



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 535180

AGENCY REVIEW: _____

DATE 5-4-11

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 _____ 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) Kirsten and Robert Delaney

DAYTIME PHONE 410-531-1231 CELL _____ FAX _____

MAILING ADDRESS 5425 Broadwater Lane Clarksville MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT Paul Arnold

DAYTIME PHONE 410-419-3273 CELL _____ FAX _____

MAILING ADDRESS 9693 Gerwig Lane Columbia MD 21046
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME None LOT NO. _____

PROPERTY ADDRESS 5425 Broadwater Lane Clarksville MD 21029
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 28 GRID 22 PARCEL(S) 170 PROPOSED LOT SIZE 2.175 ACRES

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.

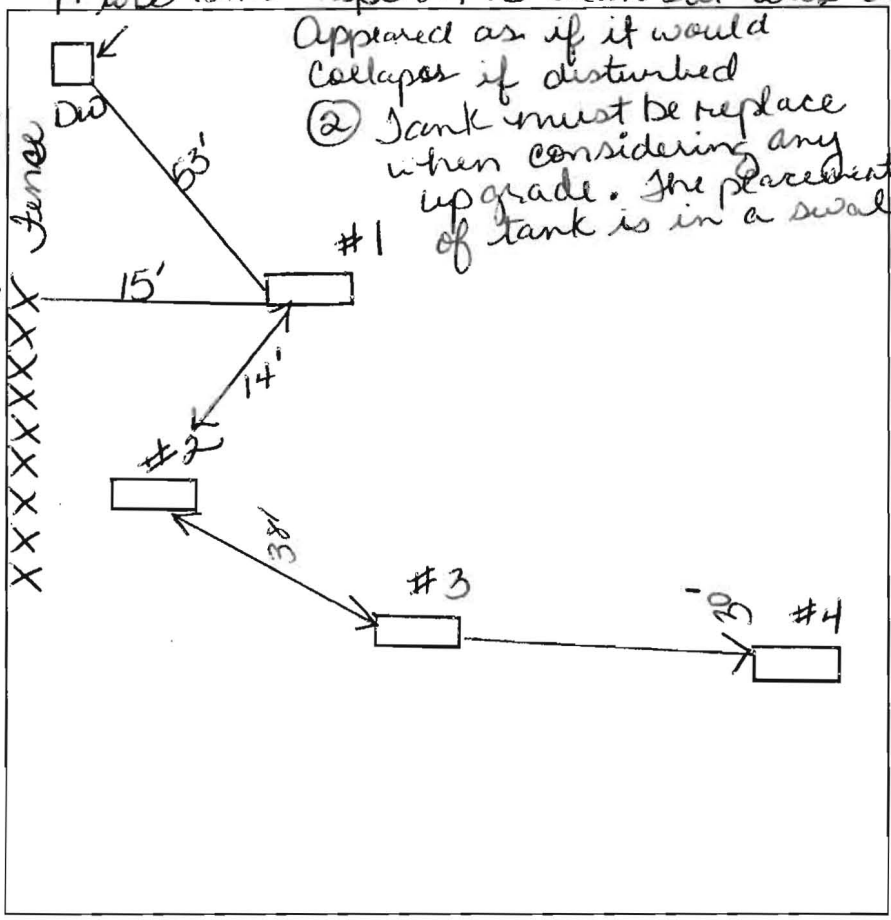
TEST RESULTS WILL BE MAILED TO APPLICANT.

SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

Notes: ¹ Applied 12x12 Pipe on TC clean out was cracked #4

AP _____
 #1
 25BK Brown Grey Scl 0.5'
 Red Brown Scl 10-20% Shale 1.5'
 Red Ch Much Mica 5'



Appeared as if it would collapse if disturbed
 (2) Tank must be replaced when considering any upgrade. The placement of tank is in a swale.

25BK Brown Grey Scl 0.5'
 10-20% Stones Red, Brown Scl 1.5'
 Red Ch Much Mica 5'

#2
 25BK Brown Grey, Scl 0.8
 Red Brown Scl much mica 1.8
 Red Ch much mica 5'

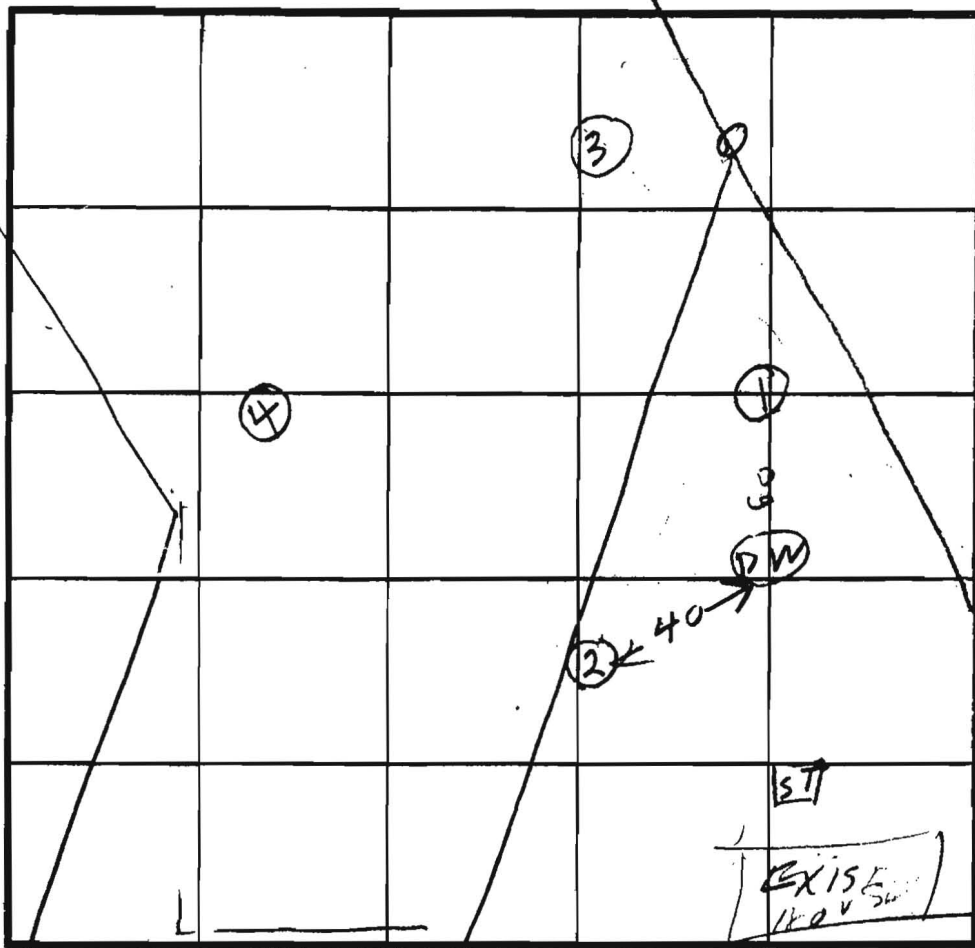
#3
 25BK, Brown Grey, Scl 0.8
 Red Brown Scl Much mica 1.5
 Red Ch Much mica 5'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-23-11	#1	5	Clay to		5'		F
5-23-11	#2	5	Clay		5'		F
5-23-11	#3	5	Clay		5'		F
5-23-11	#4	5	Clay		5'		F

REMARKS Liquid Level in DW @ 4' TC pipe inlet @ 3'
 SANITARIAN Bernard BACKHOE Paul Arnold OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

① ② ③

SOIL PROFILE



SANDY
ROCK
WATER

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

TEST PLAT #

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3/2/81	15	4	1035	1057	1037	1055	
	10	9	105	1057	1037	1055	
	11	13					
5	25	4	1091	1092		1000	
	25	12					
3	35	4	1100	1102			
	35	12					
2	4V	7	WATERY ROCK		71"		FAIL

REMARKS

Holen dug Per SURVEYOR TEST PLAT #11

TYPE OF SOIL

TESTED BY

odger

ALSO PRESENT

Jack Fyock } Back
Jack Kramme }



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

February 7, 1990

Reply to:

Mr. Victor Hare
5425 Broadwater Lane
Clarksville, Maryland 21029

RE: Percolation Testing
Tax Map 28, Parcel 147
Broadwater Lane

Dear Mr. Hare:

Having reviewed your submitted test location plat, this is to advise that the above referenced lot did not pass the standard percolation test because insufficient septic area was established. Of the three successful test holes excavated, only one was on the lot. The other two were on the adjacent lot in the vicinity of the existing septic system.

Your proposal included a lot line adjustment which would have taken away needed septic reserve area from the occupied lot in order to establish septic area on the vacant lot. Aside from the unreasonableness of forfeiting needed septic area on an occupied lot, any lot line adjustment would constitute a subdivision according to state regulation. Under subdivision regulation, each lot would be required to have a minimum 10,000 square feet of septic area, a figure not approachable on either lot.

The possibility of reviewing this lot under standards for non-conventional septic systems still remains, although I cannot be very encouraging about the prospects for approval. Essentially, non-conventional standards allow for consideration of lots which failed conventional percolation testing due to shallow depth to water table or bedrock. Approval is possible if percolation rates of under 60 minutes per inch can be obtained throughout the upper soil horizons. Due to heavy clay soils in this region, few lots pass this standard.

Bureau of Environmental Health

3525 Ellicott Mills Drive Ellicott City, Maryland 21043-4544

Director 461-9956 Water and Sewerage, Permits 461-9933 Community Environmental Health 461-9944
Technical Services 461-9955



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

February 7, 1990

Reply to:

Mr. Victor Hare
5425 Broadwater Lane
Clarksville, Maryland 21029

RE: Percolation Testing
Tax Map 28, Parcel 147
Broadwater Lane

Dear Mr. Hare:

Having reviewed your submitted test location plat, this is to advise that the above referenced lot did not pass the standard percolation test because insufficient septic area was established. Of the three successful test holes excavated, only one was on the lot. The other two were on the adjacent lot in the vicinity of the existing septic system.


Your proposal included a lot line adjustment which would have taken away needed septic reserve area from the occupied lot in order to establish septic area on the vacant lot. Aside from the unreasonableness of forfeiting needed septic area on an occupied lot, any lot line adjustment would constitute a subdivision according to state regulation. Under subdivision regulation, each lot would be required to have a minimum 10,000 square feet of septic area, a figure not approachable on either lot.

The possibility of reviewing this lot under standards for non-conventional septic systems still remains, although I cannot be very encouraging about the prospects for approval. Essentially, non-conventional standards allow for consideration of lots which failed conventional percolation testing due to shallow depth to water table or bedrock. Approval is possible if percolation rates of under 60 minutes per inch can be obtained throughout the upper soil horizons. Due to heavy clay soils in this region, few lots pass this standard.

February 6, 1990

If you have any questions regarding the information presented, or wish to pursue testing under non-conventional standards, or desire to appeal this decision, please contact this office in writing or by calling 461-9933.

Very truly yours,



Craig Williams, Director
Water and Sewerage Program

CW:jr

cc: Tax Assessment Office
File

HOWARD COUNTY HEALTH DEPARTMENT

JOYCE M. BOYD, M.D., M.P.H.
COUNTY HEALTH OFFICER



Bureau of Environmental Health
3525 Ellicott Mills Drive
Ellicott City, Maryland 21043

Director - 461-9956
Water & Sewerage, Permits - 461-9933
Community Environmental Health - 461-9944
Technical Services - 461-9955

March 10, 1989

Mr. Victor Hare
5425 Broadwater Lane
Clarksville, Maryland 21029

RE: Percolation Testing
Tax Map 28, Parcel 147
Broadwater Lane

Dear Mr. Hare:

Percolation testing conducted March 3, 1989 on the above referenced property indicated satisfactory soil conditions on a limited portion of the property.

Approval of this lot will be contingent upon establishing enough suitable ground to support one initial septic system and a minimum of one repair system. To assist this office in determining if this lot would be considered buildable, please submit a drawing showing location and elevation of all excavated test holes.

If you should have any further questions relative to this matter, please call me at 461-9933.

Very truly yours,

Craig Williams, Director
Water and Sewerage Program

CW:JR

Enclosure

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 43299
P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 992-2330

DISTRICT _____
DATE DEC. 28, 1988

*1. preliminary
2-27-89
+ 11:30 AM
completed after
RH left office*

*OK to accept
12/20/88*

*EXISTING 1 AC. LT - Require 154ST 1 REPAIR
BASED ON 4BR HOUSE + GARBAGE DISPOSAL.
REVIEW IN OFFICE WITH GRAIG & SID
SALC*

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER VICTOR G. HARE

ADDRESS 5425 BROADWATER LANE PHONE 988-9848
CLARKSVILLE, MD 21024

PROPERTY LOCATION:

SUBDIVISION N/A LOT NO. PARCEL 147

ROAD AND DESCRIPTION ADJACENT TO 5425 BROADWATER LANE

SIZE OF LOT 1.089 ACRE TYPE BLDG. FOUR BEDROOMS
(NUMBER OF BEDROOMS)

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. Victor S. Hare
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 3/3/89 Hold for Review Camp
system + Confined House file R/W

THIS IS NOT A PERMIT

SITE INSPECTION SHEET

OWNER: Kristen Delauney PHONE #: (410) 707-3672

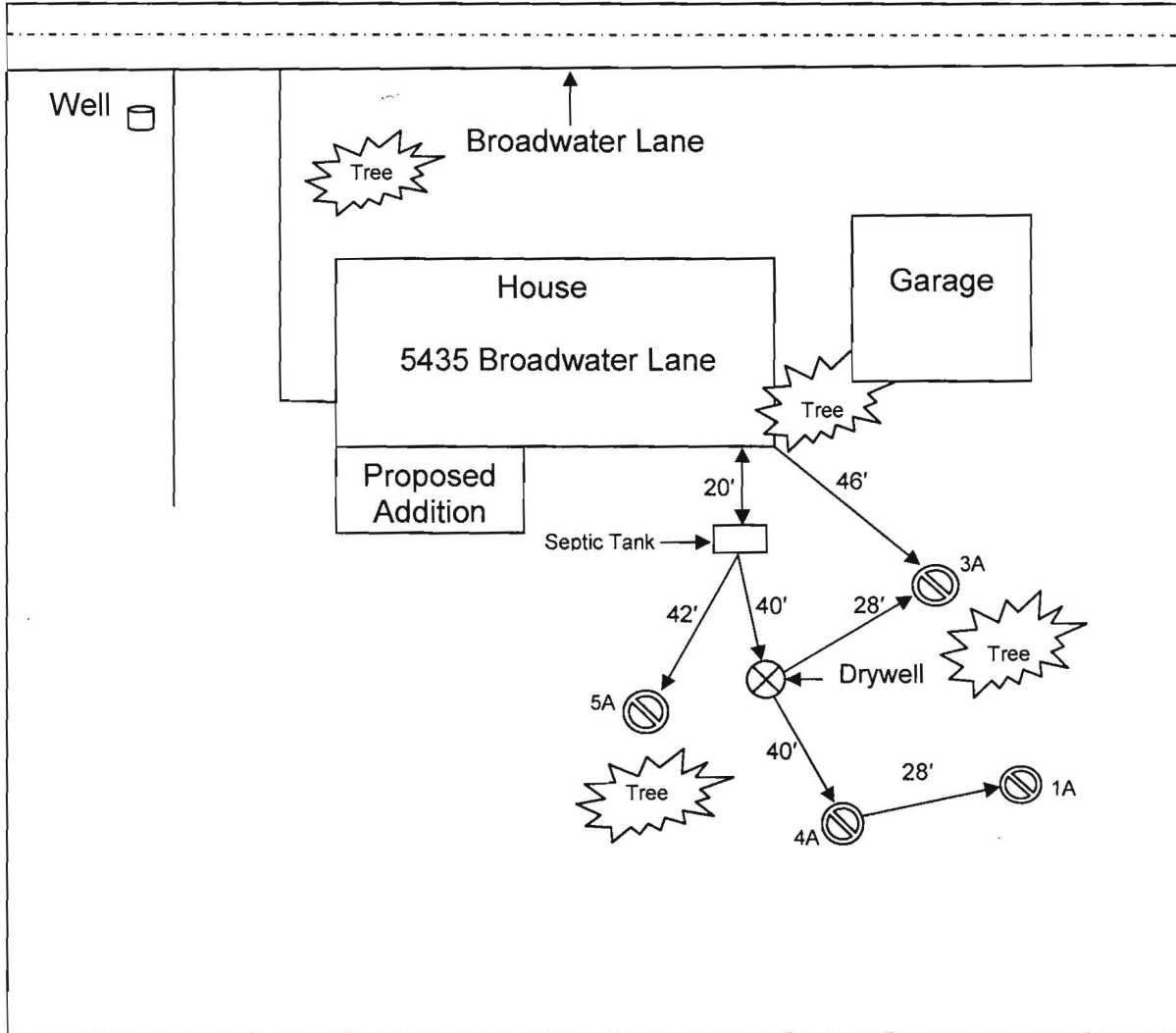
ADDRESS: 5435 Broadwater Lane CONTRACTOR: Paul Arnold

Clarksville, Maryland 21029 WELL TAG #: _____

SUBDIVISION: _____ LOT: _____ COUNTY #: Howard

PROPOSAL: Percolation testing to establish reserve area for addition. BP# 11000891

LOCATION DIAGRAM



COMMENTS: Upon my inspection, I discovered the liquid level in the drywell @ 4 feet and the inlet at 3 feet. The pipe on the terra cotta clean out was cracked and appeared as if it would collapse if it was disturbed. Therefore, I am recommending that the entire septic system be upgraded along with the septic tank because of its location. It is located in a swale near the basement doors. Before the building permit is approved the septic system should be upgraded.

DATE: June 23, 2011 INSPECTOR: Dana Bernard REHS/RS

2A
Refusal
@
5'

3A
2SBK Brown 0.8
Red Cl
much mica
↓
Brown Red 6'
Fsh
much mica
5-10% L Stones
10-20% Shale
↓
14'

5A
2SBK Brown
Grey med 0.5
Red Brown
Red Clay
much mica
↓
6'
Brown Red
yellow
Fsh
much mica
manganese
Deposits
shale 5-10%
↓
14'

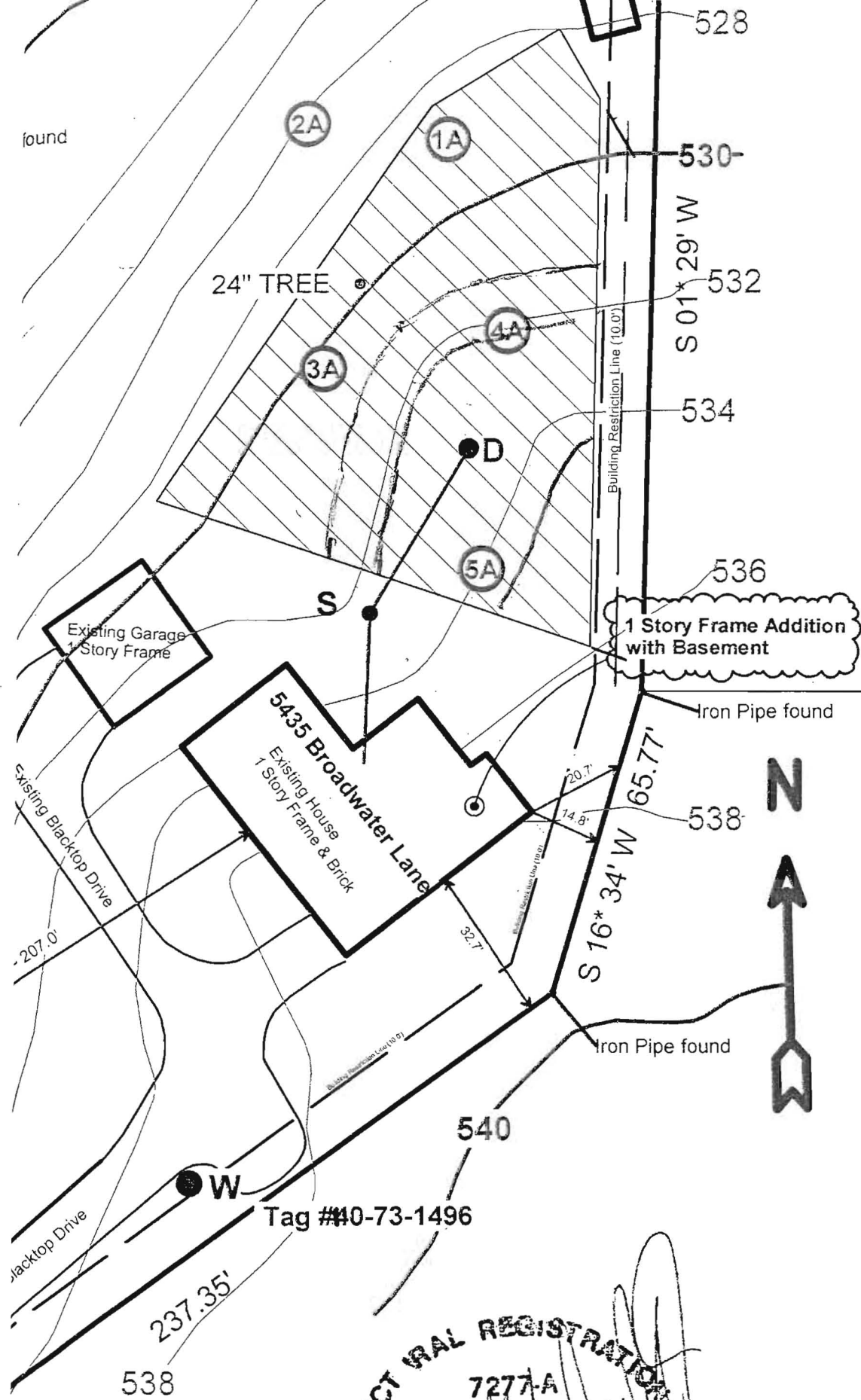
Note: ① 3' inlet
terra cotta baffle
② Tank in a Swale
sitting in front
of basement doors
as shown in as
built in file

1A
2SBK Brown 0.5
Red Brown
Ch
much mica
10-20% stones 5.5
Brown Red
Fsh
much mica
5-10% L Stones
10-20% shale 12'
Brown Red
moist sh
10-20% shale 14'

4A
2SBK Grey Brown
Red Brown
Sh
10-20% shale 6'
Brown Red
Fsh
much mica
↓
Brown Red 12'
Fsh
manganese
deposits
10-20% shale 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6-14-11	1A	6/14	9:55	10:02	10:12	10 min	P
6-14-11	3A	7/14	10:38	10:48	11:02	14 min	P
6-14-11	2A	Refusal @			5 →		F
6-14-11	4A	7/14	11:17	11:19	11:22	3 min	P
6-14-11	5A	7/14	11:43	11:45	11:52	7 min	P

REMARKS _____
 SANITARIAN D Bernard BACKHOE Hatfields OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



found

528

530

S 01° 29' W

532

S

534

536

1 Story Frame Addition with Basement

Iron Pipe found

538



Iron Pipe found


540

Tag #10-73-1496

538

ARCHITECTURAL REGISTRATION
 7277-A
 JAMES
 VELLE
 GUYER

Perc Plan Symbol Key

- (1A)** 5 Perc Test Hole locations
GREEN = Pass RED = Fail
- W** Existing Well & Alternate locations W1 & W2
- S** Septic Tank
- D** Drywell
-  Septic Reserve Field **

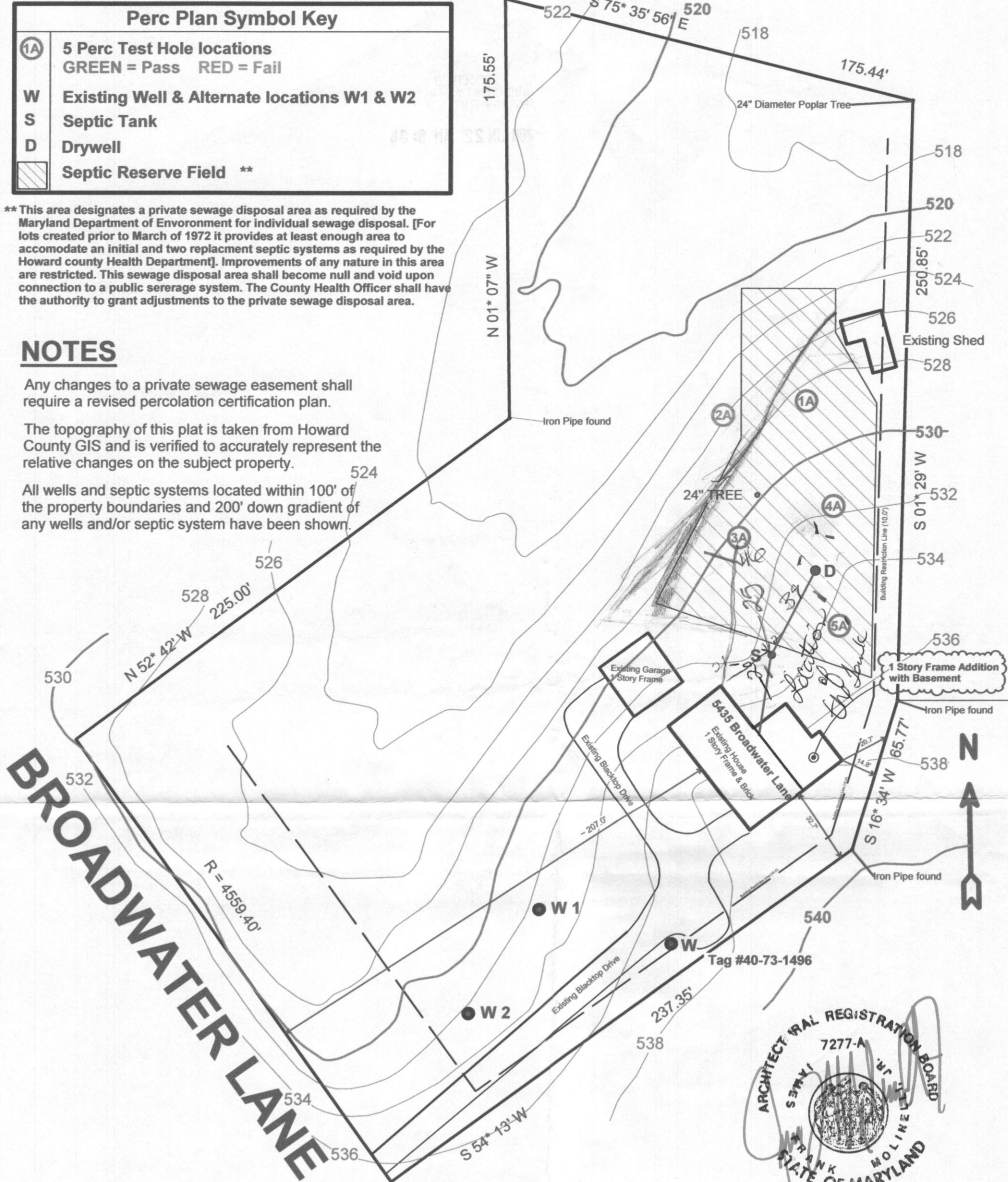
** This area designates a private sewage disposal area as required by the Maryland Department of Environment for individual sewage disposal. [For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department]. Improvements of any nature in this area are restricted. This sewage disposal area 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 disposal area.

NOTES

Any changes to a private sewage easement shall require a revised percolation certification plan.

The topography of this plat is taken from Howard County GIS and is verified to accurately represent the relative changes on the subject property.

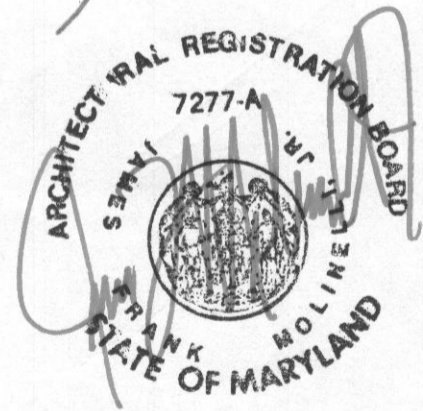
All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic system have been shown.



"Approved for Private Water and Private Sewerage Systems"

Health Officer, Howard County Health Dept. *[Signature]* Date _____


I certify that the information shown hereon is based on work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.



Plot Plan for Perc Cert

Scale 1" = 40'

PL	June 16, 2011	<p>Delauney Perc Cert Plan 5435 Broadwater Lane Clarksville, MD 21029 (410) 531-1231</p>	<p>ARDO CONTRACTING, INC. 410-290-9899</p>
----	---------------	---	---

Perc Plan Symbol Key	
(1A)	5 Perc Test Hole locations GREEN = Pass RED = Fail
W	Existing Well & Alternate locations W1 & W2
S	Septic Tank
D	Drywell
	Septic Reserve Field **

** This area designates a private sewage disposal area as required by the Maryland Department of Environment for individual sewage disposal. [For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department]. Improvements of any nature in this area are restricted. This sewage disposal area 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 disposal area.

NOTES

- ① Any changes to a private sewage easement shall require a revised percolation certification plan.
- ② The topography of this plat is taken from Howard County GIS and is verified to accurately represent the relative changes on the subject property.
- ③ All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic system have been shown.
- ④ *square foot of easement (septic)*
- ⑤ *this easement will accommodate 2 system repairs.*
- ⑥ *# of Bedrooms*

BROADWATER LANE

2 systems will fit in easement

$$\frac{4 \times 150}{0.8} = \frac{750}{3} = 250 \dots$$

= 207.5 trench

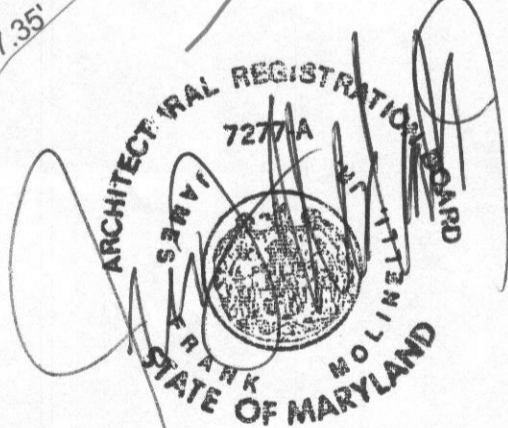
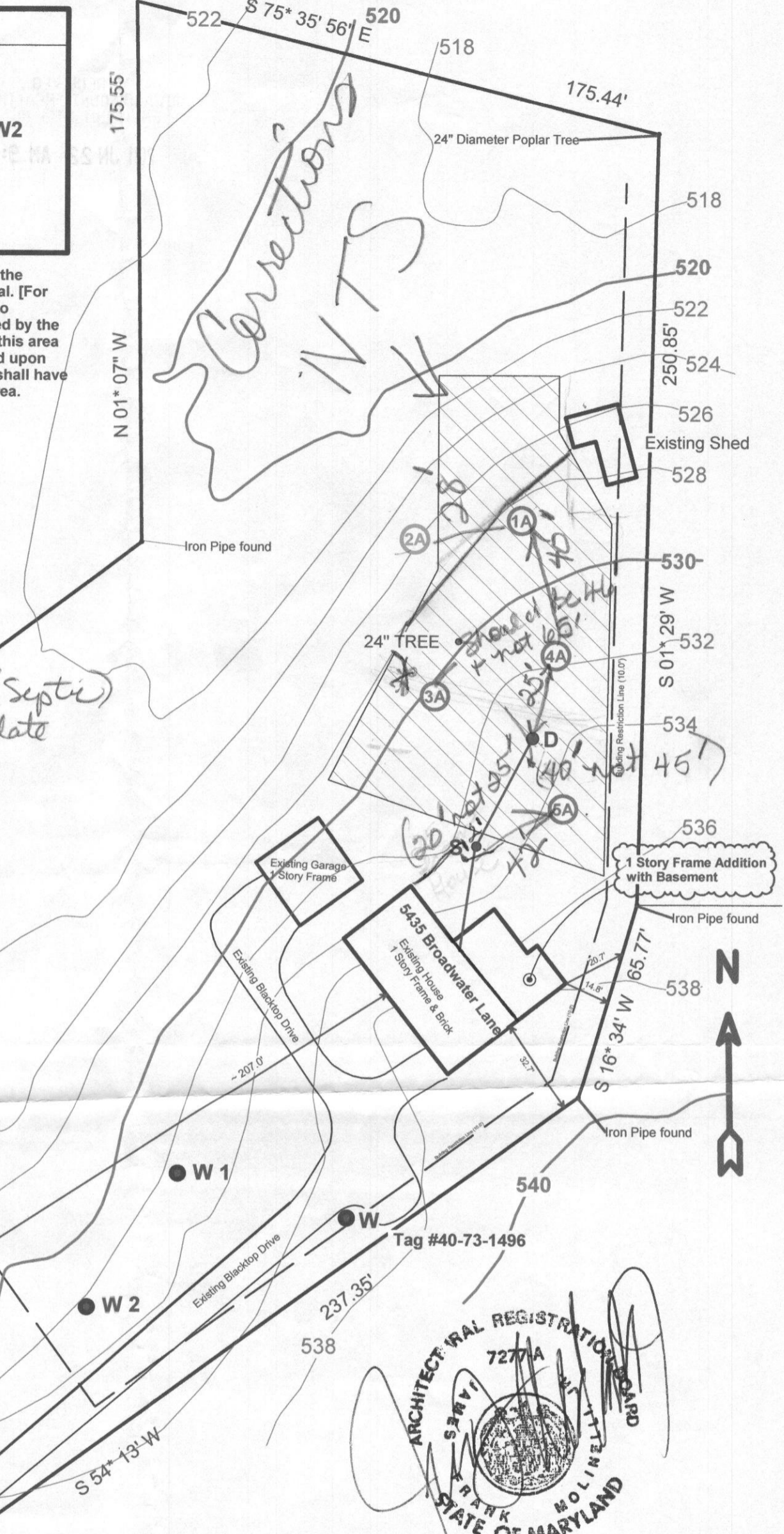
"Approved for Private Water and Private Sewerage Systems"


Health Officer, Howard County Health Dept. *Dr* _____ Date _____

I certify that the information shown hereon is based on work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.

Plot Plan for Perc Cert Scale 1" = 40'

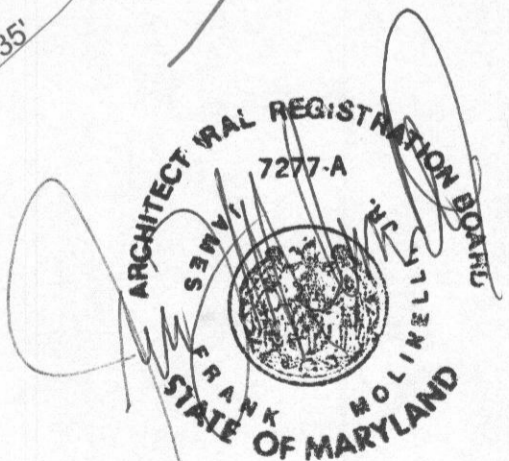
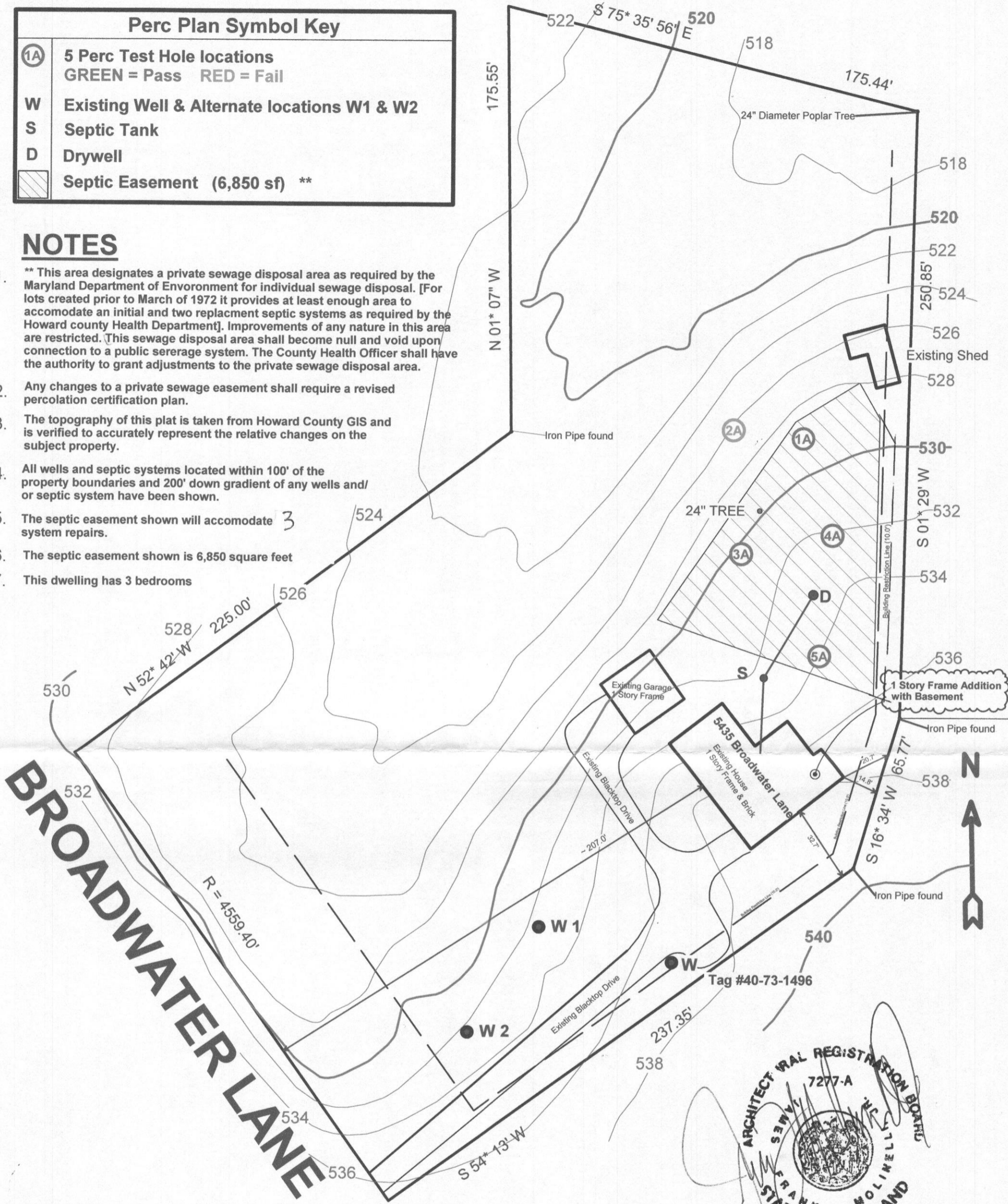
PL	June 16, 2011	Delauney Perc Cert Plan 5435 Broadwater Lane Clarksville, MD 21029 (410) 531-1231	ARDO CONTRACTING, INC. 410-290-9899



Perc Plan Symbol Key	
(1A)	5 Perc Test Hole locations GREEN = Pass RED = Fail
W	Existing Well & Alternate locations W1 & W2
S	Septic Tank
D	Drywell
	Septic Easement (6,850 sf) **

NOTES


- ** This area designates a private sewage disposal area as required by the Maryland Department of Environment for individual sewage disposal. [For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department]. Improvements of any nature in this area are restricted. This sewage disposal area 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 disposal area.
- Any changes to a private sewage easement shall require a revised percolation certification plan.
- The topography of this plat is taken from Howard County GIS and is verified to accurately represent the relative changes on the subject property.
- All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/ or septic system have been shown.
- The septic easement shown will accommodate 3 system repairs.
- The septic easement shown is 6,850 square feet
- This dwelling has 3 bedrooms



"Approved for Private Water and Private Sewerage Systems"
B. W. [Signature] for Peter Belevorn
 Health Officer, Howard County Health Dept. *DB 9w*
 Date 7/19/11

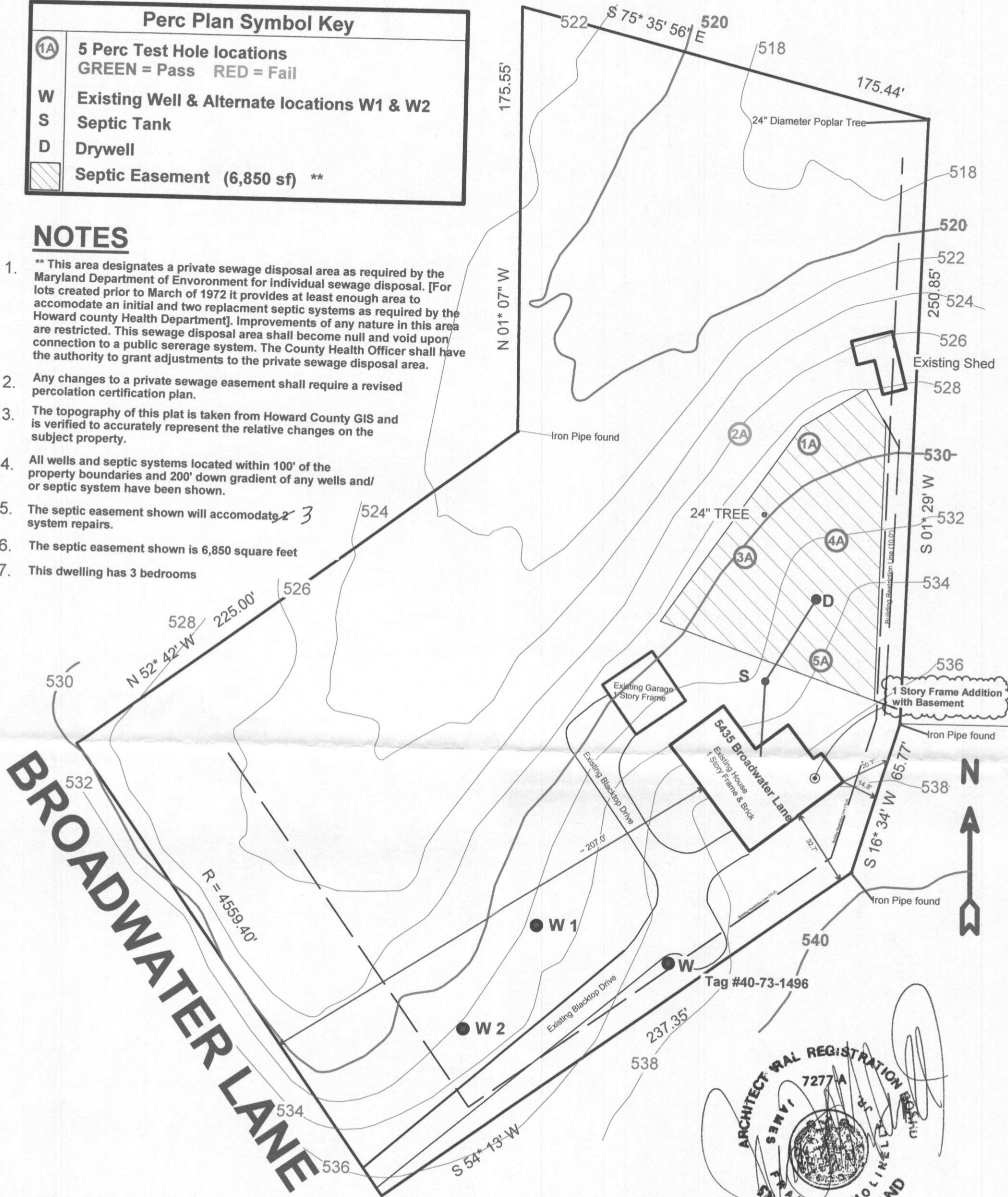
I certify that the information shown hereon is based on work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.

P	July 1, 2011	Delauney Perc Cert Plan	ARDO CONTRACTING, INC. 410-290-9899
		5435 Broadwater Lane Clarksville, MD 21029	

Perc Plan Symbol Key	
(1A)	5 Perc Test Hole locations GREEN = Pass RED = Fail
W	Existing Well & Alternate locations W1 & W2
S	Septic Tank
D	Drywell
	Septic Easement (6,850 sf) **

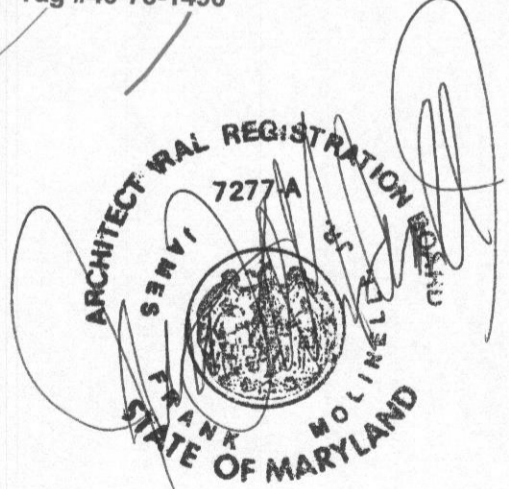
NOTES

- ** This area designates a private sewage disposal area as required by the Maryland Department of Environment for individual sewage disposal. [For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard county Health Department]. Improvements of any nature in this area are restricted. This sewage disposal area 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 disposal area.
- Any changes to a private sewage easement shall require a revised percolation certification plan.
- The topography of this plat is taken from Howard County GIS and is verified to accurately represent the relative changes on the subject property.
- All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic system have been shown.
- The septic easement shown will accommodate 2-3 system repairs.
- The septic easement shown is 6,850 square feet
- This dwelling has 3 bedrooms



"Approved for Private Water and Private Sewerage Systems"
B. Nylan for Peter Bzelewon 7/19/11
 Health Officer Howard County Health Dept. Date

I certify that the information shown hereon is based on work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.



P

July 1, 2011

Delauney Perc Cert Plan
 5435 Broadwater Lane
 Clarksville, MD 21029

ARDO
 CONTRACTING, INC.
 410-290-9899