

GENERAL NOTES

1. THIS SUBJECT PROPERTY IS ZONED RC-DEO.
2. THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY VOGEL AND ASSOCIATES, INC., ON OR ABOUT, MARCH 2001.
3. DEED REFERENCE: LIBER 19736 FOLIO 89
4. THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM FIELD RUN SURVEY WITH 2' CONTOUR INTERVALS PREPARED BY VOGEL AND ASSOCIATES, INC., DATED FEBRUARY 2001. INFORMATION IS SUPPLEMENTED WITH CURRENT HOWARD COUNTY GIS DATA.
5. SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY.
6. ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' FROM THE PROPERTY BOUNDARIES HAVE BEEN SHOWN.
7. ANY CHANGE TO A PRIVATE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. ADJUSTMENT TO THE PRIVATE SEWAGE DISPOSAL AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
9. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
10. EXISTING WELLS AND/OR SEWAGE AREAS AND COMPONENTS WITHIN 200 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
11. ALL BUILDING SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
12. THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO ESTABLISH A WELL BOX ON THE LOT.

SOILS LEGEND						
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDRIC	
Ga	GLENNELG LOAM, 0 TO 3 PERCENT SLOPES	B	.24	NO	NO	
Gb	GLENNELG LOAM, 3 TO 8 PERCENT SLOPES	B	.24	NO	NO	
Gc	GLENNELG LOAM, 8 TO 15 PERCENT SLOPES	B	.24	NO	NO	
Gm	GLENNELG SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	.37	YES	YES	

-SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE
-K VALUES PER <https://www.howardcountygov.com/documents> - *K FACTORS (USE KW)
-HOWARD COUNTY SOILS MAP NUMBER 3 - WOODBINE NE

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

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN ON THIS PLAN (HO-94-4068)
HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN

PURPOSE STATEMENT

THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN
IS TO ESTABLISH A WELL BOX ON THE LOT.

THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS
REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL
IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGEAGE IS AVAILABLE.
THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGEAGE SYSTEM. THE
COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE
DISPOSAL AREA. REORDINATION OF A MODIFIED SEWAGE DISPOSAL AREA SHALL NOT BE NECESSARY.

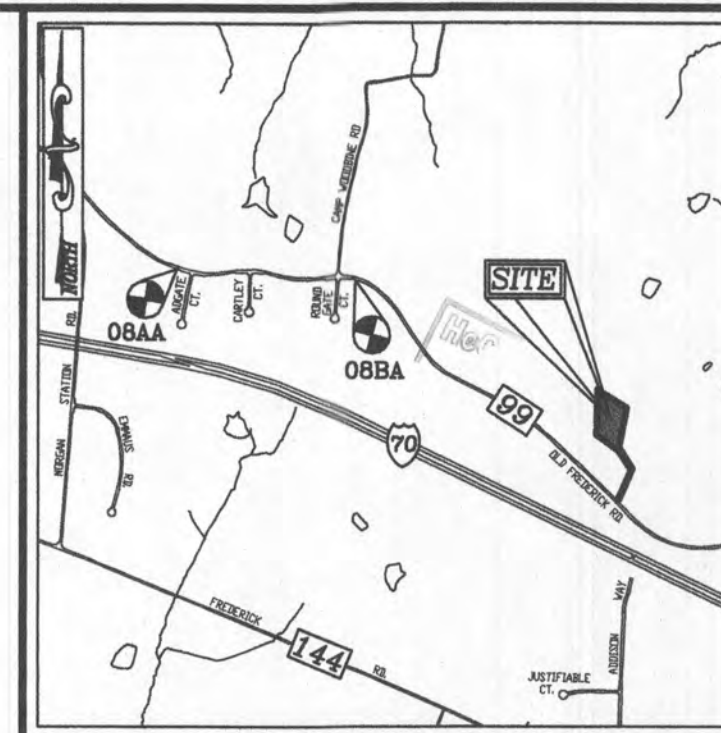
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

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.

THOMAS M. HOFFMAN, JR.
PROPERTY LINE SURVEYOR, NO. 267

5/5/23
DATE



VICINITY MAP

SCALE: 1"=2000'
ADC MAP: 4692-F7

BENCHMARKS

HOWARD COUNTY BENCHMARK OBBA (CONC. MON.)
N 609098.54 E 1301409.15 ELEV. 630.72
LOCATION: RT-99 WEST OF ROUND GATE CT.

HOWARD COUNTY BENCHMARK OBAA (CONC. MON.)
N 609215.04 E 1299547.59 ELEV. 608.57
LOCATION: RT-99 EAST OF ADAGE CT.

LEGEND:

---	PROPERTY LINE
---	ADJACENT PROPERTY LINE
---	RIGHT-OF-WAY LINE
---	EXISTING EDGE OF PAVING
W	EXISTING WELL
---	EXISTING TREELINE
---	EXISTING 10' CONTOUR
---	EXISTING 2' CONTOUR
---	APPROVED PRIVATE SEWAGE DISPOSAL AREA
---	EXISTING NATURAL CONSERVATION AREA, STORMWATER MANAGEMENT CREDIT AND UTILITY EASEMENT (PLAT 17697)
---	EXISTING 40' PRIVATE RIGHT-OF-WAY (L: 328 / F: 59)
---	EXISTING VARIABLE WIDTH PRIVATE USE-IN-COMMON ACCESS EASEMENT TO BENEFIT LOTS 3-6 (PLAT 17697)
●	PASSED PERC. TEST
○	FAILED PERC. TEST
S&E S&C	SOILS
---	PROPOSED WELL BOX

OWNER/DEVELOPER

DAVID B. MELTON
CAROLL G. MELTON
4131 PEMBERTON COURT
ELLCOTT CITY, MD 21043
(443) 545-4468

PERCOLATION CERTIFICATION REVISION PLAN

MINGLEWOOD - LOT 4

14850 OLD FREDERICK ROAD
WOODBINE, MD 21797
(3.18 AC.)

L. 19736 / F. 89
4TH ELECTION DISTRICT
TAX MAP: 8 GRID: 10

PARCEL: 26
ZONED: RC-DEO
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

DESIGN BY: _____ RHV
DRAWN BY: _____ JMR
CHECKED BY: _____ RHV
DATE: _____ MAY 2023
SCALE: _____ 1"=50'
W.O. NO.: _____ 2017145

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. 16183
EXPIRATION DATE: 09-27-2024

ROBERT H. VOGEL, PE No.16183

1 SHEET OF 1

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8. ADJUSTMENT TO THE PRIVATE SEWAGE DISPOSAL AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
9. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
10. 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.
11. ALL BUILDING SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.

FIRST REPLACEMENT SYSTEM:

5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
938 SQ. FT. / 3 (TRENCH WIDTH) x 50 (SIDEWALL REDUCTION) = 156 LINEAR FEET
160 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
(5 TRENCHES OF 32 FEET IN LENGTH)

SECOND REPLACEMENT SYSTEM:

5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
625 SQ. FT. / 3 (TRENCH WIDTH) x 83 (SIDEWALL REDUCTION) = 173 LINEAR FEET
175 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
(5 TRENCHES OF 35 FEET IN LENGTH)

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE	HYDRIC
GgA	GLENELO LOAM, 0 TO 3 PERCENT SLOPES	B	.24	NO	NO
GgB	GLENELO LOAM, 3 TO 8 PERCENT SLOPES	B	.24	NO	NO
GgC	GLENELO LOAM, 8 TO 15 PERCENT SLOPES	B	.24	NO	NO
GmB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	.37	YES	YES

-SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE

-K VALUES PER <https://www.howardcount.org/documents> - "K" FACTORS (USE KW)

-HOWARD COUNTY SOILS MAP NUMBER 3 - WOODBINE NE

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

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PURPOSE STATEMENT

THE PURPOSE OF THIS PERCOLATION CERTIFICATION REVISION PLAN IS TO MODIFY THE WELL BOX ON THE LOT TO ACCOMMODATE THE DETACHED GARAGE AS IT WAS CONSTRUCTED, AND REVISE THE SEWAGE DISPOSAL AREA



THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS 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. RECORDATION OF A MODIFIED SEWAGE DISPOSAL AREA SHALL NOT BE NECESSARY.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

COUNTY HEALTH OFFICER

DATE

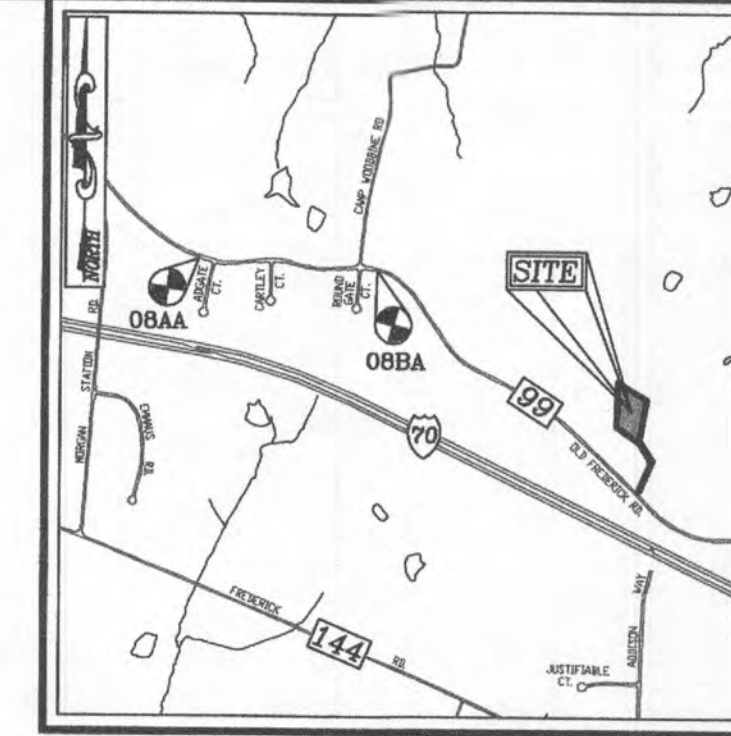
PERCOLATION CERTIFICATION:

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.

Thomas M. Hoffman, Jr.
THOMAS M. HOFFMAN, JR.
PROPERTY LINE SURVEYOR, NO. 267

8/23/24

DATE



VICINITY MAP

SCALE: 1"=2000'
ADC MAP: 4692-F7

BENCHMARKS

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N 609215.04 E 1299547.59 ELEV. 608.57
LOCATION: RT-99 EAST OF ADAGE CT.

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	PROPERTY LINE
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	APPROVED PRIVATE SEWAGE DISPOSAL AREA
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	AREA OF PROPOSED PRIVATE SEWAGE DISPOSAL AREA TO BE ADDED

OWNER/DEVELOPER

DAVID B. MELTON
CAROLL G. MELTON
4131 PEMBERTON COURT
ELLCOTT CITY, MD 21043
(443) 545-4468

NO.	REVISION	DATE

PERCOLATION CERTIFICATION REVISION PLAN

MINGLEWOOD - LOT 4

14850 OLD FREDERICK ROAD
WOODBINE, MD 21797
(3.18 AC.)

L. 19736 / F. 89
4TH ELECTION DISTRICT
TAX MAP: 8 GRID: 10

PARCEL: 26
ZONED: RC-DEO
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLCOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: RHY
DRAWN BY: JMR
CHECKED BY: RHY
DATE: AUGUST 2024
SCALE: 1"=50'
W.O. NO.: 2017145

PROFESSIONAL CERTIFICATE
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 08-27-2024

1 SHEET OF 1

ROBERT H. VOGEL, PE No.16193

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-K VALUES PER <https://www.howardscd.org/documents> - *K FACTORS (USE KWK)
-HOWARD COUNTY SOILS MAP NUMBER 3 - WOODBINE NE

NOTE:
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APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.

COUNTY HEALTH OFFICER _____ DATE _____

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THOMAS M. HOFFMAN, JR.
PROPERTY LINE SURVEYOR, NO. 267

DATE _____



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SCALE: 1"=2000'
ADC MAP: 4692-F7

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P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: _____ RHV

DRAWN BY: _____ JMR

CHECKED BY: _____ RHV

DATE: JUNE 2024

SCALE: 1"=50'

W.O. NO.: 2017145

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THOMAS M. HOFFMAN, JR.
PROPERTY LINE SURVEYOR, NO. 267

DATE

GEORGIA E. DOWE TRUSTEES
GEORGIA W. ZIEHM TRUSTEES
TM: 8 PARCEL: 24
L: 6752 / F: 674
LOT: 4
61.07 AC.
USE: AGRICULTURAL
ZONED: RC-DEO
HOWARD COUNTY AGRICULTURAL
LAND PRESERVATION PROGRAM
EASEMENT HO-91-11-E

MICHAEL P. MUELLER
MARY ELIZABETH DODSON
TM: 8 PARCEL: 26
MINGLEWOOD RS LOTS 1 & 2
PLAT: 17697
LOT: 3
3.89 AC.
USE: RESIDENTIAL
ZONED: RC-DEO

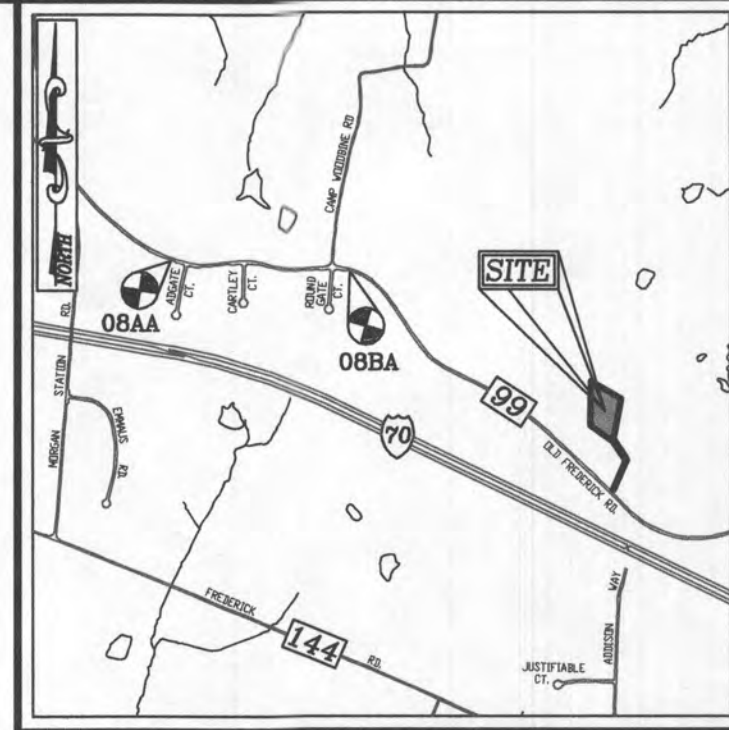
PATRICK FAMILY LTD PARTNERSHIP
C/O DAVID B. PATRICK III
TM: 8 PARCEL: 18
L: 3389 / F: 53
144.80 AC.
USE: AGRICULTURAL
ZONED: RC-DEO
HOWARD COUNTY AGRICULTURAL
LAND PRESERVATION PROGRAM
EASEMENT HO-96-06-E

JENNIFER T. STOUT
MICHAEL W. STOUT
TM: 8 PARCEL: 26
MINGLEWOOD RS LOTS 1 & 2
L: 19298 / F: 359
PLAT: 17697
LOT: 5
3.08 AC.
USE: RESIDENTIAL
ZONED: RC-DEO

PAUL J. HELDENBRAND
MARIA G. HELDENBRAND
TM: 8 PARCEL: 26
MINGLEWOOD RS LOTS 1 & 2
L: 10459 / F: 218
PLAT: 17697
LOT: 6
3.89 AC.
USE: RESIDENTIAL
ZONED: RC-DEO

NICHOLAS J. LALLY
TM: 8 PARCEL: 27
L: 16388 / F: 356
LOT: 27A
10.03 AC.
USE: AGRICULTURAL
ZONED: RC-DEO

KELLIE SIEFRIED
WILLIAMS G. SLINGLUFF
TM: 8 PARCEL: 216
L: 17702 / F: 191
4.94 AC.
USE: RESIDENTIAL
ZONED: RC-DEO



VICINITY MAP

SCALE: 1"=2000'
ADC MAP: 4692-F7

BENCHMARKS

HOWARD COUNTY BENCHMARK OB8A (CONC. MON.)
N 609098.54 E 1301409.15 ELEV. 630.72
LOCATION: RT-99 WEST OF ROUND GATE CT.

HOWARD COUNTY BENCHMARK OB8A (CONC. MON.)
N 609215.04 E 1299547.59 ELEV. 608.57
LOCATION: RT-99 EAST OF ADAGE CT.

LEGEND:

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	RIGHT-OF-WAY LINE
	EXISTING EDGE OF PAVING
	EXISTING WELL
	EXISTING TREELINE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	EXISTING NATURAL CONSERVATION AREA, STORMWATER MANAGEMENT CREDIT AND UTILITY EASEMENT (PLAT 17697)
	EXISTING 40' PRIVATE RIGHT-OF-WAY (L: 328 / F: 59)
	EXISTING VARIABLE WIDTH PRIVATE USE-IN-COMMON ACCESS EASEMENT TO BENEFIT LOTS 3-6 (PLAT 17697)
	PASSED PERC. TEST
	FAILED PERC. TEST
	PROPOSED PERC. TEST
	SOILS
	APPROVED WELL BOX AREA TO REMAIN
	APPROVED WELL BOX AREA TO BE ABANDONED
	APPROVED PRIVATE SEWAGE DISPOSAL AREA
	AREA OF APPROVED PRIVATE SEWAGE DISPOSAL AREA TO BE ABANDONED
	AREA OF PROPOSED PRIVATE SEWAGE DISPOSAL AREA TO BE ADDED

OWNER/DEVELOPER

DAVID B. MELTON
CAROLL G. MELTON
4131 PEMBERTON COURT
ELLCOTT CITY, MD 21043
(443) 545-4468

PERCOLATION CERTIFICATION REVISION PLAN

MINGLEWOOD - LOT 4

14850 OLD FREDERICK ROAD
WOODBINE, MD 21797
(3.18 AC.)

L: 19736 / F: 89
4TH ELECTION DISTRICT
TAX MAP: 8 GRID: 10

PARCEL: 26
ZONED: RC-DEO
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: RHY

DRAWN BY: JMR

CHECKED BY: RHY

DATE: MAY 2024

SCALE: 1"=50'

W.O. NO.: 2017145

PROFESSIONAL CERTIFICATE

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: 09-27-2024

1 SHEET OF 1

ROBERT H. VOGEL, PE No.18193