED BY B. Baker ALSO PRESENT Hatfields

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ FT/BEDROOM

OK

Marginal

COUNTY #

SOIL PROFILE

7002

Red Br  
Loam

4'

Red Br  
Si Loam  
Very Little  
Rock

5'-9"

Tan Sa  
Loam  
~10%  
Saprolite

13'

7003

Red Br  
Heavy Loam

4'

Red Br  
Si Loam  
Very Little  
Rock

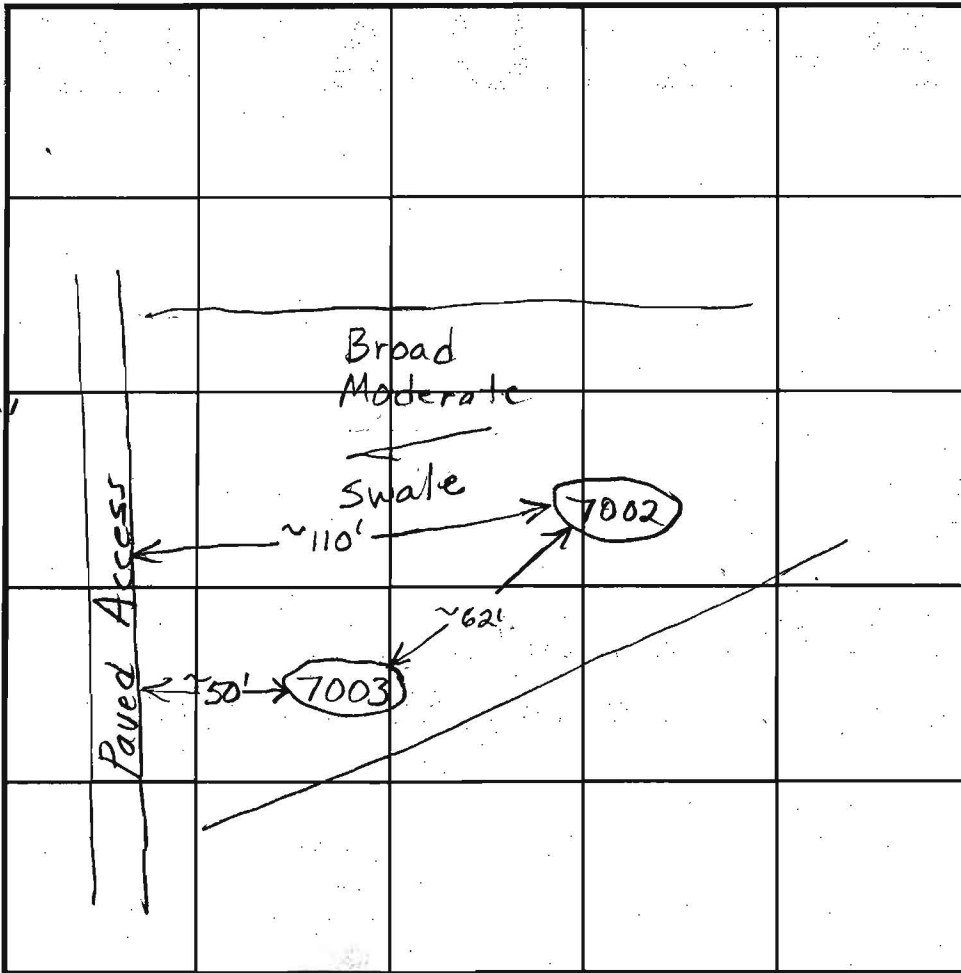
4.5'

Beige  
Sa Loam  
~20%  
Rock and  
Saprolite

13'

SOIL PROFILE

0'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

8'	DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
				START	STOP	START	STOP	
6/24/03	7002	6' / 13' V	1:14	1:20	1:20	1:27	7	
	7003	5' / 13' V	1:20	1:26:30	1:26:30	1:35:30	9	

REMARKS \_\_\_\_\_

TYPE OF SOIL \_\_\_\_\_

TESTED BY \_\_\_\_\_ ALSO PRESENT \_\_\_\_\_

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INITIAL DEPTH \_\_\_\_\_

COUNTY #

SOIL PROFILE

(7004)

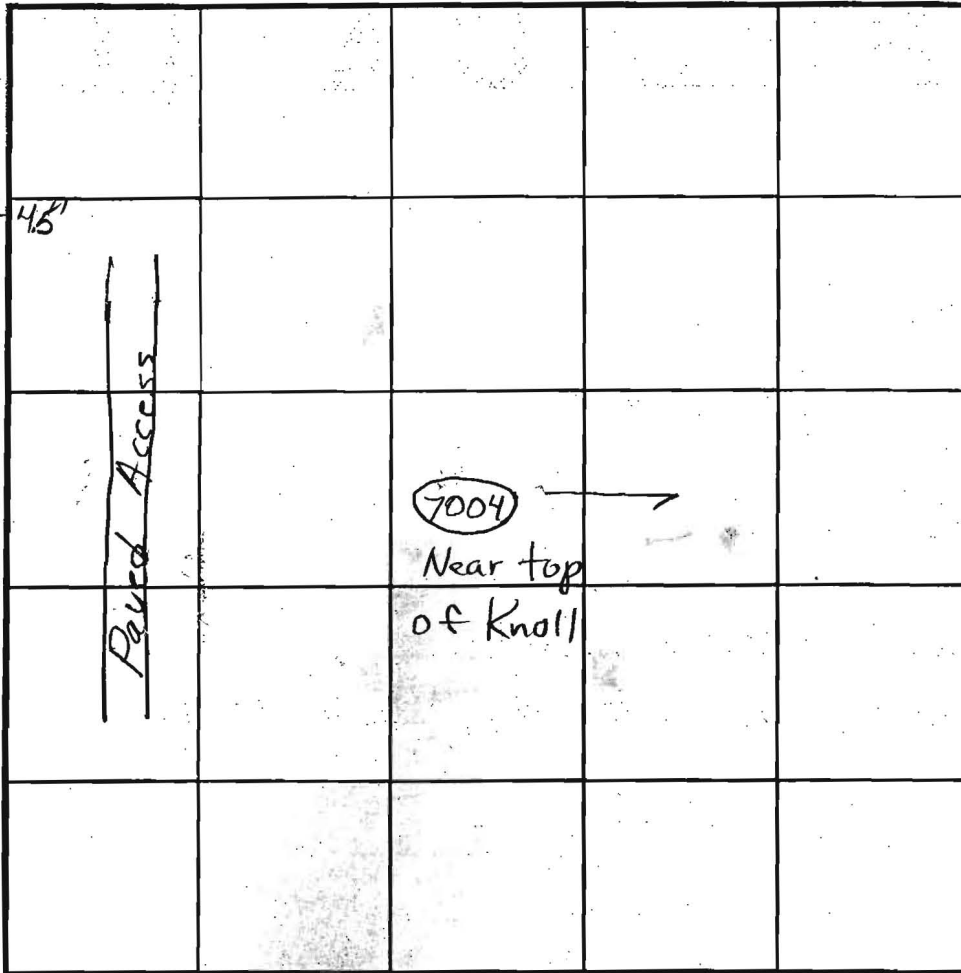
0' Red Br Loam 3.5' 4.5'

Or Br and Red Br Si Loam, Sa Loam and Gravelly Loam ~ 30% Rock and Gravel 9'

Berge Gravelly Loam 35-40% Rock and Gravel 14'

SOIL PROFILE

0'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
6/24/03	7004	5.5' / 14' V	1:55:30	1:58	1:58	2:02	4

REMARKS \_\_\_\_\_

TYPE OF SOIL \_\_\_\_\_

TESTED BY \_\_\_\_\_ ALSO PRESENT \_\_\_\_\_

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

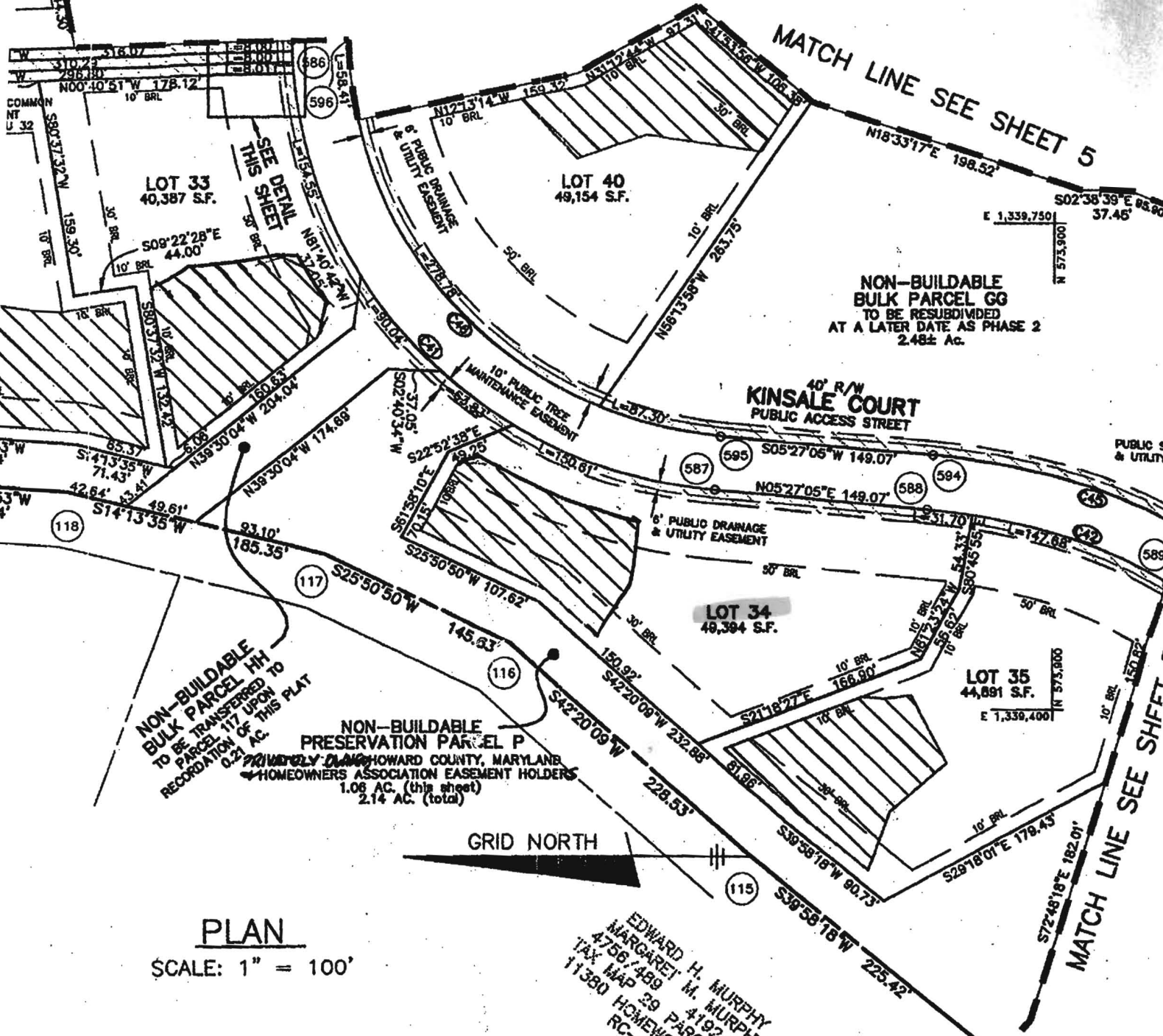
INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_



OPEN SPACE  
LOT 48  
DEDICATED TO  
RECS AND PARKS

BUILDABLE  
PARCEL II  
PURPOSE OF A  
FUTURE ROAD  
(TRANSFERRED  
#17 (SMH PRSP.))

SCALE: 1" = 50'



**PLAN**

SCALE: 1" = 100'

EDWARD H. MURPHY  
 MARGARET M. MURPHY  
 4756/489 4192/287  
 TAX MAP 29 PARCEL 303  
 11380 HOMWOOD ROAD  
 RC-DEO

F-04-82  
 Signed 1/17/26

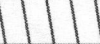
WETLANDS BEARINGS AND DISTANCES SEE SHEET 3

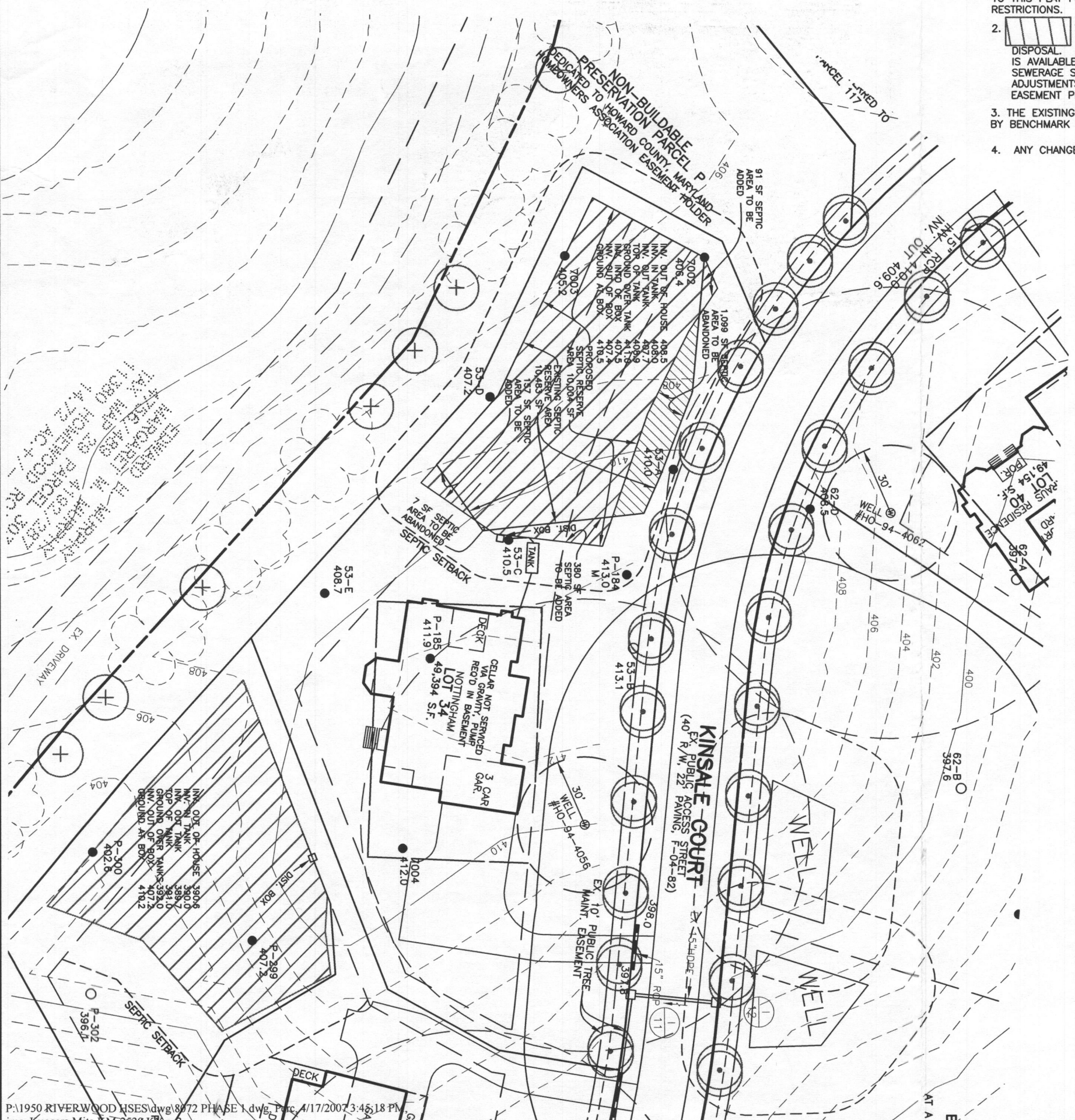
FOR 100-YEAR FLOODPLAIN BEARINGS AND DISTANCES SEE SHEET 2

**CERTIFICATION**  
 INFORMATION AND BELIEF, THAT

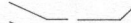



**OWNER'S DEDICATION**  
 I, LAWRENCE B. BURROWS, FOR WINCHESTER HOMES, INC., NOMINEE FOR ELIOAK, LLC, AND WINCHESTER HO... OF SUBMISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY... SUCCESSORS AND AS

**NOTES:**

1. THE LOT SHOWN HEREON WAS RECORDED ON 2-16-06 AS PLAT NUMBER 18034. REFER TO THIS PLAT FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND BUILDING RESTRICTIONS.
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. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
3. THE EXISTING WELL (TAG NO. HO-94-4056) SHOWN ON THIS PLAN HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. ON OR ABOUT 6-8-2005 AND IS ACCURATELY SHOWN.
4. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.



**LEGEND**

-  EXISTING CONTOURS ESTABLISHED UNDER F-04-082
-  FIELD SURVEYED WELL LOCATION
-  7001A 402.8 PASSED PERCOLATION TEST PER P-03-010
-  62-A 397.1 FAILED PERCOLATION TEST PER P-03-010



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

*Robert W. Weber* 4/23/07  
COUNTY HEALTH OFFICER DATE

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

**ENGINEERING, INC.**

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

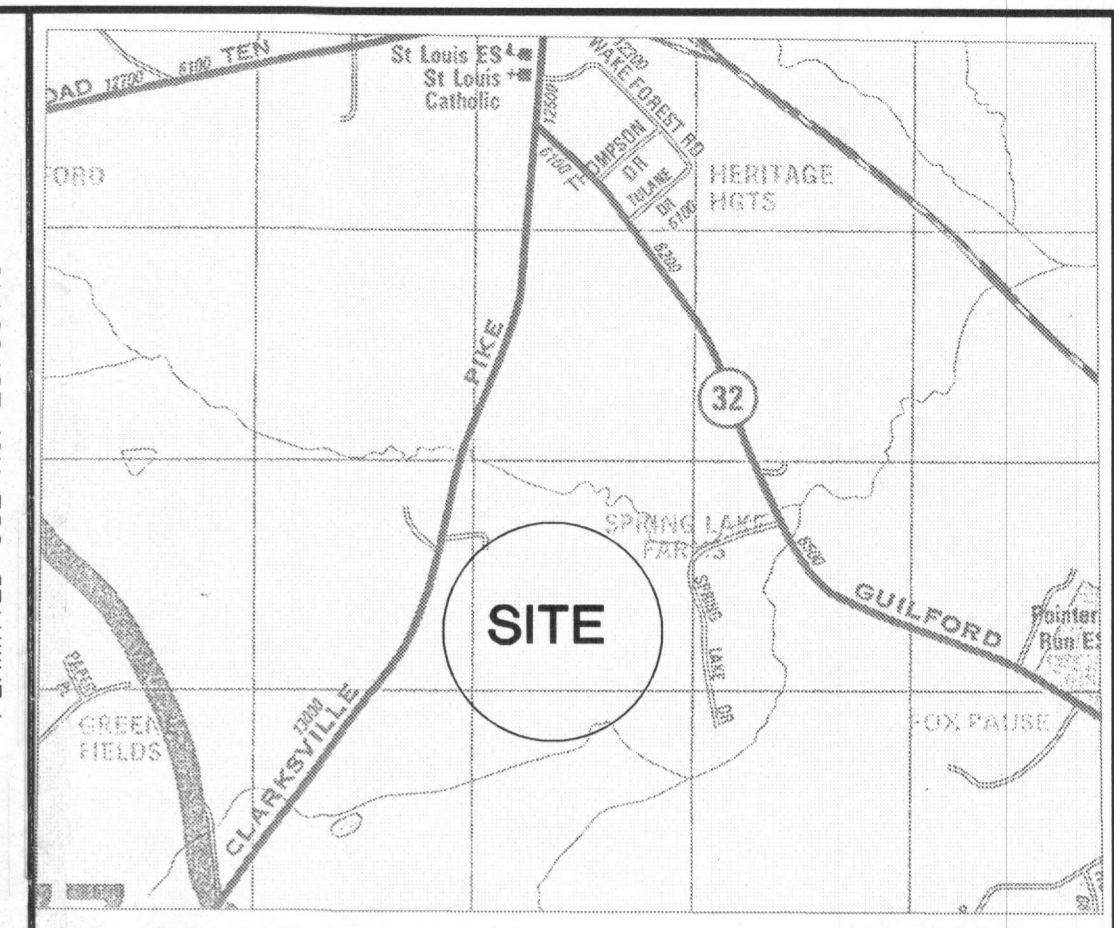
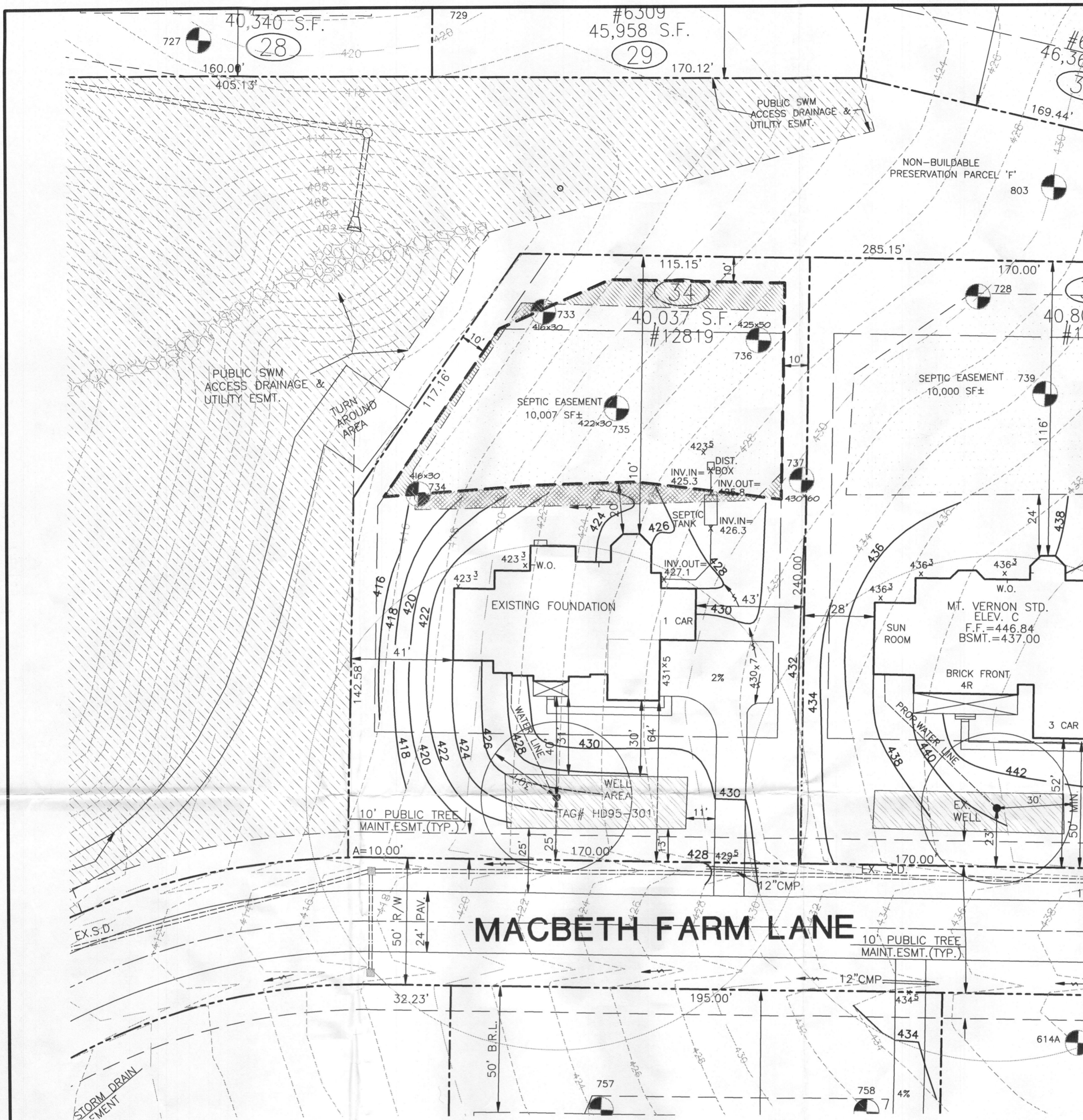
BUILDER: CAMBERLEY HOMES, INC.  
6905 ROCKLEDGE DRIVE  
SUITE 800  
BETHESDA, MARYLAND 20817  
301-803-4929

**RIVERWOOD  
LOT 34**

11222 KINSALE COURT, ELICOTT CITY, MD 21042  
TAX MAP 29, GRIDS 3, 4, 9 & 10 - PARCEL 20  
3rd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**REVISED  
PERCOLATION CERTIFICATION PLAN**

DATE:	APRIL 16, 2007	PROJECT NO.	1950
SCALE:	1" = 50'	DRAWING	1 OF 1



**VICINITY MAP**

**LEGEND**

- F.F. 00.00 FINISHED TOP OF FIRST FLOOR ELEVATION.
- BSMT. 00.00 FINISHED TOP OF BASEMENT FLOOR SLAB.
- 000X0 W.O. PROPOSED GROUND ELEVATION AT WALKOUT CONDITIONS.
- 00X0 GROUND SPOT ELEVATION.
- STD. OR REV. STANDARD OR REVISED "UNIT DESIGNATION FROM ARCHITECTURAL PLANS."
- SR NUMBER OF RISERS - 7 1/2" EACH (INCLUDING 3 RISERS INTO HOUSE)
- W/W WINDOW WELL REQUIRED FOR BASEMENT WINDOWS IN REAR.
- 000 PROPOSED 2 FT. CONTOUR.
- 000--- EXISTING 2 FT. GROUND CONTOUR.
- 000--- EXISTING 10 FT. GROUND CONTOUR.
- DRAINAGE FLOW IN SWALE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CURB AND GUTTER.
- EXISTING STORM DRAINS.
- EASEMENT LINE
- MINIMUM BUILDING SETBACK LINE
- NON-TIDAL WETLANDS LINE
- 25 FT. WETLANDS BUFFER LINE
- 75 FT. WETLANDS BUFFER LINE
- EXISTING STORM DRAIN INLET.
- STORM DRAIN OUTFALL (W/ AGGREGATE)
- DENOTES EXISTING SEPTIC EASEMENT
- DENOTES AREA OF PROPOSED SEPTIC EASEMENT TO BE ADDED.
- DENOTES AREA OF EXISTING SEPTIC EASEMENT TO BE ABANDONED.
- PERCOLATION TEST PIT--PASSED
- PERCOLATION TEST PIT--FAILED

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PERMITTED USE No. 20706143

**NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
2. EXISTING GRADING SHOWN IS FIELD RUN TOPO BY MRA ON 04/02/07
3. PERCOLATION TEST FEE RECEIPT NUMBER - A518543
4. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
5. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
6. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEPTIC RESERVE AREAS ON AND WITHIN 100 FEET OF THE PROPERTY AND 200 FEET DOWNSLOPE HAVE BEEN SHOWN.

**OWNER**  
NVR, INC.  
6085 MARSHALEE DRIVE, SUITE 130  
ELKBRIDGE, MARYLAND 21075  
PH: 410-379-5956

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 000000, EXPIRATION DATE: 6/16/09 29203

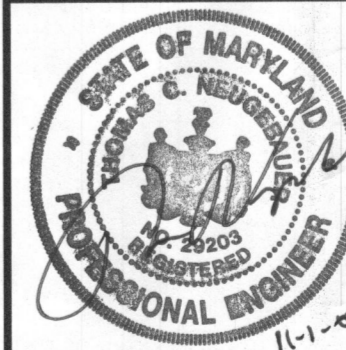
APPROVED: FOR PRIVATE WATER AND SEWERAGE SYSTEMS

*Paula for Peter Bralson, MD* 11/14/2007  
COUNTY HEALTH OFFICER DATE  
HOWARD COUNTY HEALTH DEPARTMENT



**MORRIS & RITCHIE ASSOCIATES, INC.**  
ENGINEERS, ARCHITECTS, PLANNERS, SURVEYORS & LANDSCAPE ARCHITECTS

3445-A BOX HILL CORPORATE CENTER DRIVE  
ABINGDON, MARYLAND 21009  
(410) 879-1690 - (410) 836-7560  
FAX (410) 879-1820



**REVISED PERCOLATION CERTIFICATION PLAN FOR**

**MACBETH FARMS**

**LOT 34 #12819 MACBETH FARM LANE**

TAX MAP 34 GRIDS 18 & 24  
4TH ELECTION DISTRICT

PARCEL 90  
HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:	14948
10-31-07	REVISE WELL AREA PER COUNTY COMMENTS;	SCALE:	1"=30'
10-31-07	REVISE STATEMENT IN HEALTH OFFICERS SIGNATURE BLOCK.	DATE:	10-02-07
		DRAWN BY:	TB
		DESIGN BY:	TB
		REVIEW BY:	JT
		SHEET:	1 OF 1