

APPLICATION

PERCOLATION TESTING

A _____

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Elm Street Development

ADDRESS 6820 Elm Street, Suite 200, McLean, VA 22101 PHONE (703) 734-9730

AGENT OR PROSPECTIVE BUYER Mildenberg Boender And Assoc.

ADDRESS 5072 Dorsey Hall Drive, Ellicott City MD, 21042 PHONE 410 997 0296

PROPERTY LOCATION:

SUBDIVISION Shapiro Property LOT NO. 10

ROAD AND DESCRIPTION Long Corner Road, 1500 ft South of New Cut Road/Long Corner Road intersection.

TAX MAP 6,12 PARCEL # 9

SIZE OF LOT 45,365 Sq.ft. TYPE BLDG. Single Family Dwelling
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

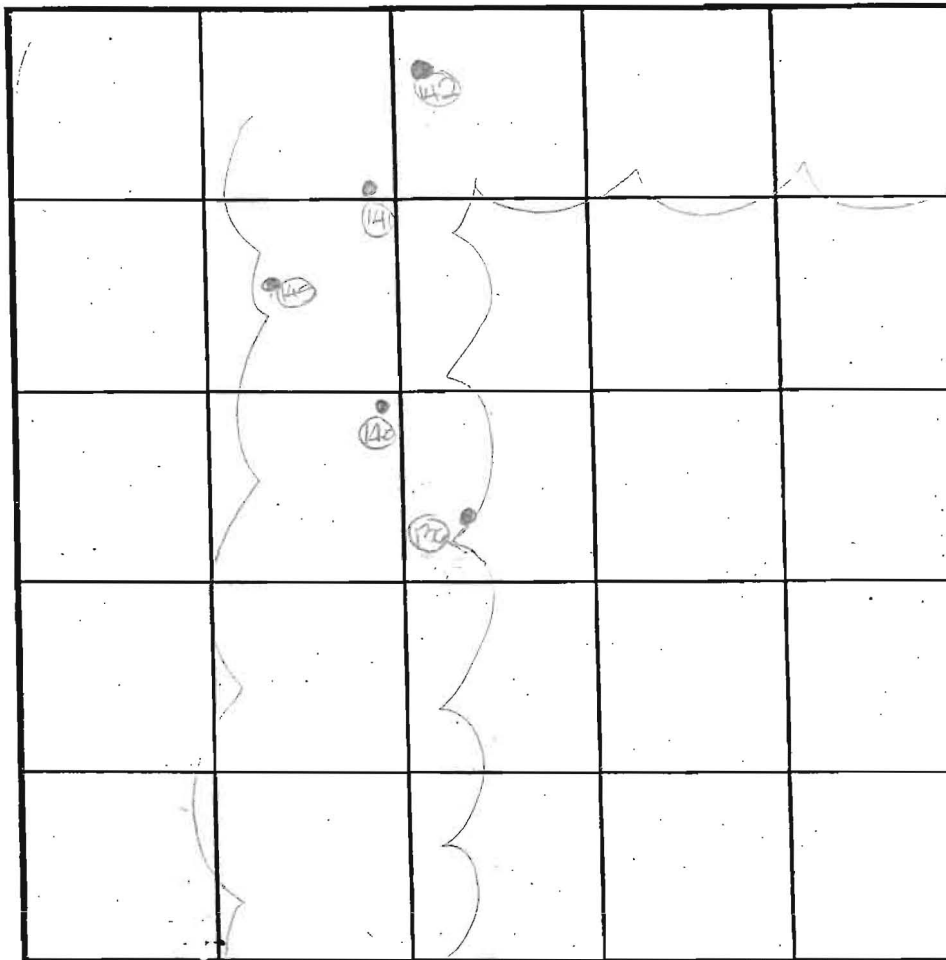
COUNTY #

SOIL PROFILE

0' 142
topsoil
1' red
org btm
cl lm
30% sh
5-5'
6' 141
14 red
brn
sl lm
60% sh
9' Refusal

0' 141
topsoil
4' org btm
cl lm
4.5' 14
sl lm
40% sh
10' Refusal

0' 136
topsoil
1' red org
brn
cl lm
3' 14
14 org
brn
sl lm
40-50% sh
9.5' Refusal



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Long Corner Road

SOIL PROFILE

0' 145
topsoil
1' org btm
cl lm
4' 40-50% sh
4' mrd
org btm
sl lm
40-50% sh
10' Refusal
140
topsoil
1' red org
brn
cl lm
4.5' 14
14 brn
sl lm
40-50% sh
10.5' Refusal

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-1-01	142	9.0' D	Refusal	1-see	profile		FAIL
	141	4.5' S	10:47	10:52	10:52	11:02	10
		10.0' D	Refusal	1-see	profile		OK
	136	4.0' S	11:13	11:26	11:26	11:56	FAIL
		9.5' D	Refusal	1-see	profile		FAIL
	145	4.0' S	11:33	11:38	11:38	11:48	10
		10.0' D	Refusal	1-see	profile		OK
	140	3.5' S	11:58	12:28	12:28	SLOW	
		10.5' D	Refusal	1-see	profile		OK

REMARKS

holes tested as stacked

TYPE OF SOIL

TESTED BY

DLC/KG

ALSO PRESENT

GTA-Marty

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

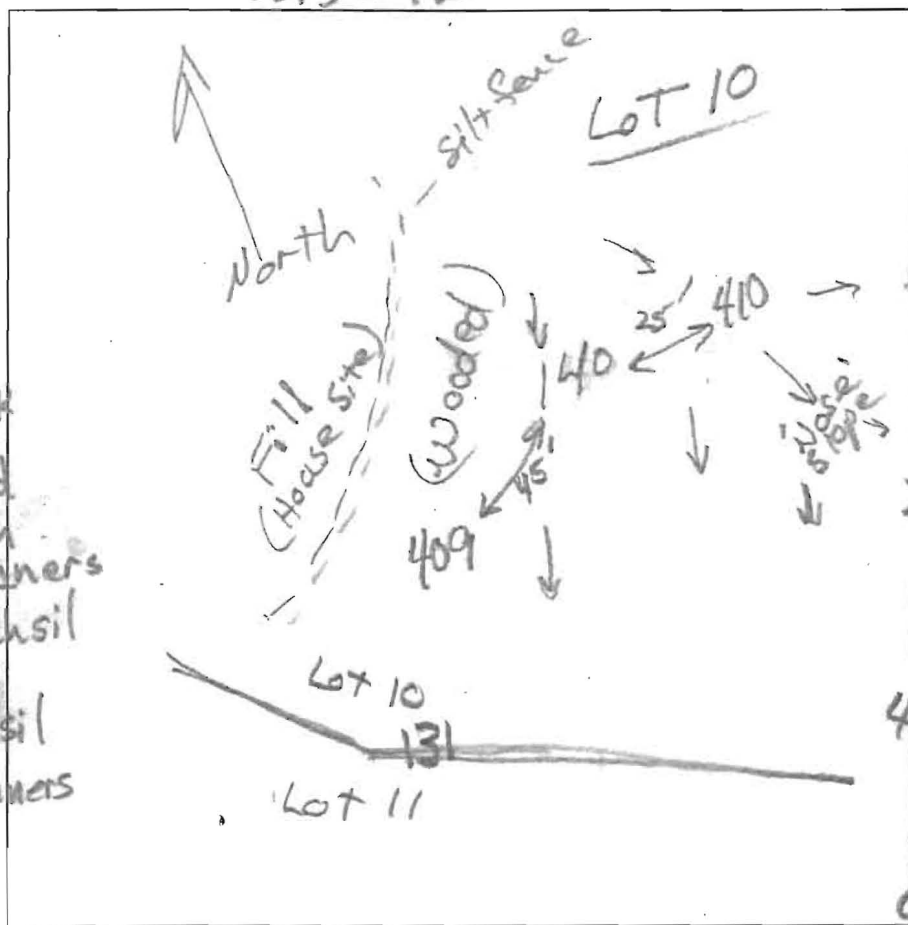
SQ. FT/BEDROOM

Lots 8 & 10

409

408

brn sil
2 v/sbk
to 1 f/sbk
1' brn chl
2 v/sbk
1.7' yellow-red
chl, 1 f/sbk
4.5' pale yel-red
vch sil on
35-40% channers
8.5' yellow &
pale yellow ch sil
11' yellow
pale yellow vch sil
~55-60% channers



brn L
1 v/sbk
to 1 f/sbk
brn L, 2 f/sbk
few channers
1.8' brn vch L
strong thick
platy,
rock-control
structure

2.6' vel-red
ch sil
30% channers
m. 1 f/sbk (blk)
4.5' yellow
& pale yellow
1 ch sil

white &
pale brn
vch sil
45-50%
channers

410

brn L, 1 v/sbk
0.5' yellow
1 f/sbk
few channers
1.5' yellow-red
4' vch L
yel-red
vch sil, 45-50% rock frag.
9.2' H. brn
vch sil
55-60% rock
frag.

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/25/14	408	6.5' 11'	2:35	2:40	2:50	10	P
7/25/14	409	5.7' 11'	3:37	3:40	3:44	4	P
7/25/14	410	9.2	Visual	4-5.2	0.8 gpd/s ²		P

#408 is on Lot 8; only Lot 10 is in sketch

#410 OK, but keep system primarily on side slope

REMARKS

SANITARIAN

R Bricker

BACKHOE

Dannie (H. Fields)

OTHERS

Jason Van Kirk

TEST HOLES USED IN SDA

Hoswald

Adolfo, Pedro

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE S/W

COUNTY #

SOIL PROFILE

0'

topsoil

org brn
cl lm5.5'
6'11' brn
sl lm
30% sh

8.5'

Refusal

120/124

topsoil

org brn
cl lm

6'

14'
gr brn
sl lm
60% sh

7.5'

Refusal

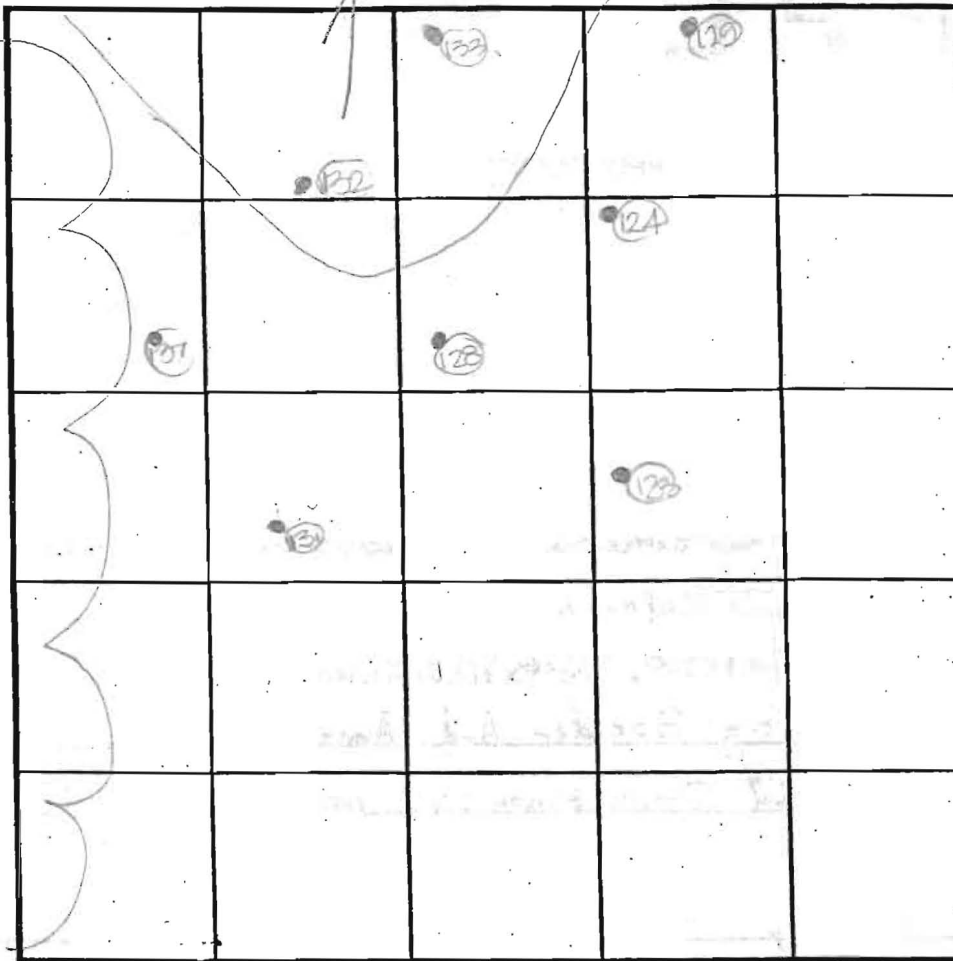
137/125

topsoil

org brn
cl lm5'
5.5'14' brn
sl lm
wo/loch

8.5'

Refusal



SOIL PROFILE

0'

topsoil

org brn
cl lm
20-30% sh

5'

red org
brn
sl cl
lm
25% sh

8.5'

Refusal

10.5'

topsoil

org brn
cl lm

8.5'

Refusal

10.5'

gr brn
sl lm
40% sh

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Long Corner Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-31-01	131	8.5' D	Refusal	See	profile		FAIL
	120	7.5' D	Refusal	See	profile		FAIL
	123	5.0' D	Refusal				FAIL
	137	8.5' D	Refusal	See	profile		FAIL
	132	4.5' S	12:11 ₃	12:28 ₃	12:28 ₃	12:50 ₃	22
		9.0' D	Refusal	See	profile		FAIL
	124	4.0' S	12:14 ₃	12:19 ₃	12:19 ₃	12:27 ₃	18
		9.0' D	Refusal	See	profile		FAIL
	125	9.0' D	Refusal	See	profile		FAIL
	133	10.5' D	Refusal	See	profile		FAIL

REMARKS

holes tested as stake d

TYPE OF SOIL

TESTED BY

DCC

ALSO PRESENT

Dave Korn

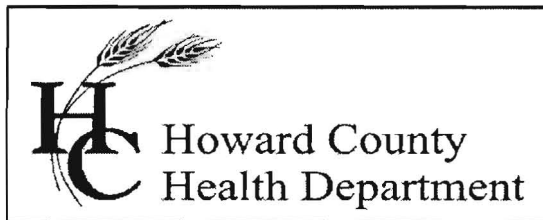
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT/BEDROOM



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-1771 | 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

DATE: February 25, 2016

TO: Terry Fisher
Fisher, Collins & Carter

FROM: Robert Bricker, Environmental Sanitarian II
Well and Septic Program

RE: Chelsea Knolls Lot 10

I have reviewed the Percolation Certification Plan revision for Lot 10. The plan will not be signed due to several errors in the LEGEND section.

The LEGEND entries, issue, and recommended edit follow:

'Denotes Proposed House', symbol not utilized, delete

'Denotes Soil Profile Appropriate for Mound System', none illustrated, Delete

'Forest Conservation Easement -Aforestation', not listed, Add with symbol

You may come to the Health Department to do these edits, or with your permission I can strike or white-out the entries to be deleted while adding the one that hasn't been listed. An alternative would be to re-submit the Perc Cert with corrections.

Please advise me of your choice of action.

If you have questions related to this inquiry, you may reply to me via email, rbricker@howardcountymd.gov, or call my desk, 410-313-2691.

Copy: file

Bricker, Robert

From: Snyder, Daren <~~DSnyder@hcc.com~~>
Sent: Wednesday, February 24, 2016 12:54 PM
To: Bricker, Robert
Cc: ~~'Stephanie@hcc.com'~~ (Stephanie@hcc.com)
Subject: RE: Chelsea Knolls Lot 10 Perc Cert revision and BAT Plan

Sir...good afternoon...I understand that Steph delivered the revised BAT plan to your office yesterday...are you able to advise on when you will be able to review the plan...we are tentatively scheduled to start this home on Monday 2/29/16...I understand you are busy and we are not the only project you have in front of you but any information would be appreciated...thanks for your help

Daren M Snyder
Construction Cost Manager
Ryan Homes | Baltimore Howard Division
9720 Patuxent Woods Drive
Columbia, MD 21046
410.796.8980
~~dmsnyder@hcc.com~~

FVI

From: Bricker, Robert [mailto:~~RBricker@howardcountymd.gov~~]
Sent: Wednesday, February 17, 2016 4:45 PM
To: Stephanie Tuite (~~Stephanie@hcc.com~~)
Cc: Snyder, Daren
Subject: Chelsea Knolls Lot 10 Perc Cert revision and BAT Plan

Revisions are needed; see attached PDF.

ROBERT BRICKER, REHS/R.S., L.E.H.S.
ENVIRONMENTAL SANITARIAN II
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
8930 STANFORD BLVD., COLUMBIA, MD 21045

Phone: Desk, ~~410-313-2691~~; Program, ~~410-313-1771~~; Bureau, ~~410-313-1774~~
Fax: ~~410-313-2648~~

E-mail: ~~rbricker@howardcountymd.gov~~

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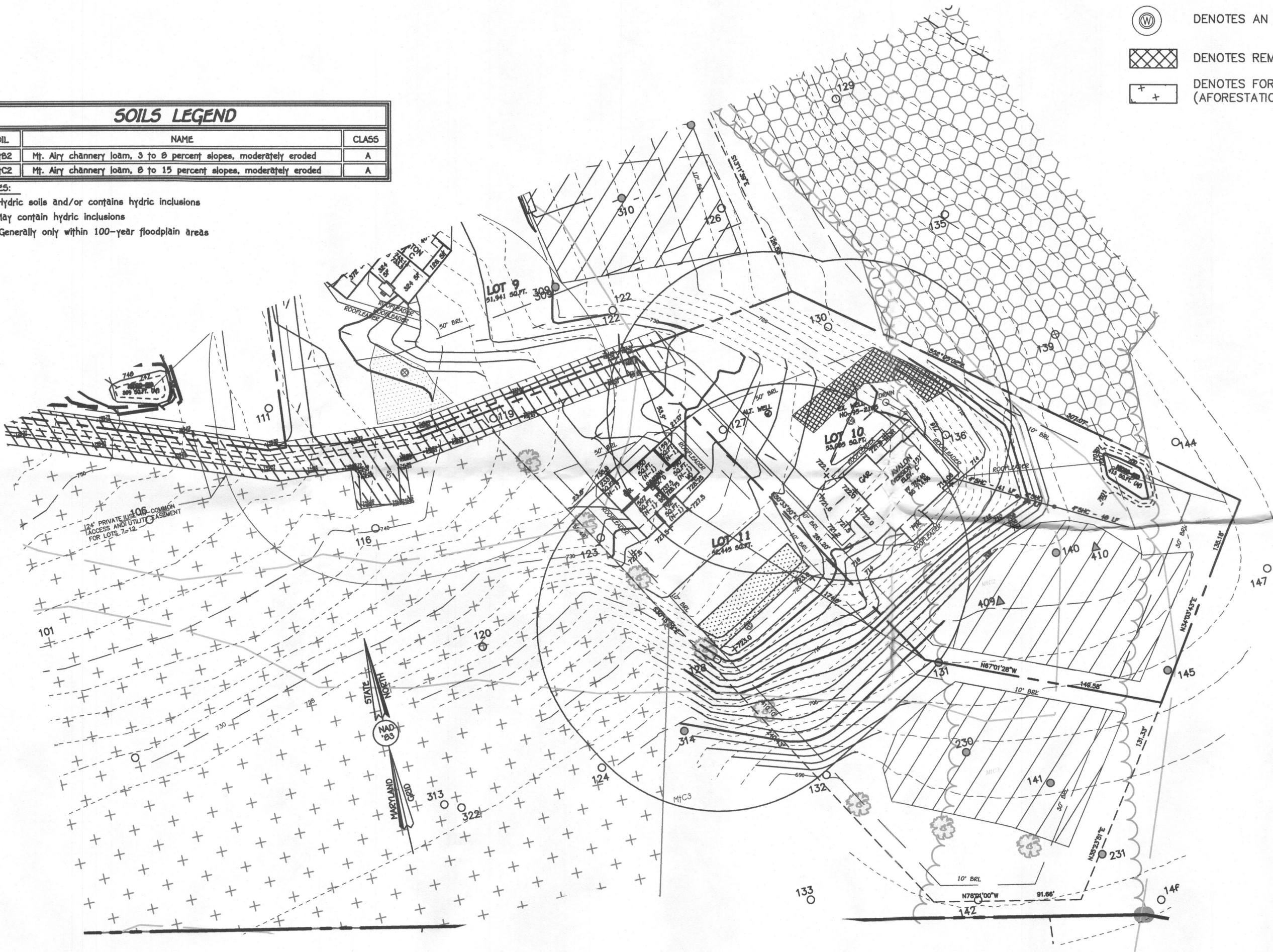
I:\2013\130388.dwg\130388 Perc Plan Lot 10.dwg, 2/26/2016 6:40:27 AM, 1:1

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461 - 2855

SOILS LEGEND		
SOIL	NAME	CLASS
HYB2	Ht. Airy channery loam, 3 to 9 percent slopes, moderately eroded	A
HYC2	Ht. Airy channery loam, 0 to 15 percent slopes, moderately eroded	A

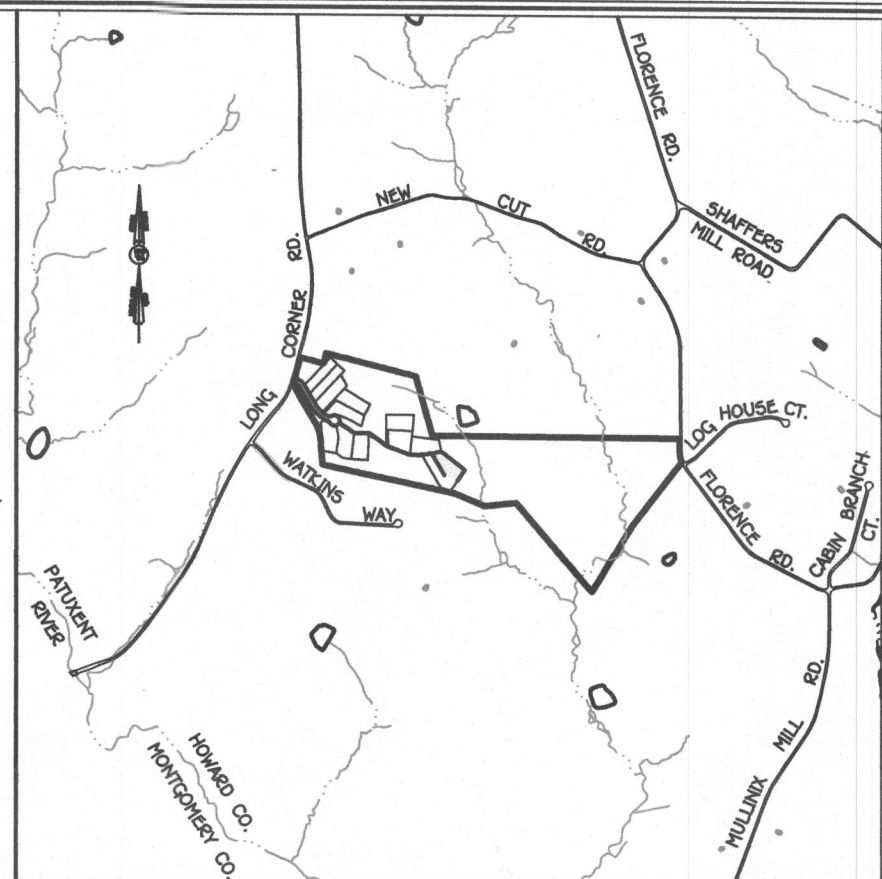
NOTES:

- Hydric soils and/or contains hydric inclusions
- ** May contain hydric inclusions
- † Generally only within 100-year floodplain areas



LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- DENOTES FAILED PERC
- ⊙ DENOTES PASSED PERC
- ⊙ DENOTES PROPOSED HOUSE
- ⊙ DENOTES EXISTING FOREST CONSERVATION EASEMENT
- ⊙ DENOTES 1500 Sq.Ft. ALTERNATE WELL ZONE
- ▲ DENOTES PASSED PERC JULY-2014
- ⊙ DENOTES AN EXISTING WELL
- ⊙ DENOTES REMOVED WELL BOX
- ⊙ DENOTES FORESTATION CONSERVATION EASEMENT (AFORESTATION)



VICINITY MAP

SCALE : 1" = 2000'

GENERAL NOTES:

- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET 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.
- ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOTS SHOWN HEREON COMPLY 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 ALL REASONABLE EFFORTS.
- ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 2' CONTOUR INTERVAL AND SUPPLEMENTED BY FIELD RUN TOPOGRAPHY BY MILDENBERG, BOENDER AND ASSOC. ON OR ABOUT SEPT. 2007.
- BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
- ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- PLAT REFERENCE 22016-22019.
- ON EVERY LOT IN THIS SUBDIVISION, ALL SEPTIC SYSTEM EFFLUENT DISTRIBUTION WILL BE BY PRESSURIZED SYSTEMS. AS IT FOLLOWS, ALL SEPTIC SYSTEM INSTALLATION PLANS MUST INCLUDE LOW-PRESSURE DISTRIBUTION DESIGN.

PERC CERTIFICATION

I certify that the locations shown hereon are based on field locations done under my direct supervision and to the best of my professional knowledge and belief.

Signature of Professional Land Surveyor
Terrell A. Miller, Professional Land Surveyor No. 10692 Expires 12/13/17

Date
2/23/16

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

Signature of County Health Officer
COUNTY HEALTH OFFICER

Date
3/2/2016

**PERC RECERTIFICATION PLAN
CHELSEA KNOLLS**

LOT 10

ZONING: RC-DEO
TAX MAP No. 12 GRID No. 5 PARCEL No. 7B
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 60'
DATE: FEBRUARY 23, 2016

OWNER

CHELSEA KNOLLS, LC
1355 BEVERLY RD. SUITE 240
MCLEAN, VIRGINIA 22101 (703)
734-9730
(301) 720-3021

DEVELOPER

RYAN HOMES, INC.
ATTN: KEVIN BOWSER
9720 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
410-796-0980

Purpose Note

PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN REVISION IS TO
REVISE LOT 10 WELL BOX TO AN EXISTING WELL AND 1 ALTERNATE WELL SITES.

I:\2013\13038.dwg Perc Plan Lot 10.dwg, 2/26/2016 6:40:27 AM, 1:1

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

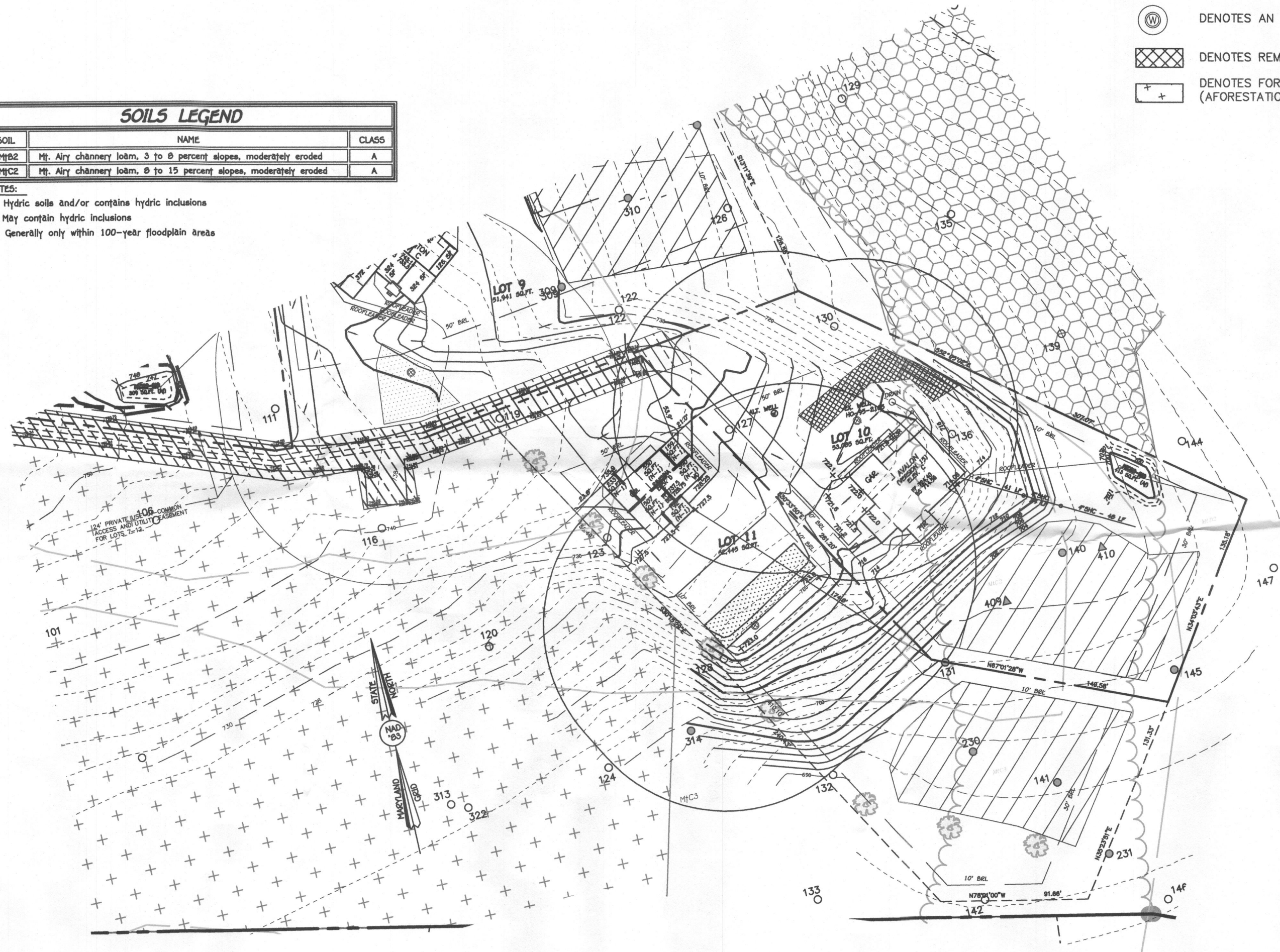
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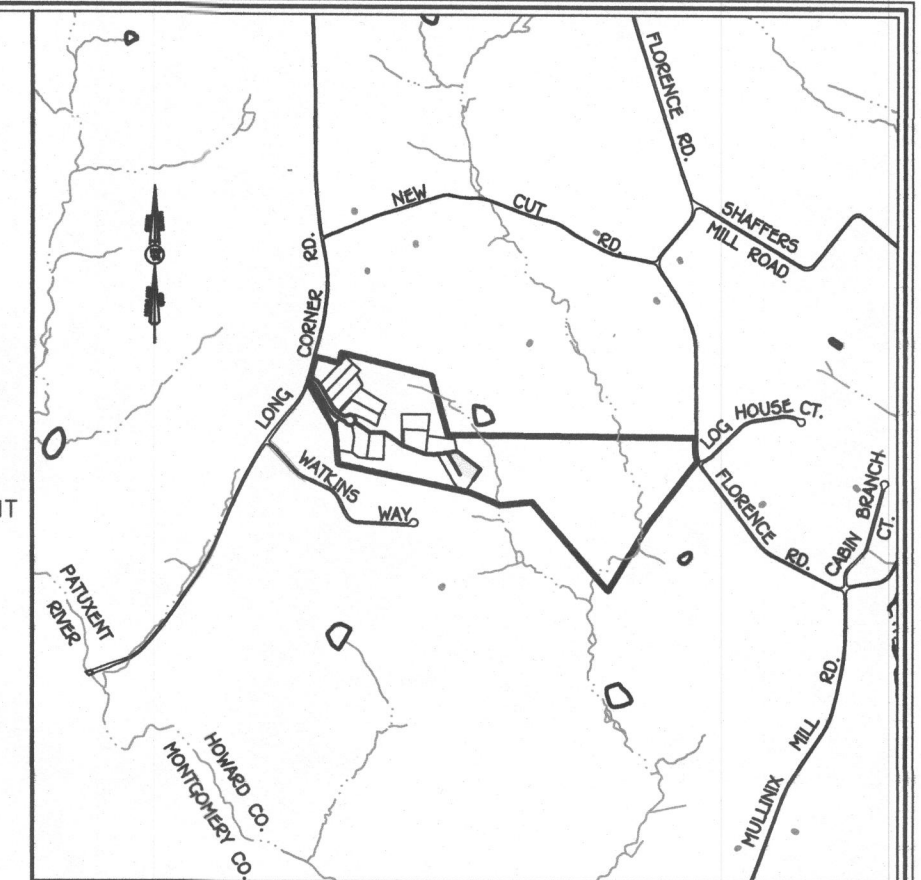
SOILS LEGEND		
SOIL	NAME	CLASS
MB2	Mt. Airy channery loam, 3 to 8 percent slopes, moderately eroded	A
MC2	Mt. Airy channery loam, 8 to 15 percent slopes, moderately eroded	A

NOTES:
• Hydric soils and/or contains hydric inclusions
** May contain hydric inclusions
† Generally only within 100-year floodplain areas



LEGEND

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- EXISTING 10' CONTOURS
- SOIL LINES AND TYPES
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- DENOTES FORESTATION CONSERVATION EASEMENT (AFFORESTATION)



VICINITY MAP
SCALE : 1" = 2000'

GENERAL NOTES:

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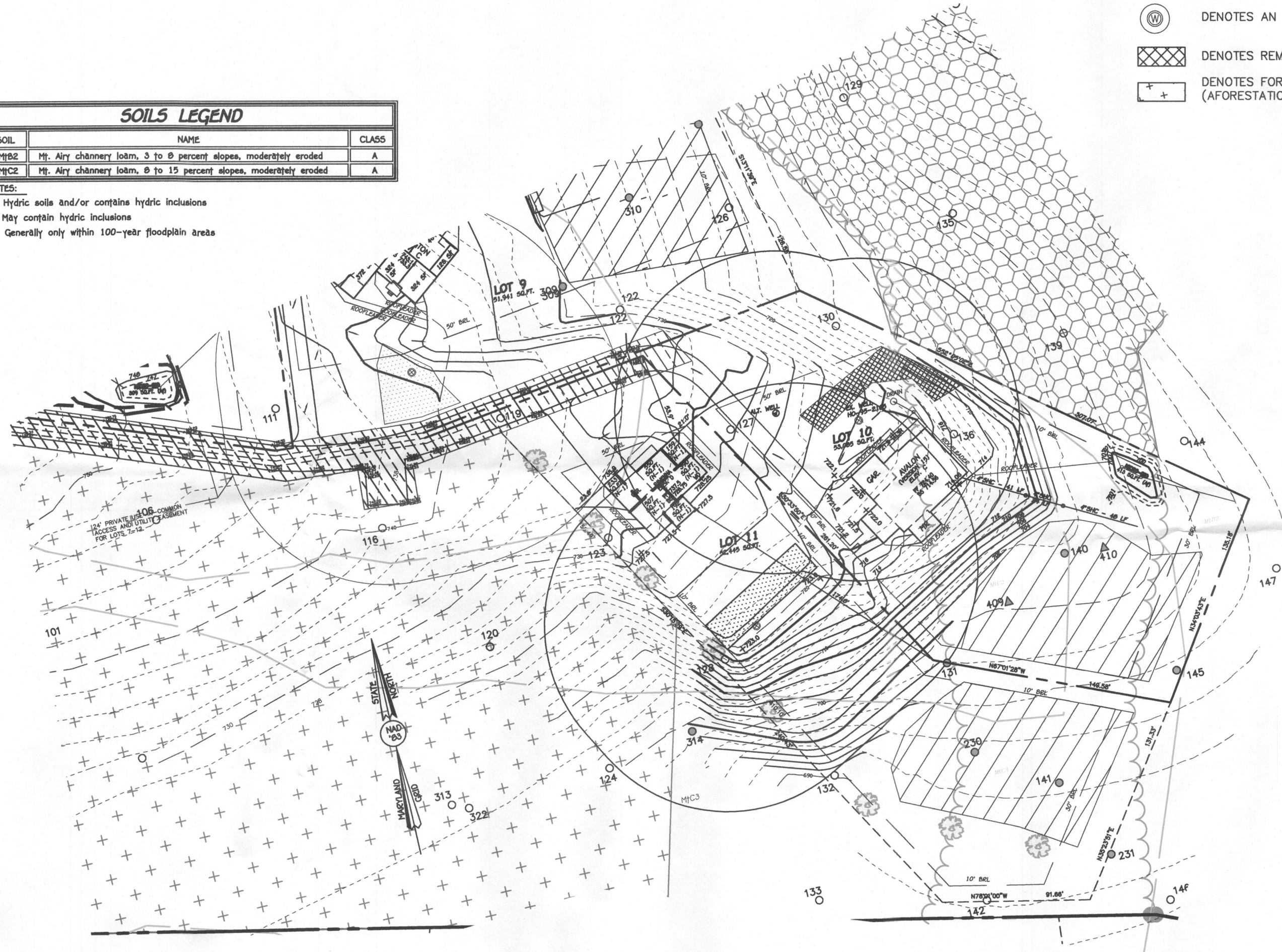
LOT 10
ZONING: RC-DEO
TAX MAP No. 12 GRID No. 5 PARCEL No. 78
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 60'
DATE: FEBRUARY 23, 2016

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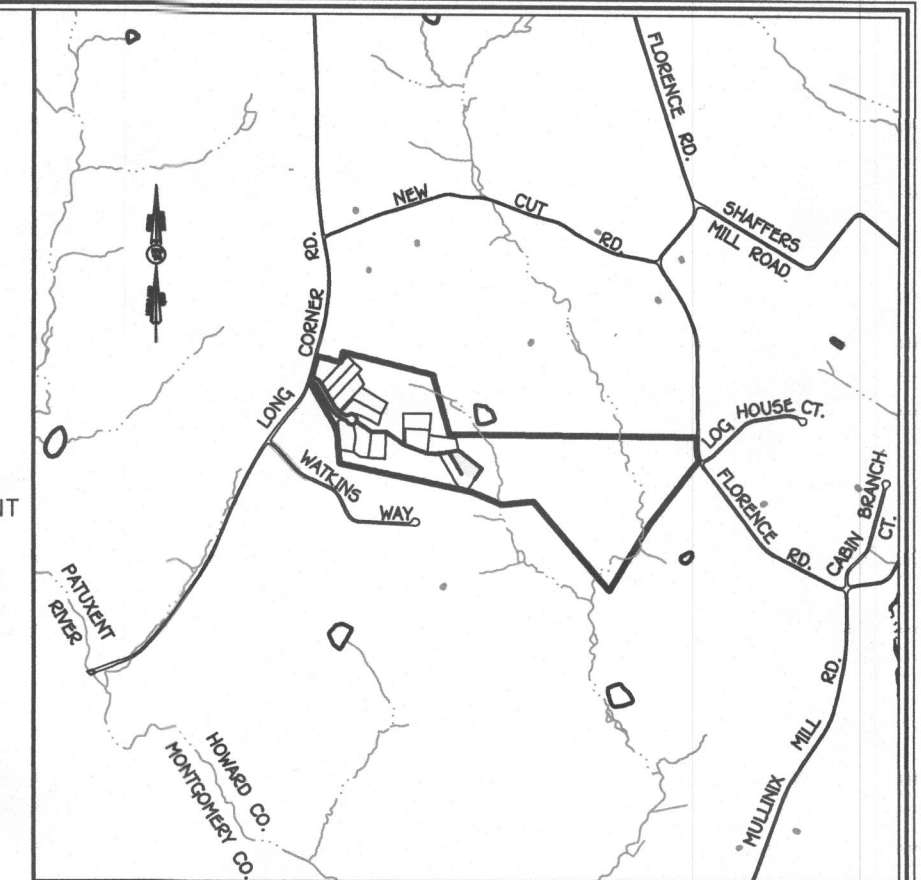
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PERC CERTIFICATION

I certify that the locations shown hereon are based on field locations done under my direct supervision and to the best of my professional knowledge and belief.

Signature of Professional Land Surveyor: *Terrell A. Proctor* Date: *2/23/16*

Terrell A. Proctor, Professional Land Surveyor No. 10692 Expires 12/13/17

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

B. Wilson for Maureen Rossman Date: *3/2/2016*

COUNTY HEALTH OFFICER

**PERC RECERTIFICATION PLAN
CHELSEA KNOLLS**

LOT 10
ZONING: RC-DEO
TAX MAP No. 12 GRID No. 5 PARCEL No. 7B
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 60'
DATE: FEBRUARY 23, 2016

OWNER
CHELSEA KNOLLS, LC
1355 BEVERLY RD. SUITE 240
MCLEAN, VIRGINIA 22101 (703)
734-9730
(301) 720-3021

DEVELOPER
RYAN HOMES, INC.
ATTN: KEVIN BOWSER
9720 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
410-796-0980

Purpose Note
PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN REVISION IS TO
REVISE LOT 10 WELL BOX TO A EXISTING WELL AND 1 ALTERNATE WELL SITES.