



**Howard County
Health Department**

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

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

RECEIPT DATE: 5/25/21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 59526

APPROVAL DATE: 05/26/2021 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15613 LINDEN GROVE LANE, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 3 TAX ID: 04-601882

CONTRACTOR: CHAVIS ENTERPRISES & SEPTIC SERVICES, LLC EMAIL: ryan@chavisenterprisesllc.com

CONTRACTOR ADDRESS: 23 EAST ELLENDALE, BEL AIR, MD 21014 PHONE: (410)838-3007

PROPERTY OWNER: TOLL MID-ATLANTIC LP COMPANY, INC EMAIL: Sriley1@tollbrothers.com

OWNER ADDRESS: 250 GIBRALTER ROAD, HORSHAM, PA 19044 PHONE: (410)381-3271

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Back River Pre-Cast, LLC

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

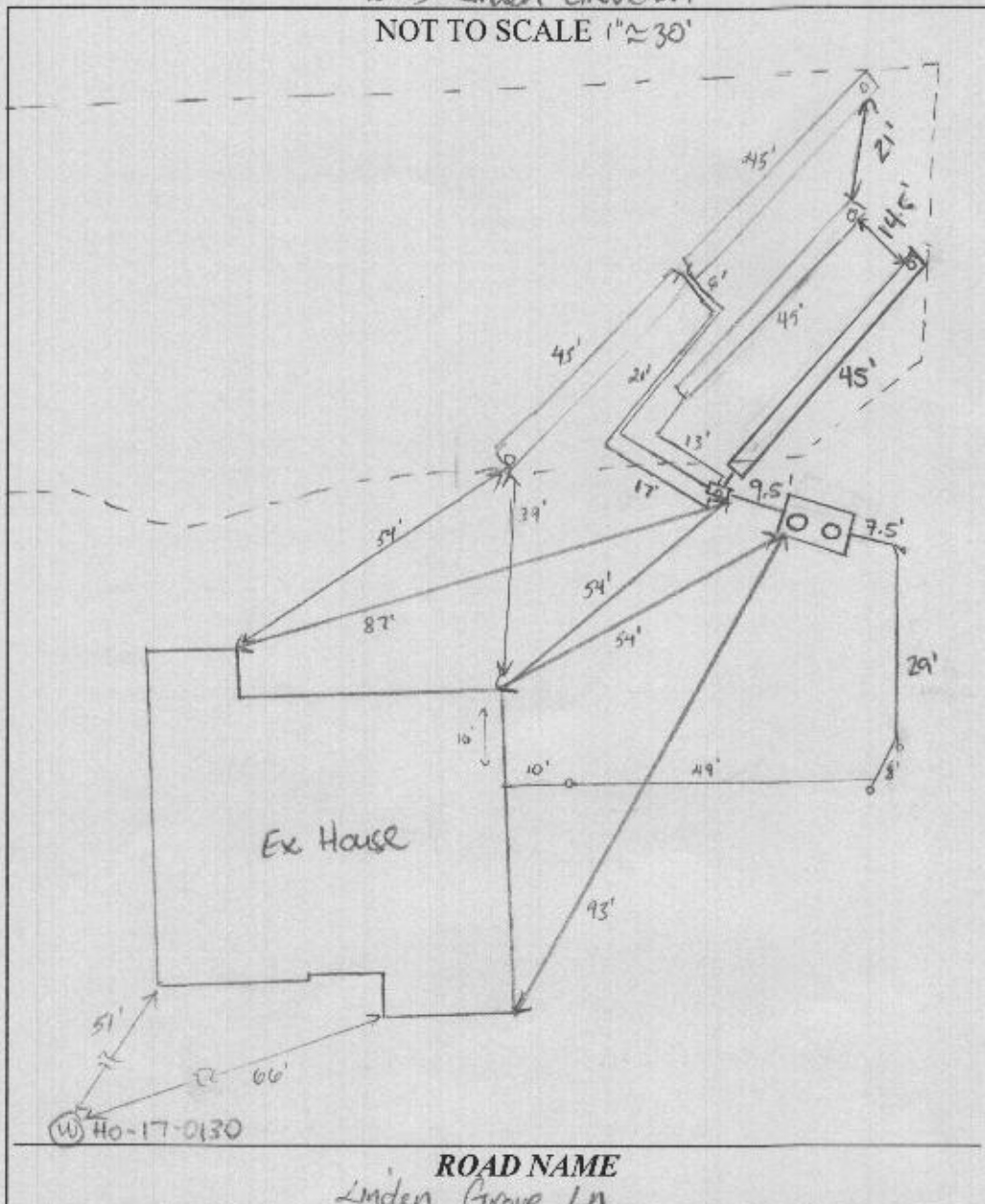
TRENCHES:	LINEAR FEET REQUIRED: <u>169</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	ASSURE THAT THERE IS AT LEAST 5 FEET FROM TRENCH WALL TO SEPTIC TANK EXCAVATION INSTALL AT LEAST 2 CLEANOUTS IN SHC.	

ISSUED BY: R BRICKER ISSUE DATE: 05/25/2021 EXPIRATION DATE: 5-25-22

- 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 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: 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.**

15613 Linden Grove Ln
NOT TO SCALE 1" = 30'



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES	4	
TOTAL LENGTH	180'	
ABSORPTION AREA	540 sq ft + sidewalk	
DISTRIBUTION BOX LEVEL	yes	
DISTRIBUTION BOX Baffle	yes	
DISTRIBUTION BOX PORT	yes	

SEPTIC TANK DATA	
SEPTIC TANK LEVEL	4
MANUFACTURER	BACKWELL
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2'
BAFFLES	inlet + outlet
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	05/24/2021
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

6/22/21 4x43' trenches were staked out on contour. (SR)

INSTALLATION:

7/15/21 SL partially installed. Re-insp for SHC. (SD)

07/16/2021 TANK AND UPPER TRENCH SET, D BOX SET. (P)

07/19/2021 Second trench and top of long trench complete. Re-insp for lower trench. (SR) 07/20/2021 OK TO BACKFILL. (P)

FINAL INSPECTOR

Samuel Calabry

DATE OF APPROVAL

07/20/2021

Ryan Ketner

From: Michael Boyce
Sent: Wednesday, February 24, 2021 9:03 AM
To: Nathan Brandenburg; Ryan Ketner
Subject: FW: 15613 Linden Grove Lane_OSDS Design Plan

Looks like we need to revise the location of last trench as much as possible and we are good!

Michael Boyce
Regional Director - ESE, Survey

ESE Consultants, Inc.
7164 Columbia Gateway Drive, Suite 230, Columbia, MD 21046
P: 410-381-3058 C: 410-365-4175
mboyce@eseconsultants.com www.eseconsultants.com

EMAIL FROM
JEFF WILLIAMS WITH
POSSIBLE ALTERNATIVES

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Wednesday, February 24, 2021 9:02 AM
To: Michael Boyce <MBOYCE@eseconsultants.com>
Cc: Bricker, Robert <RBricker@howardcountymd.gov>
Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

Mike:

I will grant a waiver to allow the drywell in its current location given the following justifications:

1. It may be possible to slightly shift the trench locations for system #3 to get a little further away from the drywell.
2. Switching to a lined raingarden with outfall may be more disruptive to the neighboring system with the outfall pipe on the ground surface directed right toward the tank and SDA
3. There does not appear to be another solution beyond those two choices

Please note that this does not mean that any future setback waiver requests will be granted given the unique circumstances for individual properties. Thanks
Jeff

From: Michael Boyce <MBOYCE@eseconsultants.com>
Sent: Monday, February 22, 2021 10:42 AM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Cc: Ryan Ketner <rketner@eseconsultants.com>
Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

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

Jeff

Attached is the letter you requested.

Please let us know if this is sufficient, as the permit package was approved for mylar for this lot.

Ryan Ketner

From: Michael Boyce
Sent: Wednesday, February 24, 2021 10:00 AM
To: Williams, Jeffrey
Cc: Bricker, Robert; Ryan Ketner
Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan
Attachments: 4683 Septic Trenches Lot 3.pdf; 4683 Septic Trenches Lot 3 (Revised) .pdf

Jeff,

Please see attached, looks like we can slide it over roughly 3 feet. We will make this revision and re-submit the plan to you early next week.

Michael Boyce
Regional Director - ESE, Survey

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mboyce@eseconsultants.com www.eseconsultants.com

EMAIL FROM
MIKE BOYCE SHOWING
CHANGE THAT WAS
MADE

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Wednesday, February 24, 2021 9:02 AM
To: Michael Boyce <MBOYCE@eseconsultants.com>
Cc: Bricker, Robert <RBricker@howardcountymd.gov>
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Sent: Monday, February 22, 2021 10:42 AM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Cc: Ryan Ketner <rketner@eseconsultants.com>
Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

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Ryan Ketner

From: Bricker, Robert <RBricker@howardcountymd.gov>
Sent: Tuesday, January 19, 2021 1:17 PM
To: Michael Boyce; Ryan Ketner
Subject: Re: 15613 Linden Grove Lane_OSDS Design Plan

COMMENTS
FROM R. BRICKER AND
EMAIL WITH MIKE BOYCE

Hello Michael,
If it can be piped to another location, I can see that would be your preferred alternative. From a regulatory perspective, I am not aware of an available remedy.
Robert Bricker, REHS/RS, L.E.H.S.

From: Michael Boyce <MBOYCE@eseconsultants.com>
Sent: Tuesday, January 19, 2021 11:36 AM
To: Bricker, Robert <RBricker@howardcountymd.gov>; Ryan Ketner <rketner@eseconsultants.com>
Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

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Robert,

I was hopeful that since the Drywell mentioned is near the end of second replacement that we could allow this location. I completely understand the purpose of the setback regulation, however my thought process was there is a very low risk in this situation.

That drywell is managing 81cf of water (606 gal)

One option would be to pipe it over and put it with the dw4 and dw3.

I also agree that the lined micro-bio/ rain garden is the next alternative, however the cost is triple that of a drywell.

Michael Boyce
Regional Director - ESE, Survey

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P: 410-381-3058 C: 410-365-4175
mboyce@eseconsultants.com www.eseconsultants.com

From: Bricker, Robert <RBricker@howardcountymd.gov>
Sent: Tuesday, January 19, 2021 11:19 AM
To: Ryan Ketner <rketner@eseconsultants.com>
Cc: Michael Boyce <MBOYCE@eseconsultants.com>
Subject: 15613 Linden Grove Lane_OSDS Design Plan

EXTERNAL EMAIL : Use caution with links and attachments
Good morning Ryan,

Michael Boyce

Regional Director – ESE, Survey

ESE Consultants, Inc.

7164 Columbia Gateway Drive, Suite 230, Columbia, MD 21046

P: 410-381-3058 C: 410-365-4175

mboyce@eseconsultants.com www.eseconsultants.com

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

Sent: Thursday, February 18, 2021 2:55 PM

To: Michael Boyce <MBOYCE@eseconsultants.com>

Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

With the infiltrative devices, we are also thinking about competing liquids dispersing in the subsurface soil. The same reason why we have minimum trench separation distances. It is along the end of the trench and not the long side, which is a positive, and being lateral is also a positive, but we want to be on solid ground with any precedent being set.

From: Michael Boyce <MBOYCE@eseconsultants.com>

Sent: Thursday, February 18, 2021 2:43 PM

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

Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

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I understand that, I will work up something, My thought was that the drainage pattern takes it parallel to the SRA, so in theory, it should never affect the SRA, and the SRA shouldn't reach the dry well.

Michael Boyce

Regional Director – ESE, Survey

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P: 410-381-3058 C: 410-365-4175

mboyce@eseconsultants.com www.eseconsultants.com

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

Sent: Thursday, February 18, 2021 2:41 PM

To: Michael Boyce <MBOYCE@eseconsultants.com>

Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

Hi Mike. We are hesitant to reduce the setback for an infiltrative device, even though it is near the 3rd system and lateral to the contour. Can you give me a written request explaining the possible SWM alternatives and any problems or hardships associated with them to see if we can justify the reduced setback? We're reluctant to set a precedent without something to back it up. Thanks

Jeff

I have reviewed the submitted (12/23/20) OSDS Design Plan for Linden Grove Lot 3 (15613 Linden Grove Lane). I also reviewed the Plot Plan submitted with the OSDS design Plan. I found that neither plan can be approved at this time.

The location of DW-2, an M-5 facility, is within 25 feet of the sewage disposal area on Lot 3. Admittedly this is a challenging situation. Maybe there is a possibility for siting a lined microbioretention facility. An M-6 facility with impermeable liner can be located 50-100 feet from a well. Still, the discharge location would have to be 25 feet or more from the septic tank and sewage disposal area on Lot 3 and Lots 2 or 4.

Robert Bricker, REHS/RS, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.2691 (Office)
rbricker@howardcountymd.gov



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ESE CONSULTANTS

ENGINEERING · PLANNING · SURVEYING · ENVIRONMENTAL

Howard County Health Department

Well & Septic Program

Bureau of Environmental Health

Re: Lot 3 Linden Grove Subdivision

15613 Linden Grove Lane

Jeffrey Williams

This letter is in response to your request for additional information regarding the request to allow placement of a SWM ESD drywell closer to the SRA than 25 ft as required. Below I have summarized why, in this case, I believe the setback requirement should be waived:

1. The proposed dry well location is situated at the end of the third replacement trenches, therefore the chances of interference with the SRA system is drastically reduced.
2. The topography of the area proposed is such that the flow from the drywell location is lateral to the SRA and should not reach the SRA, nor should any seepage from SRA reach the drywell in the event that the third replacement system is ever installed.
3. The only available alternative location for the drywell is upgradient from the down spout that feeds the drywell, it is not practical to get the roof drain to gravity flow to the alternative location.
4. Alternative methods for SWM are not practical
 - a. Non-roof top disconnect- the yard grades are steeper than allowed for this method.
 - b. Lined Rain Garden/ bio retentions- This method is not practical for the following reasons
 - i. This method will reduce an already limited use of back yard for homeowner. The Homeowner has been very focused on septic and drywell locations from the time of contract. Installing a rain garden will become a source of contention with this sensitive buyer.
 - ii. There is a higher likelihood of the system to fail due to lack of maintenance by homeowner, seeing as it requires under drain, the potential for blockage and overflow is greater.
 - iii. We would be having concentrated discharge of this system onto the next lots SRA.
 - iv. These systems are 4x the cost of a drywell (\$3,000 vs \$12,000-\$15,000)
5. As you can see from the above reasons, the most cost effective, and practical method of satisfying the requirement for SWM is to place dry well at the location proposed. Please feel free to call me to discuss further if needed.

Sincerely

Michael Boyce PLS

Regional Director - ESE, Survey

ESE Consultants, Inc.

7164 Columbia Gateway Drive, Suite 230, Columbia, MD 21046P: 410-381-3058 C: 410-365-4175

mboyce@eseconsultants.com www.eseconsultants.com

From: Michael Boyce <MBOYCE@eseconsultants.com>
Sent: Tuesday, February 16, 2021 8:12 AM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

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

See attached

Thanks

Michael Boyce
Regional Director - ESE, Survey

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mboyce@eseconsultants.com www.eseconsultants.com

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Tuesday, February 16, 2021 8:05 AM
To: Michael Boyce <MBOYCE@eseconsultants.com>
Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

Hi Mike. Just seeing this now. I will be in meetings all day today, but maybe we can talk tomorrow. Can you please email me a copy of the proposed plan to review today?
Jeff

From: Michael Boyce <MBOYCE@eseconsultants.com>
Sent: Friday, February 12, 2021 3:19 PM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: FW: 15613 Linden Grove Lane_OSDS Design Plan

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Jeff,

Please see this email chain and give me a call to discuss.

Michael Boyce
Regional Director - ESE, Survey

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C: 410-365-4175
mboyce@eseconsultants.com www.eseconsultants.com

From: Bricker, Robert <RBricker@howardcountymd.gov>
Sent: Friday, February 12, 2021 3:16 PM
To: Michael Boyce <MBOYCE@eseconsultants.com>; Ryan Ketner <rketner@eseconsultants.com>
Subject: Re: 15613 Linden Grove Lane_OSDS Design Plan

Michael,
You need to contact Jeff and/or Mike Davis. I do not have authority to waive these types of requirements.
Robert Bricker, REHS/RS, L.E.H.S.

From: Michael Boyce <MBOYCE@eseconsultants.com>
Sent: Friday, February 12, 2021 2:07 PM
To: Bricker, Robert <RBricker@howardcountymd.gov>; Ryan Ketner <rketner@eseconsultants.com>
Subject: RE: 15613 Linden Grove Lane_OSDS Design Plan

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Robert,

We are reviewing options for lot 3 per your comment.
Although we are within the 25' set back, the natural flow of the ground is parallel to the septic, bypassing it.
There is no alternative location for this drywell. There isn't really a good location for alternative design options either and they are much more expensive.

I think this should work as is, the flow should be towards the 556 contour, and never make it to the septic.

Thanks

Michael Boyce
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