



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

A561490

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME 4450 Route 97

PROPERTY ADDRESS 4450 Route 97, Brookville, Md. 20833

TAX ACCOUNT # 321804 TAX MAP 27 GRID 1 PARCE: 1# LOT NO. PROPOSED LOT SIZE (ACRES) 1.390

ZONING CATEGORY RL-DEO TIER

PROPERTY OWNER(S) DECATUR LLC

DAYTIME PHONE 443-909-7198 CELL EMAIL jim@decaturbuilding-services.com

MAILING ADDRESS 511 Ashton Road, Ashton, Md. 20861

APPLICANT Adcock & Associates RELATIONSHIP TO OWNER: AGENT

DAYTIME PHONE 443-325-7682 CELL EMAIL DENNIS@SADLAND.COM

MAILING ADDRESS 3500 North Ridge Road, Suite 120, Ellicott City, Md 21043

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 1
SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) MAJOR MINOR
CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
REPAIR OR REPLACE FAILING OSDS
UPGRADE EXISTING OSDS

BUILDING:

- RESIDENTIAL WITH 4 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES
NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
THE APPLICATION FEE IS NON-REFUNDABLE
THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

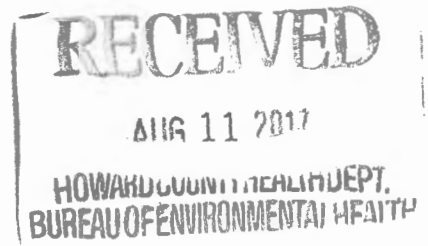
By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

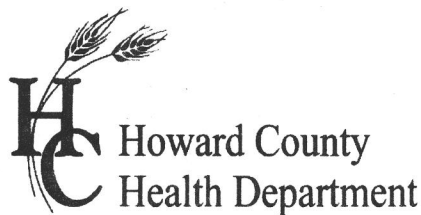
Signature of Dennis G. Bean

8-11-17

SIGNATURE OF APPLICANT

DATE





APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) 12/30/03 TEST TIME 9:00 A# 519680
 AGENCY REVIEW: SDA FOR REPL. DWELLING DATE 12/1/2003

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH UNKNOWN PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Charles Stancer - for Sandra Land Dev. INC.

DAYTIME PHONE 410-489-7340 CELL 443-622-7767 FAX 410-489-7340

MAILING ADDRESS 16900 HARDY RD MT. AIRY MD. 21771
STREET CITY/TOWN STATE ZIP

APPLICANT Charles Stancer

DAYTIME PHONE 410-489-7340 CELL 443-622-7767 FAX 410-489-7340

MAILING ADDRESS 16900 HARDY RD MT Airy MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME ~~XXXX~~ LOT NO. _____

PROPERTY ADDRESS 4470 Rt. 97 Brooksville, MD.
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 21 GRID 1 PARCEL(S) 14 PROPOSED LOT SIZE 1.4.acr.

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. Charles Stancer
SIGNATURE OF APPLICANT

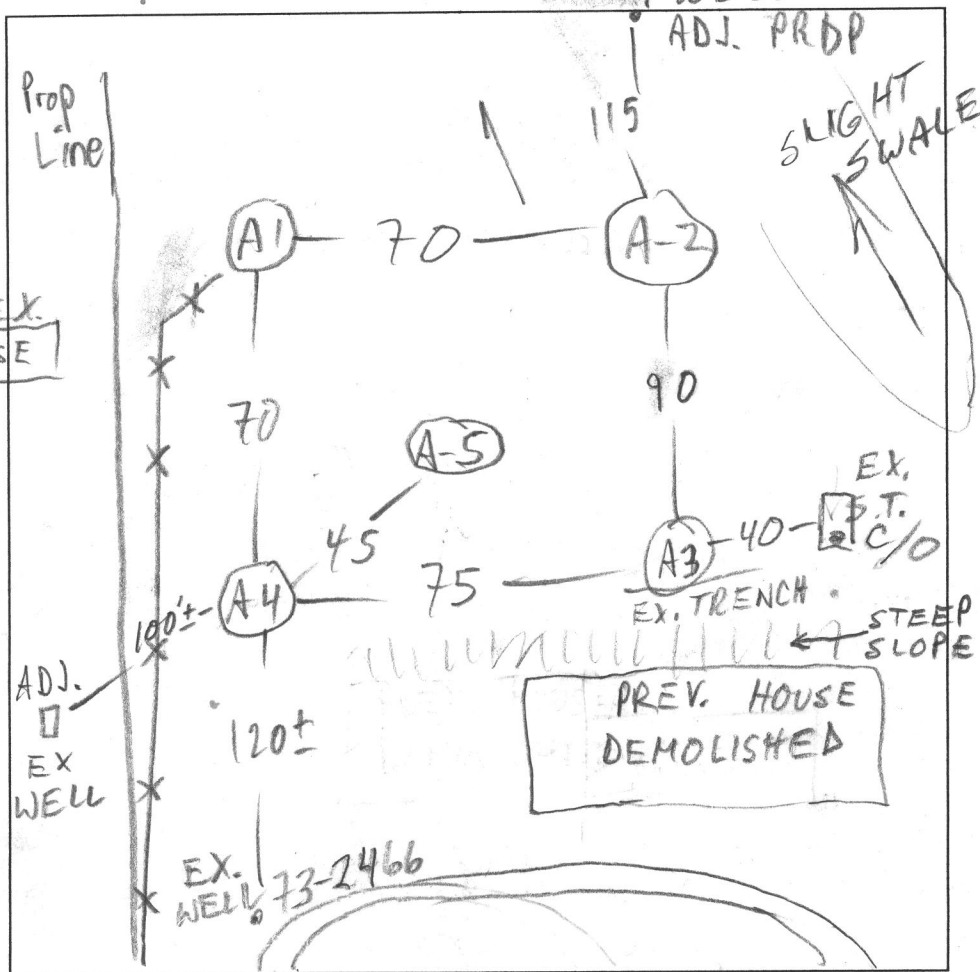
HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P

A-1
brn lt. brn
red
hvy lm
7
tan gray
salm
10-20% Rx
↑ w/depth
11 HARD BOT

A-2
brn tan
yel sic lm
15-25% Rx
3 1/2
red brn
cl lm
25-40%
Rx
1 1/2
red lt. brn
gray salm
10-20% Rx
11 1/4 HARD BOT

A-5/A-4
yel brn
sic lm
4
red brn
hvy lm
6-8
tan brn
salm
10% frags
12 1/2
-13



ROUTE 97

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
12/30/03	A-1 ^S _V	7	2:06	2:13	2:27	14	P
	A-2 ^S _V	11'9"	2:30	2:46	3:06	20	P
	A-5 _V	13					P
	A-3 _V	7-8	EX. TRENCH SHOWS NO EVIDENCE OF SEWAGE				P
	A-4 ^S _V	7'9" / 12 1/2	2:54	3:02	7'3"		
	A-4 _S	8 1/2	3:09	3:16	7'4"		
	A-4 _S	8 1/2	3:20	3:43		40-45 EST	P

REMARKS _____
 SANITARIAN M. Ripkin BACKHOE Ron Barth OTHERS _____
 TEST HOLES USED IN SDA ALL AVG. PERC TIME 217 SQ. FT/BR 300
 TRENCH WIDTH 2 INLET DEPTH 4 1/2 MAX. BOT DEPTH 8 1/2 EFFECTIVE SW 0
 REPAIRS LOWER THAN A-5: BOTTOM MAX 7

AP A561490

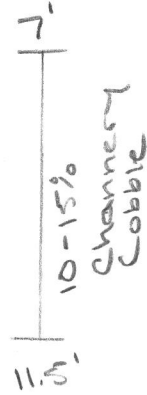
(1 of 3)

A-8

Dark Brown, Loam, Medium SBK peds, Many Thick and Thin roots
 Yellow Brown, Clay Loam, Moderate ABK, Medium to Course ABK, Strongly Cemented, Very Dense sidewalls, Few Thin Roots
 Very pale Brown to Brownish Yellow, Sandy Clay Loam, Thick Platy, Weakly cemented, Very Dense sidewalls, Few Thin Black + Gray Thin Roots, Few Fine Mottles
 Silty Loam, Thin platy, Weakly cemented

4450 Route 97
 Perc Data

- See page 3 for sketch



A-10

Dark Brown, Loam, Thick and Thin Platy, Thick and Thin Roots

Brownish Yellow, Silty clay loam, Thick Platy, Strong Cemented, Very Dense Sidewall

Reddish Brown to Strong Brown, Clay Loam, Strong Cemented, Very Dense Sidewall

Pale Brown, Yellow Brown, Sandy Loam

Very Pale Brown, Greyish Brown

HARD BOTTOM

A-9

Brownish Yellow Loam, Many Roots Thick and Thin

Yellowish Brown, Clay Loam, Moderate ABK, Course ABK, Strongly Cemented, Very Dense Sidewalls, Common Thick and Thin Roots

Grey + Yellow + Brown + Red + Brown Mix, Seprolite Mix, Sandy Loam, Thick Platy, Weakly Cemented, Very Dense Sidewalls, Few Thin roots, Black Patches @ 5 ft

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/17/17	A-8	9 / 14	10:32 ₃	10:41 ₃	10:58 ₃	17	P
	A-9	8 / 14	10:52 ₃	10:58 ₃	11:10 ₃	12	P
	A-10	6 / 11.5	12:11	1:11	SLOW		F
	A-7	7.5 / 13	1:45 ₃	1:49 ₃	1:58 ₃	9	P

A-7

Dark Brown Loam, Many Thick and Thin roots

Yellowish Brown, Brownish Yellow, Clay Loam, Medium to Course ABK, Thick and Thin Roots to 2'

Reddish Brown, Sandy Loam, Unsure of structure

REMARKS Septic System not accurately represented on test plan, Contractor dug up trench directly beneath A-9 stake.

SANITARIAN Spencer + Hank BACKHOE Pennett Dev. OPERATORS: Tim + Stanley

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Perc originally scheduled for 10/11. Contractor shored up by himself with no water, no shovel and no one called Miss Utility. Perc rescheduled for 10/17.

2'
 15% STONY 20% Cobble
 6'

7'
 14'

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A-12

A-11
Dark Brown,
Loam, Many
Thick and Thin
Roots

Strong Brown,
Clay Loam, Thick Platy,
Weak Cemented,
Dense Sidewalls,
Fine Mica,
Few Thin Roots,

Reddish Brown,
Red, Thin Platy, Firm,
Sandy Clay Loam,
@ 5' Gravelly,
Few Black Patches,
Dense Sidewalls,

Yellowish Red,
Sandy Loam,
Thin Platy, Dense Sidewalls
Fine Mica,

Some evidence
of Mottling,
Few Black Patches,

4450 Route 97

Perce Date

- See page 3
for sketch

Dark Brown,
Loam, Many
Thick and Thin
Roots,

Strong Brown,
Clay Loam,
Few Thin Roots,
Dense Sidewalls,
5-10% Cobble,
5-10% Stone,

Yellowish Brown +
Pale Brown +
Red Brown
Layering,
Silty Loam,
Thin Platy

A-6

Dark Brown
Loam, Quarter
Sized pebbles

Yellowish Brown,
Thick Platy,
Clay Loam,
Dense Sidewalls,

Yellowish Brown,
Sandy Loam,
Thick Platy,

5-10% Stone,
Alternating
Layers of
Sandy Loam
+
Sandy Clay
Loam

@ 7'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/25/77	A-11	6 14	9:11	9:31	NO MOVEMENT	F	
	A-11	8 RS	9:46	10:16	NO MOVEMENT	F	
	A-6	5 14	10:38	10:55	NO MOVEMENT	F	
	A-6	8 RS	11:20	11:24	11:39	15 min D	
	A-12	4 14	12:46	1:16	NO MOVEMENT	F	
	A-12	8 RS	1:39	1:57	2:22	25 min D	

REMARKS _____

SANITARIAN Spencer BACKHOE Pennett Dev. OTHERS Tim + Stanley

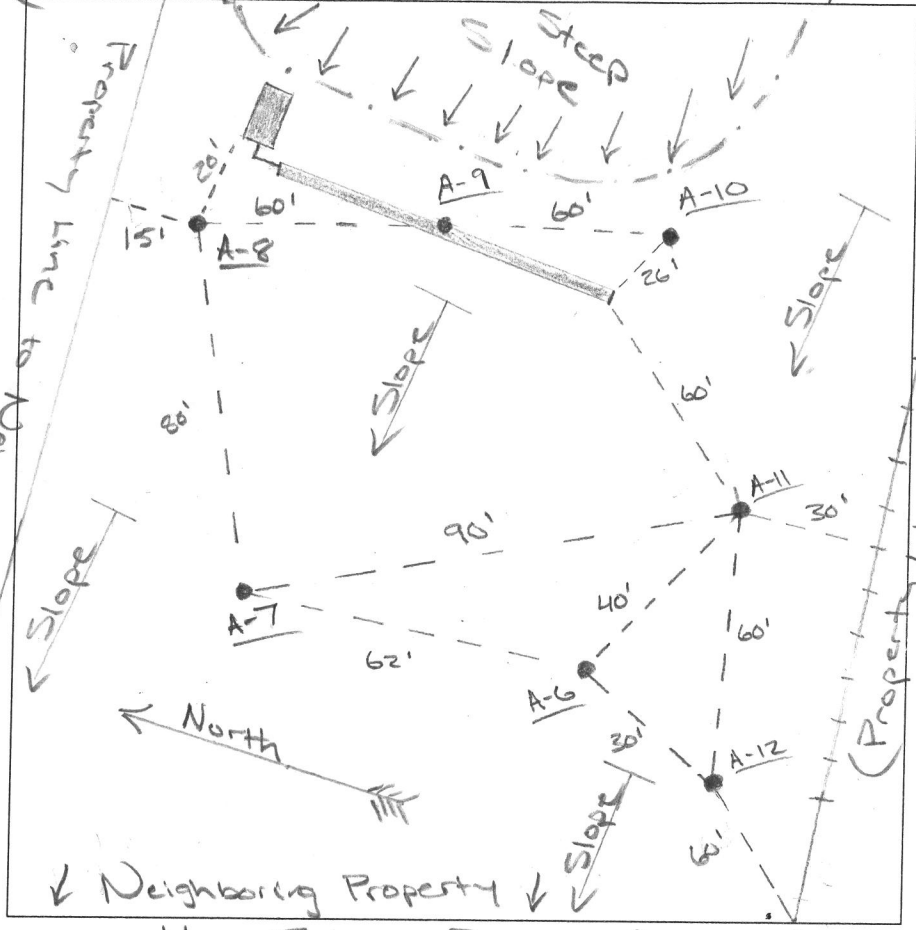
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

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

A/P A561490

(3 of 3)

↑ Route 97 ↑



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/17/17							
+	Sketch						
10/25/17							
	Only						

REMARKS _____

SANITARIAN Spencer BACKHOE Pennett Dev OTHERS Tim + Stanley

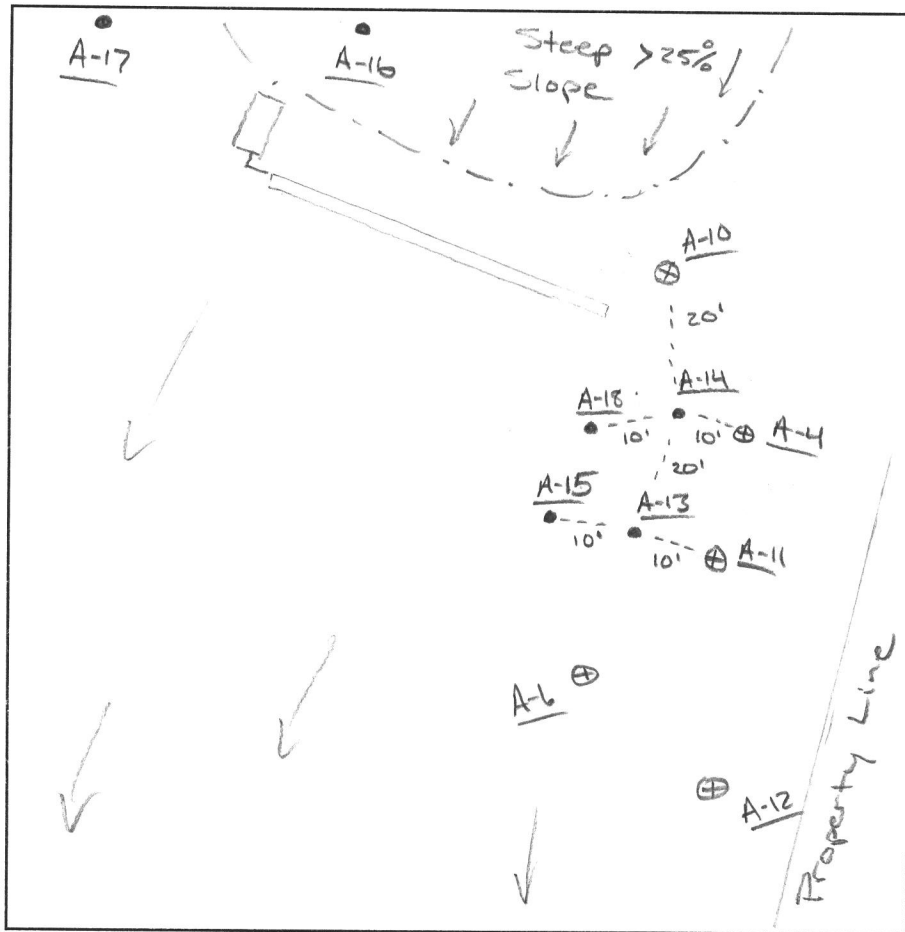
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

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

(17)
 Dense CL, 1% Stone, Some Fill
 6' - Water Seeps
 10' - Ground Water

(16)
 Did Not Dig
 Staked on 30-40% Slopes

(14)
 0.5' DB, L, Thick + Thin Roots
 Yellowish Brown, L, Very sticky, Thick Platy
 4' Yellowish Red, SL, Moderate Platy
 10' Light Pale Brown, LFS
 13.9'



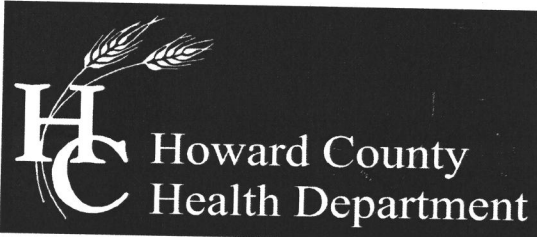
(13)
 0.6' DB, L
 Yellowish Brown, CL, 2MSBIC, Very moist
 2.5' Yellow Brown, SL, 2MSBIC, Dense
 3.5' Yellow Brown, SL, SIBIC Dense
 8' Yellow, LS, Platy
 10' Light Pale Brown, Compact sand
 11' Hard Bottom

(15)
 0.6' DB, L
 Yellowish Brown, CL, 2MSBIC, Very moist
 2.5' Yellowish Brown, SL, 2MSBIC, Dense
 3.5' Yellowish Brown, SL, Platy
 8' Yellow, LS, Platy to Light Pale Brown Sand
 13.9'

(18)
 0.5' DB, L
 Yellowish Brown, CL, MSBIC to Thick Platy, Dense
 5' Yellowish Red, Light SL, Thin Platy
 9' Yellowish Brown, LS
 13.9'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/14/18	14	7 / 13.9	10:42	11:09	11:39 Pulled	Slow	F
	13	6.5 / 11	11:38	11:53	12:25 Pulled	Slow	F
	14	8 / RS	12:06	12:32	1:02 Pulled	Slow	F
	15	7 / 13.9	1:26	1:40	2:09	29	P
	18	8 / 13.9	2:38	2:49	3:06	27	P

REMARKS Perceid after recent rain fall
 SANITARIAN RSF BACKHOE Permitt Dev. OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



Bureau of Environmental Health

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Maura J. Rossman, M.D., Health Officer

Date: February 21, 2018

To: Jim Kerwin
P.O. Box 552
Woodbine, MD 21797

Re: Percolation Test Report
4450 Route 97
Brookeville 20833

Percolation tests were conducted at 4450 Route 97 (Tax Map 27, Parcel 14) on February 14th 2018. Tests and profile descriptions were documented for locations A-13, A-14, A-15 and A-18. Two out of the four test holes passed (A-15 and A-18). All holes must be field located and accurately represented on the perc certification plan.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in the septic reserve area are represented by test locations having satisfactory soil condition. Test holes A-16 and A-17 were not tested due to shallow ground water and greater than 30% slopes. The area must be large enough to accommodate 3 systems (initial & two replacements) or two systems (initial & one replacement) with a Best Available Technology Unit (BAT). If two systems will only fit with unequal length trenches a Low Pressure Dosing (LPD) system with a BAT unit will be required.

The next step in the process is to have an engineer/consultant submit a percolation certification plan to confirm the design of the sewage disposal area.

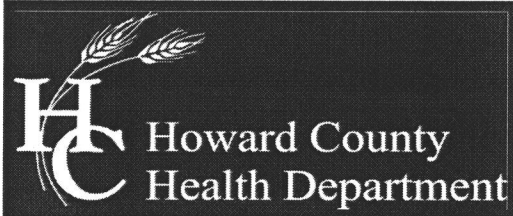
Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-6357 or by email rfreemon@howardcountymd.gov

Respectfully,

A handwritten signature in black ink, appearing to read 'Robert Freemon', is written above the typed name.

Robert Freemon
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Field Notes



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

Date: Nov 3, 2017

To: Jim Kerwin
P.O. Box 552
Woodbine, MD 21797

Re: Percolation Test Report
4450 Route 97
Brookeville 20833

Percolation tests were conducted at 4450 Route 97 (Tax Map 27, Parcel 14) on Oct. 17 & Oct. 25th 2017. Tests and profile descriptions were documented for locations A-6, A-7, A-8, A-9, A-10, A-11 and A-12. Five out of the seven test holes passed (A-6, A-7, A-8, A-9 and A-12). All holes must be field located and accurately represented on the perc certification plan.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in the septic reserve area are represented by test locations having satisfactory soil condition. The area must be large enough to accommodate 3 systems (initial & two replacements) or two systems (initial & one replacement) with a Best Available Technology Unit (BAT). If two systems will only fit with unequal length trenches a Low Pressure Dosing (LPD) system with a BAT unit will be required.

The next step in the process is to have an engineer/consultant submit a percolation certification plan to confirm the design of the sewage disposal area.

Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-6357 or by email rfreemon@howardcountymd.gov

Respectfully,

A handwritten signature in black ink, appearing to read 'Robert Freemon', is written above the typed name.

Robert Freemon
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Field Notes

AP A561490

(1 of 3)

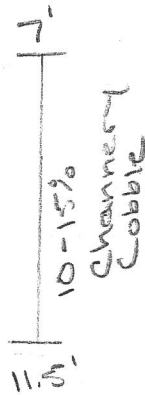
A-8

Dark Brown, Loam, Medium ABK, pedes, Many Thick and Thin roots
 Yellow Brown, Clay Loam, Moderate ABK, Medium to Course ABK, Strongly Cemented, Very Dense sidewalls, Few Thin Roots
 Very pale Brown to Brownish Yellow, Sandy Clay Loam, Thick Platy, Weakly cemented, Very Dense sidewalls, Few Thin Black + Gray Thin Roots, Few Fine Mottles
 Silty Loam, Thin platy, Weakly cemented

4450 Route 97

Perce Data

- See page 3 for sketch



A-10

Dark Brown, Loam, Thick and Thin Platy, Thick and Thin Roots
 Brownish Yellow, Silty clay Loam, Thick Platy, Strong Cemented, Very Dense Sidewall
 Reddish Brown to Strong Brown Clay Loam, Strong Cemented, Very Dense Sidewall
 Pale Brown, Yellow Brown, Sandy Loam, Very Pale Brown, Greyish Brown, HARD BOTTOM

A-9

Brownish Yellow Loam, Many Roots Thick and Thin, Yellowish Brown, Clay Loam, Moderate ABK, Course ABK, Strongly Cemented, Very Dense sidewalls, Common Thick and Thin Roots
 Gray + Yellow + Brown + Red + Brown Mix, Seprolite Mix, Sandy Loam, Thick Platy, Weakly Cemented, Very Dense sidewalls, Few Thin roots, Black Patches @ 5 ft

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/17/17	A-8	9 / 14	10:32 ₃	10:41 ₃	10:58 ₃	17	P
	A-9	8 / 14	10:52 ₃	10:58 ₃	11:10 ₃	12	P
	A-10	6 / 11.5	12:11	1:11	SLOW	F	
	A-7	7.5 / 13	1:45 ₃	1:49 ₃	1:58 ₃	9	P

A-7

Dark Brown Loam, Many Thick and Thin roots
 Yellowish Brown Brownish Yellow, Clay Loam, Medium to Course ABK, Thick and Thin Roots to 2'
 Reddish Brown, Sandy/Loam, Unsure of structure



REMARKS Septic System not accurately represented on test plan, Contractor dug up trench directly beneath A-9 stake.

SANITARIAN Spencer + Hank BACKHOE Pennett Dev. OPERATORS: Tim + Stanley

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Perce originally scheduled for 10/11. Contractor showed up by himself with no water, no shovel and no one called Miss Utility. Perce rescheduled for 10/17.

Very Pale Brown, Common Black Spots, Silty Sandy Loam, Thick Platy, Weak Cementation, Very Dense sidewalls, Silty Loam w/ sand layers

AP 561490

(2 of 3)

A-12

A-11

Dark Brown, Loam, Many Thick and Thin roots

Strong Brown, Clay Loam, Thick Platy, Weak Cemented, Dense Sidewalls, Fine Mica, Few Thin Roots,

Reddish Brown, Red, Thin Platy, Firm, Sandy Clay Loam, @ 5' Gravelly, Few Black Patches, Dense Sidewalls,

Yellowish Red, Sandy Loam, Thin Platy, Dense Sidewalls, Fine Mica,

Some evidence of Mottling, Few Black Patches,

4450 Route 97

Perce Data

- See page 3 for sketch

Dark Brown, Loam, Many Thick and Thin Roots,

Strong Brown, Clay Loam, Few Thin Roots, Dense Sidewalls, 5-10% Cobble, 5-10% Stone,

Yellowish Brown, Pale Brown + Red Brown Layering, Silty Loam, Thin Platy

A-6

Dark Brown, Loam, Quarter Sized pebbles

Yellowish Brown, Thick Platy, Clay Loam,

Dense Sidewalls,

Yellowish Brown, Sandy Loam, Thick Platy,

5-10% Stone,

Alternating Layers of Sandy Loam +

Sandy Clay Loam

@ 7'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/25/77	A-11	6 / 14	9:11	9:31		NO MOVEMENT	F
	A-11	8 / RS	9:46	10:16		NO MOVEMENT	F
	A-6	5 / 14	10:38	10:55		NO MOVEMENT	F
	A-6	8 / RS	11:20	11:24	11:39	15 min	D
	A-12	4 / 14	12:46	1:16		NO MOVEMENT	F
	A-12	8 / RS	1:39	1:57	2:22	25 min	D

REMARKS _____

SANITARIAN Spencer BACKHOE Pennett Dev. OTHERS Tim + Stanley

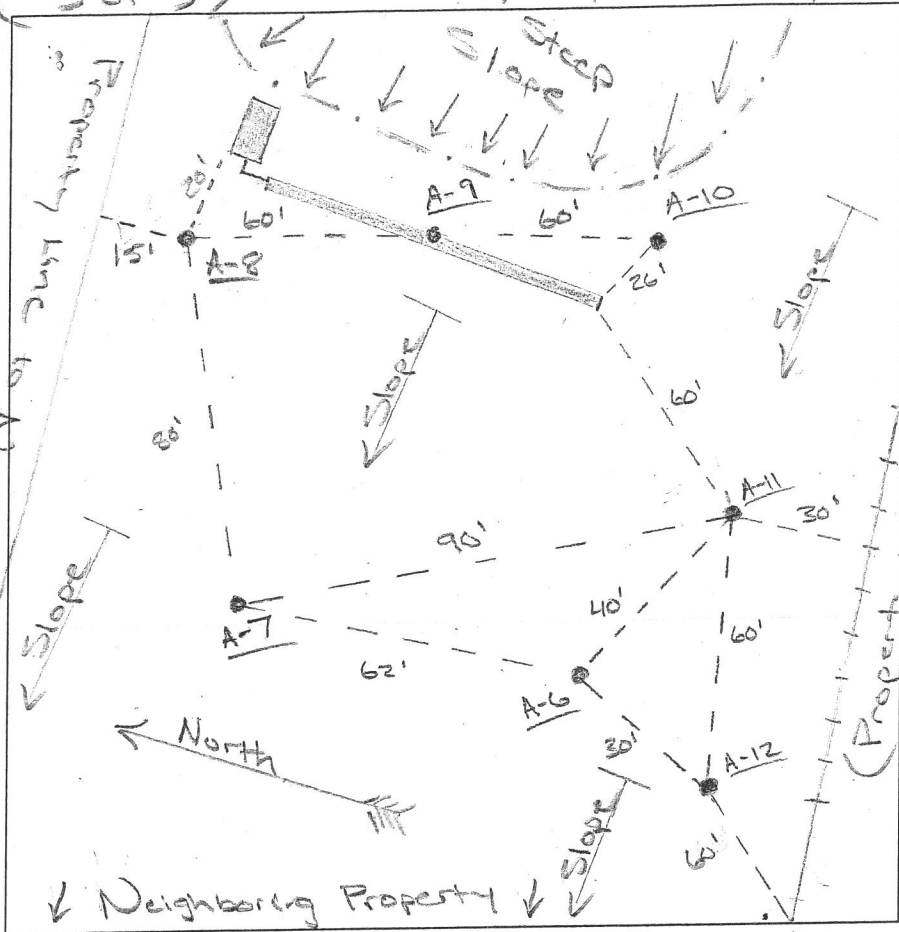
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

AVP A561490

(3 of 3)

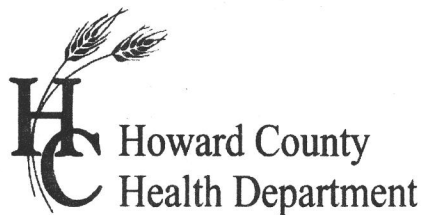
↑ Route 97 ↑



Most Southern Property Corner ↑

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/17/17							
+		Sketch					
10/25/17							
		Only					

REMARKS _____
 SANITARIAN Spencer BACKHOE Pennett Dew OTHERS Tim + Stanley
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) 12/30/03 TEST TIME 9:00 A# 519680
 AGENCY REVIEW: SDA FOR REPL. DWELLING DATE 12/1/2003

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH UNKNOWN PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Charles Stancer - for Sandra Land Dev. INC.

DAYTIME PHONE 410-489-7340 CELL 443-622-7767 FAX 410-489-7340

MAILING ADDRESS 16900 HARDY RD MT. AIRY MD. 21771
STREET CITY/TOWN STATE ZIP

APPLICANT Charles Stancer

DAYTIME PHONE 410-489-7340 CELL 443-622-7767 FAX 410-489-7340

MAILING ADDRESS 16900 HARDY RD MT Airy MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME ~~XXXX~~ LOT NO. _____

PROPERTY ADDRESS 4470 Rt. 97 Brooksville, MD.
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 21 GRID 1 PARCEL(S) 14 PROPOSED LOT SIZE 1.4.acr.

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. Charles Stancer
SIGNATURE OF APPLICANT

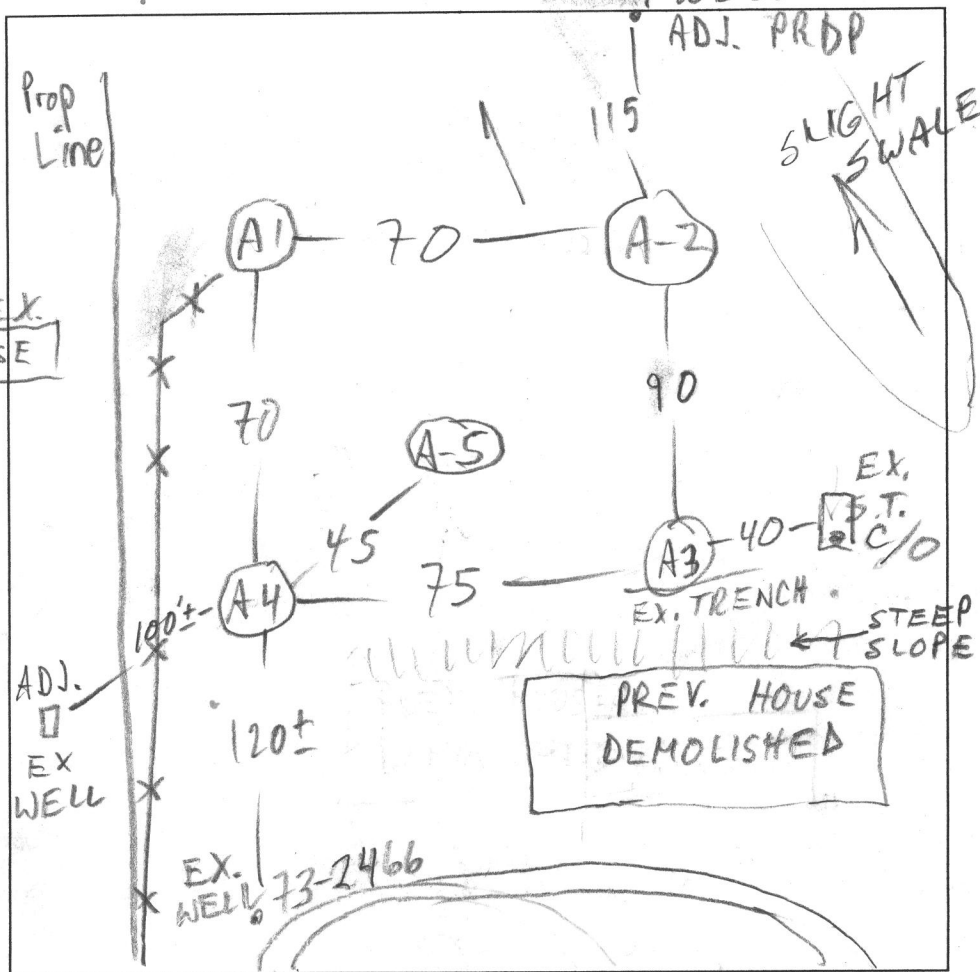
HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P

A-1
brn lt. brn
red
hvy lm
7
tan gray
salm
10-20% Rx
↑ w/depth
11 HARD BOT

A-2
brn tan
yel sic/lm
15-25% Rx
3 1/2
red brn
cl lm
25-40%
Rx
1 1/2
red lt. brn
gray salm
10-20% Rx
11'9" HARD BOT

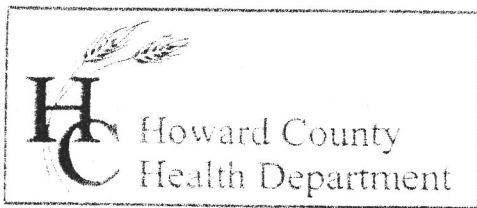
A-5/A-4
yel brn
sic/lm
4
red brn
hvy lm
6-8
tan brn
salm
10% frags
12 1/2
-13



ROUTE 97

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
12/30/03	A-1 ^S _V	7	2:06	2:13	2:27	14	P
	A-2 ^S _V	11'9"	2:30	2:46	3:06	20	P
	A-5 _V	13					P
	A-3 _V	7-8	EX. TRENCH SHOWS NO EVIDENCE OF SEWAGE				P
	A-4 ^S _V	7'9" / 12 1/2	2:54	3:02	3:13		
	A-4 _S	8 1/2	3:09	3:16	3:24		
			3:20	3:43		40-45 EST	P

REMARKS _____
 SANITARIAN M. RIFKIN BACKHOE Ron Barth OTHERS _____
 TEST HOLES USED IN SDA ALL AVG. PERC TIME 217 SQ. FT/BR 300
 TRENCH WIDTH 2 INLET DEPTH 4 1/2 MAX. BOT DEPTH 8 1/2 EFFECTIVE SW 0
 REPAIRS LOWER THAN A-5: BOTTOM MAX 7



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

January 2, 2004

Charles Stancer
16900 Hardy Road
Mt. Airy, MD 21771

RE: Percolation Test Results – A 519680
Tax Map 21, Parcel 14
4470 Rt. 97 (formerly 4402 Rt. 97)
Sewage Reserve for Replacement Dwelling

Dear Mr. Stancer:

Percolation testing conducted December 30, 2003 on the referenced property indicated generally satisfactory soil conditions, although conditions are limited by deep clay layers and shallow bedrock. Copies of the test results are enclosed.

Further review is contingent upon submission by a registered engineer/surveyor of a percolation certification plan showing the following:

- 1) actual locations of all excavated test holes with field-verified topography
- 2) the previous house location and proposed house location
- 3) existing well and septic tank and drainfield
- 4) proposed sewage reserve area
- 5) a note certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown
- 6) a note indicating that depicted topography reflects field-verified information
- 7) the plan identification number (PC 519680) in the title block

The percolation certification plat should be submitted within 60 days to allow field verification if necessary. If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-2640.

Very truly yours,

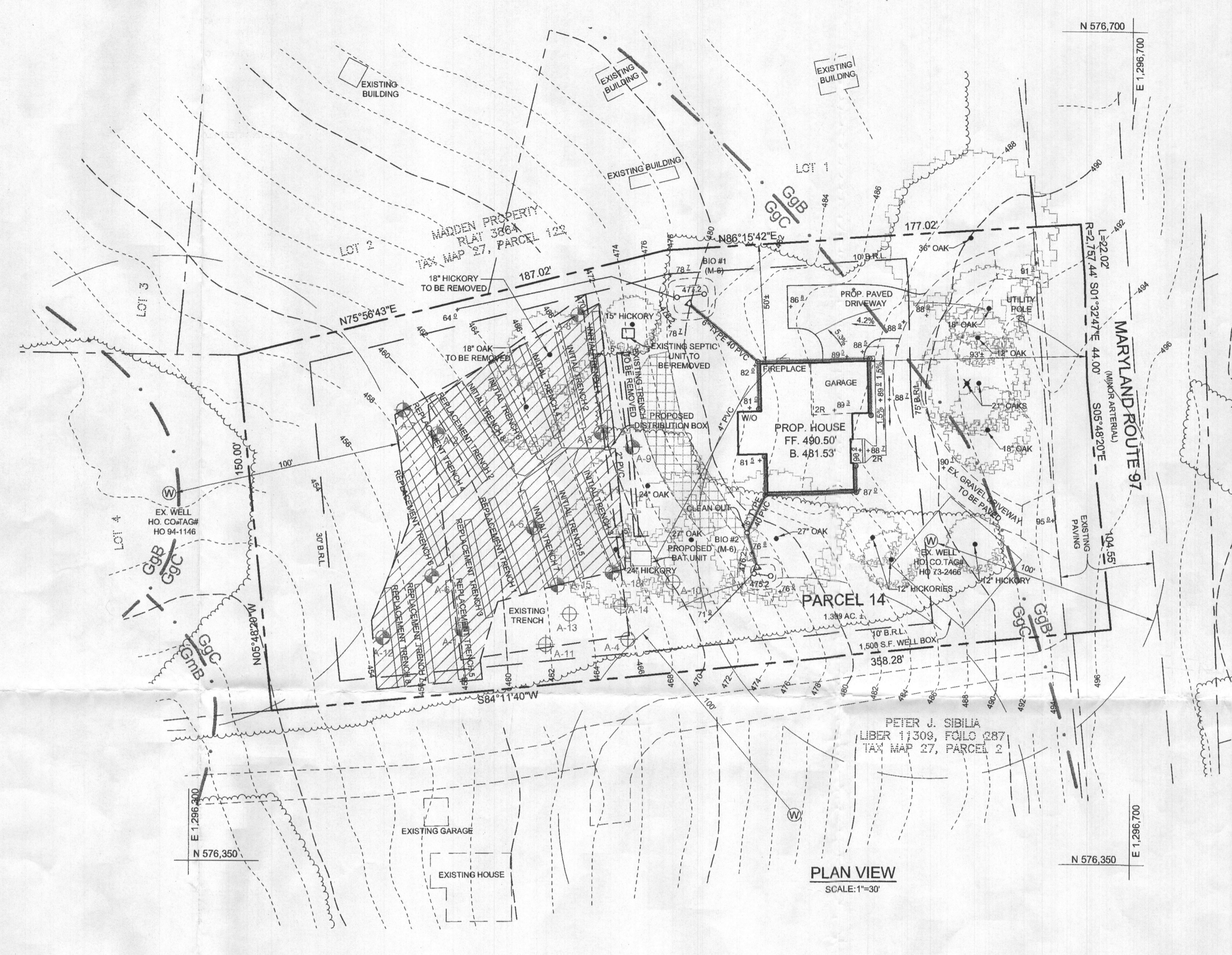
Mark E. Rifkin, R.S.

Water and Sewerage Program

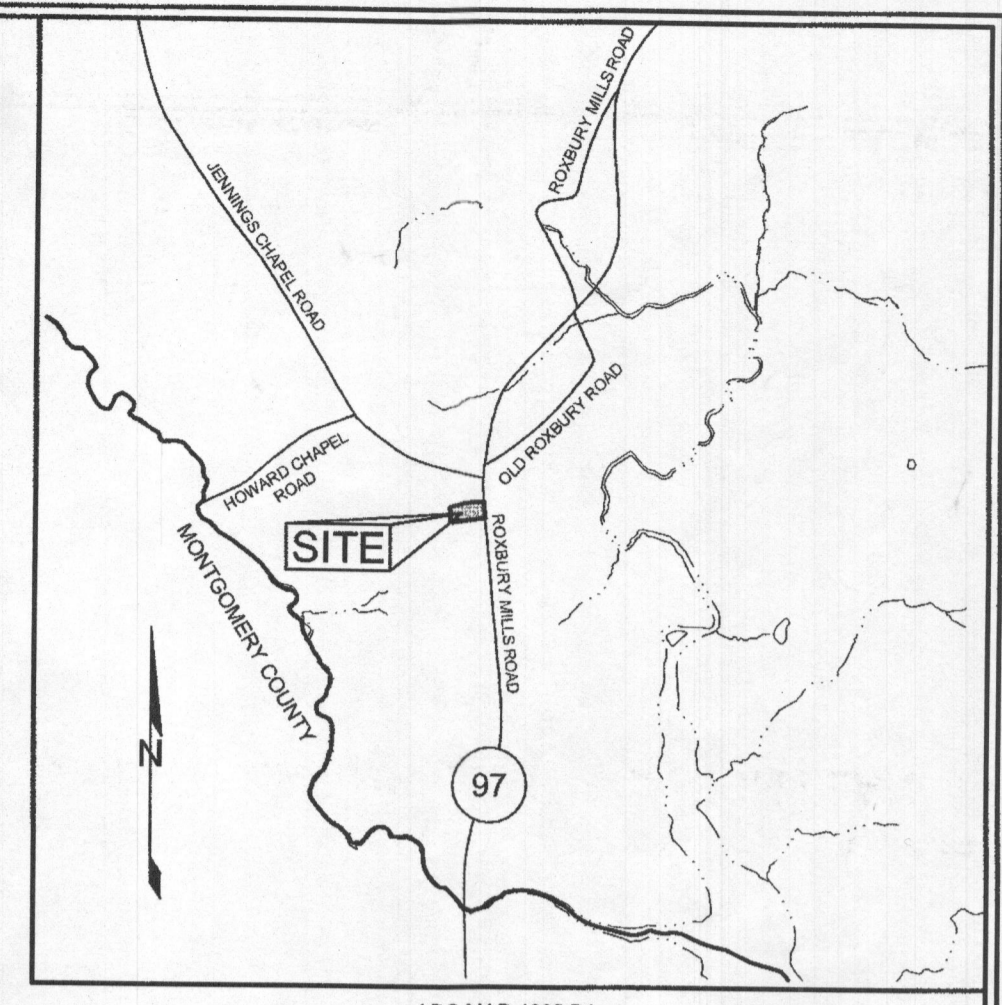
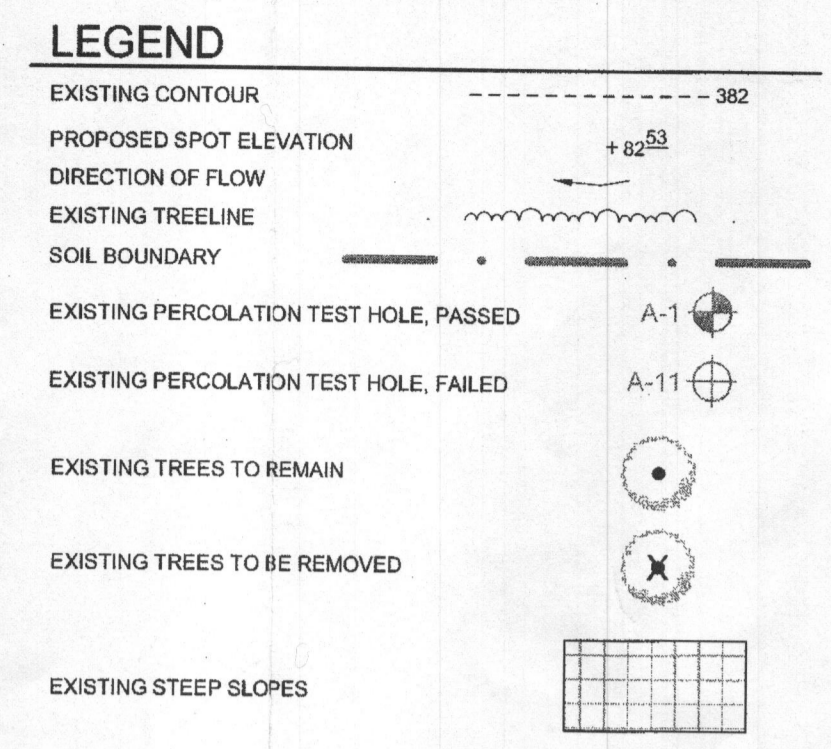
MR

Enclosures

cc: Fisher Collins and Carter
File



PLAN VIEW
SCALE: 1"=30'



ADC MAP 4932-B1
VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- PROPERTY ADDRESS: 4450 ROUTE 97, BROOKVILLE MD 20833
- TOTAL AREA OF PROPERTY = 1.399 AC.
- SUBJECT PROPERTY ZONED RC-60 PER 1006/13 COMPREHENSIVE ZONING PLAN.
- THE SETBACK SHOWN HEREON ARE BASED ON THE CURRENT HOWARD COUNTY ZONING REQUIREMENTS.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS 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 SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- THE PROPERTY BOUNDARY IS BASED ON A FIELD RUN SURVEY PERFORMED BY ADCOCK AND ASSOCIATES, LLC. ON OR ABOUT SEPTEMBER 2016.
- THE TOPOGRAPHY OF THIS PLAT IS AT TWO-FOOT INTERVALS AND IS BASED UPON A FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY ADCOCK & ASSOCIATES, LLC. ON OR ABOUT SEPTEMBER 2016. SUPPLEMENTAL TOPOGRAPHY OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2006, AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
- DEED REFERENCE: LIBER 17153, FOLIO 392
- DEED HISTORY:
 - 1984 TO 1999 - MICHAEL A. HEILER
 - 1999 TO 2003 - THOMAS P. DORE
 - 2004 TO 2016 - SANDRA LAND DEVELOPMENT INC.
 - 2016 TO PRESENT - GENIVALDO PEREIRA AND SILVINA G. PEREIRA
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL CASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL CASEMENTS HAVE BEEN SHOWN.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE NRCS WEB SOIL SURVEY WEBSITE.
- THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEPTIC SYSTEM. A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT (IF APPLICABLE) AND SEPTIC SYSTEM INSTALLATION PERMIT. IN ADDITION, AN OPERATION AND MAINTENANCE CONTRACT AGREEMENT MUST BE FILED WITH HOWARD COUNTY LAND RECORDS WITHIN 60 DAYS OF PLAT RECORDATION.
- THE EXISTING SEPTIC UNIT AND SEPTIC TRENCH WERE FIELD LOCATED BY ADCOCK AND ASSOCIATES IN SEPTEMBER OF 2016.
- THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SEPTIC TRENCH LAYOUT AND TO REMOVE 1,719 S.F. ± OF EXISTING PRIVATE SEPTIC AREA APPROVED JUNE 28TH 2004, AND TO ADD 2,857 S.F. ± OF PRIVATE SEPTIC AREA FOR A TOTAL OF 10,214 S.F. ± OF SEPTIC AREA.
- THE EXISTING WELL MUST MEET CODE PRIOR TO BUILDING PERMIT APPROVAL.
- THE MICRO-BIORETENTION ON SITE WILL BE LINED WITH AN IMPERMEABLE LINER BECAUSE THEY ARE WITHIN 100 FEET OF THE EXISTING WELL.
- MDE'S APPROVAL OF THE VARIANCE REQUEST TO HAVE THE SDA CLOSER THAN 25 FEET TO 25% OR GREATER SLOPES REQUIRES THE INSTALLATION OF BEST AVAILABLE TECHNOLOGY.
- THE EXISTING SEPTIC SYSTEM MUST BE PROPERLY ABANDONED WITH DOCUMENTATION SENT TO THE HEALTH DEPARTMENT PRIOR TO BUILDING PERMIT APPROVAL.

SITE ANALYSIS DATA CHART

ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	1.399 ACRES±
ROAD DEDICATION	0.00 ACRES±
PROPOSED SITE USES	RESIDENTIAL SFD
OPEN SPACE REQUIRED	0.00 ACRES±
WETLANDS	0.00 ACRES±
WETLAND BUFFERS	0.00 ACRES±
FLOODPLAINS	0.00 ACRES±
FLOODPLAIN BUFFERS	0.00 ACRES±
EXISTING FOREST	0.79 ACRES±
MODERATE SLOPES	0.00 ACRES±
STEEP SLOPES	0.01 ACRES±
IMPERVIOUS AREA	0.12 ACRES±
LIMIT OF DISTURBANCE	0.98 ACRES±
HIGHLY ERODIBLE SOILS	1.14 ACRES± (1)

NOTE: (1) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

SEPTIC TRENCH DESIGN (INITIAL SYSTEM)

- INITIAL SYSTEM & 1ST REPLACEMENT SYSTEM:
 - APPLICATION RATE: 0.6
 - BOTTOM MAXIMUM DEPTH: 8'
 - DISTANCE BETWEEN TRENCHES: 9'
- DESIGN FLOW:
 - 4 BEDROOMS AT 150 GPD
 - 4 x 150 GPD = 600 GPD
- SQUARE FOOTAGE OF DRAINFIELD REQUIRED:
 - DESIGN FLOW (600 GPD) / APPLICATION RATE (0.6) = 1,000
- SIDEWALL REDUCTION CREDIT:
 - NONE (1)
- LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAINFIELD SQUARE FOOTAGE (1,000) x SIDEWALL REDUCTION PERCENTAGE (1) / TRENCH WIDTH (3) = 333.3'
- LINEAR LENGTH OF TRENCH PROVIDED = 416'

SEPTIC TRENCH DESIGN (REPLACEMENT SYSTEM)

- REPLACEMENT SYSTEM:
 - APPLICATION RATE: 0.6
 - BOTTOM MAXIMUM DEPTH: 7'
 - DISTANCE BETWEEN TRENCHES: 9'
- DESIGN FLOW:
 - 4 BEDROOMS AT 150 GPD
 - 4 x 150 GPD = 600 GPD
- SQUARE FOOTAGE OF DRAINFIELD REQUIRED:
 - DESIGN FLOW (600 GPD) / APPLICATION RATE (0.6) = 1,000
- SIDEWALL REDUCTION CREDIT:
 - NONE (1)
- LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAINFIELD SQUARE FOOTAGE (1,000) x SIDEWALL REDUCTION PERCENTAGE (1) / TRENCH WIDTH (3) = 333.3'
- LINEAR LENGTH OF TRENCH PROVIDED = 416'

INITIAL SEPTIC TRENCH CHART

TRENCH NUMBER	EXISTING GRADE	INVERT	TRENCH BOTTOM	LENGTH	WIDTH
1	471.0	467.5	463.0	42'	3'
2	468.0	464.5	460.0	42'	3'
3	466.5	463.0	458.5	42'	3'
4	465.5	462.0	457.5	42'	3'
5	464.0	460.5	456.0	42'	3'
6	463.5	460.0	455.5	42'	3'
7	463.0	459.5	455.0	42'	3'
8	461.8	458.3	453.8	42'	3'

REPLACEMENT SEPTIC TRENCH CHART

TRENCH NUMBER	EXISTING GRADE	INVERT	TRENCH BOTTOM	LENGTH	WIDTH
1	463.0	459.5	456.0	42'	3'
2	460.5	457.0	453.5	42'	3'
3	459.5	456.0	452.5	42'	3'
4	459.0	455.5	452.0	42'	3'
5	458.0	454.5	451.0	42'	3'
6	457.8	454.3	450.8	42'	3'
7	456.5	453.0	449.5	42'	3'
8	455.5	452.0	448.5	42'	3'

SOIL LEGEND

SYMBOL	GROUP	'K' FACTOR
GgB	B	0.20
GgC	C	0.35

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

OWNER
 DECATUR LLC
 511 ASHTON ROAD
 ASHTON MD, 20861
 443.309.7792

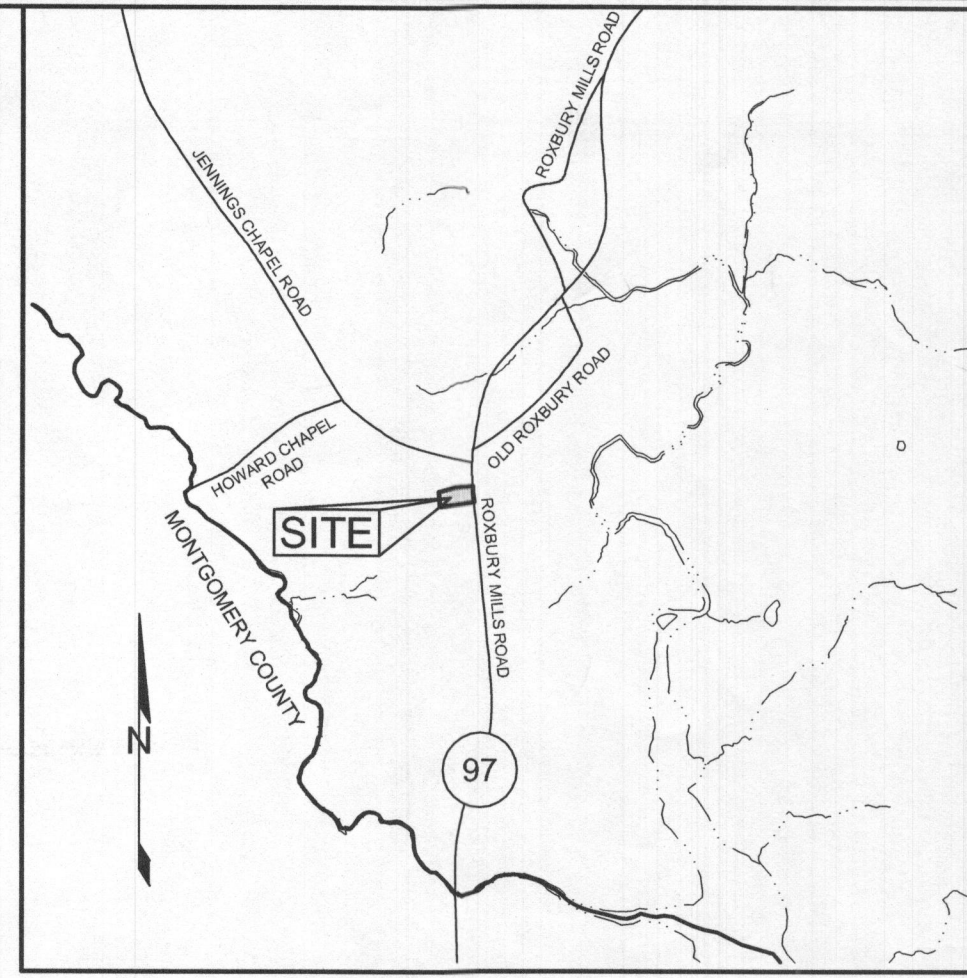
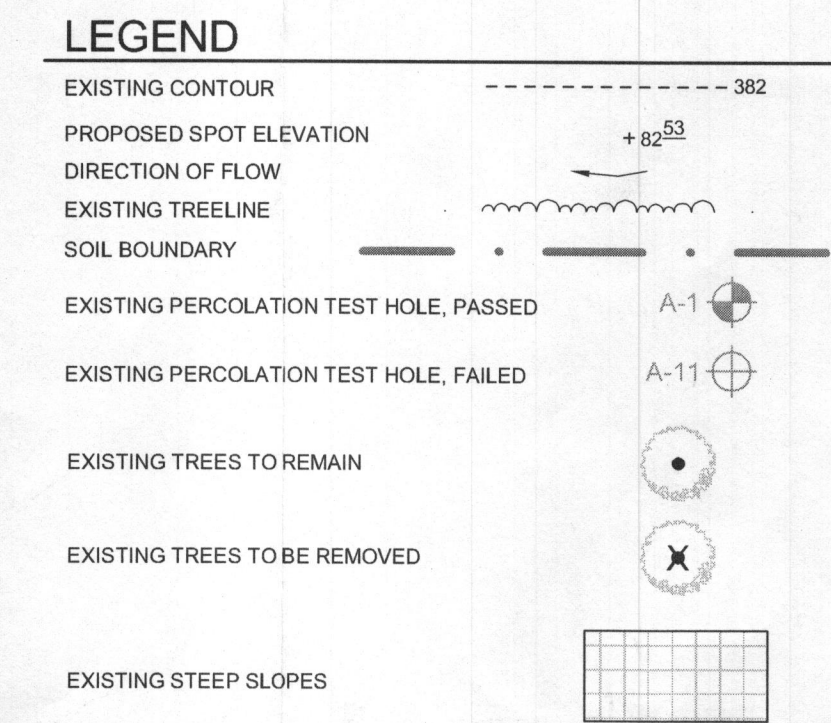
REVISED PERCOLATION CERTIFICATION PLAN
 4450 ROUTE 97
 PARCEL 14
 TAX MAP 27 GRID 1
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 288 Enterprise Street, Suites B-C
 Sykesville Maryland, 21784
 Phone: 443.325.7662
 Email: info@saaland.com

DESIGN BY: JT/DR
 DRAWN BY: JT
 CHECKED BY: DR/MA
 SCALE: AS SHOWN
 DATE: APRIL 20, 2018
 PROJECT #: 16-068
 SHEET #: 1 of 1

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 County Health Officer
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 5/3/2018

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR, UNDER THE LAWS OF THE STATE OF MARYLAND, REG. NO. 0011. EXPIRATION DATE: 10/30/2019



GENERAL NOTES

- PROPERTY ADDRESS: 4450 ROUTE 97, BROOKVILLE MD 20833
- TOTAL AREA OF PROPERTY = 1.399 AC.
- SUBJECT PROPERTY ZONED RC-DEO PER 10/06/13 COMPREHENSIVE ZONING PLAN.
- THE SETBACK SHOWN HEREON ARE BASED ON THE CURRENT HOWARD COUNTY ZONING REQUIREMENTS.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS 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 SEWAGE EASEMENT. RECODIFICATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
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- DEED REFERENCE: LIBER 17153, FOLIO 392
- DEED HISTORY:
 - 1964 TO 1999 - MICHAEL A. HEILER
 - 1999 TO 2003 - THOMAS P. DORE
 - 2004 TO 2016 - SANDRA LAND DEVELOPMENT INC.
 - 2016 TO PRESENT - GENIVALDO PEREIRA AND SILVINA C. PEREIRA
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADE/IN EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN SHOWN.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE NRCS WEB SOIL SURVEY WEBSITE.
- THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
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- THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
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- THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SEPTIC TRENCH LAYOUT AND TO REMOVE 1,719 S.F. ± OF EXISTING PRIVATE SEPTIC AREA APPROVED JUNE 28TH 2004, AND TO ADD 2,867 S.F. ± OF PRIVATE SEPTIC AREA FOR A TOTAL OF 10,214 S.F. ± OF SEPTIC AREA.
- THE EXISTING WELL MUST MEET CODE PRIOR TO BUILDING PERMIT APPROVAL.
- THE MICRO-BIORETENTION ON SITE WILL BE LINED WITH AN IMPERMEABLE LINER BECAUSE THEY ARE WITHIN 100 FEET OF THE EXISTING WELL.
- MDE'S APPROVAL OF THE VARIANCE REQUEST TO HAVE THE SDA CLOSER THAN 25 FEET TO 25% OR GREATER SLOPES REQUIRES THE INSTALLATION OF BEST AVAILABLE TECHNOLOGY.
- THE EXISTING SEPTIC SYSTEM MUST BE PROPERLY ABANDONED WITH DOCUMENTATION SENT TO THE HEALTH DEPARTMENT PRIOR TO BUILDING PERMIT APPROVAL.

SITE ANALYSIS DATA CHART

ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	1.399 ACRES±
ROAD DEDICATION	0.00 ACRES±
PROPOSED SITE USES	RESIDENTIAL SFD
OPEN SPACE REQUIRED	0.00 ACRES±
WETLANDS	0.00 ACRES±
WETLAND BUFFERS	0.00 ACRES±
FLOODPLAINS	0.00 ACRES±
FLOODPLAIN BUFFERS	0.00 ACRES±
EXISTING FOREST	0.79 ACRES±
MODERATE SLOPES	0.00 ACRES±
STEEP SLOPES	0.01 ACRES±
IMPERVIOUS AREA	0.12 ACRES±
LIMIT OF DISTURBANCE	0.58 ACRES±
HIGHLY ERODIBLE SOILS	1.14 ACRES± (1)

NOTE: (1) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

SEPTIC TRENCH DESIGN (INITIAL SYSTEM)

- INITIAL SYSTEM & 1ST REPLACEMENT SYSTEM:
 - APPLICATION RATE: 0.6
 - BOTTOM MAXIMUM DEPTH: 8'
 - DISTANCE BETWEEN TRENCHES: 9'
- DESIGN FLOW:
 - 4 BEDROOMS AT 150 GPD
 - 4 x 150 GPD = 600 GPD
- SQUARE FOOTAGE OF DRAINFIELD REQUIRED:
 - DESIGN FLOW (600 GPD) / APPLICATION RATE (0.6) = 1,000
- SIDEWALL REDUCTION CREDIT:
 - NONE (1)
- LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAINFIELD SQUARE FOOTAGE (1,000) x SIDEWALL REDUCTION PERCENTAGE (1) / TRENCH WIDTH (3) = 333.3'
- LINEAR LENGTH OF TRENCH PROVIDED = 416'

SEPTIC TRENCH DESIGN (REPLACEMENT SYSTEM)

- REPLACEMENT SYSTEM:
 - APPLICATION RATE: 0.6
 - BOTTOM MAXIMUM DEPTH: 7'
 - DISTANCE BETWEEN TRENCHES: 9'
- DESIGN FLOW:
 - 4 BEDROOMS AT 150 GPD
 - 4 x 150 GPD = 600 GPD
- SQUARE FOOTAGE OF DRAINFIELD REQUIRED:
 - DESIGN FLOW (600 GPD) / APPLICATION RATE (0.6) = 1,000
- SIDEWALL REDUCTION CREDIT:
 - NONE (1)
- LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAINFIELD SQUARE FOOTAGE (1,000) x SIDEWALL REDUCTION PERCENTAGE (1) / TRENCH WIDTH (3) = 333.3'
- LINEAR LENGTH OF TRENCH PROVIDED = 416'

INITIAL SEPTIC TRENCH CHART

TRENCH NUMBER	EXISTING GRADE	INVERT	TRENCH BOTTOM	LENGTH	WIDTH
1	471.0	467.5	463.0	42'	3'
2	468.0	464.5	460.0	42'	3'
3	465.5	463.0	458.5	42'	3'
4	465.5	462.0	457.5	42'	3'
5	464.0	460.5	456.0	42'	3'
6	463.5	460.0	455.5	42'	3'
7	463.0	459.5	455.0	42'	3'
8	461.8	458.3	453.8	42'	3'

REPLACEMENT SEPTIC TRENCH CHART

TRENCH NUMBER	EXISTING GRADE	INVERT	TRENCH BOTTOM	LENGTH	WIDTH
1	463.0	459.5	456.0	42'	3'
2	460.5	457.0	453.5	42'	3'
3	459.5	456.0	452.5	42'	3'
4	459.0	455.5	452.0	42'	3'
5	458.0	454.5	451.0	42'	3'
6	457.8	454.3	450.8	42'	3'
7	456.5	453.0	449.5	42'	3'
8	455.5	452.0	448.5	42'	3'

SOIL LEGEND

SYMBOL	GROUP	'K' FACTOR
G _g B	B	0.20
G _g C	C	0.35

- NOTES:
- SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY.
 - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Bridgette M. ... 5/3/2018
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

REVISED PERCOLATION CERTIFICATION PLAN

4450 ROUTE 97
 PARCEL 14

TAX MAP 27 GRID 1
 4TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

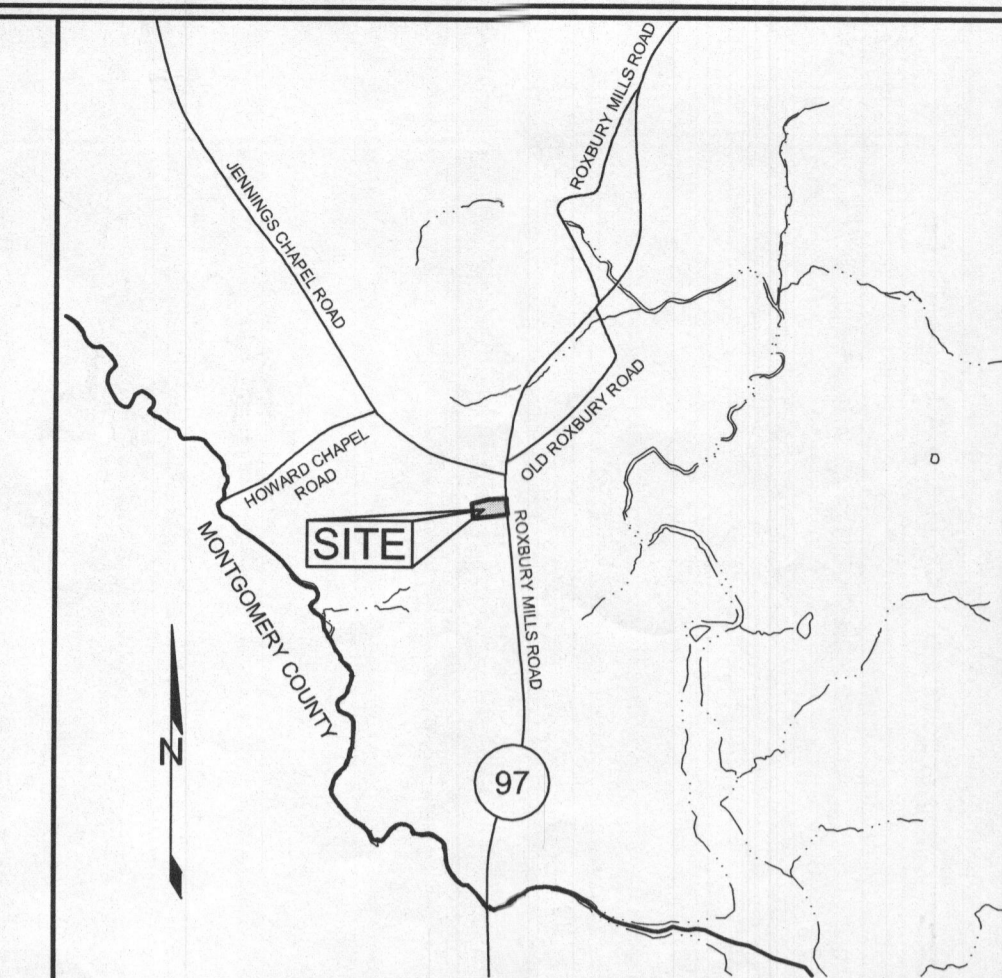
Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 249 Enterprise Street, Suites B-C
 Sykesville Maryland, 21784
 Phone: 443.325.7682
 Email: info@saaland.com

DESIGN BY: JT/DR
 DRAWN BY: JT
 CHECKED BY: DR/MA
 SCALE: AS SHOWN
 DATE: APRIL 20, 2018
 PROJECT #: 16-068
 SHEET #: 1 of 1

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, REG. NO. 9011, EXPIRATION DATE: 10-02-2019

LEGEND

- EXISTING CONTOUR
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- SOIL BOUNDARY
- EXISTING PERCOLATION TEST HOLE, PASSED
- EXISTING PERCOLATION TEST HOLE, FAILED
- EXISTING TREES TO REMAIN
- EXISTING TREES TO BE REMOVED
- EXISTING STEEP SLOPES



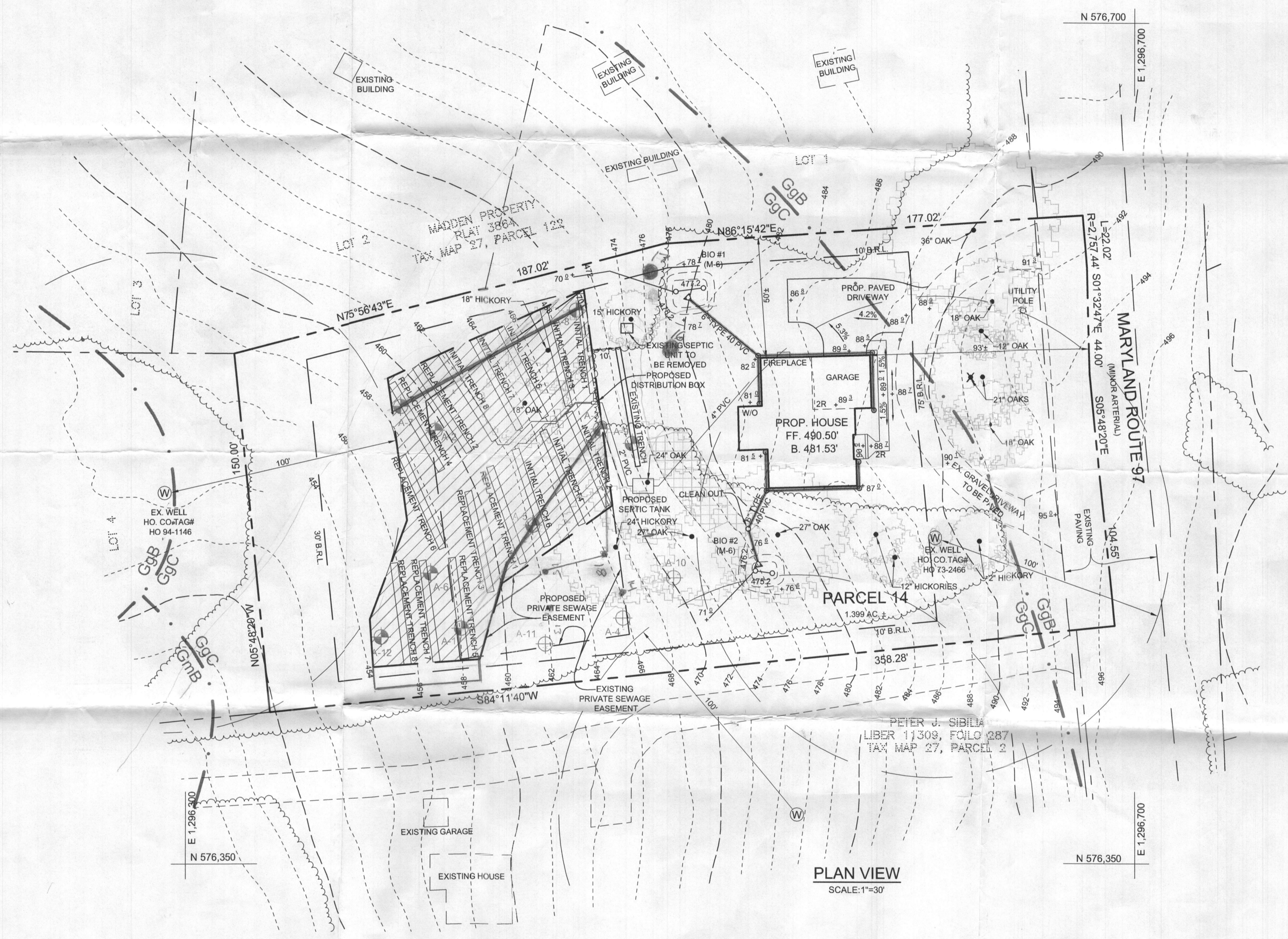
ADC MAP 4932-B1
VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

1. PROPERTY ADDRESS: 4450 ROUTE 97, BROOKVILLE MD 20833
2. TOTAL AREA OF PROPERTY = 1.399 AC.
3. SUBJECT PROPERTY ZONED RC-DEO PER 10/06/13 COMPREHENSIVE ZONING PLAN.
4. THE SETBACKS SHOWN HEREON ARE BASED ON THE CURRENT HOWARD COUNTY ZONING REQUIREMENTS.
5. PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
6. THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS 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 SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
7. THE PROPERTY BOUNDARY IS BASED ON A FIELD RUN SURVEY PERFORMED BY ADCOCK AND ASSOCIATES, LLC, ON OR ABOUT SEPTEMBER 2016.
8. THE TOPOGRAPHY OF THIS PLAT IS AT TWO-FOOT INTERVALS AND IS BASED UPON A FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY ADCOCK & ASSOCIATES, LLC, ON OR ABOUT SEPTEMBER 2016, SUPPLEMENTAL TOPOGRAPHY OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2006, AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
9. DEED REFERENCE: LIBER 17153, FOLIO 392
10. DEED HISTORY:
 - 1964 TO 1999 - MICHAEL A. HEILER
 - 1999 TO 2003 - THOMAS P. DORE
 - 2004 TO 2016 - SANDRA LAND DEVELOPMENT INC.
 - 2016 TO PRESENT - GENIVALDO PEREIRA AND SILVINA C. PEREIRA
11. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN SHOWN.
12. THE SOILS SHOWN HAVE BEEN TAKEN FROM THE NRCS WEB SOIL SURVEY WEBSITE.
13. THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY.
14. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
15. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
16. THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
17. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
18. AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEPTIC SYSTEM. A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT (IF APPLICABLE) AND SEPTIC SYSTEM INSTALLATION PERMIT. IN ADDITION, AN OPERATION AND MAINTENANCE CONTRACT AGREEMENT MUST BE FILED WITH HOWARD COUNTY LAND RECORDS WITHIN 60 DAYS OF PLAT RECORDATION.
19. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SEPTIC TRENCH LAYOUT AND TO REMOVE 2,266 S.F. ± OF EXISTING PRIVATE SEPTIC AREA APPROVED JUNE 28TH 2004, AND TO ADD 3,189 S.F. ± OF PRIVATE SEPTIC AREA FOR A TOTAL OF EXACTLY 10,000 S.F. OF SEPTIC AREA.

- Between Trenches 133' apart

402 - 3' - 333' 42 - 8
382 - 3' - 250'



PLAN VIEW
SCALE: 1"=30'

SOIL LEGEND			
SYMBOL	DESCRIPTION	GROUP	'K' FACTOR
GgB	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GgC	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.35

NOTES:
1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

SITE ANALYSIS DATA CHART	
ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	1.399 ACRES±
ROAD DEDICATION	0.00 ACRES±
PROPOSED SITE USES	RESIDENTIAL SFD
OPEN SPACE REQUIRED	0.00 ACRES±
WETLANDS	0.00 ACRES±
WETLAND BUFFERS	0.00 ACRES±
FLOODPLAINS	0.00 ACRES±
FLOODPLAIN BUFFERS	0.00 ACRES±
EXISTING FOREST	0.79 ACRES±
MODERATE SLOPES	0.00 ACRES±
STEEP SLOPES	0.01 ACRES±
IMPERVIOUS AREA	0.12 ACRES±
LIMIT OF DISTURBANCE	0.58 ACRES±
HIGHLY ERODIBLE SOILS	1.14 ACRES± (1)

NOTE: (1) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

OWNER
DECATUR LLC.
511 ASHTON ROAD
ASHTON MD, 20861
443.309.7792

PERCOLATION CERTIFICATION PLAN
4450 ROUTE 97
PARCEL 14

TAX MAP 27 GRID 1
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

Adcock & Associates · LLC
Engineers · Surveyors · Planners
3300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682 Fax: 443.325.7685
Email: info@saaland.com

DESIGN BY: JT/DR
DRAWN BY: JT
CHECKED BY: DR/MA
SCALE: AS SHOWN
DATE: JANUARY 3, 2018
PROJECT #: 16-068
SHEET #: 1 of 1

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, REG. NO. 21257, EXPIRATION DATE: 06-16-2019

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT
DATE

LEGEND

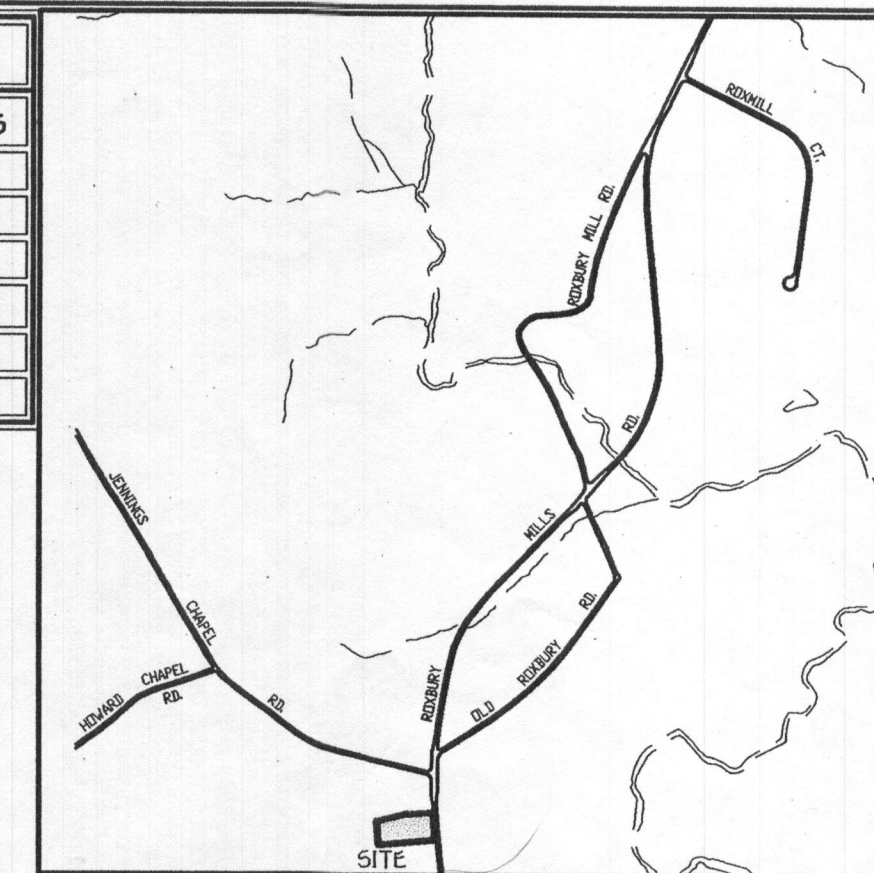
- EXISTING 2' CONTOURS
- - - EXISTING 10' CONTOURS
- EXISTING TREE LINE
- GLB2 MLC2 SOIL LINES AND TYPES
- (W) DENOTES EXISTING WELL *73-2466
- (P) DENOTES PASSED PERC
- (H) DENOTES PROPOSED HOUSE
- (S) DENOTES 25% AND GREATER SLOPE

x san line co
x septic tank

x well
Abounded Since There IS Another Well *ho-73-3556 In Front Of House
* Hydric soils and/or contains hydric inclusions
** May contain hydric inclusions
† Generally only within 100-year floodplain areas

SOILS LEGEND

SOIL	NAME	CLASS
EkC2	Elioak silt loam, 0 to 15 percent slopes, moderately eroded	B
EkB2	Elioak silt loam, 3 to 8 percent slopes, moderately eroded	B
EkD2	Elioak silt loam, 15 to 25 percent slopes, moderately eroded	B
* Gnb2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
MID2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
MIC2	Manor loam, 0 to 15 percent slopes, moderately eroded	B

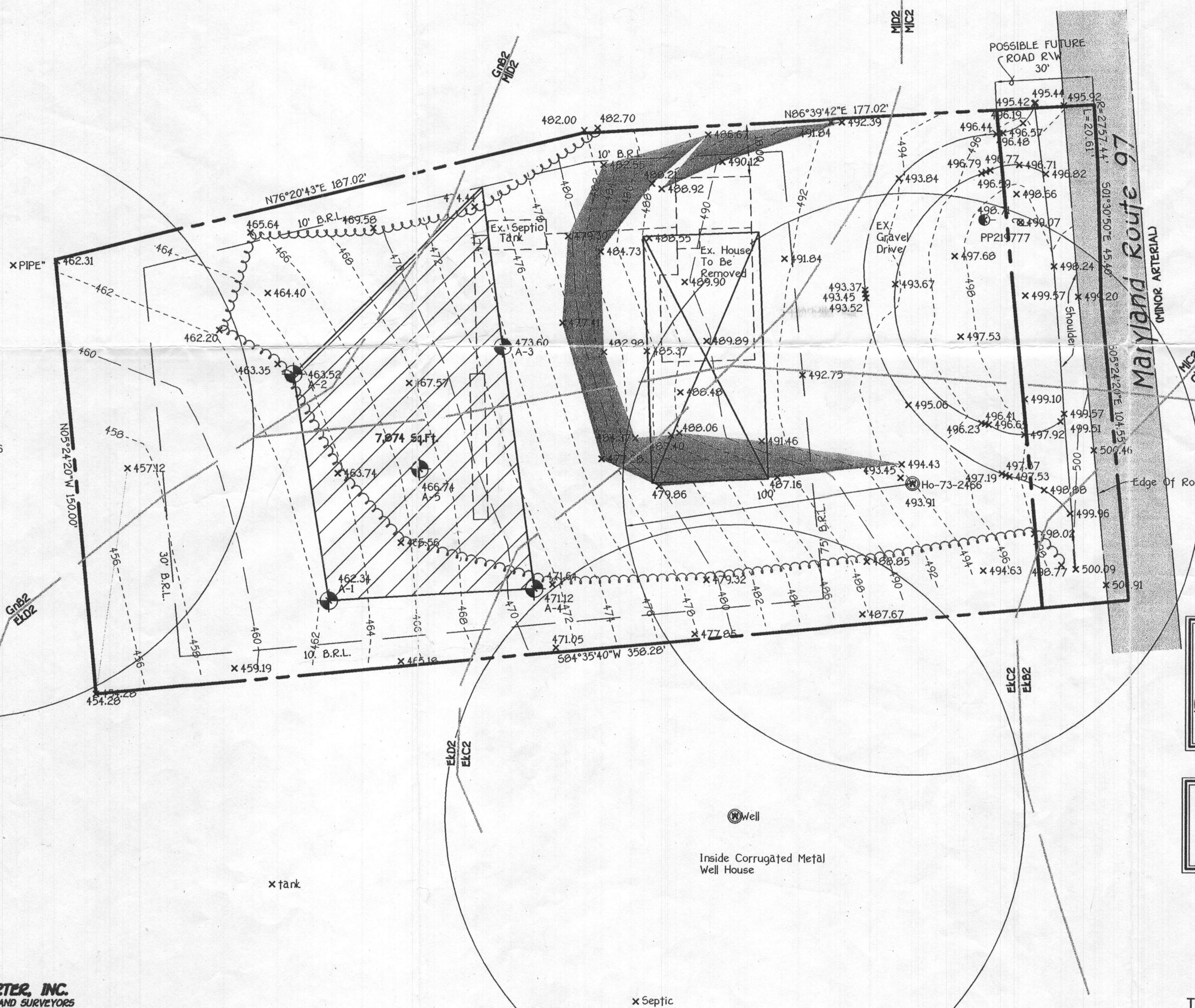


VICINITY MAP

SCALE : 1" = 1200'

GENERAL NOTES:

- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS 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 SHALL NOT BE NECESSARY.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM FIELD SURVEY.
- ALL HOUSE SITE SHOWN COMPLIES WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- PROPERTY CONTAINS AN EXISTING WELL (HO-73-2466).
- TOPOGRAPHY SHOWN IS PERFORMED BY FISHER, COLLINS & CARTER INC. ON MAY 25, 2004.
- BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY.
- WELL TEST YIELD TO BE PROVIDED PRIOR TO ISSUANCE OF A BUILDING PERMIT.
- EXISTING SEPTIC TANK, TRENCHES AND DRYWELL TO BE REMOVED.
- NUMBER OF BEDROOMS = 4



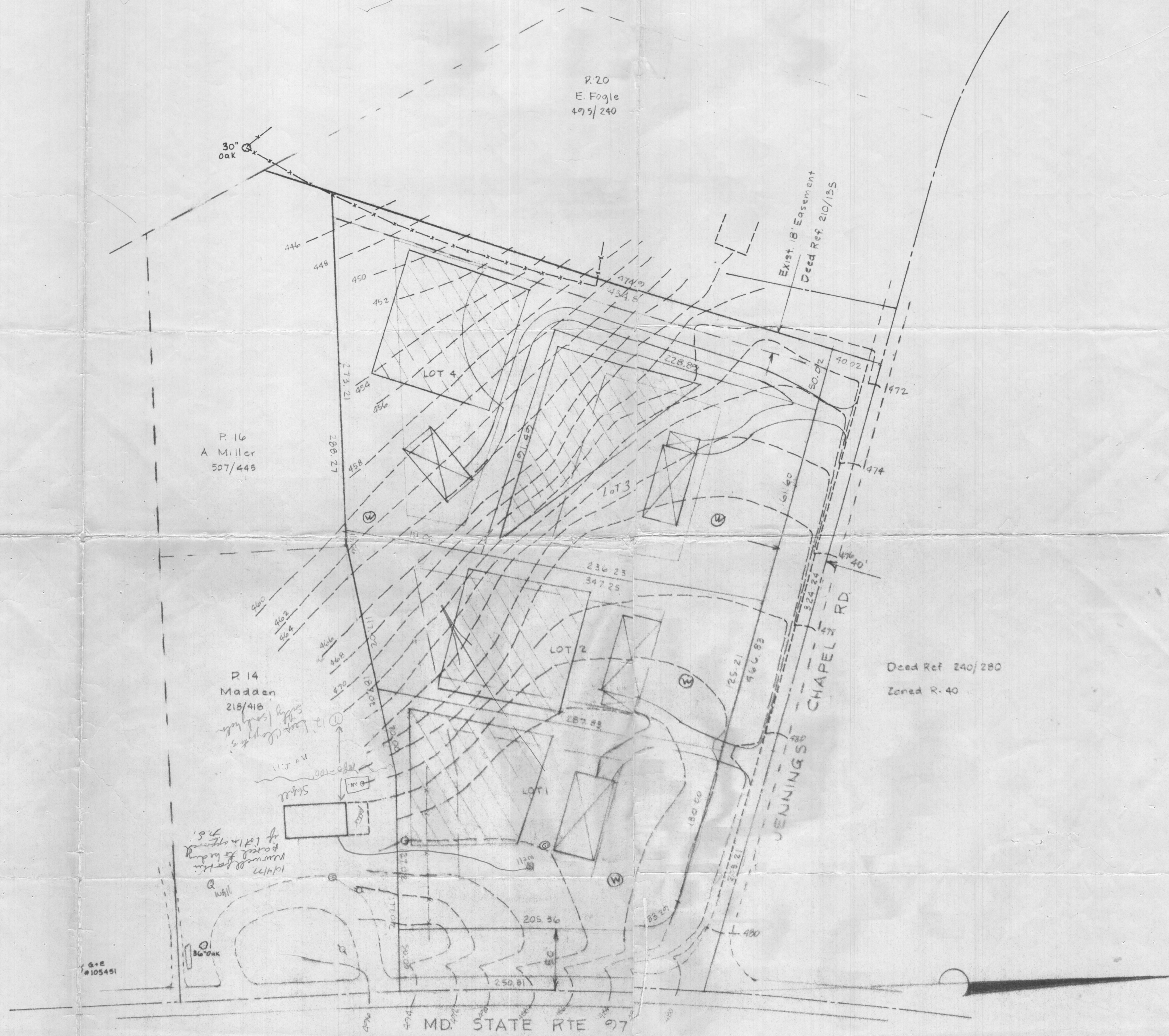
PERC CERTIFICATION
I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.
Signature of Professional Land Surveyor: Terrell A. Fisher, Professional Land Surveyor No. 10692
Date: 6/21/04

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.
Signature of County Health Officer: MR
DATE: 6-28-04

PERC CERTIFICATION PLAT
4470 ROUTE 97

(FORMERLY 4402 ROUTE 97)
TAX MAP *27 ZONED: RC-DEO PARCEL: 14
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=30' PC 519680 DATE: MAY 24, 2004
REVISED: JUNE 21, 2004

1105/25




Mrs Smoot

THIS PLAT IS FOR Mr Madden's
 Property "He has or He will be sending
 you application for perc test
 I spoke to Mr Monaghan about
 THIS Thursday

Carl

S.W. Cor. Rt 97 & Jennings Chapel Rd.

 richard p. browne associates professional design & planning consultants wayne, new jersey • columbia, maryland	SKETCH PLAN John T. Madden Property P. 15 Tax Map 27	
	4th Election Dist.	Howard County, Md.
DRAWN _____ CH.D. _____ SHEET _____ OF _____	SCALE 1" = 90'	DATE 8-3-77 PROJECT NO. 4235

File: Madden Prop
 Rt 97 & Jennings Chapel Rd.
 K&E BALTIMORE 17 983 PHOENIX MC 518