



HOWARD COUNTY HEALTH DEPARTMENT

67921

AS

DATE
7/28/20

Received From

Mildenberg Brenda
PHONE # 410 997-0296
DE ASSOC.

For

Peru App 14611
Mae Chertock

- CASH
- CHECK

NO.

3154

Five hundred & 10/100 _____ Dollars

\$

506100

Received By

J King



Bureau of Environmental Health
 8930 Stanford Blvd | Columbia, MD 21045
 410.313.2640 - Voice/Relay
 410.313.2648 - Fax
 1.866.313.6300 - Toll Free

AS67921

Maura J. Rossman, M.D., Health Officer

**APPLICATION
 FOR PERCOLATION TESTING AND SITE EVALUATION**

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME WARFIELD ESTATES SEC. 4 BLOCK 'A' LOT 21
 PROPERTY ADDRESS 14511 MAC CLINTOCK CT. GLENWOOD MD 21738
STREET TOWN ZIP
 TAX ACCOUNT # 323254 TAX MAP 21 GRID 04 PARCEL 129 LOT NO. 21 PROPOSED LOT SIZE (ACRES) 1.02
 ZONING CATEGORY RR-DEO TIER

PROPERTY OWNER(S) ALBERT M. MONTAGNA
 DAYTIME PHONE 410-997-0296 CELL EMAIL thill@mba-eng.com
 MAILING ADDRESS 10357 SIXPENCE CIR. COLUMBIA MD 21044
STREET CITY, STATE ZIP

APPLICANT ALBERT M. MONTAGNA RELATIONSHIP TO OWNER: OWNER
 DAYTIME PHONE CELL EMAIL
 MAILING ADDRESS 10357 SIXPENCE CIR. COLUMBIA MD 21044
STREET CITY, STATE ZIP

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE:
 SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) MAJOR MINOR
- CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
- REPAIR OR REPLACE FAILING OSDS
- UPGRADE EXISTING OSDS

BUILDING:

- RESIDENTIAL WITH 5 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
- COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES
- NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

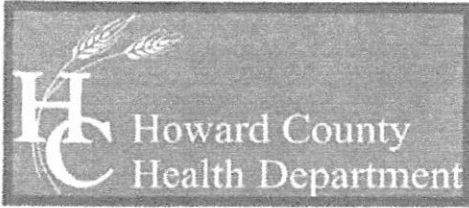
Albert M. Montagna

7-22-2020

SIGNATURE OF APPLICANT

DATE

Due 13th



Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Main: 410-313-2640 | 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

**APPLICATION FOR VARIANCE
 TO COMAR ONSITE WATER/SEWER FOR MDE APPROVAL**

Date Submitted 11/6/2020
 14511 MacClintock Court Glenwood, MD 21738

Property Address
Warfield Estates 21 21 4 129 14-04-323254
 Subdivision Lot Tax Map Grid Parcel Tax Account #

Provide a brief site history including previously submitted and active plans with the Health Department or the County (subdivision plans, perc test applications, Building Permit applications):

Percolation Certification Plan submitted in order to develop a single lot.
 Percolation testing occurred in Oct of 2020.

In the area below, list the specific section of the Code of Maryland Regulations (COMAR) to which a variance is being requested and provide a brief summary of the regulation and an explanation of why the variance is being requested (Attach a separate sheet if necessary).

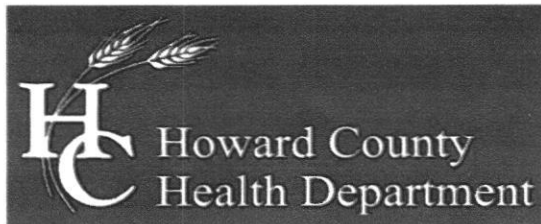
Regulation Section	Summary and Explanation
1. <u>26.04.02.05.B.(2)</u>	Septic systems must be located downgrade of any private water supply. -The proposed sewage disposal area is 200ft upgrade of existing wells. <u>upgrade of Ho-73-3328 Lot 29 Warfield Est. and</u> <u>Ho-73-0627 Lot 23 Warfield Est.</u>
2. _____	_____

Patricia King / Brooke Avery
 Property Owner's Signature
 Health Department Use Only

Reviewed by R. Freeman _____ Date _____
 HCHD Staff
 Recommendation: Recommended Not Recommended
[Signature] _____ Date 1/21/20
 HCHD Supervisor

Comments/Conditions: - BAT w/ + LPD on OSDS

Approved by: Steven R King LEHS _____ Date 2/3/21
 MDE Representative



Bureau of Environmental Health

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www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

Maura J. Rossman, M.D., Health Officer

Date: Oct. 20th, 2020

To: Albert M. Montagna
10357 Sixpence Circle
Columbia, MD 21044

Re: **Percolation Test Report**
14511 MacClintock Ct.
Glenwood, MD 21738

Percolation tests were conducted at 14511 MacClintock Ct. Glenwood, MD (Tax Map 21, Parcel 129) on Oct 15th, 2020. Tests and profile descriptions were documented for locations 1, 2, 3, 4 & 5. All 5 test holes passed.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in the septic reserve area are represented by test locations having satisfactory soil conditions. The area must be large enough to accommodate 3 systems (initial and 2 replacements). If 3 systems cannot fit the Health Dept. may consider allowing 2 systems (initial and 1 replacement) which will require Best Available Technology (BAT). The next step in the process is to have an engineer/consultant submit a finalized percolation certification plan to the Health Dept. for review and signature.

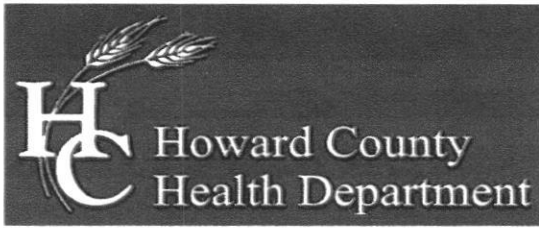
Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-6357 or by email rfreemon@howardcountymd.gov

Respectfully,

A handwritten signature in cursive script, appearing to read 'Robert Freemon'.

Robert Freemon
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Field Notes



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Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 14511 MacClintock Ct.

Subdivision: _____ Lot: _____

1,2,4 Initial system: Application rate: 0.6 Effective area beginning depth: 5.5 Bottom maximum depth: 6
 2,4,5 1st Replacement: Application rate: 0.6 Effective area beginning depth: 7 Bottom maximum depth: 8
 2,3,4 2nd Replacement: Application rate: 0.6 Effective area beginning depth: 7 Bottom maximum depth: 8

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:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- 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'

Additional requirements:

- BAT Unit Required
- Health may consider 2 systems that would include BAT. (1 initial, 1 replacement)
- Test hole 5 may be proposed as part of SDA however official approval may vary.

Approved: RSF

Date: 10/20/2020

RE: 14512 MacCkintock

Williams, Jeffrey <jewilliams@howardcountymd.gov>

Mon 2/8/2021 3:35 PM

To: samer alomer <salomer@mba-eng.com>; Freemon, Robert <rfreemon@howardcountymd.gov>; Todd Hill <tHill@mba-eng.com>; Mautaz (Taz) Ezzat <mse.taz@gmail.com>

Cc: Patrick Curley <curley.patrick26@gmail.com>; Brooke Curley <mrsbrookecurley@gmail.com>

I spoke with the MDE regional and we agree that based on the perc test notes, the appropriate specs should be:

1st system: 0.6 rate with effective area starting at 5.5' and trench bottom at 8'

2nd system: 0.6 rate with effective area starting at 7' with bottom at 8'

From: samer alomer <salomer@mba-eng.com>

Sent: Monday, February 8, 2021 2:35 PM

To: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Freemon, Robert <rfreemon@howardcountymd.gov>; Todd Hill <tHill@mba-eng.com>; Mautaz (Taz) Ezzat <mse.taz@gmail.com>

Cc: Patrick Curley <curley.patrick26@gmail.com>; Brooke Curley <mrsbrookecurley@gmail.com>

Subject: RE: 14512 MacCkintock

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Thank you jeff.

We appreciate you efforts on this. The number just don't add up with the 6'.

Thank you again.

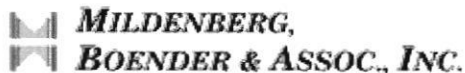
Sam Alomer, P.E.

President

Mildenberg, Boender & Assoc., Inc.

7350B Grace Drive, Columbia, MD 21044

410-997-0296



From: Williams, Jeffrey <jewilliams@howardcountymd.gov>

Sent: Monday, February 8, 2021 2:34 PM

To: Freemon, Robert <rfreemon@howardcountymd.gov>; Todd Hill <tHill@mba-eng.com>; Mautaz (Taz) Ezzat <mse.taz@gmail.com>

Cc: samer alomer <salomer@mba-eng.com>; Patrick Curley <curley.patrick26@gmail.com>; Brooke Curley <mrsbrookecurley@gmail.com>

Subject: RE: 14512 MacCkintock

SOILS TABLE (WITHIN LOT)

SYMBOL	RATING	NAME	K. FACTOR
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20

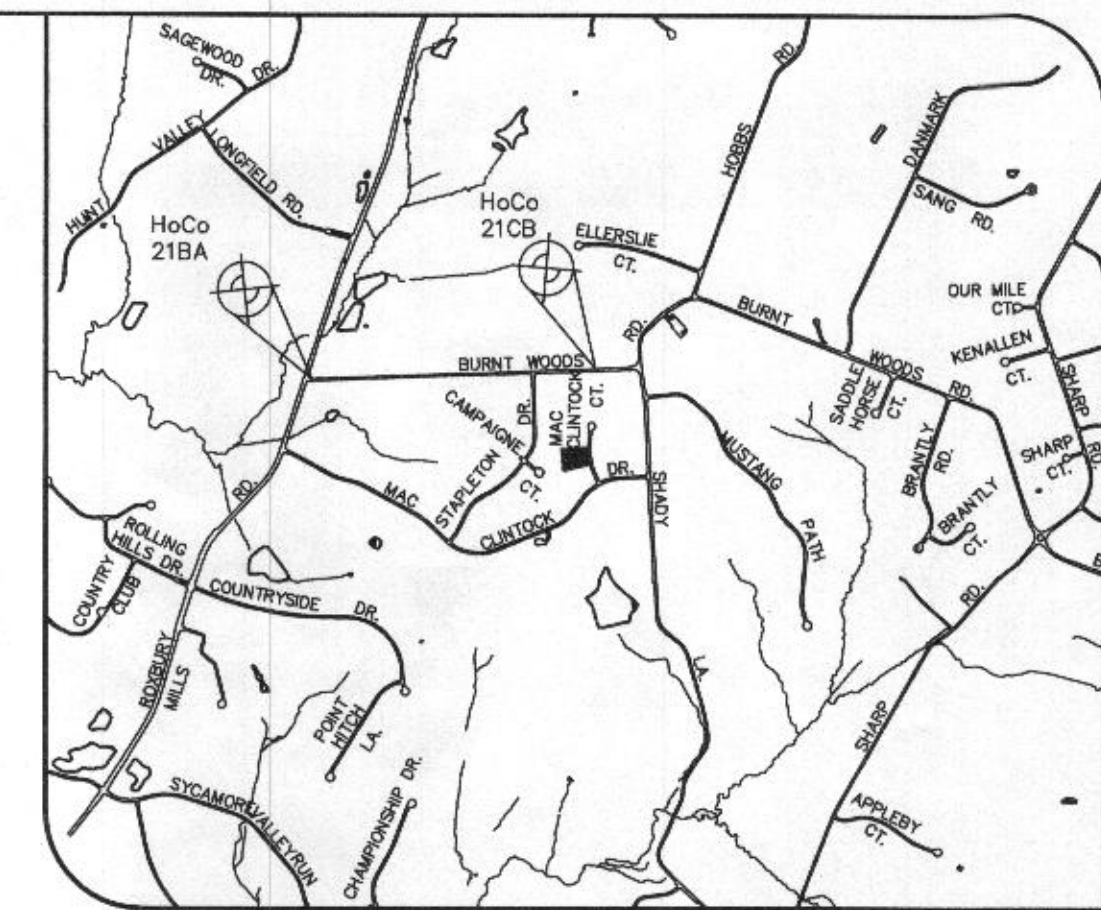
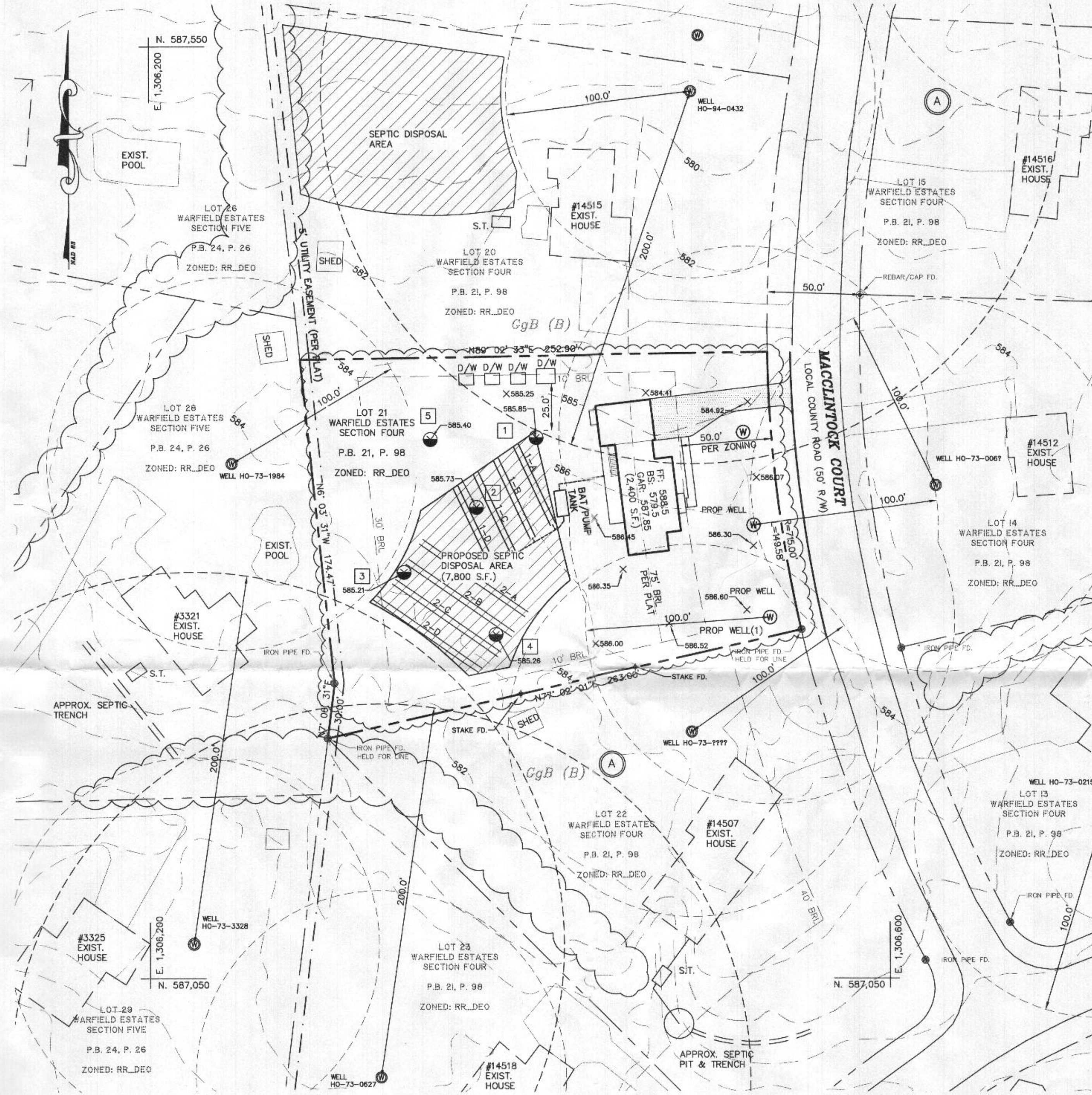
SOIL MAP: 10 (WOODBINE, SE)

ON-SITE SEWAGE DISPOSAL SYSTEM:

RESIDENTIAL SYSTEM DESIGN: HOOT 600 BNR
 4 BEDROOM HOUSE (MINIMUM TANK CAPACITY = 1,250 GAL.)
 150 GALLONS X # OF BEDROOMS = VOLUME OF WASTEWATER / DAY
 150 X 4 = 600 GPD
 PERC RATE = 16-30 MINUTES/INCH
 APPLICATION RATE = 0.6 GPD/SQ.F.T.
 DESIGN FLOW + APPLICATION RATE = SQ.FT. OF TRENCH REQUIRED
 600 + 0.6 = 1,000 SQ.F.T.
 SQ.FT. REQUIRED + WIDTH OF TRENCH = LENGTH OF TRENCH
 1,000 + 3.0' = 333.3 SQ.F.T

PRIMARY SYSTEM:
 USE 30" OF GRAVEL BELOW DRAIN PIPE
 333.3 X 0.95 = 183.3
 USE FOUR (4) TRENCHES (46')
 A MINIMUM OF 10' BETWEEN TRENCHES UTILIZING SIDEWALL REDUCTION CREDIT.

1ST REPLACEMENT:
 USE 12" OF GRAVEL BELOW DRAIN PIPE
 333.3 X 0.83 = 276.7
 USE FOUR (4) TRENCHES (70')
 A MINIMUM OF 10' BETWEEN TRENCHES UTILIZING SIDEWALL REDUCTION CREDIT.



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP: 17 (A-B)

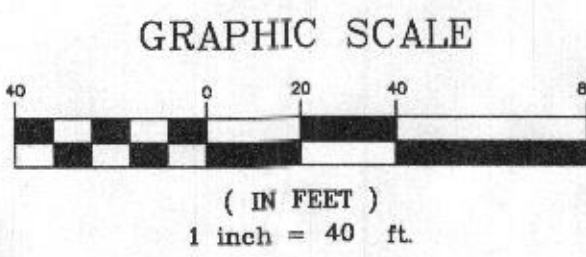
THE PURPOSE OF THE PLAN IS TO CREATE A SEPTIC DISPOSAL AREA (SDA) ON LOT 21

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN.
- PARCEL BACKGROUND:
 ADDRESS : 14511 MACCLINTOCK COURT, GLENWOOD, MD 21738
 TAX MAP 21: PARCEL 129; LOT 21
 ELECTION DISTRICT : FOURTH
 DEED REFERENCE: 567 / 688
 RECORD PLAT BOOK 21, PAGE 98 (PLAT DATED JAN. 1971.)
 AREA : 44,305 S.F. OR 1.017 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 OCTOBER, 2020 BY MILDENBERG, BOENDER & ASSOC.
- TOPOGRAPHY SHOWN HERE IS GIS AND HAS BEEN FIELD VERIFIED BY MILDENBERG, BOENDER & ASSOC., INC. IN OCTOBER 2020 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. 21CB & 21BA.
 STA. No. 21CB: N 588,188.046; E 1,306,716.711; EL. 589.835 (NAVD88)
 STA. No. 21BA: N 588,125.189; E 1,303,655.381; EL. 532.020 (NAVD88)
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEM HAVE BEEN SHOWN AND WERE ACCURATELY FIELD LOCATED BY MILDENBERG, BOENDER & ASSOC., INC ON OR ABOUT OCTOBER 2020.
- SOILS LOCATION AND CLASSIFICATION BASED ON HOWARD COUNTY GIS SOIL SURVEY
- THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEWAGE 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 SEWERAGE AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL FOR LOTS CREATED PRIOR TO MARCH OF 1972 IT PROVIDES AT LEAST ENOUGH AREA TO ACCOMMODATE AN INITIAL AND ONE REPLACEMENT BAT+LPD SEPTIC SYSTEMS AS REQUIRED BY THE HOWARD COUNTY HEALTH DEPARTMENT. 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS REVIEWED THE PROPOSED WELL AND SEWAGE DISPOSAL AREA LOCATION ILLUSTRATED ON THE PLAN AS RECOMMENDED BY THE HOWARD COUNTY HEALTH DEPARTMENT, AND HAS GRANTED A VARIANCE TO ALLOW THE SEWAGE DISPOSAL AREA LOCATION ON WARFIELD ESTATES LOT 21 TO BE ABOVE GRADE OF WARFIELD ESTATES LOTS 23 & 29 PURSUANT TO THE FOLLOWING:
 - A BAT+LPD UNIT MUST BE INSTALLED IN THE INITIAL & REPLACEMENT SYSTEM.
 - ALL DRAINFIELDS INSTALLED IN THE RESPECTIVE SDA WILL BE DESIGNED FOR LOW-PRESSURE DISTRIBUTION OR EQUIVALENT.
- THE HOUSE SHOWN HEREON IS THE HOUSE TO BE BUILT (2,400 S.F.) AND NOT THE STANDARD 55'x70'

SEPTIC TRENCH SIZING

SYSTEM	APPLICATION RATE (GPD / SF)	MAXIMUM FLOW RATE (GPD)	AREA OF REQUIRED TRENCH (SF)	TRENCH WIDTH (FT)	LENGTH OF REQUIRED TRENCH (LF)	EFFECTIVE DEPTH BEGINS (FT)	TRENCH BOTTOM DEPTH (FT)	TRENCH REDUCTION**	ADJUSTED LENGTH OF REQUIRED TRENCH (LF)	MINIMUM TRENCH SPACING (FT)	NUMBER OF TRENCHES	REQUIRED TRENCH LENGTH (FT)
INITIAL	0.6	600	1,000	3	333.3	9.5	8.0	0.55	183.3	10.0'	4	46'
REPLACEMENT	0.6	600	1,000	3	333.3	7.0	8.0	0.83	276.7	10.0'	4	70'



OWNER/DEVELOPER

PATRICK CURLEY &
 BROOKE CURLEY
 210 MARKET STREET
 BROOKVILLE, MARYLAND 20833

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



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 08/08/21

SAMER A. ALOMER P.E. DATE: 2/12/21

HOWARD COUNTY HEALTH OFFICER DATE: 2/12/21

LEGEND

- BAT BEST AVAILABLE TECHNOLOGY
- LPD LOW PRESSURE DOSING
- PASSED PERCOLATION TEST SITE
- PROPOSED WELL
- EXISTING WELL
- D / W PROPOSED DRYWELLS (STORMWATER)
- ▨ PROPOSED SEWAGE DISPOSAL AREA

DATE	2/10/21	DESCRIPTION	APPROVAL
PROJECT	20-022	ILLUSTRATION	MMM
		SCALE	1"=40'
		REVISIONS	MK

WARFIELD ESTATES, S-4, BL-A
 14511 MACCLINTOCK CT. - LOT 21
 TAX MAP: 21 - GRID: 04 - PARCEL: 129
 FOURTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
PERCOLATION CERTIFICATION PLAN

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 7850-B Grace Drive, Columbia, Maryland 21044
 (410) 997-0296 Tel. (410) 997-0298 Fax.

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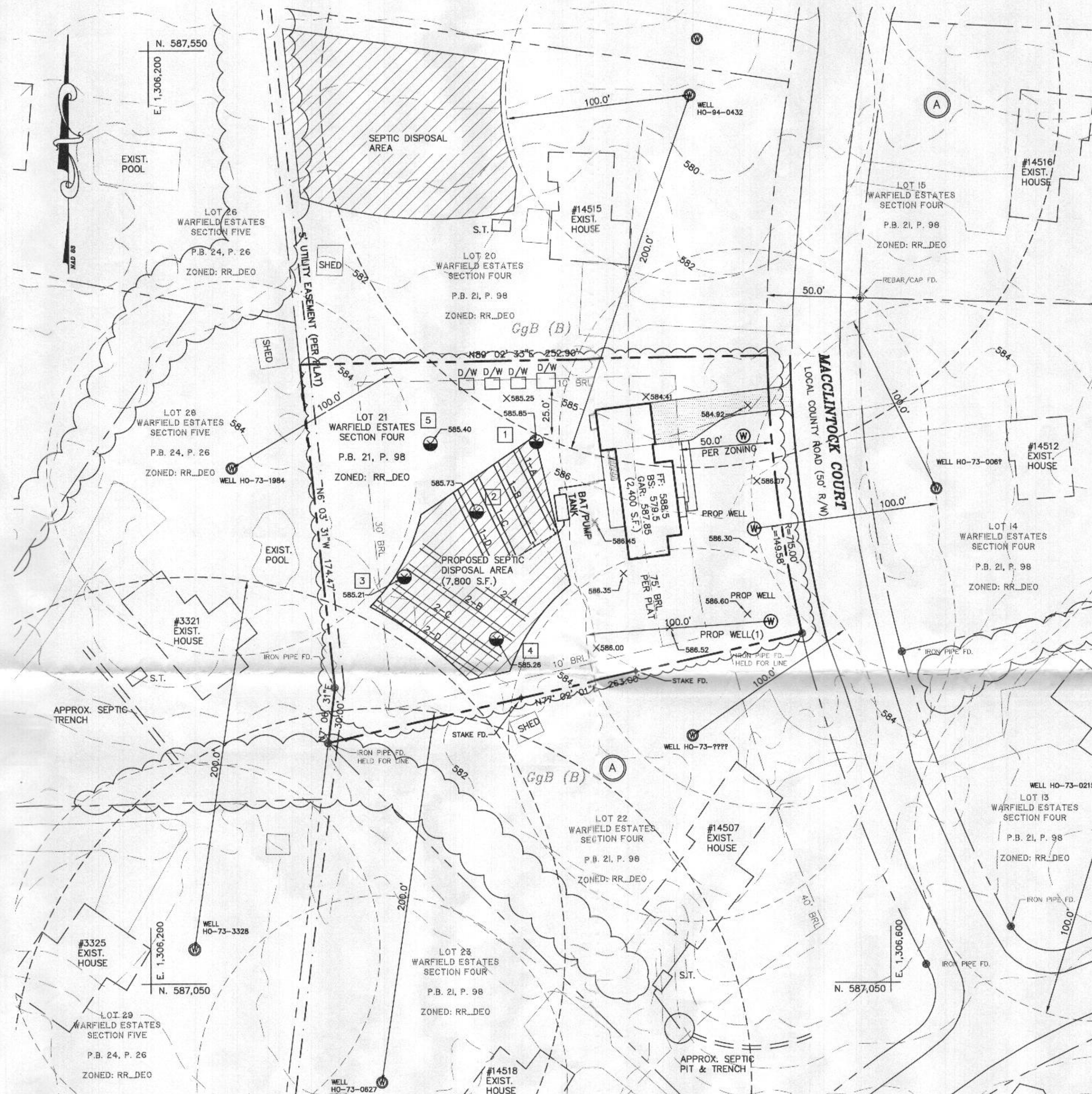
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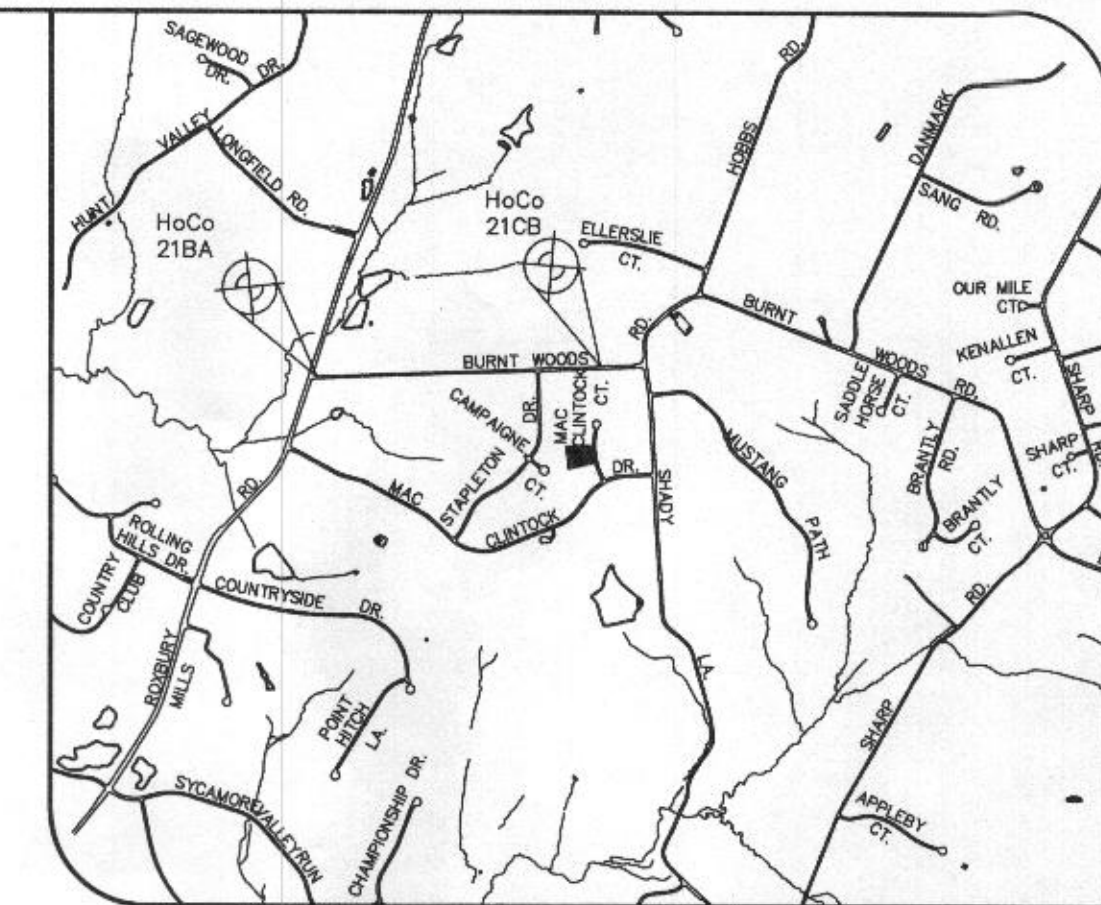
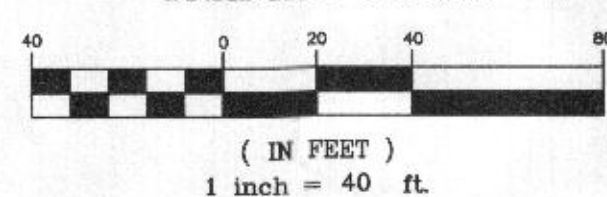
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GRAPHIC SCALE



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 - A BAT+LPD UNIT MUST BE INSTALLED IN THE INITIAL & REPLACEMENT SYSTEM.
 - ALL DRAINFIELDS INSTALLED IN THE RESPECTIVE SDA WILL BE DESIGNED FOR LOW-PRESSURE DISTRIBUTION OR EQUIVALENT.
- THE HOUSE SHOWN HEREON IS THE HOUSE TO BE BUILD (2,400 S.F.) AND NOT THE STANDARD 55'x70'

OWNER/DEVELOPER

PATRICK CURLEY &
 BROOKE CURLEY
 210 MARKET STREET
 BROOKVILLE, MARYLAND 20833

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

HOWARD COUNTY HEALTH OFFICER [Signature] DATE: 2/10/21

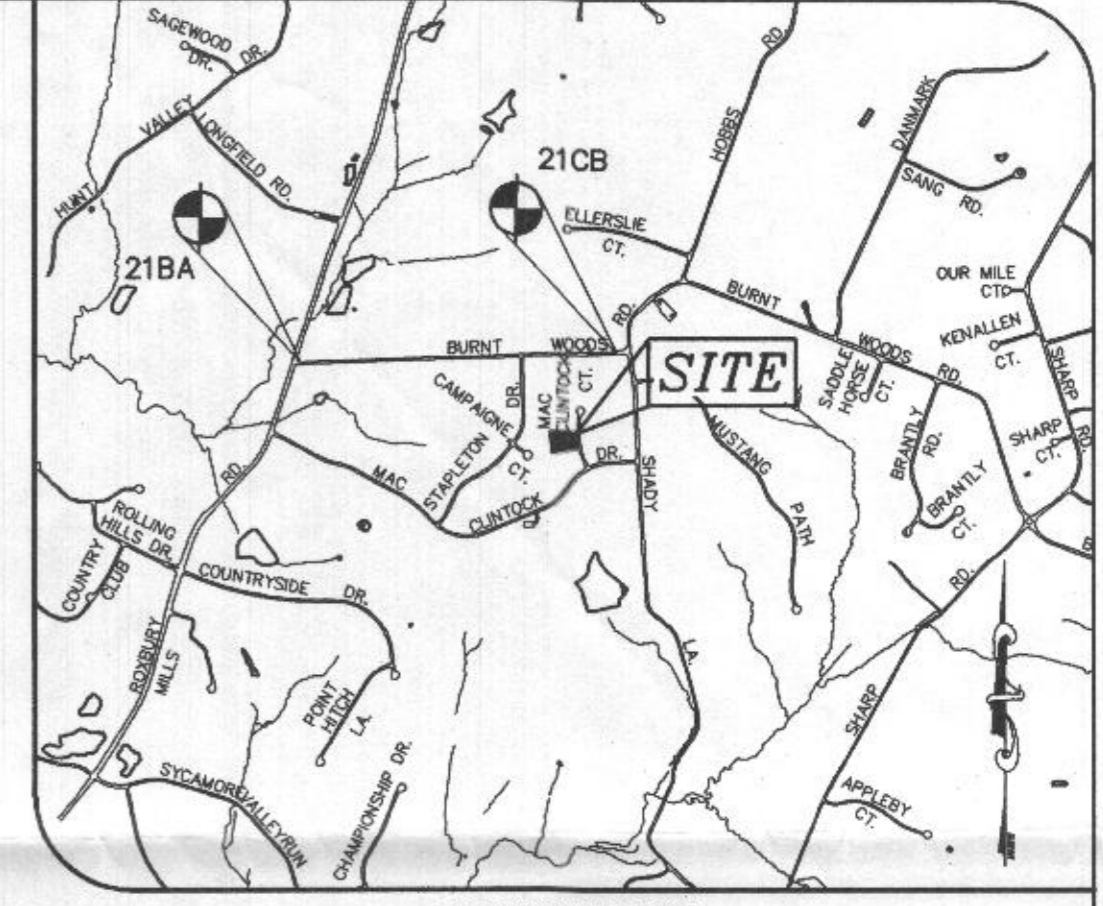
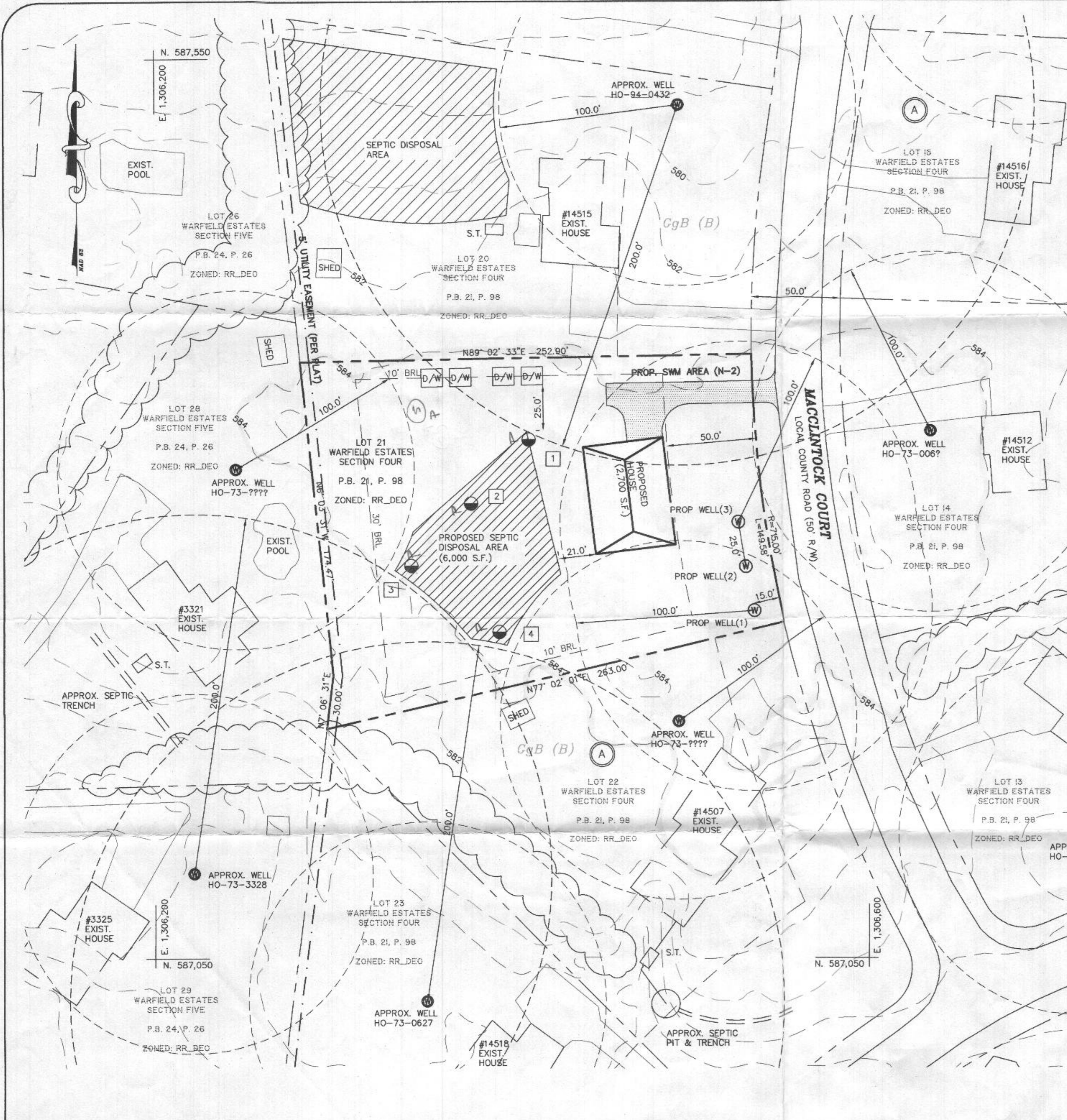


I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 26859, EXP DATE 08/08/21
 SAMER A. ALOMER P.E. DATE:

PROJECT	2/10/21	DATE	2/10/21
DESCRIPTION	20-022	ENGINEERING	MMK
SCALE	1"=40'	APPROVAL	MMK
REVISIONS			

WARFIELD ESTATES, S-4, BL-A
 14511 McCLINTOCK CT. - LOT 21
 TAX MAP: 21 - GRID: 04 - PARCEL: 129
 FOURTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
PERCOLATION CERTIFICATION PLAN

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 7850-B Orce Drive, Columbia, Maryland 21044
 (410) 997-0296 Tel. (410) 997-0298 Fax.



VICINITY MAP
SCALE: 1"=2000'
ADC MAP: 17 (A-6)

GENERAL NOTES:

1. THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN.
2. **PARCEL BACKGROUND:**
ADDRESS : 14511 MACCLINTOCK COURT, GLENWOOD, MD 21738
TAX MAP 21; PARCEL 129; LOT 21
ELECTION DISTRICT : FOURTH
DEED REFERENCE : 567 / 688
RECORD PLAT BOOK 21, PAGE 98 (PLAT DATED JAN. 1971.)
AREA : 44,305 S.F. OR 1.017 ACRES ±
TOTAL NUMBER OF UNITS : 1
TYPE OF PROPOSED UNIT : SFD
PROPOSED USE FOR SITE : RESIDENTIAL.
3. PROJECT BOUNDARY IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT JULY, 2020 BY MILDENBERG, BOENDER & ASSOC.
4. TOPOGRAPHY SHOWN HERE IS GIS AND WILL BE FIELD VERIFIED BY MILDENBERG, BOENDER & ASSOC, INC. IN JULY 2020 TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
5. HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 21CB & 21BA
STA. No. 21CB: N 588,188.046; E 1,306,716.711; EL. 589.835 (NAVD88)
STA. No. 21BA: N 588,125.189; E 1,303,655.381; EL. 532.020 (NAVD88)
6. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES HAVE BEEN SHOWN.
7. SOILS LOCATION AND CLASSIFICATION BASED ON HOWARD COUNTY GIS SOIL SURVEY
8. WELL LOCATIONS SHOWN ARE BASED ON HEALTH DEPARTMENT RECORDS VERIFIED BY FIELD VISIT.
9. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
10. SEPTIC TANKS AND DRAIN FIELD SHOWN IS BASED ON DATA PROVIDED BY HOWARD COUNTY HEALTH DEPARTMENT.
11. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. FOR LOTS CREATED PRIOR TO MARCH OF 1972 IT PROVIDES AT LEAST ENOUGH AREA TO ACCOMMODATE AND INITIAL AND TWO REPLACEMENT SEPTIC SYSTEMS AS REQUIRED BY THE HOWARD COUNTY HEALTH DEPARTMENT. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE 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.

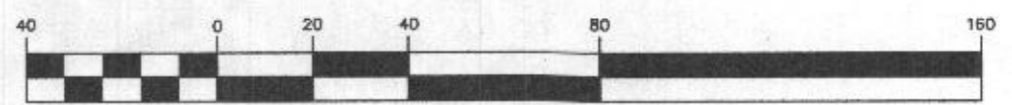
LEGEND

- PROPOSED PERCOLATION TEST SITE (NUMBERED)
- PROPOSED WELL
- EXISTING WELL
- PROPOSED DRYWELLS (SWM)
- PROPOSED SEWAGE DISPOSAL AREA

SOILS TABLE (WITHIN LOT)

SYMBOL	RATING	NAME	K FACTOR
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20

SOIL MAP: 10 (WOODBINE, SE)



(IN FEET)
1 inch = 40 ft.

Project	20-022	date	9/30/2020
Illustration	TMH	engineering	TMH
scale	1"=40'	approval	SAA

NO.	description	date

WARFIELD ESTATES, S-4, B-A, LOT 21
14511 MACCLINTOCK COURT
TAX MAP 21, GRID 04, PARCEL 129
FOURTH ELECTION DISTRICT
PERCOLATION SITE PLAN
HOWARD COUNTY

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER _____ DATE _____



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SAMER A. ALOMER P.E. DATE: _____

OWNER/DEVELOPER

ALBERT M. MONTAGNA &
RAE MONTAGNA
10357 MACCLINTOCK CT.
GLENWOOD, MARYLAND 21738