

Bureau of Environmental Health

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 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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 750 Middle trail ct

Subdivision: Schuster Lot: 15

Initial system:	Application rate: <u>0.8</u>	Effective area beginning depth: <u>4</u>	Bottom maximum depth: <u>8</u>
1 st Replacement:	Application rate: <u>0.8</u>	Effective area beginning depth: <u>5</u>	Bottom maximum depth: <u>8</u>
2 nd Replacement:	Application rate: <u>0.8</u>	Effective area beginning depth: <u>5</u>	Bottom maximum depth: <u>8</u>

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- Trenches must be located to provide room for 3 systems in the disposal area
- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Tank and trenches must be placed as shallow as possible while maintaining 2% fall in pipe from house and at least 18" cover over trenches. If 2% fall from house is not possible, the minimum allowable fall is 1%.
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

★ Property has PC with notes. PC signed 4/20/2005 and notes are from 3/10/2005

Additional requirements:

- Our records do not contain a copy of a per cent plan. we need a signed pc prior to building permit

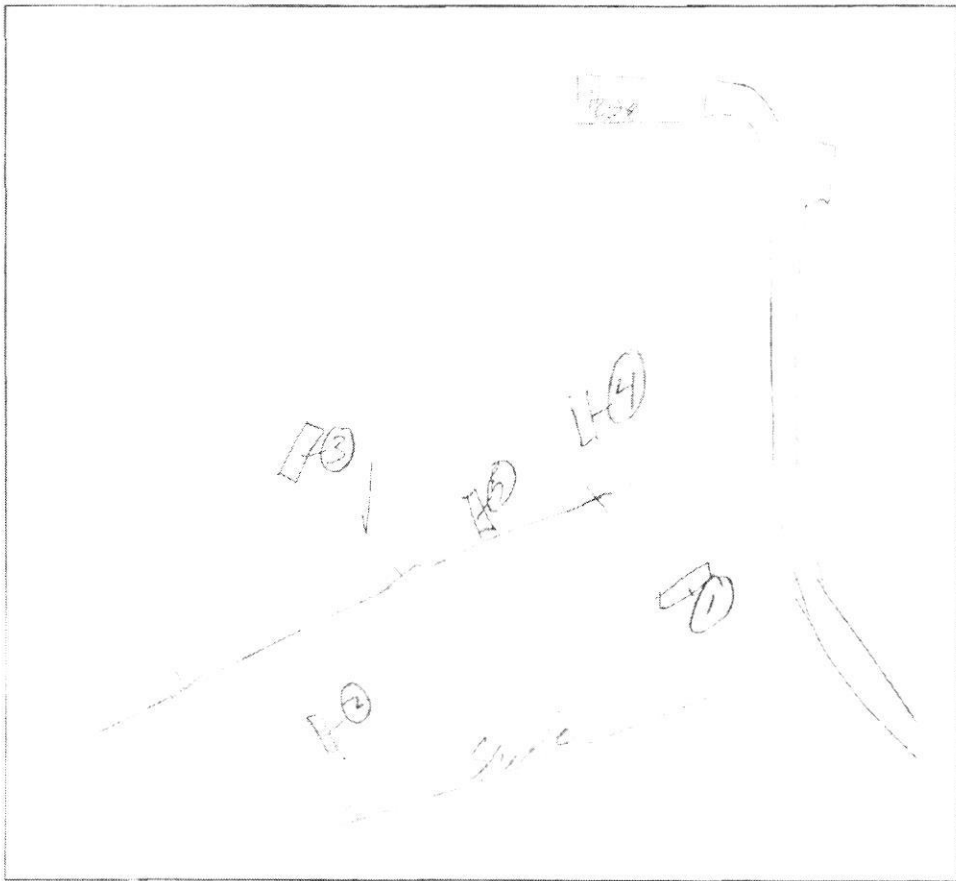
Approved: [Signature] Date: 7/30/20

A/P

(2)
Brown
2'
Yellow/Brown
Silt
w/ 20% silt
4'
Yellow/Brown
Silt w/
30% silt
9'
Yellow/Brown
Silt w/ fine
Rock
13'

(1)
Brown
2'
Orange/Red
mud
Silt w/
20% silt
3 1/2'
Brown/Red
Orange
mud
Silt
w/ 15%
silt
10'
Yellow/Brown
Silt w/
silt
11'

3
Brown
1'
Brown/Red
mud
Silt w/
20% silt
4'
Yellow/Brown
mud
Silt w/
20-25%
silt
9 1/2'
Yellow/Brown
Silt w/
10% silt
13 1/2'



(4)
Brown
1'
Yellow/Brown
mud
Silt
2'
Yellow/Brown
Silt
3 1/2'
Yellow/Brown
mud
Silt w/
15% silt
14'

(5)
Brown
2'
Yellow/Brown
Red
Silt
5'
Purple/Brown
mud
Silt
w/ silt
Silt
10'
Brown/Red
Silt w/
silt
12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
3/16/05	2	4' / 13'	1:37	1:42	1:50	8min	P
	1	3 1/2' / 14'	1:53	2:01	2:15	14min	P
	3	4 1/2' / 13 1/2'	2:07	2:10	2:14	4min	P
	4	4' / 14'	2:22	2:25	2:31	6min	P
	5	12'	- Visual -			OK	P

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

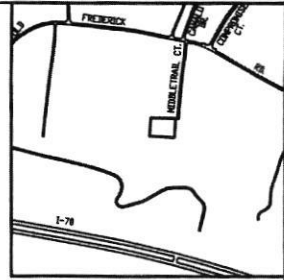
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

LEGEND

- EXISTING 2' CONTOURS
- EXISTING 5' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- ⊙ INDICATES PROPOSED WELL
- ⊙ INDICATES FAILED PERC
- ⊙ INDICATES PASSED PERC
- ⊙ INDICATES PROPOSED PERC
- ⊙ INDICATES PROPOSED HOUSE
- ⊙ INDICATES 10%+ SLOPE
- ⊙ INDICATES 20% AND GREATER SLOPE
- ⊙ INDICATES 100% SLOPE ALTERNATE WELL SITE

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 100' SEWER PLOT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE RESPONSE. 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. RECONSTRUCTION OF A NEWER SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP VESTED AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
3. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
4. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
5. TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 3' CONTOUR INTERVAL, INTERPOLATED FOR 5' CONTOUR INTERVAL.
6. BOUNDARY OUTLINE BASED ON AVAILABLE RECORDS WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.

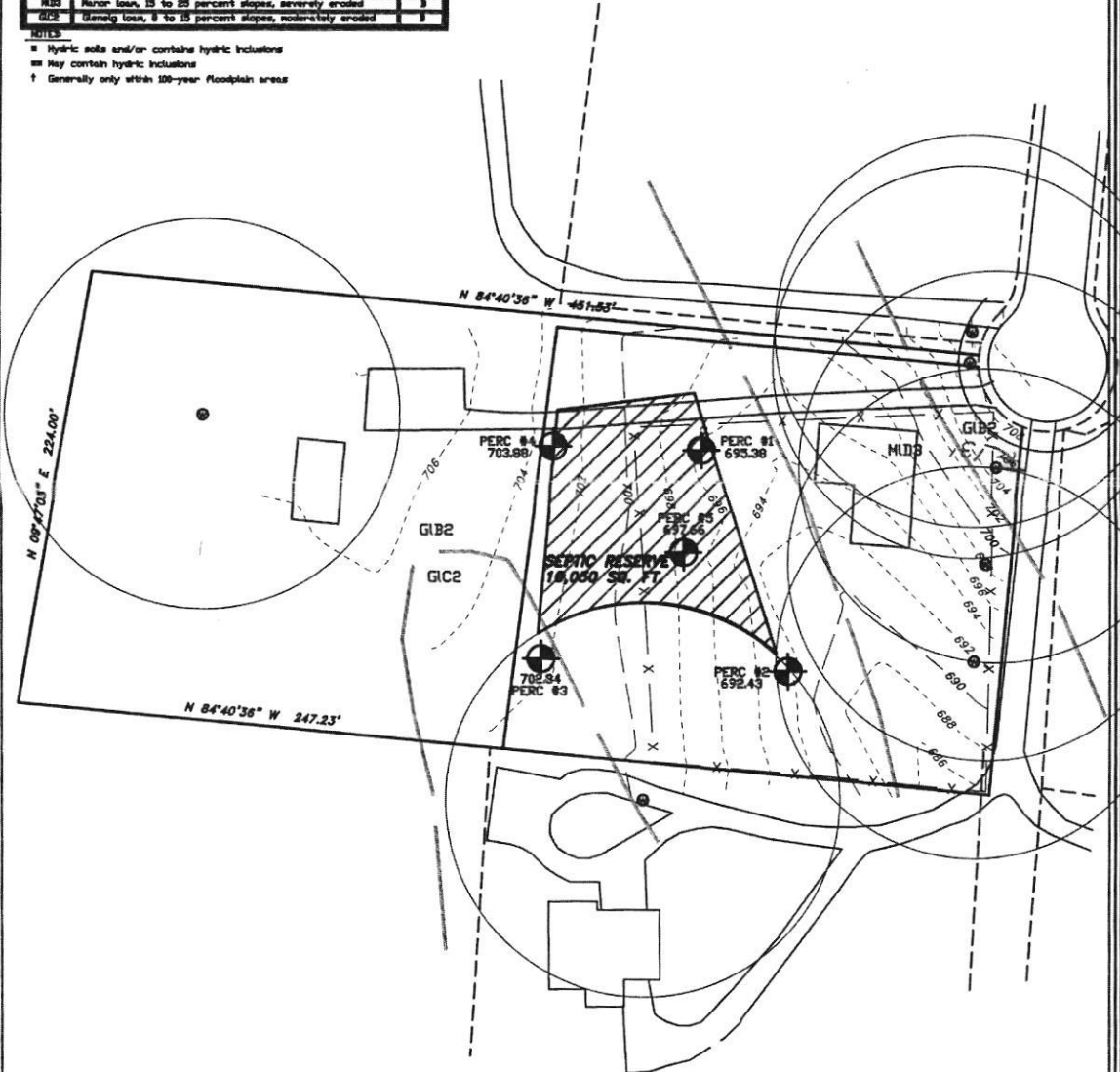


VICINITY MAP
SCALE 1" = 1200'

SOILS LEGEND

SOIL	NAME	CLASS
GLB2	Genesee loam, 3 to 8 percent slopes, moderately eroded	3
ML13	Marion loam, 15 to 25 percent slopes, severely eroded	3
GC2	Genesee loam, 8 to 15 percent slopes, moderately eroded	3

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



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.
[Signature]
COUNTY HEALTH OFFICER
DATE 4/26/05



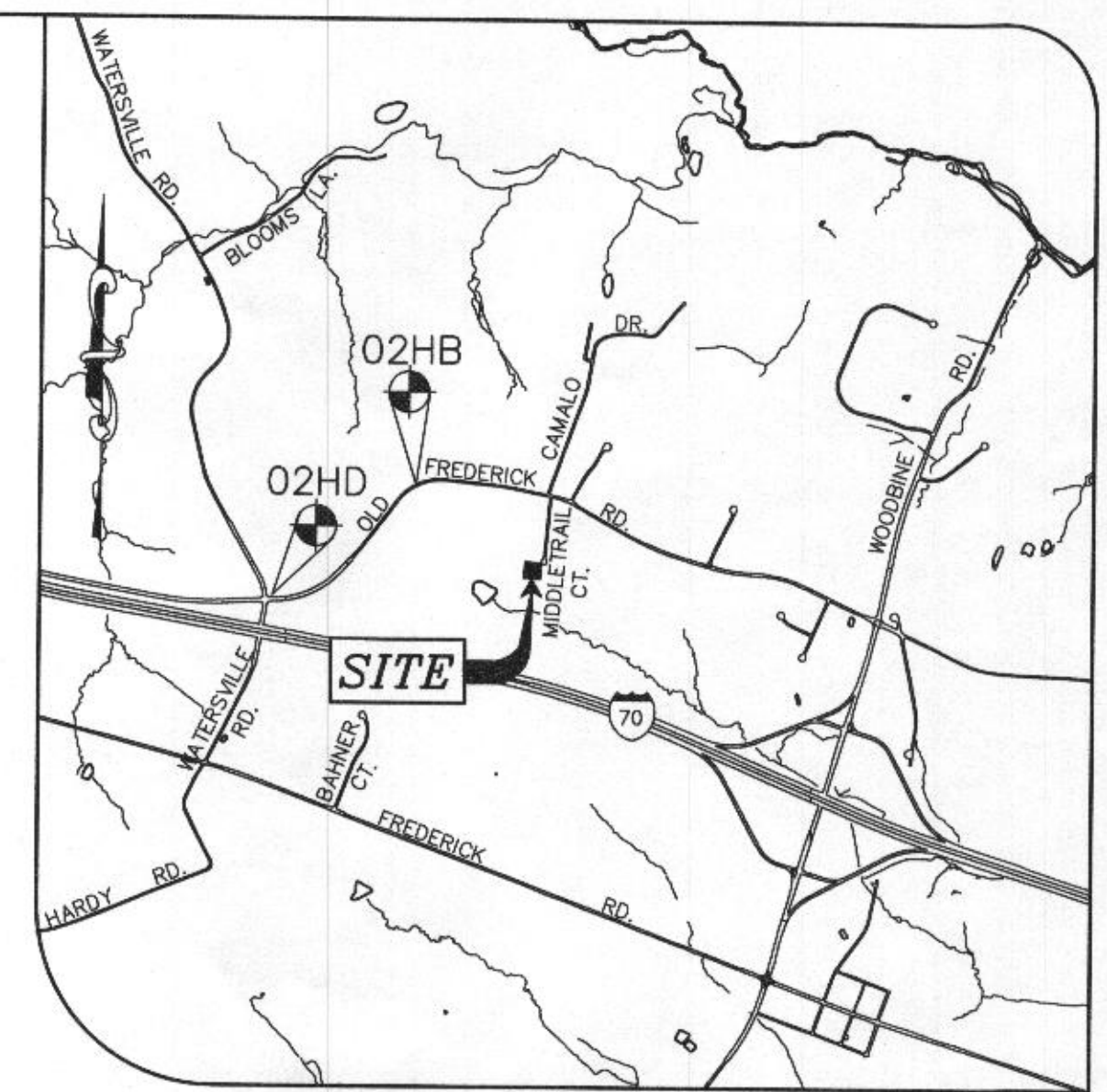
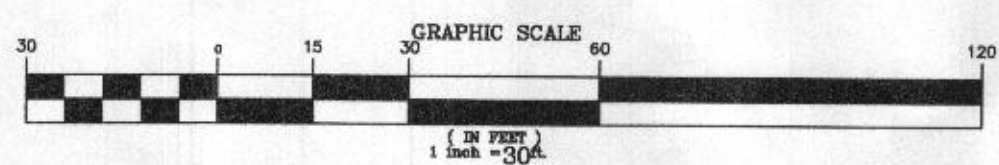
LAND PLANNING ♦ DEVELOPMENT ♦ MARKETING ♦ ZONING ♦ VALUATION
2000 WASHINGTON BLVD. SUITE 200A, GLENDALE, MD 20709 PHONE 410-669-7100

**PERC APPLICATION PLAT
SCHISLER PROPERTY**

TAX MAP R2 ZONED PARCEL 196
ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE 1" = 60' DATED MARCH 23, 2005

SOILS TABLE

SYMBOL	RATING	NAME	K FACTOR	SOIL MAP #
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.24	
GnB	(C)	GLENVILLE-BAILE SILT LOAMS, 0-8% SLOPES	.43	
GgC	(B)	GLENELG LOAM, 8-15% SLOPES.	.24	



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN.
- PROPERTY BACKGROUND:**
ADDRESS: 750 MIDDLETRAIL COURT, MOUNT AIRY, MD. 21771
TAX MAP 02 - PARCEL 196 (LOT 15-A)
ELECTION DISTRICT : 4TH
DEED REFERENCE: 15526-00335
AREA : 1.20± ACRES
TOTAL NUMBER OF UNITS : 1
TYPE OF PROPOSED UNIT : SFD
PROPOSED USE FOR SITE : RESIDENTIAL.
- PROJECT BOUNDARY IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT JULY, 2020 BY MILDENBERG, BOENDER & ASSOC.
- TOPOGRAPHY SHOWN HERE-WAS FIELD VERIFIED BY MILDENBERG, BOENDER & ASSOC. INC. IN JULY 2022; TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
- HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 02 HB & 02 HD:
STA. No. 02 HB: N 613,910.957; E 1,287,573.304; EL. 736.340
STA. No. 02 HD: N 612,479.609; E 1,285,732.026; EL. 746.121
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- SOILS LOCATION AND CLASSIFICATION BASED ON HOWARD COUNTY GIS SOIL SURVEY
- WELL LOCATIONS SHOWN ARE BASED ON HEALTH DEPARTMENT RECORDS VERIFIED BY FIELD VISIT.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- SEPTIC TANKS AND DRAIN FIELD SHOWN IS BASED ON DATA PROVIDED BY HOWARD COUNTY HEALTH DEPARTMENT.

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT 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 EASEMENT SHALL NOT BE NECESSARY.

LEGEND

- PASSED TEST PIT
- EXISTING WELL LOCATION
- POTABLE WATER WELL ZONE: 430 SQ. FT.

PURPOSE STATEMENT:
TO DOCUMENT THE POTABLE WATER WELL ZONE.

C:\SYNOLOGY\DRIVE\PROJECTS\SYNOLOGY\DRIVE\2020\20-021 MIDDLETRAIL CT\DWG\20-021 PLANS.DWG

DEVELOPER
BROOKE BURES
JOHN BURES
443-452-7573
750 MIDDLETRAIL COURT
MOUNT AIRY, MARYLAND 21771

APPROVED FOR PRIVATE WATER AND PRIVATE SEPTIC
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER
DATE: 5/12/21



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. 26859, EXP. DATE 08/01/21
SAMER A. ALOVER P.E.
DATE: 4/20/2021

project	date	approval
20-021	MAR 2021	SA
illustration	engineering	approval
DAM	SA	SA
scale	1"=30'	

no.	description	date
SUBMITTED TO	revisions	

MIDDLETRAIL COURT LOT 15A
TAX MAP 2 - PARCEL 196
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
PERCOLATION CERTIFICATION PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7360B GRACE DRIVE, COLUMBIA, MD 21044
(410) 997-0236 Ext. (410) 997-0288 Fax.