

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

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

RECEIPT DATE: 4/4/24 **ONSITE SEWAGE DISPOSAL SYSTEM** P 586633

APPROVAL DATE: 5/29/2024 **PERMIT: UPGRADE** A _____

PROPERTY ADDRESS: 13071 Wainwright Road

SUBDIVISION: _____ LOT: _____ TAX ID: _____

CONTRACTOR: Fogles Septic Clean Inc. EMAIL: kim@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670

PROPERTY OWNER: Oliver Gray EMAIL: _____

OWNER ADDRESS: 13071 Wainwright Road, Highland, MD 20777 PHONE: _____

SEPTIC TANK SIZE: Existing 1500g PUMP SIZE: N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY DRIP DISPERSAL BEDROOMS: 5 APPLICATION RATE: 1.2

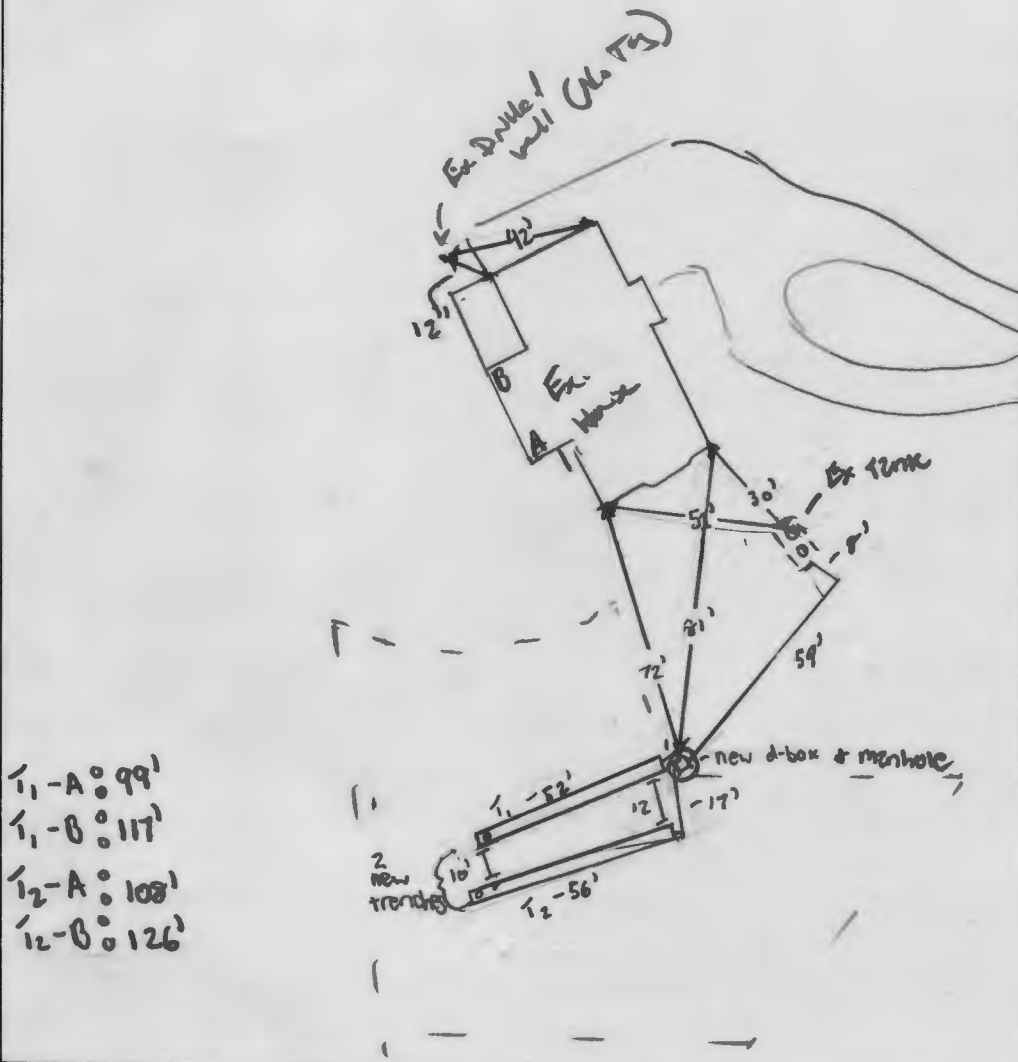
TRENCHES:	LINEAR FEET REQUIRED: <u>104 (2 x 52)</u>	INLET DEPTH: <u>2/2.38 3.5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7 8</u> <i>(Kw)</i>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	SYSTEM TO BE STAKED BY DESIGNER AND VERIFIED BY APPROVING AUTHORITY DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Jeff Williams *H.O.* ISSUE DATE: 4/22/24 EXPIRATION DATE: 4/22/25

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR REGISTERED WITH THE STATE OF MD ON-SITE WASTEWATER PROFESSIONALS BOARD: CONFIRMED
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E N/A
- NOTE: THE HCHD DOES NOT WARRANT ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM. PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT. CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE 1" = 50'



- 11-A : 99'
- 11-B : 117'
- 12-A : 108'
- 12-B : 126'

ROAD NAME _____

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		108'
ABSORPTION AREA		324
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes & manhole

Ex. SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL N/A

MANUFACTURER	_____
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER	_____
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

SEPTIC CONTRACTOR ONSITE INSTALLING SYTEM: _____
 SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD. YES/NO YES

PRE-CONSTRUCTION NOTES:
5/22/2024 SDA has been started per plans. Start

at tank per stake out. could not backfill to initial system. For both
OK soils down to 12' confined. OK to deeper tanks to 3 1/2" inlet w/
8' bottom. Told installer must confirm this with engineer w/ as-built/redline (K)

INSTALLATION NOTES:
5/29/2024 - Installer and homeowner on site for inspection 10% percent fall from tank
to D-box achieved. D-box leveled while on site line connecting D-box to trenches installed
Trench length at 52' and 56', inlet at 3 1/2" width at 3' per plan. Distance between
trenches 10-17'. OK to backfill all work (M/SP)

CONTROL PANEL DATA

CONTROL PANEL HEIGHT	_____ (MIN 30")
INSPECTION DATE	_____
INSPECTION: PASS/FAIL (CIRCLE ONE)	_____

FINAL INSPECTOR S. Page / M. Orms DATE OF APPROVAL 5/29/2024

LIBER 15529 FOLIO 255

4/7/2014 09:13 AM Csh 0031 Reg 0047
T/Ref 0047065947 Grp 000031 R/Line 000001
01 - Main Location
\$0.00 **000113**
Validation Number: 0047-071206
1000000000-1300-405910-1300000000-995999
Parcel Numbers: 5372682
Doc Type: Deeds
Consideration Amount: \$0.00

INTERFAMILY TRANSFER, NO CONSIDERATION, NO TITLE EXAMINATION

QUITCLAIM DEED

Made this 24th day of March, 2014, by and between **ANGELA COCHRAN**, and **ANDREW COCHRAN**, Husband and Wife, parties of the first part ("Grantors") and **ANDREW COCHRAN**, party of the second part (Grantee).

Witnesseth, that for and in consideration of the sum of \$0.00 dollars, the said parties of the first part do grant and convey unto the party of the second part, in fee simple, the following described land and premises, with the improvements, easements and appurtenances thereunto belonging, situate, lying and being in Howard County, State of Maryland, and described as follows:

BEGINNING FOR THE SAME and being all that parcel of land lying west of Maryland Route 108 and northeast of the Patuxent River in the Fifth Election District of Howard County, Maryland; said parcel being more particularly described as follows:

BEGINNING for said parcel at a 1 inch pipe found at the beginning of the 1st or North 58 degrees 36 minutes East 350.00 foot line of that parcel of land which by Deed dated May 30, 1975 and recorded among the Land Records of Howard County in Liber 724, folio 530 was conveyed by Keith G Winkler and Carol G. Winkler unto Phillip E. Goodall and Mary Ann Goodall; thence binding on all of said 1st line and on the centerline of a 30 foot right of way described in Liber 724, folio 530, and binding on part of 4th or North 55 degrees 50 minutes East 430 foot line of that parcel of land which by Deed dated July 8, 1951 and recorded among the Land Records in Liber 371, folio 8 was conveyed by Robert M. Moore unto Offa S. McCollum and Nancy McCollum; and binding on part of the 4th or North 55 degrees 50 minutes 00 seconds East 153.93 foot line of that parcel of land which by Deed dated July 5, 1973 and recorded among the Land Records in Liber 645, folio 204 was conveyed by Henry J. Dietle unto Vincent R. Christopher and Rosemary Christopher;

(1) North 47 degrees 51 minutes 31 seconds East a distance of 349.68 feet to a 1 inch pipe found; thence leaving the centerline of the abovementioned 30 foot right of way described in Liber 724, folio 530 and binding on all of the 2nd and 3rd lines of the abovementioned parcel described in Liber 724, folio 530, the two (2) following courses and distances;

(2) North 52 degrees 20 minutes 18 seconds West a distance of 632.16 feet and 1 inch pipe found, thence

(3) South 47 degrees 54 minutes 33 seconds West a distance of 349.62 feet and a 1 inch pipe found, thence binding on all of the 4th and 5th lines of said parcel described in Liber 724, folio 530;

(4) South 52 degrees 19 minutes 41 seconds East a distance of 632.47 feet to the place of beginning. Containing 4.9950 acres of land, more or less as surveyed by Shanabers and Lane.

TOGETHER WITH and SUBJECT TO a 30 foot wide roadway described in a Deed dated May 30, 1975 in Liber 724, folio 530 and originally set out in a Deed dated September 19, 1963 in Liber 408, folio 394.

which has an address of 13071 Wainwright Road, Highland, Maryland 20777.

Harbor City Research, Inc.
201 N. Charles St., Suite 900
Baltimore, MD 21201

W087155 #8640E

20
40
1X

HOME LAND

ENVIRONMENTAL

p:443-995-5385 | info@homelandhealthyhomes.com | www.homelandhealthyhomes.com

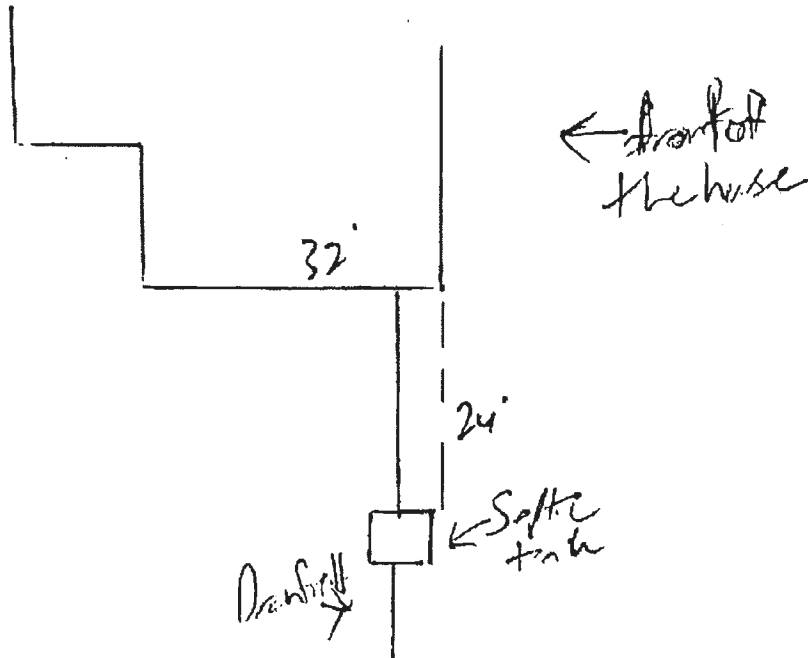
Date: June 7, 2022 Name of Evaluator: Nicholas Riehl Time: 12:30 PM Property Address: 13071 Wainwright Road Highland, MD 20777 Recent Weather Conditions: Normal	Ordered By: Well Water Solutions Buyers: Homeowner Interview: The homeowner interview was sent but was not received prior to the evaluation.	Occupied: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Length of Time Vacant: Unknown # of People Living in Home: N/A # of People moving in: Unknown Property Age: 1960 System Age: 1960 Last Date of Cleaning: Unknown Recomm'd Pumping Freq: 2-3 Years
Liquid level in tank is: <input type="checkbox"/> Above Normal <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Below Normal	Bottom Solids Depth: 12 Inches	
Depth of tank: 4 Inches	Type of Tank Access: 4" Cleanout	Depth of tank access: 3 Inches
Maintenance appears: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor	Depth to Distribution Box: Unknown	
Effluent Filter present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Previous high liquid level: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Distance to well: -100 Feet
Records Search: Records were requested but were not received from Howard County prior to the evaluation.		
Were there any impermeable surfaces above the septic system (i.e. driveway)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Type of Tank	Tank Composition and Size	Type of Absorption System
<input checked="" type="checkbox"/> Septic Tank (1 tank)	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Cinderblock <input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Leeching Field <input type="checkbox"/> Sand Mound
<input type="checkbox"/> Aeration System		<input type="checkbox"/> Drywell (Number of: 1) <input type="checkbox"/> Cesspool
<input type="checkbox"/> Other:	Tank Size: 500 Gallons	<input type="checkbox"/> Unknown: _____
System Component	Condition	Comments
Septic Tank	<input type="checkbox"/> Acceptable <input checked="" type="checkbox"/> Unacceptable <input type="checkbox"/> Needs Further Evaluation	The septic tank is composed of cinderblock and is approximately 500 gallons in total capacity. The septic tank is accessible via a terracotta cleanout 3 inches below grade. The septic tank is 4 inches below grade. Cinderblock tanks are known to have structural integrity issues and are prone to leaking. A licensed septic contractor will need to replace the septic tank after permits have been pulled from the local county health department. Roots and disjoints were observed within the front line. The front line will need to be remediated at the time the septic tank is replaced. Please refer to page 2 and the camera septic report for further information.
Absorption System	<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input checked="" type="checkbox"/> Needs Further Evaluation	One drainfield was believed to have been located during the evaluation. There area above the believed drainfield was observed to have been sunken in. The surrounding stone was probed and observed to be dry to a depth of at least 4 inches from the top of the stone. Due to the composition of the front baffle, the interior of the tank could not be seen. Without knowing the location of the outlet line, a hydraulic load was unable to be conducted. When the septic tank is replaced, the absorption system should be re-evaluated to verify its functionality.

HOME LAND ENVIRONMENTAL

p: 443-995-5385 | info@homelandhealthyhomes.com | www.homelandseptic.com

13071 Wainwright Road Highland, MD 20777

1:70





HOWARD COUNTY HEALTH DEPARTMENT

72723

DATE 12/13/22

Received From

Fogles Septic Clean PHONE # 410-795-5602

CASH
 CHECK

For

Tank replacement
13071 Wainwright Rd

NO 18092

One hundred and fifty

Dollars

\$ 165.00

Received By

[Signature]

FOGLES SEPTIC CLEAN, INC.

78092

DIRECTOR OF FINANCE
5500 · OPERATIONAL EXPENSES:690 · Gray

12/13/2022

165.00

Checking NWSB

13071 Wainwright Rd

165.00

Oswald, Hank

From: Mischka Johnson <mischka@clarksvilleconstruction.net>
Sent: Tuesday, March 7, 2023 1:34 PM
To: Oswald, Hank
Subject: RE: B23000401
Attachments: Inv_339393_from_Fogles_Septic_Clean_Inc._26988.pdf; 13071 WAINWRIGHT RD.pdf

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

----- Forwarded message -----

From: **Kelsey Baker** <Kelsey@foglesinc.com>
Date: Thu, Mar 2, 2023 at 3:42 PM
Subject: 13071 WAINWRIGHT RD
To: MISCHKA@CLARKSVILLECONSTRUCTION.NET <MISCHKA@clarksvilleconstruction.net>

Hi Mischka,

Here is all of the info that I have.

Kelsey Baker

Fogle's Septic Clean, Inc.

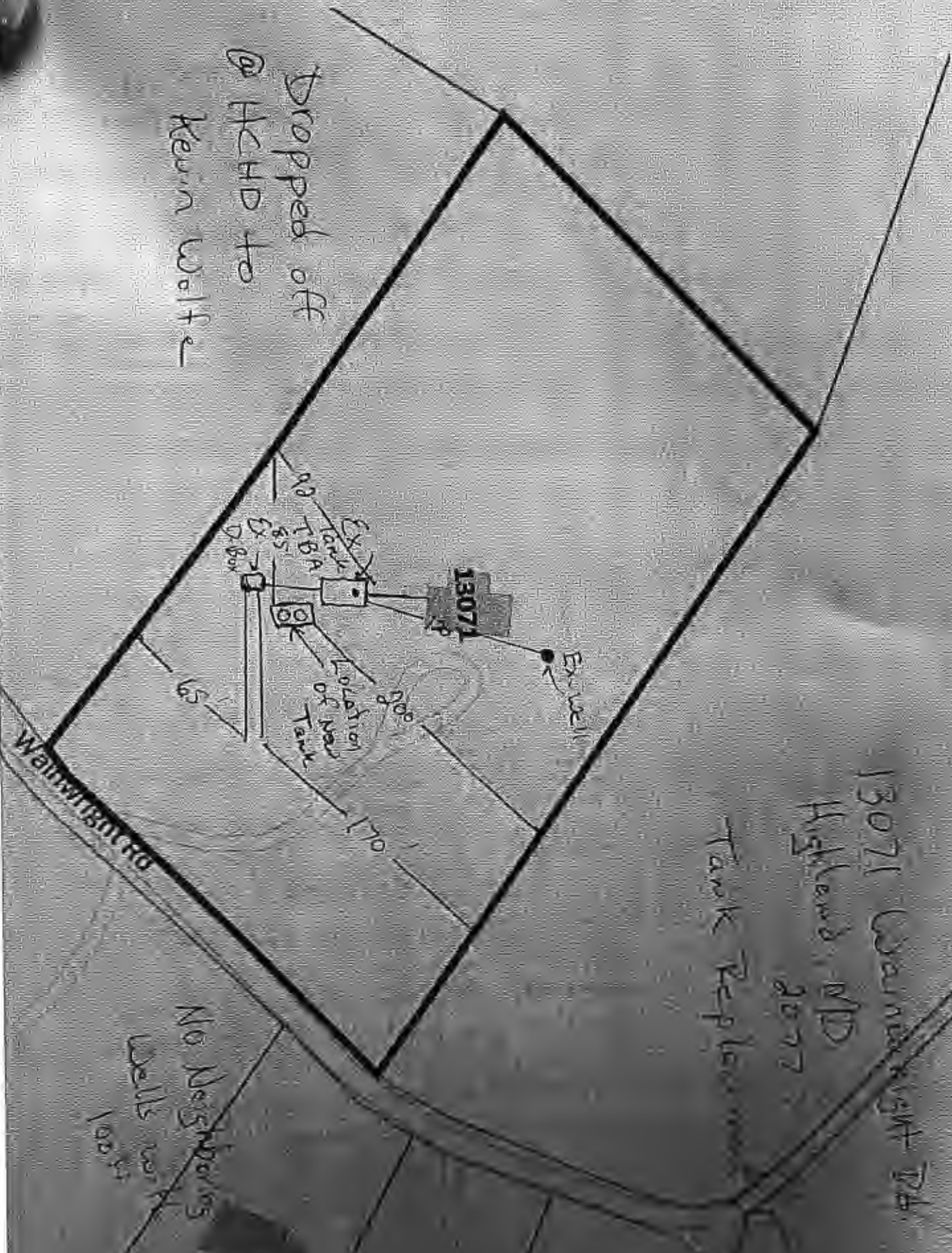
410-795-5670

580 Obrecht Rd

Sykesville, MD 21784

In Office Hours: M-F 8am-4pm

Dropped off
@ HCHD 40
Kevin Wolfe



13071 Highlands, MD
20777
Tank Replacement

No Neighbors
Well's nearby

Davis, Michael

From: Davis, Michael
Sent: Thursday, March 14, 2024 3:04 PM
To: Paul Sill
Cc: Oliver Gray; Eshenbaugh, Melanie; Taylor Bielski; Williams, Jeffrey; Zach Sill; Silvast, Zackary
Subject: RE: regarding 13071 Wainwright Road (OSDS plan -revision comments)

Paul,

I appreciate your input in our conversation yesterday and the Health Department will be announcing the OSDS plan requirement training I suggested in the near future. I think that will go a long way in helping the development community understand our needs as well as improving our communication with development stakeholders. The training will also provide some approved examples of how certain details necessary for construction are shown. It may also bring to light that there are different ways to illustrate these details on plans, which in some cases has been viewed as inconsistency. I may reach back out to you for input as the training is being developed.

I have reviewed your responses below and the two items in Jeff's March 11th comments (#1 & #4) that needed to be addressed have been resolved with the revision. The other comments were the result of installation issues that we have seen when contractors are installing systems. I understand this has been a long process and I'm willing to sign the OSDS Plan without further addressing these suggestions. Submit a minimum of three copies and I will expedite signature.

Mike

Michael J. Davis, Director
Bureau of Environmental Health
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045



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From: Paul Sill <paul@sillengineering.com>
Sent: Wednesday, March 13, 2024 11:16 AM
To: Davis, Michael <mjdavis@howardcountymd.gov>
Cc: Oliver Gray <grayoliver@gmail.com>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>; Taylor Bielski <taylor@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Zach Sill <zach@sillengineering.com>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: regarding 13071 Wainwright Road (OSDS plan -revision comments)
Importance: High

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

Hi Mike,

Thanks for the call this morning. I've reviewed the latest comments with Zach in my office, and realized we have not submitted hard copies of the pdf that Jeff responded to below, so we can make the change I mentioned. To expediate the signature of this plan and release of the building permit, I would like to suggest this response to the comments:

- 1) This was not a tree, but a stack of brush and branches that was erroneously labeled; there is no tree there. It was deleted from the plan.
- 2) Since the use of fractional labels is accurate and the decimal label is not a requirement, leave as shown on this plan.
- 3) What we have provided seems to be more than the requirement and can be left as shown.
- 4) We have revised the septic trench details to call out the 2" minimum cover.
- 5) The current pipe slope and trench cover is within the required range and can be left as shown.
- 6) While the septic system trench specs do not label an elevation of the trench bottom, it does list the depth of trench and can be left as shown.

The Howard County Health Department is discussing internally about having a meeting with designers of septic plans to ensure uniformity of future projects, the results of this meeting will be incorporated on future submittals from this office.

Please see the attached plan incorporating the change for Comment 4. Let me know after you review this if you agree with my responses and we will drop off paper copies for signature.

Thanks,

Paul M. Sill, PE, LEED AP



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC
16005 Frederick Road, 2nd Floor
Woodbine, MD 21797 | Cell: 443-878-4314
Office: 443-325-5076 ext. 102 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Monday, March 11, 2024 3:07 PM
To: Zach Sill <zach@sillengineering.com>; Silvast, Zackary <zsilvast@howardcountymd.gov>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Cc: Paul Sill <paul@sillengineering.com>; Oliver Gray <grayoliver@gmail.com>; Taylor Bielski <taylor@sillengineering.com>; Davis, Michael <mjdavis@howardcountymd.gov>
Subject: RE: regarding 13071 Wainwright Road (OSDS plan -revision comments)

Hello Zach. We looked at this pdf and I want to make a couple comments for this submittal and some comments for general info moving forward.

1. It looks like you just removed the tree near the initial trenches from the plan. Has this tree already been removed? If not, it would be more accurate to show the tree with a label of "to be removed" as we stated in our initial comment letter.
2. The fitting you call out in the trench would probably make more sense to an installer if it is labeled as a 22.5 degree elbow. Also for future reference, we do not require you to call out every elbow in the line from tank to trench. Our comment letter referenced fittings in the trench itself if you cannot make it straight (which is preferable). Elbows in the building sewer line before the tank should be called out because you can't do a 90 degree bend in the sewer line, it has to be a combo of max 45 degree bends and you need to call them out for the installer. In the effluent line, you do not need to call out fittings unless it is a force main and you need to calculate the friction loss. You are welcome to do it, but we are not requiring it.
3. The trench profile you show is not a new requirement and is not exactly a requirement in the way you are showing it. Please see the OSDS design plan fact sheet from our website (attached). Note 12 states that you need a profile drawing with all invert elevations. You can do that on one profile drawing just showing a narrow illustration of the front of each trench with the invert elevation instead of illustrating the entire trench length in multiple profiles. That way multiple trenches can be shown on one profile. If there is a complex design and you are installing a trench off contour, then maybe there would be a need for a trench profile view along the length of the trench for the installer and reviewer to see how the trench relates to the changing ground elevation, but that is not the case on the typical, simple residential system.
4. The trench detail view is also related to fact sheet note 12 as a visual profile view of the trenches. Your trench detail does not show any stone cover over the drainfield pipe as required (minimum 2" above top of pipe). The trench detail should show a relative depth to stone, depth to invert, depth to effective sidewall, depth to bottom.
5. Your proposed sewer effluent line is 1% fall to the d-box with some non-basic invert depths. I'm not sure if you are doing that to get the trenches as high in the profile as possible to satisfy our design recommendations. You can refer to our design memo (attached) stating that trenches should be as high as possible in the profile while maintaining at least 2% fall. Also, it is much easier for an installer if the depths are at a more basic number like 2', 2.5', etc for a gravity system.
6. Your design specs on the side do not include a trench bottom elevation.

Feel free to make these corrections and submit hard copies as soon as you're able. We'll review them right away to try to get an approval so the owner can pull a septic permit. Thanks

Jeff Williams
Deputy Director
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
410-313-4261
www.hchealth.org

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From: Zach Sill <zach@sillengineering.com>

Sent: Friday, March 8, 2024 11:40 AM

To: Silvast, Zackary <zsilvast@howardcountymd.gov>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>

Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>; Taylor Bielski <taylor@sillengineering.com>

Subject: Re: regarding 13071 Wainwright Road (OSDS plan -revision comments)

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

Hello Zack and Melanie,

Attached is an in-progress revised plan. I wanted to run it by both of you for a look over before we formally re-submit. We have a few in-progress OSDS plans in our office, and I would like to nail down these new requirements before we submit these. Are you ok with how we are showing the profile for the rest of the initial system trenches? Please note the additional profile given for the DB to trench I-2 and the two initial system trench details given. We will provide these trench details for all systems moving forward.

I also got the specs on the left side of the page a bit less scrunched up to help with reading.

If you don't have any immediate comments from a visual review, I'll plan to get this re-submitted at the beginning of the week.

Thank you,

Zachary Sill

Civil Drafter & Designer

Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Zach Sill <zach@sillengineering.com>

Sent: Thursday, March 7, 2024 3:04 PM

To: Silvast, Zackary <zsilvast@howardcountymd.gov>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>

Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>

Subject: Re: regarding 13071 Wainwright Road (OSDS plan -revision comments)

Hi Zack,

Thank you for the information on the updated plan standards for OSDS and PC, I think it would go a long way to have a hard detail to reference so we know what you're looking for moving forward. A checklist would also be apricated. I

appreciate you sharing that info. While I understand you have not been in Howard long, our office and more specially Paul has been for nearly 30 years. We have built up standards in our office over those years based off county guidance, regulations and past approvals. I'm not trying to argue when I question comments, but tone is difficult to get across over email. As you said there are a hundred ways to slice an orange. I understand your desire for uniformity and completely agree.

I agree these things should be a standard across the board, but when different reviewers request or don't request different things across different projects, it just muddies the water on my end and makes it seem like I'm going against a different set of rules with each reviewer. We can provide trench details moving forward and I appreciate you allowing us to slide by with just the initial system detail for this project.

Thank you,

Zachary Sill

Civil Drafter & Designer

Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Silvast, Zackary <zsilvast@howardcountymd.gov>

Sent: Thursday, March 7, 2024 2:35 PM

To: Zach Sill <zach@sillengineering.com>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>

Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>

Subject: RE: regarding 13071 Wainwright Road (OSDS plan -revision comments)

We are going to be working on providing updated plan guidance for OSDS and PC shortly. I am swamped with wet season right now so those standards won't be updated until April/May timeframe as that will be just another undertaking for me. But we are striving for uniformity, it may seem like I've been here for awhile but I'm just a shade over two years in Howard. I think a lot of people forget that, so I haven't gotten to streamline all facets of how Howard County HD functions and apply all that necessary improvement where updating may be required. We are in agreeance that the

I helped Melanie with the first response, so what I meant was that all the data is scrunched, small and clustered just in one spot. Which can't be helped really with calculations, but also calculations alone are not sufficient.

Also, the individual reviewers do not request things just for the sake of it. These things should be standard across the board. But moving forward we would want at least the initial trench cross section details. Technically, all three should

be on there and all three should be expressed in the chart. For the septic profile, all the trench lines of the initial system should be represented as it is a profile of the entire septic system.

For the sake of moving this project forward, we are letting some things go with this property. One of them being the cross section trench details required for all systems. It is essential for a pump plan/LPD. In the future, we would like to see it for all three. It's just three small graphic details that go a long way. Anyways thanks for the response. We look forward to your re-submittal with all comments addressed.

- ZS

From: Zach Sill <zach@sillengineering.com>

Sent: Thursday, March 7, 2024 2:13 PM

To: Silvast, Zackary <zsilvast@howardcountymd.gov>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>

Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>

Subject: Re: regarding 13071 Wainwright Road (OSDS plan -revision comments)

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

Hi Zack,

Melanie worded the comment as "Also with the current representation of the trench specs, everything is crunched together on your plan and currently a lot more attention to detail would be required for the installers (e.g. visual accessibility) that not every contractor possesses equally". I have no issues trying to make it more readable or taking feedback from you on how to do that, but her wording definitely lead me to believe you were asking for me to completely redo how I'm showing these calculations. Thank you for clarifying your stance on this.

Speaking of Corina, I noticed the detail there is only for the initial system. Not every system as you are requesting on my plan. I have no issue giving a detail for the initial system. I also noticed no one requested a profile to all the initial trenches like you are requesting with this plan. No one requested any of this this on my most recent OSDS plan (1734 Willow Springs) and that was a pump design. I'm trying to figure out if you're expecting trench details for every system shown on an OSDS or just the initial system moving forward so we can make it our standard. From my point of view, I now have 4 or 5 recent OSDS plans that all have varying degrees of detail that has been requested or not requested by the Health department, and I'm trying to figure out what is the standard at this point to avoid having to have these numerous back and forths on subsequent projects. Moving forward, we will provide trench details for the initial system. Thankyou for clarifying your stance.

I will address the rest of the comments and resubmit. I appreciate your explanations on the matter.

Thank you,

Zachary Sill

Civil Drafter & Designer

Erosion & Sediment Control No. RPC016242



SILL ENGINEERING GROUP, LLC
SEG LAND SURVEYING, LLC

16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Office: 443-325-5076 ext. 107 | Fax: 410-696-2022
Website: www.sillengineering.com

From: Silvast, Zackary <zsilvast@howardcountymd.gov>
Sent: Thursday, March 7, 2024 1:43 PM
To: Zach Sill <zach@sillengineering.com>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>
Subject: RE: regarding 13071 Wainwright Road (OSDS plan -revision comments)

Zach,

I think you're overanalyzing our comments & our response to your inquiries too much. It is fine to show the calculations on the side. Just about every other engineer also presents the most necessary data from those calculations with some more simplified details (for example a chart, and the trench cross-section detail which we provided already in an attachment as an example). And other engineers use these details to even cross-reference their own calculations and to make sure all the information represented is correct. Both septic contractors and inspectors alike USE these details frequently.

I spoke with our field supervisor and he said we "were NOT out of bounds" with our requests on this plan and just about every engineer that does work in Howard shows these other details. I even randomly pulled an old OSDS that I remembered Sill Engineering having worked on, and sure enough there was a trench detail there (6626 Corina Court). That was one of my first projects in Howard. This is not new, and they should be on all approved plans.

We are trying to improve these plans for installation and we want to get them to a place where septic contractors will be more willing to actually use them out in the field. Anyone should be able to pick up your plans and be able to understand everything represented. There's also a hundred ways to slice an orange & cut up an onion, and not everyone retains information the same way.

I hope you have a better understanding now that this is our 3rd back and forth. If there are any other additional questions, we can schedule a meeting. Thank you.

- ZS

From: Zach Sill <zach@sillengineering.com>

Sent: Thursday, March 7, 2024 11:04 AM

To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>

Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>

Subject: Re: regarding 13071 Wainwright Road (OSDS plan -revision comments)

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

Hi Melanie,

I will provide a schematic drawing for the initial system trench detail on the plan.

We have showed our trench specs in the way we have shown in the Septic System Trench Design Specifications since longer than I have worked here. I have dozens of recently approved OSDS plans with the exact same formatting as recently as last month, so I don't understand the comment about their formatting now. All relevant information is there for the contractor, and we have never received any complaints or concerns from an installer about our plans. Do you have an example of how you would like that information to be displayed? I can try to box the information up if you would like? Please let me know.

Thank you,

Zachary Sill

Civil Drafter & Designer

Erosion & Sediment Control No. RPC016242



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16005 Frederick Road, 2nd Floor
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Website: www.sillengineering.com

From: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Sent: Wednesday, March 6, 2024 4:45 PM
To: Zach Sill <zach@sillengineering.com>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>
Subject: RE: regarding 13071 Wainwright Road (OSDS plan -revision comments)

Good afternoon Zach,

We request these cross section details to serve as a visual guide for septic contractors/inspectors during septic installation & details are often used to cross check/reference with the trench specs provided so there is less likelihood of an error to occur while out in the field (see attached detail as an example). Also with the current representation of the trench specs, everything is crunched together on your plan and currently a lot more attention to detail would be required for the installers (e.g. visual accessibility) that not every contractor possesses equally. Good details are reassurance that the installer hasn't made an error, and it is used as a self-check to identify any typos or mistakes made. At the very least, we will need to see the cross section trench details for the initial system and highly recommend a chart to be included for easy reference of the trench specs for all system elevations. In response to comment #5 regarding the profile view, there is a label for the existing ground showing 2.3' with a trench invert difference of 2'. The current plan is also currently showing the D-box with both the Invert elevation in & out having the same elevation of 574.74 which is an error.

I hope this provides a little more clarification to your comment responses and why this information is necessary for both our review & to utilized during the install by both the installers and inspectors. If you should need further clarity or guidance, please feel free to give us a call. Thank you kindly!

Melanie Eshenbaugh

Bureau of Environmental Health

Howard County Health Dept.

8930 Stanford Blvd. Columbia, MD 21045

www.hchealth.org



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From: Zach Sill <zach@sillengineering.com>

Sent: Tuesday, March 5, 2024 2:58 PM

To: Silvast, Zackary <zsilvast@howardcountymd.gov>

Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>

Subject: Re: regarding 13071 Wainwright Road (OSDS plan -revision comments)

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

Hello Zack,

Thank you for the comments. I just had a few questions that I wanted to run by Health before I start work on these. My comments/questions are in blue below.

Comment #3 : We are missing trench cross section details for the 3 systems as these illustrations are utilized by the septic contractors for installation. Typically, we do not show graphic representation of trench cross section details on gravity feed systems. The only system being installed at this time would be the initial gravity system. Cross section information for all the systems can be found in the Septic System Trench Design Specifications chart on the left side of the page.

Comment #5 : Label both existing and proposed grade elevations on the profile view. I am confused by this comment. I label existing and proposed grade on my profile. I give the invert of I-1 in the profile, and I give a dimension from invert to existing ground on the profile. Each trench has the existing grade and invert elevation listed in the Septic System Trench Design Specifications chart on the left side of the page.

Comment #6 : Show the septic profile details for Trench 2 of the initial system. I cannot recall showing a profile to anything other than I-1 on any recent OSDS our office has done. Each trench has the existing grade and invert elevation listed in the Septic System Trench Design Specifications chart on the left side of the page. I recently received approval on another OSDS last month without this on the plan. Please confirm if this is a new regulation we need to adhere to.

Thank you,

Zachary Sill

Civil Drafter & Designer

Erosion & Sediment Control No. RPC016242



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Website: www.sillengineering.com

From: Silvast, Zackary <zsilvast@howardcountymd.gov>

Sent: Thursday, February 29, 2024 2:17 PM

To: Zach Sill <zach@sillengineering.com>

Cc: Paul Sill <paul@sillengineering.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>; Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>; Oliver Gray <grayoliver@gmail.com>

Subject: regarding 13071 Wainwright Road (OSDS plan -revision comments)

To Whom It May Concern,

Please find our revision comment sheet for the 1st OSDS plan submittal attached above. Thank you.

- ZS

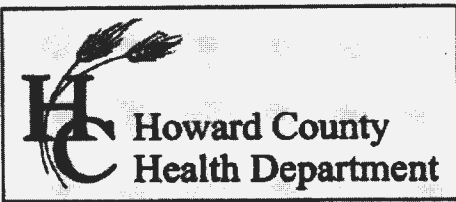
Zack Silvast (LEHS)

Plan Review Supervisor - Water & Sewer Division

410-313-1777

Environmental Health Bureau

Howard County Health Department



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

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

RECEIPT DATE: 12/14/22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 572723

APPROVAL DATE: 1/24/23 **PERMIT: TANK (Repair)**
REPLACEMENT A _____

PROPERTY ADDRESS: 13071 Wainright Road

SUBDIVISION: _____ LOT: _____ TAX ID: _____

CONTRACTOR: Fogle's Septic Clean Inc. EMAIL: kim@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670

PROPERTY OWNER: Oliver Gray EMAIL: _____

OWNER ADDRESS: 13071 Wainright Road, Highland, MD 20777 PHONE: _____

SEPTIC TANK SIZE (GALLONS): _____ TANK MANUFACTURER: _____

PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: _____

TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: _____
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: _____
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
LOCATION:	INSTALL REPLACEMENT SEPTIC TANK PER PLAN	
NOTES:		

ISSUED BY: _____ ISSUE DATE: _____ EXPIRATION DATE: _____

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRAIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E _____
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE

See

Attached

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES	2	
TOTAL LENGTH	20	
ABSORPTION AREA	_____	
DISTRIBUTION BOX LEVEL	yos	
DISTRIBUTION BOX BAFFLE	yos	
DISTRIBUTION BOX PORT	yos	

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yos
MANUFACTURER	Baylor
CAPACITY	1500 GAL
SEAM LOC	yes
TANK LID DEPTH	2-1/2'
BAFFLES	4' from & back
BAFFLE FILTER	_____
MANHOLE LOC	front & back
6" PORT LOC	NA
WATERTIGHT TEST	_____
SLOTTED	yes
DATE ON LID	12/16/22

PUMP/SEPTIC TANK LEVEL

MANUFACTURER	_____
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

PRE-CONSTRUCTION:

1/23/23 - Site inspection, Fogles onsite laid out plans for new sewer line w/ a c/o near the house also painted out where the new tank will be placed, contractor will expose sewer line to tank and the outlet line to the dbox, new dbox w/ c/o (obs. port) will be installed, Fogles pump truck onsite to empty the existing septic tank during this pre-con meeting. Contractor stated there may be a need to expose/inspect the trenches once the system is located. (P)

INSTALLATION:

1/24/23 - Builder onsite. At least 4' of stone at trenches. Mud filled 1 pipe coming out of old tank, so trenches were unexc. 1st cut & core out of house & Fern Co S-4 was installed into Terra cotta since steel head couldn't be used. T₁ was originally 30' & T₂ was originally 40', builder changed it so both trenches were at 35'. Talked w/ homeowner, said they had recently bought the property, & previous owner paid for work to be done at later date, homeowner also installing sunroom & Clarksville construction pulling building permit for addition (P)

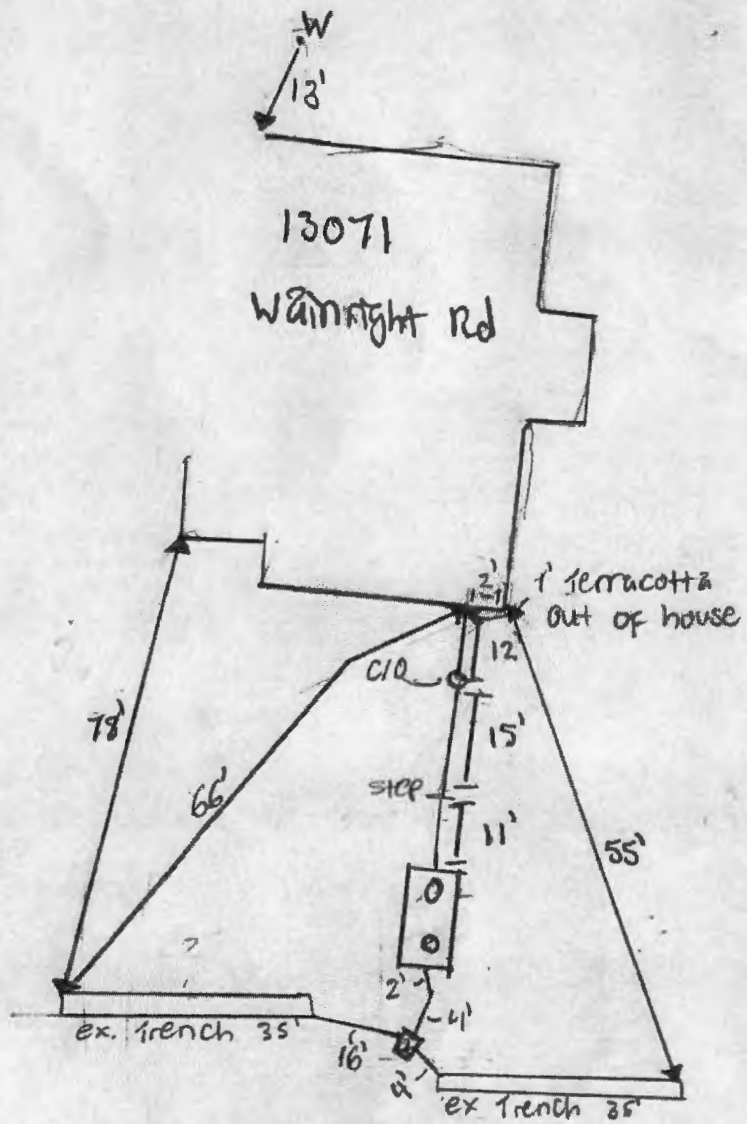
FINAL INSPECTOR

Shepsara Page

DATE OF APPROVAL

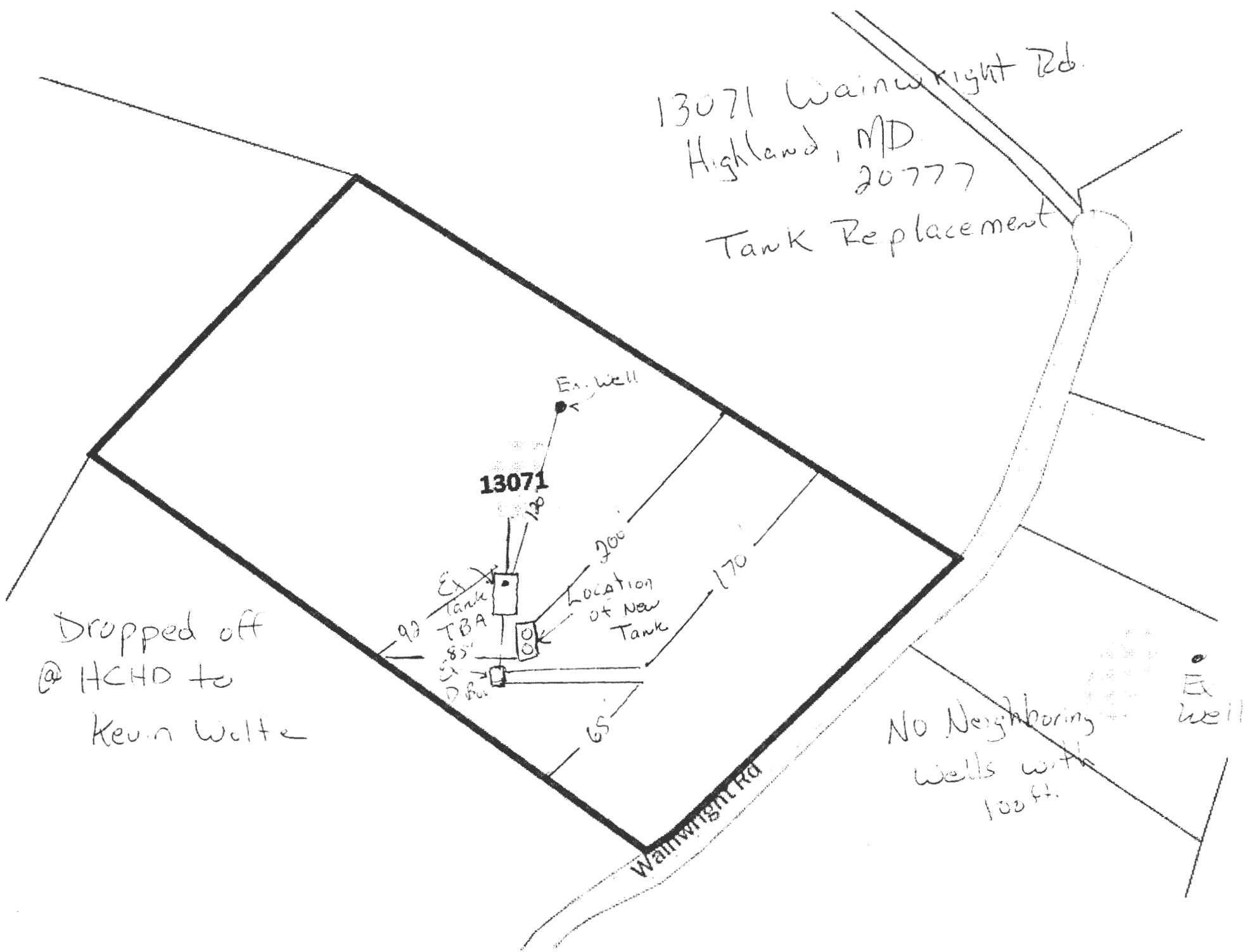
1/29/2023

NOT TO SCALE



13071 Wainwright Rd.
Highland, MD.
20777

Tank Replacement



Dropped off
@ HCHO to
Kevin Wolfe

No Neighboring
wells with
100 ft.

Ex well



HOWARD COUNTY HEALTH DEPARTMENT

72723

DATE 2/13/22

Received From

PHONE #

To SeaSeptic Cleaners 410-274-5000

For

Tank Replacement

CASH

CHECK

NO.

78072

one hundred and eighty two

Dollars

\$ 180.00

Received By

[Signature]

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

February 28th, 2024

TO: Sill Engineering
RE: regarding 13071 Wainwright Road (OSDS Plan revision comments)

Revision Comments

1. The tree shown on the plan located between the initial system and the 2nd replacement system cannot be saved.
 - a. It is located in the middle of the SDA and is way too close to the proposed “initial” septic system.
 - b. A note should be added to the plot plan that the tree will be removed.
2. Previously mentioned “If you are doing bends in the actual drainfield pipes, you will have to call out those degree bends on the OSDS plan.”
 - a. There are two options.
 1. Bends are not ideal if not necessary. We believe with the removal of the tree, the initial septic system can be straightened out and still held on contour eliminating the bends.
 2. Specifically label all degree bends with the proper fittings that will be required for the septic contractor.
3. We are missing trench cross section details for the 3 systems as these illustrations are utilized by the septic contractors for installation.
4. Need to adjust wording of note 15: the existing drainfields are going to be abandoned, and existing septic tank is to remain.
5. Label both the existing & proposed grade elevations on the profile view.
6. Show the septic profile details for Trench 2 of the initial system.

Thank you for your time and consideration. We look forward to your re-submittal.

Zack Silvast

Zack Silvast (LEHS)

Plan Review Supervisor - Water & Sewer Division
410-313-1777

Environmental Health Bureau
Howard County Health Department

Wainwright (13071)

- Septic System undersized for its current 4 BDR existence
 - proposed addition will add a 5th bedroom
- We have missing information about existing system depth of trench, is it meeting 4' separation from WT & impermeables?
- Existing well → jet well, they do not want to abandon.
- Not all of the property has been explored, they just want to upgrade & propose one system.
 - engineer questioning specs
 - existing system needs field work to verify
 - Area does not appear to support an initial plus two