

SOILS LEGEND				
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	.37	NO
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.24	NO
GgC	GELELG LOAM, 8 TO 15 PERCENT SLOPES	B	.24	NO
GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.43	NO
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	.43	YES
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES, VERY ROCKY	B	.28	YES

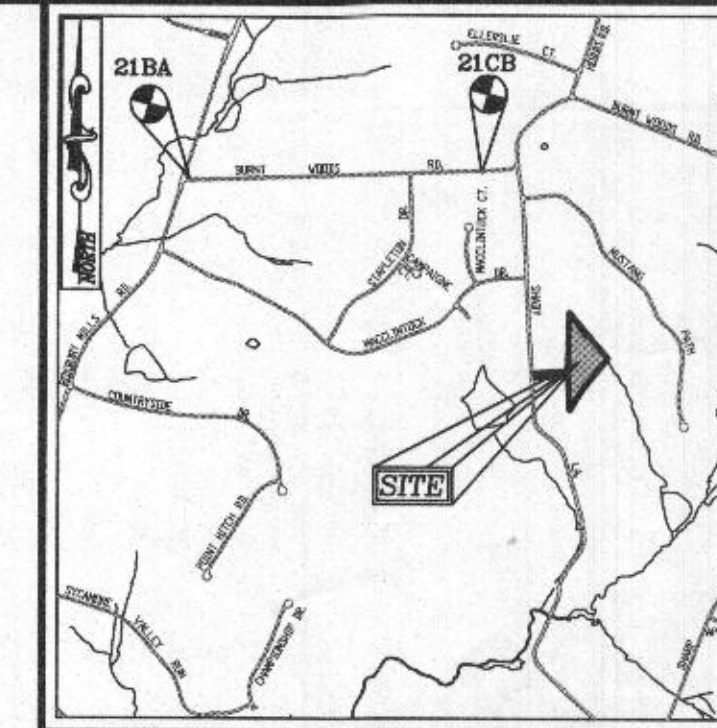
SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE
HOWARD COUNTY SOILS MAP NUMBER 10- WOODBINE SE

NOTE:
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

BENCHMARKS

HOWARD COUNTY BENCHMARK 21BA (CONC. MON.)
N 588,125.19 E 1,303,655.38 ELEV. 532.02
CORNER OF RT-97 & BURNWOODS ROAD

HOWARD COUNTY BENCHMARK 21CB (CONC. MON.)
N 588,188.05 E 1,306,716.71 ELEV. 589.84
BURNWOODS ROAD 300 WEST OF SHADY LANE



VICINITY MAP

SCALE: 1"=2,000'
ADC MAP COORDINATE:
PAGE 17, GRID B7

LEGEND:

	PROPERTY LINE
	EXISTING RIGHT-OF-WAY LINE
	ADJACENT PROPERTY LINE
	EXISTING EDGE OF PAVING
	EXISTING TREELINE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	SOILS
	EXISTING STEEP SLOPES
	EXISTING MODERATE SLOPES
	EXISTING WELL LOCATION
	PASSED PERC. TEST
	EXISTING PRIVATE SDA
	PROPOSED PRIVATE SDA
	PROPOSED WELL BOX

GENERAL NOTES

- THIS SUBJECT PROPERTY IS ZONED RR-DEO.
- PROPERTY OUTLINE SHOWN HEREON IS BASED ON PRECISION INPUT FROM RECORD PLAT #7734, THE KNOLLS, LOTS 3-6, A RESUBDIVISION OF LOT 1, PLAT #7356.
- DEED REFERENCES: LIBER 16930 FOLIO 495
- THE EXISTING TOPOGRAPHY IS BASED ON A FIELD TOPOGRAPHICAL SURVEY PREPARED BY SURVEYS, INC. DATED AUGUST 15, 2016 AND IS SUPPLEMENTED WITH HOWARD COUNTY GIS.
- SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY.
- ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' FROM THE PROPERTY BOUNDARIES HAVE BEEN SHOWN.
- ANY CHANGE TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ADJUSTMENT TO THE SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- 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 THE BEST AVAILABLE INFORMATION.
- THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO ESTABLISH A PRIVATE SEWERAGE DISPOSAL AREA AND WELL LOCATION FOR THE PROPERTY IN ACCORDANCE WITH THE STATE AND COUNTY CODES.

It is represented that the above information was obtained from reliable sources and that the same is true and correct. However, the Engineer does not warrant the accuracy of the information shown hereon. The Engineer's responsibility is limited to the preparation of this plan in accordance with the Maryland State Department of the Environment's requirements. The user of this plan is responsible for the accuracy of the information shown hereon and for the results of any testing or other work performed in connection with this plan. The user of this plan is advised that the use of this plan for any purpose other than that for which it was prepared may result in liability for the user of this plan.

OWNER

KEVIN MITCHELL
LYNETTE MITCHELL
9110 DUNLOUGH RD.
ELLICOTT CITY, MD
(443) 280-0332

NO.	REVISION	DATE
-----	----------	------

PERCOLATION CERTIFICATION REVISION PLAN

MITCHELL RESIDENCE
THE KNOLLS - LOT 4
3415 SHADY LANE
GLENWOOD, MD 21738
5.13 AC.

L. 16930 / F. 495
4TH ELECTION DISTRICT
TAX MAP: 21 GRID: 5

PARCEL: 95
ZONED: RR-DEO
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET
ELLICOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8961

PROFESSIONAL CERTIFICATE

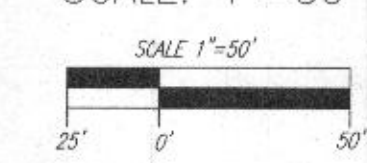
DESIGN BY: RHY
DRAWN BY: JMR
CHECKED BY: RHY
DATE: AUGUST 2017
SCALE: AS SHOWN
W.O. NO.: 17-17

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR UNDER THE CLOSE PERSONAL SUPERVISION OF ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 09-27-2018

1 SHEET OF 1

PLAN SCALE

SCALE: 1"=50'



THIS AREA DESIGNATES A PRIVATE SEWERAGE AREA 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 AREAS 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 AREA. RECONSTRUCTION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.

NOTE:
THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO REVISE THE PREVIOUSLY APPROVED SEWERAGE DISPOSAL AREA AND WELL LOCATION ON LOT 4 IN ORDER TO CREATE MORE ROOM ON THE LOT FOR THE PROPOSED HOUSE.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

Barbara Marie Rossman 11/21/2017
COUNTY HEALTH OFFICER DATE

PERCOLATION 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.

Edward J. Glawe 01 SEPTEMBER 2017
EDWARD J. GLAWE DATE
PROFESSIONAL LAND SURVEYOR, MD REG. NO. 21391

SOILS LEGEND				
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	.37	NO
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.24	NO
GgC	GELELG LOAM, 8 TO 15 PERCENT SLOPES	B	.24	NO
GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.43	NO
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	.43	YES
MoD	MANOR LOAM, 15 TO 25 PERCENT SLOPES, VERY ROCKY	B	.28	YES

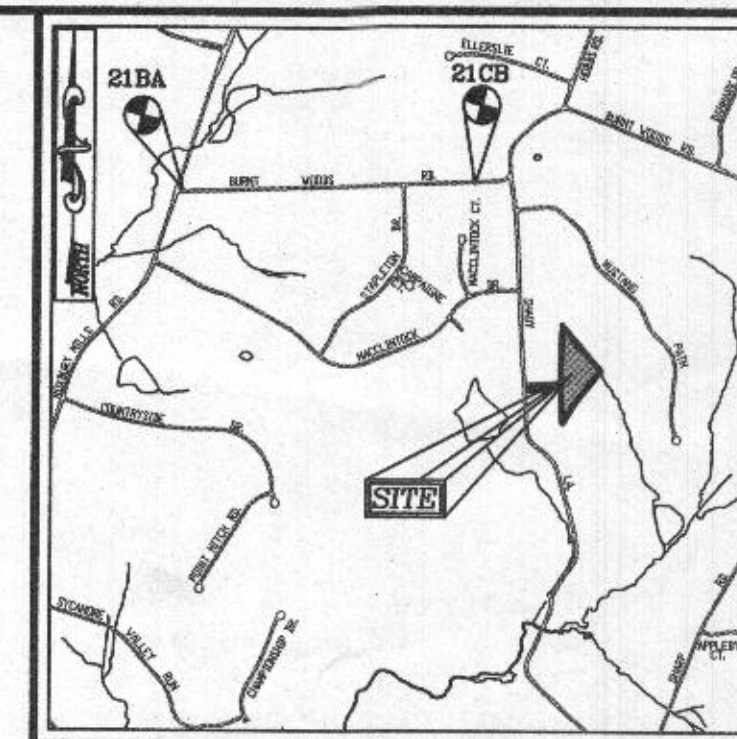
SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE
 HOWARD COUNTY SOILS MAP NUMBER 10- WOODBINE SE

NOTE:
 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

BENCHMARKS

HOWARD COUNTY BENCHMARK 21BA (CONC. MON.)
 N 588,125.19 E 1,303,656.38 ELEV. 532.02
 CORNER OF RT-97 & BURNWOODS ROAD

HOWARD COUNTY BENCHMARK 21CB (CONC. MON.)
 N 588,188.05 E 1,306,716.71 ELEV. 589.84
 BURNWOODS ROAD 300 WEST OF SHADY LANE



VICINITY MAP

SCALE: 1"=2,000'
 ADG MAP COORDINATE:
 PAGE 17; GRID B7

LEGEND:

	PROPERTY LINE
	EXISTING RIGHT-OF-WAY LINE
	ADJACENT PROPERTY LINE
	EXISTING EDGE OF PAVING
	EXISTING FREE LINE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	SOILS
	EXISTING STEEP SLOPES
	EXISTING MODERATE SLOPES
	EXISTING WELL LOCATION
	PASSED PERC. TEST
	EXISTING PRIVATE SDA
	PROPOSED PRIVATE SDA
	PROPOSED WELL BOX

GENERAL NOTES

- THIS SUBJECT PROPERTY IS ZONED RR-DEO.
- PROPERTY OUTLINE SHOWN HEREON IS BASED ON PRECISION INPUT FROM RECORD PLAT #7734, THE KNOLLS, LOTS 3-6. A RESUBDIVISION OF LOT 1, PLAT #7356.
- DEED REFERENCES: LIBER 16930 FOLIO 495.
- THE EXISTING TOPOGRAPHY IS BASED ON A FIELD RUN TOPOGRAPHICAL SURVEY PREPARED BY SURVEYS, INC., DATED AUGUST 15, 2016 AND IS SUPPLEMENTED WITH HOWARD COUNTY GIS.
- SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY.
- ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' FROM THE PROPERTY BOUNDARIES HAVE BEEN SHOWN.
- ANY CHANGE TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ADJUSTMENT TO THE SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREON COMPLES 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 THE BEST AVAILABLE INFORMATION.
- THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO ESTABLISH A PRIVATE SEWERAGE DISPOSAL AREA AND WELL LOCATION FOR THE PROPERTY IN ACCORDANCE WITH THE STATE AND COUNTY CODES.
- Approval of this percolation plan does not guarantee that the sewage disposal area established will be sufficient for proposed uses. A septic design plan showing 3 separate factors in accordance with the proposed number of occupants must be submitted to the Health Department before the health approval of existing permits. If 3 systems do not fit, the owner may need to be advised of the proposed number of residents reduced.

OWNER

KEVIN MITCHELL
 LYNETTE MITCHELL
 9110 DUNLOUGH RD.
 ELLICOTT CITY, MD
 (443) 280-0332

NO.	REVISION	DATE

PERCOLATION CERTIFICATION REVISION PLAN

MITCHELL RESIDENCE
 THE KNOLLS - LOT 4
 3415 SHADY LANE
 GLENWOOD, MD 21738
 5.13 AC.

L 16930 / F 495
 4TH ELECTION DISTRICT
 TAX MAP: 21 GRID: 5

PARCEL: 95
 ZONED: RR-DEO
 HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET
 ELLICOTT CITY, MD 21043
 TEL: 410.461.7666
 FAX: 410.461.8961

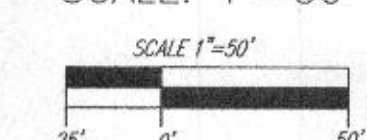
PROFESSIONAL CERTIFICATE

DESIGN BY: RHV
 DRAWN BY: JMR
 CHECKED BY: RHV
 DATE: AUGUST 2017
 SCALE: AS SHOWN
 W.O. NO.: 17-17

I HEREBY CERTIFY THAT THESE DOCUMENTS
 WERE PREPARED OR APPROVED BY ME, AND
 THAT I AM A DULY LICENSED PROFESSIONAL
 ENGINEER UNDER THE LAWS OF THE STATE
 OF MARYLAND, LICENSE NO. 16193
 EXPIRATION DATE: 08-27-2018

PLAN SCALE

SCALE: 1"=50'



THIS AREA DESIGNATES A PRIVATE SEWERAGE AREA 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 AREAS 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 AREA. RECORDATION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.

NOTE:
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO REVISE THE PREVIOUSLY APPROVED SEWERAGE DISPOSAL AREA AND WELL LOCATION ON LOT 4 IN ORDER TO CREATE MORE ROOM ON THE LOT FOR THE PROPOSED HOUSE.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

Madison for Maureen Robinson 11/21/2017
 COUNTY HEALTH OFFICER DATE

PERCOLATION 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.

Edward J. Glawe 01 SEPTEMBER 2017
 EDWARD J. GLAWE DATE
 PROFESSIONAL LAND SURVEYOR, MD REG. NO. 21391