



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

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

APPLICATION FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME La Casa De Rosa Residential Care Facility

PROPERTY ADDRESS 11520 Johns Hopkins Rd Clarksville, MD 21029
STREET TOWN ZIP

TAX ACCOUNT # 05-376122 TAX MAP 41 GRID 9 PARCEL 337 LOT NO. PROPOSED LOT
ZONING CATEGORY RR-DEO TIER SIZE (ACRES)

PROPERTY OWNER(S) Rolling Hills Baptist Church

DAYTIME PHONE 301.938.5878 CELL EMAIL russspikes@verizon.net

MAILING ADDRESS 11510 Johns Hopkins Rd Clarksville, MD 21029
STREET CITY, STATE ZIP

APPLICANT Jonathan Blasco, PE

RELATIONSHIP TO OWNER: Engineering Consultant

DAYTIME PHONE 443-325-5076 x110 CELL EMAIL jonathan@sillengineering.com

MAILING ADDRESS 16005 Frederick Road, Woodbine MD 21797
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 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

Residential Care Facility: 5 Beds, 2 Employees

Church - 247 seats

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

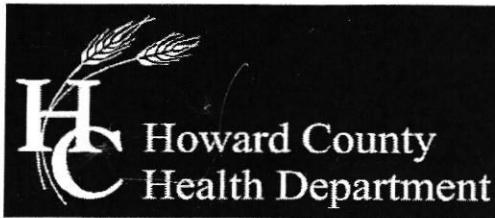
- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE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

SIGNATURE OF APPLICANT

DATE



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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 11520 + 11510 Johns Hopkins Rd.

Subdivision: N/A Lot:

603 + 605 Initial system: Application rate: 0.8 Effective area beginning depth: 4 Bottom maximum depth: 8
603 + 605 + 602 1st Replacement: Application rate: 1.2 Effective area beginning depth: 4 Bottom maximum depth: 8
605 + 602 2nd Replacement: Application rate: 1.2 Effective area beginning depth: 4 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:

- 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
- 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:

Avoid holes 604 + 601 due to heavy clay content and compact sand. If holes must be used effective area is 6'-8' @ 1.2 rate. Area North of parking lot may use effective area between 4'-8' @ 1.2 rate. (Holes 606 - 608)

Approved: RJE Date: 8/22/22

AP P572081

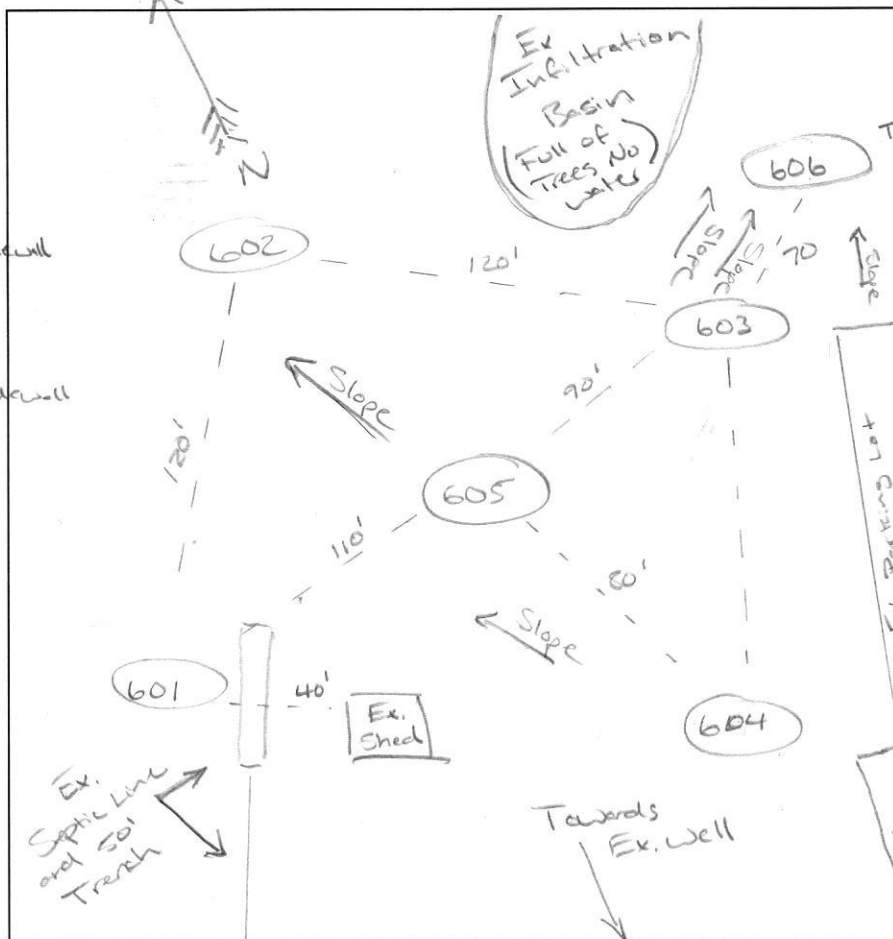
605
DB to LYB, Loom
YR, MSTRK, CL, Tight Sidewall
YR, R, Thin Flaky, SCL, Few Fine Mica, Tight Sidewall
YR+RY Mix, Thin Flaky, SL to LS
↓

602
S
A
M
E
A
S

605

601
S
A
M
E
A
S

604



604
LYB, Loom Thick Flaky, MSTRK
SB, R, MSTRK-
FSBK, CL, dh-deh, very compact Sidewall
3' SB, YR, R, Thin Flaky, deh, SCL-CL w/ sand pockets
4.5' SB, YR, Thin Flaky, SCL-SL, deh, w/ sand pocket
6' Mix, Very Compact Sidewall
VPS, White, Thin platy, LS-S, mult, many fine mica
↓ FS
12' Ex. Church

↓ Towards Johns Hopkins Rd. ↓

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/15/2022	605	4 / 13	9:38	9:39	9:41	2	P
	602	4.5 / 12	10:09	10:11	10:14	3	P
	601	16 / 40	10:50	—	11:09	19	—
	604	4 / 12	NO MOVEMENT				F
	601	8 / 16	12:22	12:24	12:27	3	P
	604	8 / 12	12:35	12:37	12:41	4	P
	603	5 / 12	1:42	1:46	1:52	10	P

603
R, Loom, 20% Cobble Gravel
YR, MSTRK, Thick Flaky, MFR, CL
2.5' YR, RB, Thin Flaky, SCL, MFR
4' YR, Thin Flaky, SL, MFR
4.5' YR, Thin Flaky, LFS, MFR
↓

REMARKS 601 Moist @ 14', Sand T, 2 Buckets Dumped @ Bottom of 16ft.
SANITARIAN RSF BACKHOE James Harrison OTHERS
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

11520 Johns Hopkins Rd (Personage) 1 of 2

A/P P572081

North

606

DB, Loom
YR, SS, Then
Pleth, LS,
mvfr

Ex. Woods

Ex.
Parting
Lot

Ex. Church

↓ ↓ Steep slope ↓ ↓ ↓

603

Ex. Infiltration
Brain

608

606

607

Flat
Area

Flat Area

SAME AS

↑ Towards Johns Hopkins Rd. ↑

[illegible]

608

DB, Loam	
YR, YB,	
CSBK, XL,	
deh, dense side soil	
YR, MSBK,	
SCC, dsh,	
RY, thin flaky	
SL, mfr	

REMARKS _____

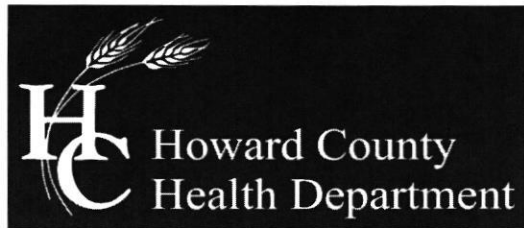
SANITARIAN RAE BACKHOE Jamie Harrison OTHERS _____

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

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

11510 Johns Hopkins Rd (church)

20f2



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Twitter: HowardCoHealthDep

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

Date: August 22, 2022

To: Jonathan Blasco
16005 Frederick Rd.
Woodbine, MD 21979

Re: **Percolation Test Report**
11520 Johns Hopkins Rd.
Clarksville, MD 21029

Percolation tests were conducted at 11520 Johns Hopkins Rd. (Tax Map 41, Parcel 337) on August 15, 2022. Tests and profile descriptions were documented for locations 601, 602, 603, 604, 605, 606, 607, and 608. All eight test holes passed. All holes must be field located and accurately represented on the perc certification plan.

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. Due to deep clay content between holes 601 & 604 the existing septic system is not adequate for the residential care facility. Areas that may be included in the septic reserve area are represented by test locations having satisfactory soil condition. The area must be at large enough to accommodate an initial septic system and two replacement systems.

The next step in the process is to have an engineer/consultant submit a percolation certification plan to confirm the design of the sewage disposal area.

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,

Robert Freemon
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Field Notes

NOTES:

- 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY.
- 2) 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.

- CHURCH: TANK SIZE: 2 TANKS AT 1,500 GAL
SYSTEM WAS CERTIFIED BY FYOCK SEPTIC SERVICE, INC. ON 10-15-2021: PASSED
TANK WAS PUMPED DURING CERTIFICATION.

- RESIDENTIAL
CARE FACILITY: TANK SIZE: 1 TANK AT 1,500 GAL
SYSTEM WAS CERTIFIED BY FYOCK SEPTIC SERVICE, INC. ON 10-15-2021: PASSED
TANK WAS PUMPED DURING CERTIFICATION.

- RESIDENTIAL CARE FACILITY:
 - 100 GPD PER BED (5 BEDS)
 - 15 GPD PER EMPLOYEE (2 EMPLOYEES)
 - (5 BEDS X 100 GPD) + (2 EMPLOYEES X 15 GPD)
 - 500 GPD + 30 GPD = 530 GPD

- CHURCH: 3 GPD PER SEAT (247 SEATS)
3 GPD X 247 SEATS = 741 GPD

- TOTAL: 1,271 GPD

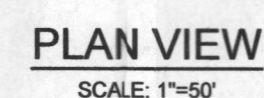


APPROVED : FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN
ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AS IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PAUL M. SILL, PE, LEED AP
LICENSED PROFESSIONAL ENGINEER #32025

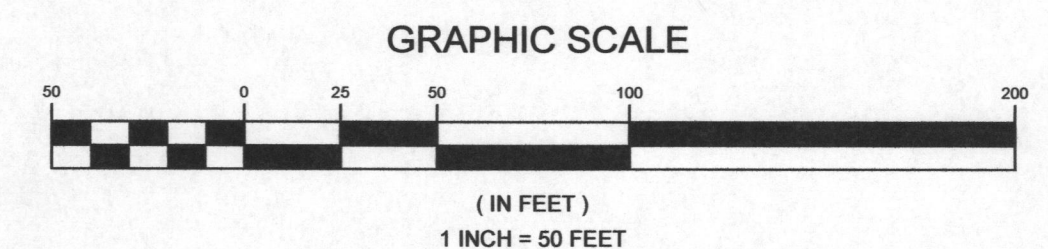
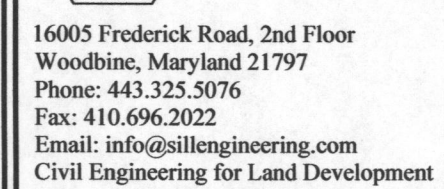
DATA



EXISTING 2FT FIELD ROW CONTOUR	-----	382
EXISTING 10FT FIELD ROW CONTOUR	-----	380
EXISTING 2FT GIS CONTOUR	-----	380
EXISTING 10FT GIS CONTOUR	-----	380
EXISTING PERCOLATION TEST HOLE (PASSED)		602
EXISTING SEPTIC CLEAOUT		
PROPOSED SEPTIC CLEAOUT		
EXISTING STORM DRAIN CLEAOUT		
EXISTING TREE		
EXISTING TREELINE		
PROPOSED SEWAGE DISPOSAL AREA		
PROPOSED WELL BOX		
STEEP SLOPES (25% - 100%)		
SOIL BOUNDARY	=====	
FLOODPLAIN BOUNDARY	=====	
STREAM CENTERLINE	=====	
100' STREAM BUFFER	=====	SB
LIMIT OF WETLAND	=====	W
WETLAND BUFFER	=====	WB



1. SUBJECT PROPERTY ZONED RD-DEO PER 10-06-2013 COMPREHENSIVE ZONING PLAN.
2. PROPERTY ADDRESSES:
BELLVIEW CHURCH BAPTIST CHURCH: 11510 JOHNS HOPKINS ROAD, CLARKSVILLE MARYLAND 21029
LA CASA DE ROSA RESIDENTIAL CARE FACILITY: 11520 JOHNS HOPKINS ROAD, CLARKSVILLE, MD 21029
3. DEED REFERENCE: LIBER: 531 FOLIO: 502
4. PROJECT ACCELERATE: PARCEL: 337: 6.501 AC ±
5. PREVIOUS HOWARD COUNTY FILE NUMBERS: SDP-75-044
6. PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
7. ☒ THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). ANY IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL 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 DISPOSAL AREA. THE RELOCATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
8. THE BOUNDARY SHOWN HEREON IS BASED ON A BOUNDARY SURVEY PREPARED BY SEG LAND SURVEYING, LLC IN SEPTEMBER OF 2022.
9. THE EXISTING TOPOGRAPHY SHOWN WITHIN THE DEVELOPED AREA IS BASED ON A FIELD ZON TOPOGRAPHIC SURVEY. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. TOPOGRAPHY OUTSIDE THE DEVELOPED AREA IS BASED ON HOWARD COUNTY GIS FLOWN IN 2018.
10. THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
11. ALL EXISTING SEPTIC SYSTEMS AND SEPTIC DISPOSAL AREA WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA HAVE BEEN LOCATED.
12. THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO CREATE A SEWAGE DISPOSAL AREA AND REPLACEMENT WELLS.

MARCEL 337
MARYLAND

DESIGN BY: PS
DRAWN BY: AC
CHECKED BY: PS
SCALE: AS SHOWN
DATE: FEBRUARY 13, 2023
PROJECT #: 21-102
SHEET #: 1 of 1

PROFESSIONAL CERTIFICATION: 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. 32025 EXPIRATION DATE: JUNE 20, 2023.

THE EXISTING SEPTIC SYSTEM SERVING
THE PARSONAGE MUST BE UPGRADED
PRIOR TO BUILDING PERMIT APPROVAL.

OWNER/DEVELOPER

ROLLING HILLS BAPTIST CHURCH
11510 JOHNS HOPKINS ROAD
CLARKSVILLE, MARYLAND 21029

NOTES:

- 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
- 2) 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.

- CHURCH: TANK SIZE: 2 TANKS AT 1,500 GAL
SYSTEM WAS CERTIFIED BY FYOCK SEPTIC SERVICE, INC. ON 10-15-2021: PASSED
TANK WAS PUMPED DURING CERTIFICATION.

CARE FACILITY: TANK SIZE: 1 TANK AT 1,500 GAL
SYSTEM WAS CERTIFIED BY FYOCK SEPTIC SERVICE, INC. ON 10-15-2021: PASSED
TANK WAS PUMPED DURING CERTIFICATION.

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 - 15 GPD PER EMPLOYEE (2 EMPLOYEES)
 - (5 BEDS X 100 GPD) + (2 EMPLOYEES X 15 GPD)
 - 500 GPD + 30 GPD = 530 GPD

- CHURCH: 3 GPD PER SEAT (247 SEATS)
3 GPD X 247 SEATS = 741 GPD

- TOTAL: 1,271 GPD

2. SUBJECT PROPERTY ZONED RR-DEO PER 10-06-2013 COMPREHENSIVE ZONING PLAN.
3. PROPERTY ADDRESSES:
4. ROLLING HILLS BAPTIST CHURCH: 11510 JOHNS HOPKINS ROAD, CLARKSVILLE, MARYLAND 21029
5. A CASA DE ROSA RESIDENTIAL CARE FACILITY: 11520 JOHNS HOPKINS ROAD, CLARKSVILLE, MD 21029
6. DEED REFERENCE: LIBERT: 531 FOLIO: 502
7. PROJECT ACREAGE: PARCEL 337: 6.501 AC. ±
8. PREVIOUS HOWARD COUNTY FILE NUMBERS: SPD-75-044
9. PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
10. [] THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SF AS REQUIRED
11. BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL
12. CONSTRUCTION OR MAINTENANCE OF ANY TANKS IN THIS AREA IS RESTRICTED. THIS SEWAGE
13. DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM.
14. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE
15. SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
16. THE SURVEY IS BASED ON A BOUNDARY SURVEY PREPARED BY SEG LAND
17. SURVEYING, LLC IN SEPTEMBER OF 2022.
18. THE EXISTING TOPOGRAPHY SHOWN WITHIN THE DEVELOPED AREA IS BASED ON A FIELD RUN
19. CONTOUR SURVEY BY SEG LAND SURVEYING, LLC IN SEPTEMBER OF 2022. TOPOGRAPHY WITHIN
20. OUTSIDE THE DEVELOPED AREA IS BASED ON HOWARD COUNTY FLOW MAP.
21. THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED
22. BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
23. THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM SEWAGE DISPOSAL AREA WITHIN 100 FEET OF THE
24. PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET
25. DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA HAVE
26. BEEN LOCATED.
27. PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO CREATE A SEWAGE DISPOSAL AREA
28. AND REPLACEMENT WELLS.



THE EXISTING SEPTIC SYSTEM SERVING THE PARSONAGE MUST BE UPGRADED PRIOR TO BUILDING PERMIT APPROVAL.

APPROVED : FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN
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PAUL M. SILL, PE, LEED AP
LICENSED PROFESSIONAL ENGINEER #32025

DATE _____

OWNER/DEVELOPER
ROLLING HILLS BAPTIST CHURCH
 11510 JOHNS HOPKINS ROAD
 CLARKSVILLE, MARYLAND 21029



**SILL
ENGINEERING
GROUP, LLC**

16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: AC
CHECKED BY: PS
SCALE: AS SHOWN
DATE: FEBRUARY 13, 2023
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7/30/2024 - Received pit of
Post for alarm @ 55"
above grade (sf)