

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. TK 6

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 43,433 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' (62)
 1' Topsoil
 red brn
 Cl 1m
 Shale frag
 3 1/2'
 35%-40% Shale frag
 org brn
 Si 1m
 8' >50% rock
 frags
 9' Water

(69)
 1' Topsoil
 brn
 Cl 1m
 2 1/2-3'
 Rd brn
 Cl 1m
 11-12'
 >50% Rock frag
 brn si
 1m
 12' Refusal

(63)
 1' Topsoil
 rd brn
 Cl 1m
 25-30% Rock
 frag
 5'
 70% Rock frag
 H brn
 si 1m
 8' Refusal

SOIL PROFILE

0' (56)
 1' Topsoil
 brn cl
 1m
 20% Rock
 frag
 rd brn
 Cl 1m
 4 1/2'
 rd org brn
 si 1m
 35%+ sh
 10'2" Refusal

(64)
 0' Topsoil
 1' rd brn
 Cl 1m
 25-30% Rock
 frag
 5'2" Refusal
 8' Refusal

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Long corner Rd

DATE	TEST NO.	DEPTH	PRE-WET		TEST 4" DROP		TIME
			START	STOP	START	STOP	
7-11-01	62	9' D	Water	- See profile			FAIL
	69	5 1/2' S	11:01	less than 11:31 11:01	11:31	11:31	FAIL
		12' D	Refusal	- See profile			FAIL
	55	2.5' D	Refusal				FAIL
	63	8' D	Refusal	- see profile			FAIL
	(56)	5' S	11:15.30	11:21.30	11:21.30	11:31	10
		10'2" D	Refusal	- see profile			OK
	(64)	8' D	Refusal	- see profile			FAIL
	70	3 1/2' D	Refusal				FAIL

REMARKS

holes tested as stated

TYPE OF SOIL

TESTED BY

DKC / KG

ALSO PRESENT

GTA - NORTON

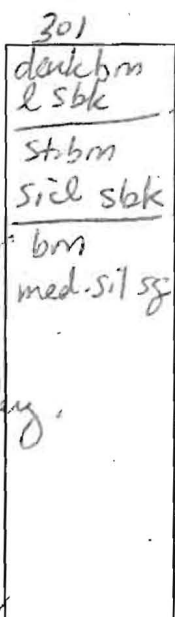
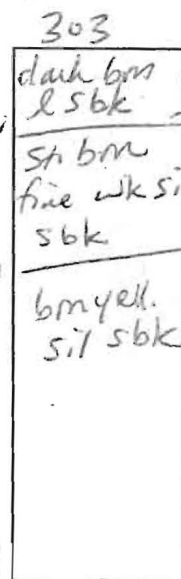
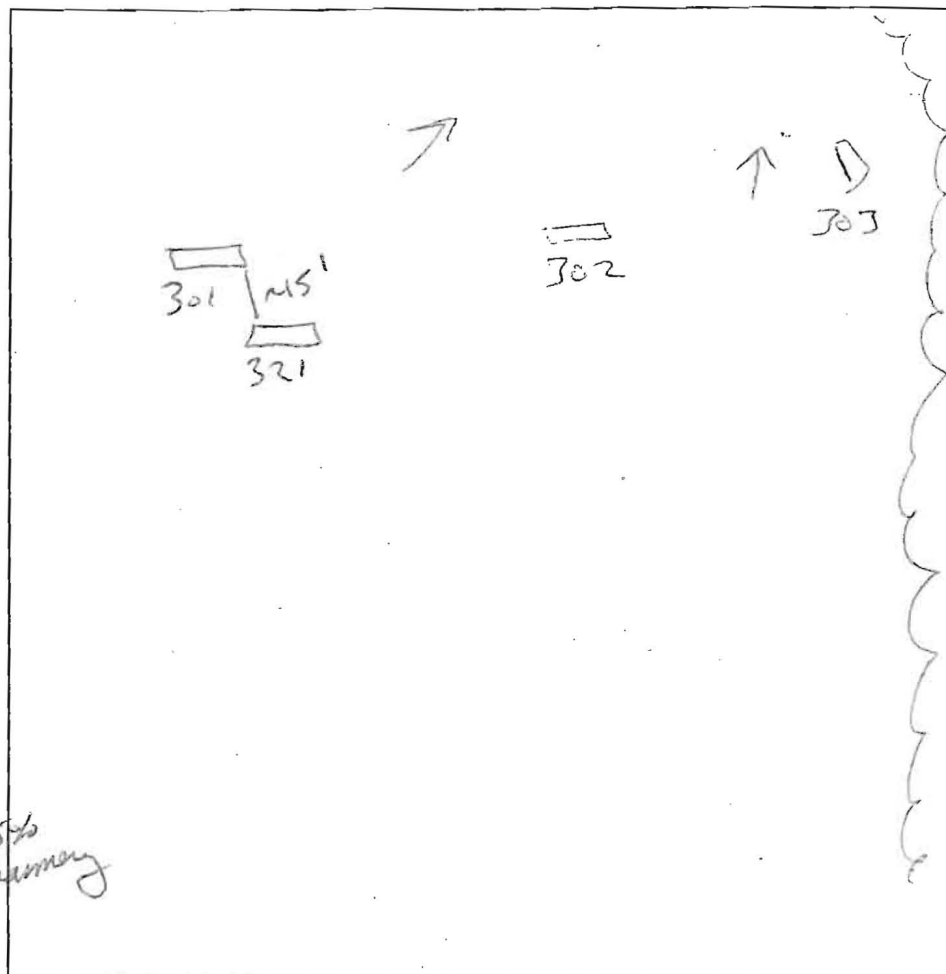
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

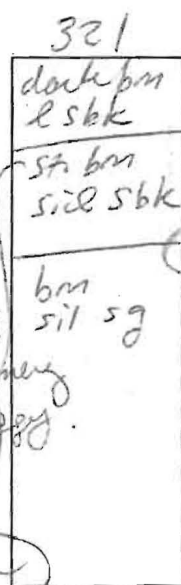
INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/7/08	302	5'5" 10'5"	2:04	2:10	2:22	12	P
	303	5'10"	2:17				
	"	6'	2:47	2:55	3:09	15	P
	301	5'5" 11'5"	2:37	2:50	No to end inch		F
5/8/08	321	4'12" 9'	9:04	9:10	9:25	15	P

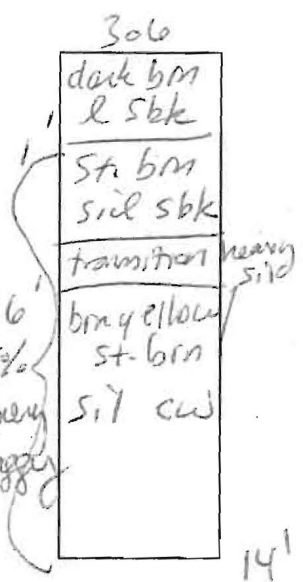
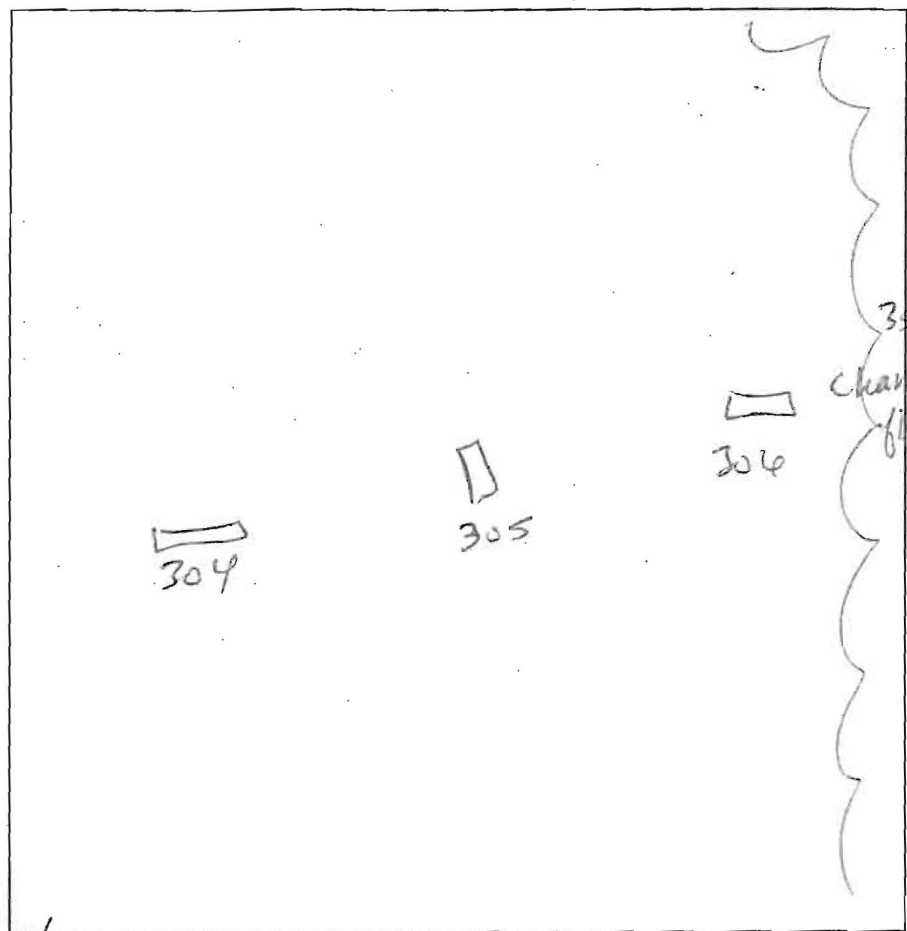
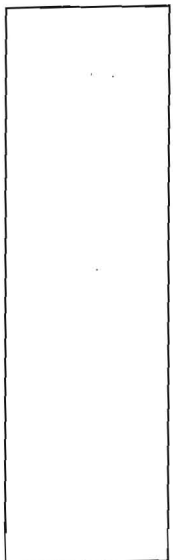


REMARKS dugger plan except # 321 ~15' from # 301
 SANITARIAN SS BACKHOE _____ OTHERS M. Mitchell G.A.
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

10'5" refusal

ET
St
Det

AP Lot 5



304
dark brn
l sbk
brn yellow
silt dense
4' yellow, brn red
heavy silt
35-40%
channery
flaggy
brn yellow
silt sg
11' refusal

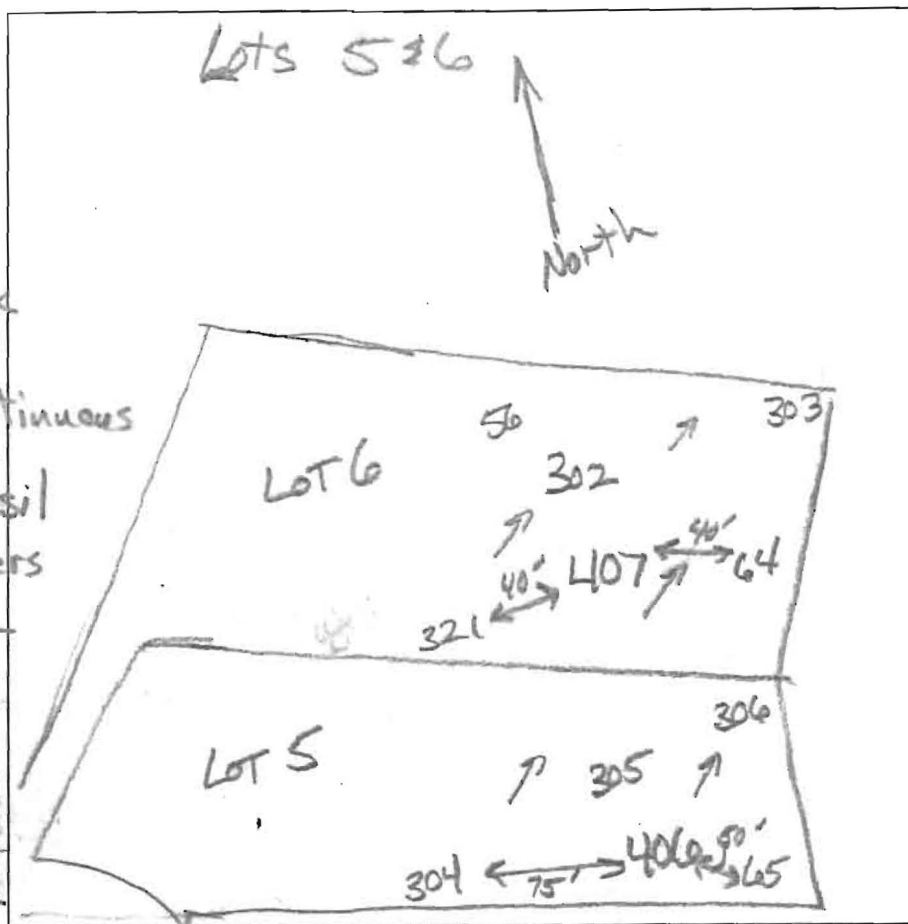
305
dark brn
l sbk
1' st. brn
silt
dense
heavy silt
4' brn yellow / st. brn
35%
channery
med. silt clw
10' refusal

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/7/08	304	5' 11"	12:58	No movement			—
	"	6'	1:24	1:30	1:54	24	P
	305	5' 5" / 10'	1:07	1:09	1:12	3	P
	306	7' 14"	1:42	1:48	2:03	15	P

REMARKS Holes dug per state #305 & #306
 SANITARIAN SS BACKHOE _____ OTHERS M. Hitzel GFA
 TEST HOLES USED IN SDA _____ AVG. PERC TIME H. Chaiten SQ. FT/BR Elm St Dev
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

407
 brn sil
 9" 2 v f s b k
 yel-brn
 24" v c h l, 1 f s b k
 yel sil
 Thin discontinuous
 28" layer
 brn vch sil
 60-65% channers
 80" (6.7')

406
 brn ch sil
 9" yel-brn ch l
 2 f s b k
 21" brn vch sil
 40% channers
 43" yel-brn vch sil
 55-60% channers
 68" (5.7')



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/25/12	407	9"	30-40 min/inch				
	406	9"	30-40 min/inch				

#407 & #406 OK for Sand Mounds

REMARKS

SANITARIAN

TEST HOLES USED IN SDA

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE SW

407 ~10% slope ; 406, ~11% slope

R. Bricker

BACKHOE

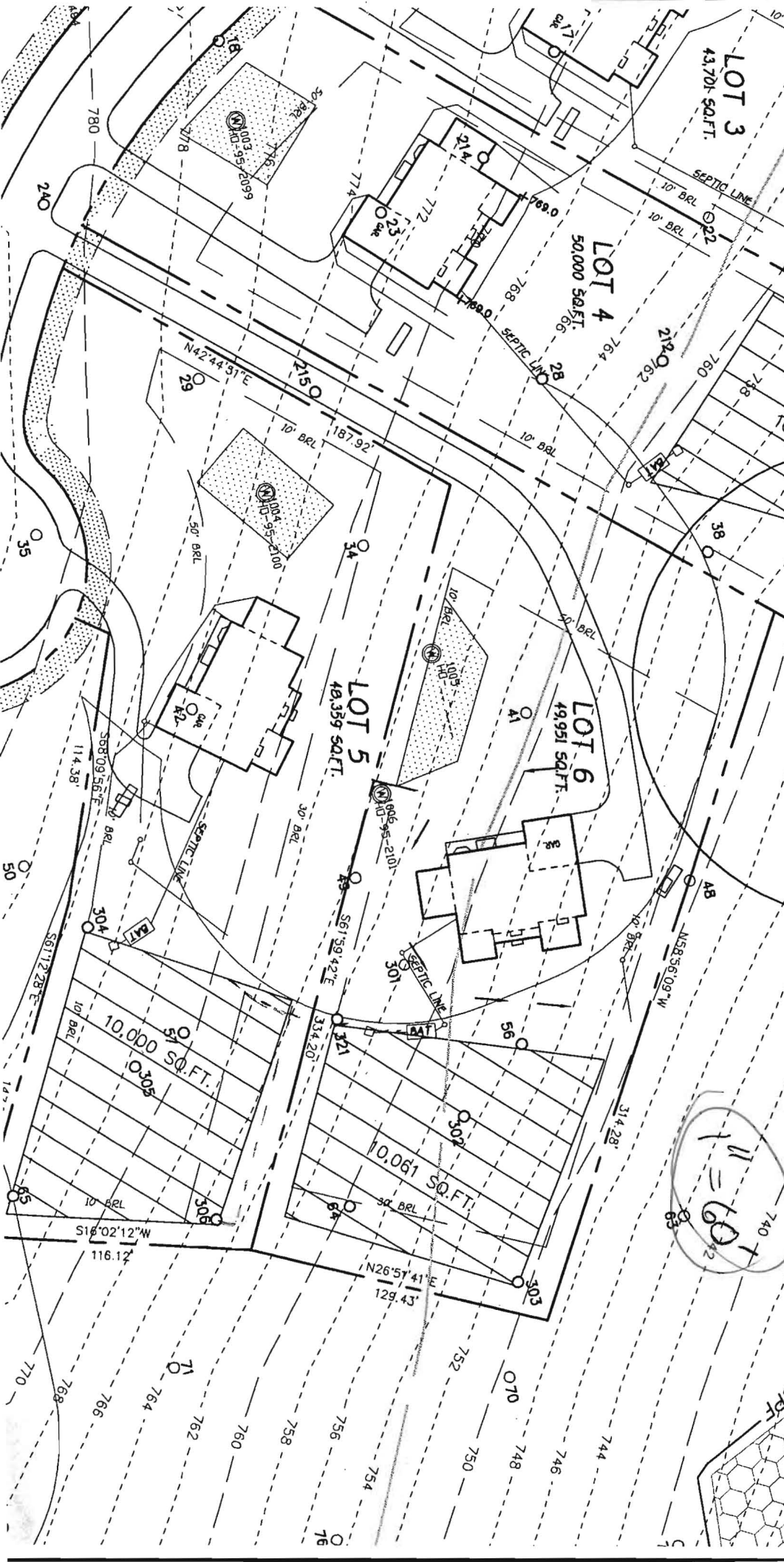
Dannie

OTHERS

Jason Van Kirk

AVG. PERC TIME

SQ. FT/BR



303-4'10'
 302-3'10.5'
 56-4.5'10'
 4' Avg.

4' = 60"

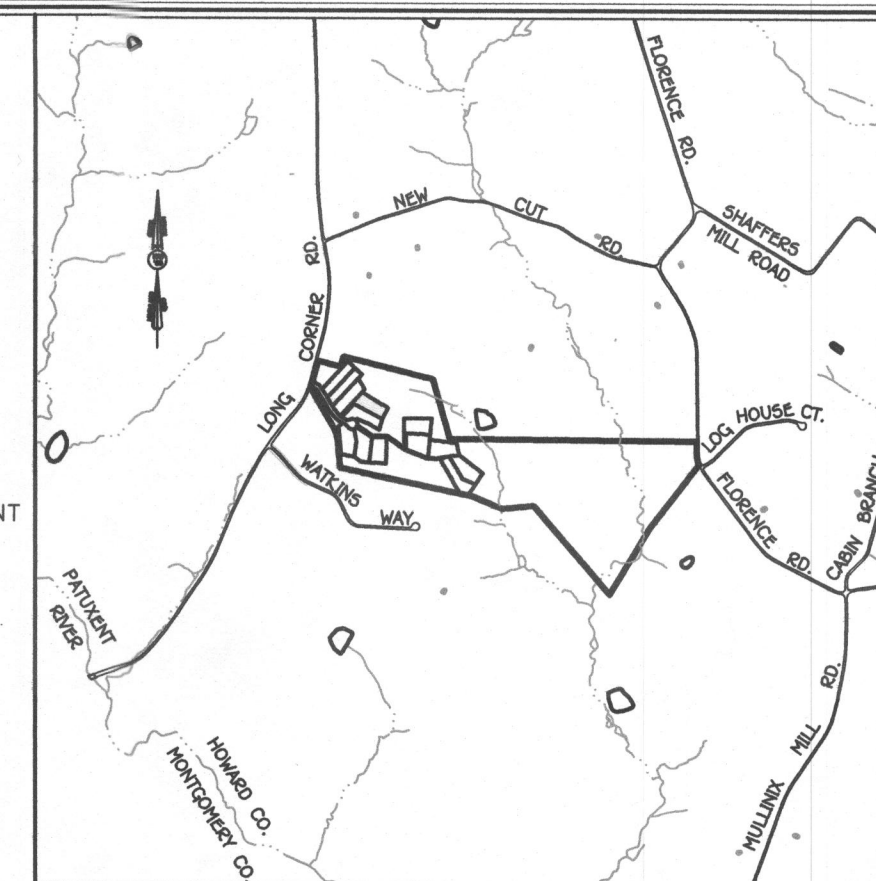
SOILS LEGEND		
SOIL	NAME	CLASS
MtB2	Mt. Airy channery loam, 3 to 8 percent slopes, moderately eroded	A
MtC2	Mt. Airy channery loam, 8 to 15 percent slopes, moderately eroded	A

NOTES:

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

LEGEND

- 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 SOIL PROFILE APPROPRIATE FOR MOUND SYSTEM
- ⊙ DENOTES AN EXISTING WELL



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. 2001.
- BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE 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.
- THE WELL ON LOT 6 WAS ESTABLISHED OUTSIDE OF THE APPROVED WELL ZONE AS A REPLACEMENT WELL BY THE WELL DRILLER. IT WAS DISCOVERED BY THE RECORD PLAT THAT THE WELL ON LOT 6 IS LESS THAN 10 FEET FROM THE ESTABLISHED LOT LINE SEPARATING LOTS 5 AND 6.
- 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.
- ON LOTS 5 AND 6, THE APPROVED SEWAGE DISPOSAL AREAS MUST BE EVALUATED FOR MOUND SYSTEMS PRIOR TO INSTALLATION OF ANY REPAIR SEPTIC SYSTEM.

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. Fisher* Date: 12/16/15

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

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

Signature for Monica Roseman: *Monica Roseman* Date: 12/23/2015

COUNTY HEALTH OFFICER

PERC RECERTIFICATION PLAN
CHELSEA KNOLLS

LOT 6

ZONING: RC-DEO

TAX MAP No. 12 GRID No. 5 PARCEL No. 78
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 60'

DATE: December 16, 2015

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 6 WELL BOX TO AN EXISTING WELL AND 2 ALTERNATE WELL SITES.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461-2895