

**HOWARD COUNTY  
HEALTH DEPARTMENT**

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 Rizvi Property  
PROPERTY ADDRESS 14945 Old Frederick Rd. Woodbine 21797  
STREET TOWN ZIP  
TAX ACCOUNT # 348885 TAX MAP 0008 GRID 0009 PARCEL 0073 LOT NO. 5 PROPOSED LOT SIZE (ACRES) 2.990  
ZONING CATEGORY RC-DEO TIER IV

**PROPERTY OWNER(S)**

Askari & Syma Rizvi  
DAYTIME PHONE (240) 475 - 2271 CELL (240) 475 - 2271 EMAIL Askariraza79@gmail.com  
MAILING ADDRESS 12614 Fawn Run Ct. Ellicott City 21042  
STREET CITY, STATE ZIP

**APPLICANT**

Frank White RELATIONSHIP TO OWNER: Civil Engineer  
DAYTIME PHONE (413) 316-0803 CELL (410) 316-7853 EMAIL frank.white@kci.com  
MAILING ADDRESS 936 Ridgebrook Rd. Sparks 21152  
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 4 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.

SIGNATURE OF APPLICANT

DATE

## Silvast, Zackary

---

**From:** Silvast, Zackary  
**Sent:** Monday, January 31, 2022 11:42 AM  
**To:** frank.white@kci.com  
**Cc:** Askariza79@gmail.com; Williams, Jeffrey  
**Subject:** OSDS comments for 14945 Old Frederick Road (EH-PLANS-22-0011)  
**Attachments:** 14945 updated specs.pdf; 14945 perc cert 1.pdf; 14945 perc cert 2.pdf

Hello Mr. White,

I have attached some documents for you to use in your revisions for the OSDS for this property. A revised perc certification will also have to be submitted and approved prior to the revisions to the OSDS plan.

### **COMMENTS:**

- 1. Due to the proposal of the new well location outside of the previously approved well box as shown on the approved perc cert from 12/29/2020, we are requiring an updated perc cert be submitted to this office for our approval. (see attached perc cert)**
- 2. The health county officer approval block should be removed from this OSDS plan, but should be on the future perc cert plan.**
- 3. A surveyor stamp & signature is required on the OSDS plan and the future perc cert plan.**
- 4. All neighboring wells & septic systems should be shown within 100' of the property boundary lines on the OSDS plan, in this instance properties "14949" & "14911."**
- 5. New specifications have been provided. Please size the septic systems accordingly, both initial and replacements. (see attachments)**
- 6. The hung sewer line running from the house to septic tank is shown at 1.01% fall, normally we look for 2%. We would require that the slope of the gravity feed from the house to tank be adjusted accordingly. (referencing "septic system profile")**
- 7. Remove the perc results diagram, it is not necessary.**

With those adjustments and requirements we should be moving in a positive direction. Thanks for your time and consideration.

- Zack S.

### **Zack Silvast (LEHS)**

*Supervisor - Water & Sewer Division*

Environmental Health Bureau

Howard County Health Department

## Williams, Jeffrey

---

**From:** Rik Stouffer <rik@nttsurveyors.com>  
**Sent:** Thursday, March 11, 2021 11:52 AM  
**To:** Williams, Jeffrey  
**Subject:** RE: 14949 Old Frederick Road, Bates Property

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

Jeff,  
Please add the note, I will make a note in the file.

Thanks for your help,

Rik Stouffer  
Professional Land Surveyor 21260  
NTT Associates, Inc.  
16205 Old Frederick Road  
Mt. Airy, Maryland 21771  
Phone: 410-442-2031  
Fax: 410-442-1315  
**Website:** <http://www.nttsurveyors.com>

**From:** Williams, Jeffrey [mailto:jewilliams@howardcountymd.gov]  
**Sent:** Thursday, March 11, 2021 10:55 AM  
**To:** Rik Stouffer  
**Subject:** RE: 14949 Old Frederick Road, Bates Property

Hello Rik.

I'm reviewing the Bates property plat F-21-045 and we need a note on there identical to the perc cert note 8 "Lot 1 (lot 5) is not approved for development by the Health Department until a well is drilled and certified. Any future development on lot 2 (lot4) may require a new well drilled and certified."

I can write that note on if you wish  
Jeff

**From:** Rik Stouffer <rik@nttsurveyors.com>  
**Sent:** Tuesday, January 5, 2021 2:27 PM  
**To:** Williams, Jeffrey <jewilliams@howardcountymd.gov>  
**Subject:** RE: 14949 Old Frederick Road, Bates Property

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Jeff,  
I just spoke to the person filling in while I was out,  
He said your office called and told us it was ready for pickup.  
We will have someone there soon.

**To:** Rik Stouffer  
**Subject:** RE: 14949 Old Frederick Road, Bates Property

Its also possible that someone from your office told us to mail it to you?

**From:** Williams, Jeffrey  
**Sent:** Tuesday, January 5, 2021 1:16 PM  
**To:** 'Rik Stouffer' <[rik@nttsurveyors.com](mailto:rik@nttsurveyors.com)>  
**Subject:** RE: 14949 Old Frederick Road, Bates Property

We signed it on 12/29. We should have notified you that a copy was ready to be picked up. We can check on that

**From:** Rik Stouffer <[rik@nttsurveyors.com](mailto:rik@nttsurveyors.com)>  
**Sent:** Tuesday, January 5, 2021 9:19 AM  
**To:** Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)>  
**Subject:** RE: 14949 Old Frederick Road, Bates Property

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Jeff,  
I have been on vacation since Xmas, today is my first day back.  
I was wondering what the status of this property was.

I don't see any emails since 12/16

Thanks,

Rik Stouffer  
Professional Land Surveyor 21260  
NTT Associates, Inc.  
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Mt. Airy, Maryland 21771  
Phone: 410-442-2031  
Fax: 410-442-1315  
**Website:** <http://www.nttsurveyors.com>

[you know the sender.]

Jeff,  
I was wondering if you had an update on this Perc Cert,

Thanks,

Rik Stouffer  
Professional Land Surveyor 21260  
NTT Associates, Inc.  
16205 Old Frederick Road  
Mt. Airy, Maryland 21771  
Phone: 410-442-2031  
Fax: 410-442-1315  
**Website:** <http://www.nttsurveyors.com>

**From:** Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]  
**Sent:** Tuesday, December 01, 2020 1:30 PM  
**To:** Rik Stouffer  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** RE: 14949 Old Frederick Road, Bates Property

This looks fine except you need to show a well area on lot 1 and replacement well area on lot 2. That should be either 3 discrete well sites or a 1500 sq ft well box. If discrete sites, they should be at least 50' separated from each other. Show a 100' radius well setback line around the well sites or box. Other than that, the only other thing I see is that the soil line and 10' contour line look the same, making it difficult to see what the soil line is supposed to be.

Jeff

**From:** Rik Stouffer <[rik@nttsurveyors.com](mailto:rik@nttsurveyors.com)>  
**Sent:** Monday, November 30, 2020 3:13 PM  
**To:** Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)>  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** 14949 Old Frederick Road, Bates Property

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Jeff,

Can you take a quick look at this before I drop off the originals. This is not a normal Perc Cert and we are in a time crunch to submit the record plat so any time we can save would be helpful.

Feel free to call or email if you have any questions or comments.

Thanks,

Rik Stouffer  
Professional Land Surveyor 21260  
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16205 Old Frederick Road  
Mt. Airy, Maryland 21771  
Phone: 410-442-2031  
Fax: 410-442-1315  
**Website:** <http://www.nttsurveyors.com>

**From:** Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]  
**Sent:** Friday, October 30, 2020 2:28 PM  
**To:** Rik Stouffer  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** RE: askhealth question

Hi Rik. Check my Wednesday email. The two attachments were the files for lots 1 and 3. I will confirm, but we may require the well to be moved out of the house as part of a plat approval. I'll let you know.  
Jeff

**From:** Rik Stouffer <[rik@nttsurveyors.com](mailto:rik@nttsurveyors.com)>  
**Sent:** Thursday, October 29, 2020 3:16 PM  
**To:** Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)>  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** RE: askhealth question

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Jeff,  
That is good news,  
Attached are some pics of the well on lot 2. It is in the house and it is not a pit well.  
Lot 1 never had a well,

As soon as you discuss this with the director can you recap exactly what will be required.  
I will need copies of the additional records you found, is that something you can email?

Thanks again for all of your help,

Rik Stouffer  
Professional Land Surveyor 21260  
NTT Associates, Inc.  
16205 Old Frederick Road  
Mt. Airy, Maryland 21771  
Phone: 410-442-2031  
Fax: 410-442-1315

**Website:** <http://www.nttsurveyors.com>

**From:** Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]  
**Sent:** Wednesday, October 28, 2020 1:29 PM  
**To:** Rik Stouffer  
**Subject:** RE: askhealth question

Hi Rik. I found the record for lot 1 with the test notes. I also found the record for lot 3 on the other side. I think with all the records combined, we may be able to move forward without testing, even though there were only 2 test holes on lot 2. We will need a revised perc cert showing the new lot lines and proposed well locations. I do not see a well report for lot 1. We would typically require the well drilled prior to signing a plat. The well for lot 2 also looks like it's attached to the house. Is that a pit well? I can discuss it with the director, but we might require a well upgrade before signing a plat.

Thanks

Jeff

**From:** Rik Stouffer <[rik@nttsurveyors.com](mailto:rik@nttsurveyors.com)>  
**Sent:** Wednesday, October 28, 2020 9:57 AM  
**To:** Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)>  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** RE: askhealth question

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Mr. Williams,

I was wondering if you had a chance to review this file? I can't move forward without knowing what lot(s) you are requiring a new Perc. Certificate on.

Also, is there an abbreviated process or do we need to do the usual procedures of Perc. Site Plan, stake the proposed holes, have them dug and tested and prepare a Perc. Certification Plan?

Our deadline to submit the plat is December 8<sup>th</sup> which doesn't leave us much time, I am going to try to get an extension.

Any help you could provide would be greatly appreciated,

Thanks,

Rik Stouffer  
Professional Land Surveyor 21260  
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16205 Old Frederick Road  
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Phone: 410-442-2031  
Fax: 410-442-1315  
**Website:** <http://www.nttsurveyors.com>

**From:** Rik Stouffer  
**Sent:** Friday, October 23, 2020 12:56 PM  
**To:** Williams, Jeffrey  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** RE: askhealth question

Mr. Williams,

Please let me know your findings as soon as possible so I know the extent of the work needed. We submitted an O's only plat request under the assumption we wouldn't need to do new perc plans. Our deadline to submit is December 8, 2020.

I will need to contact my client with the scope of work you are requiring to determine the how he would like to proceed.

Thanks,

Rik Stouffer  
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Fax: 410-442-1315  
**Website:** <http://www.nttsurveyors.com>

**From:** Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]  
**Sent:** Friday, October 23, 2020 11:31 AM  
**To:** Rik Stouffer  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** RE: askhealth question

Hi Rik. We do need a new PC to match the plat we sign when we change lot lines between two buildable lots like this, but the bigger issue is whether we can still approve the SDAs as shown on the original perc cert/plat. I only see one perc test hole establishing the area on lot 2 and that property file does not contain the perc test results for the 4 holes establishing the area on lot 1. I will look in our office for those records.

We signed the PC and plat in 1989 using that data, but that is not a guarantee that it will be sufficient to sign a plat in 2020. It looks like we would need to do additional testing to approve an area on lot 2 now and I will have to see if we find the notes for lot 1. If not, or if they are not sufficient to approve under current regulations, we may need to retest on that lot as well. Thanks  
Jeff

**From:** Rik Stouffer <[rik@nttsurveyors.com](mailto:rik@nttsurveyors.com)>  
**Sent:** Friday, October 23, 2020 10:36 AM  
**To:** Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)>  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** FW: askhealth question

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Mr. Williams,  
I was wondering if you had a chance to review the information I sent to you earlier this week. It is my hope that the Perc Certification currently on file with your office (and attached) is sufficient for this project to move forward especially since we are not changing the existing house or moving the lot line any closer to the septic area as the current existing property line.

Any consideration would be greatly appreciated,

Thanks,

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16205 Old Frederick Road  
Mt. Airy, Maryland 21771  
Phone: 410-442-2031  
Fax: 410-442-1315  
**Website:** <http://www.nttsurveyors.com>

**From:** Rik Stouffer  
**Sent:** Tuesday, October 20, 2020 1:14 PM  
**To:** Williams, Jeffrey  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** RE: askhealth question

Mr. Williams,

Attached are copies of the old plat and the new proposed plat. The new plat shows the existing field located well on Lot 4 and the perc holes and SDA's as shown on the original plat. We are not proposing any changes to the existing septic areas as shown on the original plat and the proposed new property line does not violate the 10' setback from septic area to property line, actually the property line closest to the existing septic area (line L5) is the same as the current property line.

We are not proposing any new structures or changes to existing structures on old Lot 2 new Lot 4.

Lot 5 is vacant and no well was observed, we assumed they may need a new perc certification done when/if they build a new house on old Lot 1 new Lot 5.

Also attached are the records we received from your website, one of the documents appears to be a Perc Cert.

Feel free to call or email me if you have any questions,

Thanks,

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**From:** Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]  
**Sent:** Tuesday, October 20, 2020 11:58 AM  
**To:** Rik Stouffer  
**Subject:** askhealth question

Hi Rik. We need an approved perc cert plan that matches the plat submission, so you should submit to us a revised perc cert plan showing the proposed lot line change. That perc cert plan will need to show the SDAs and the perc test locations along with proposed well locations and any locations of wells already drilled. We can review the proposal at that time. Do you have the perc and SDA info for those lots?

Jeff Williams

Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

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NTT Associates, Inc.  
16205 Old Frederick Road  
Mt. Airy, Maryland 21771

December 4, 2020

Howard County Health Department  
Attn: Jeffrey Williams  
Re: Percolation Certification Plan Review  
Plan Submittal for 14949 Old Frederick Road, Bates Property

Dear Mr. Williams:

Please find enclosed 5 copies of the Percolation Certification Plan for the 14949 Old Frederick Road, Bates Property, for your review.

Feel free to call me if you have any questions,

Sincerely,

Richard B. Stouffer  
Professional Land Surveyor 21260  
NTT Associates, Inc.  
rik@nttsurveyors.com  
Phone: 410-442-2031  
Fax: 410-442-1315

## Williams, Jeffrey

---

**From:** Williams, Jeffrey  
**Sent:** Wednesday, October 28, 2020 1:29 PM  
**To:** Rik Stouffer  
**Subject:** RE: askhealth question  
**Attachments:** WS\_OldFrederickRoad\_14949\_lot2\_-1988\_TaxID\_04-309367.pdf; A42795\_04-348893\_14955\_OLD\_FREDERICK\_ROAD.pdf

Hi Rik. I found the record for lot 1 with the test notes. I also found the record for lot 3 on the other side. I think with all the records combined, we may be able to move forward without testing, even though there were only 2 test holes on lot 2. We will need a revised perc cert showing the new lot lines and proposed well locations. I do not see a well report for lot 1. We would typically require the well drilled prior to signing a plat. The well for lot 2 also looks like it's attached to the house. Is that a pit well? I can discuss it with the director, but we might require a well upgrade before signing a plat.

Thanks

Jeff

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**Sent:** Wednesday, October 28, 2020 9:57 AM  
**To:** Williams, Jeffrey <jewilliams@howardcountymd.gov>  
**Cc:** wabates55@gmail.com  
**Subject:** RE: askhealth question

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Any help you could provide would be greatly appreciated,

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**From:** Rik Stouffer  
**Sent:** Tuesday, October 20, 2020 1:14 PM  
**To:** Williams, Jeffrey  
**Cc:** [wabates55@gmail.com](mailto:wabates55@gmail.com)  
**Subject:** RE: askhealth question

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**From:** Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]  
**Sent:** Tuesday, October 20, 2020 11:58 AM  
**To:** Rik Stouffer  
**Subject:** askhealth question

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locations along with proposed well locations and any locations of wells already drilled. We can review the proposal at that time. Do you have the perc and SDA info for those lots?

Jeff Williams

Program Supervisor, Well & Septic Program

Bureau of Environmental Health

Howard County Health Dept.

410-313-4261

[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

**CONFIDENTIALITY NOTICE**

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## Williams, Jeffrey

---

**From:** William Bates <[wabates55@gmail.com](mailto:wabates55@gmail.com)>  
**Sent:** Friday, November 6, 2020 5:28 AM  
**To:** Williams, Jeffrey  
**Subject:** Re: Bates property, 14949 Old Frederick Road

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

Got it. I will contact Rik to discuss & share the information you have provided. Thanks, Bill

On Thu, Nov 5, 2020 at 10:43 AM Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)> wrote:

Hello Mr. Bates. Thanks for the email. I wanted to just mention that I received it. I understand your point about the lot 1 well. If Rik wants to submit the perc cert with those notes attached, we can review it and see if we're ok with it. While there is an advantage to not having a drilled well just sitting around, we also have to weigh that against signing a plat certifying a buildable lot that has not yet proven that a source of water exists on the property. A note on the perc cert and possibly the plat could potentially alleviate that concern. We can at least keep the ball rolling here with the perc cert submission and our review. Thanks

Jeff

**From:** William Bates <[wabates55@gmail.com](mailto:wabates55@gmail.com)>  
**Sent:** Thursday, November 5, 2020 9:09 AM  
**To:** Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)>  
**Subject:** Re: Bates property, 14949 Old Frederick Road

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

Good morning, Mr. Williams -

Thank you for your prompt reply to my email. It helped me understand things a lot better. Here are my thoughts:

1. I am not 100% sure what a pit well is, but the current well was drilled with a regular well drilling rig when the house was built. The well head rises at least 8 inches above the floor of the area that it is in, off of the basement, and is sheltered by a cinder block foundation surrounding it, topped by a concrete slab. The way it is set up, I don't see how surface water could leak into the well head, unless the entire basement flooded to a level of more than 8 inches deep, which is very unlikely because the house sits on the highest spot on the property. It has never happened in the 58 years since the house was built. However, I do understand the regulation and its purpose as you explained it. You mentioned that it is very likely that you might allow the current well to remain for purposes of the change. **That would**

## Silvast, Zackary

---

**From:** Silvast, Zackary  
**Sent:** Tuesday, November 29, 2022 4:42 PM  
**To:** 'Frank White'  
**Cc:** Williams, Jeffrey; 'Jacob Leimbach'  
**Subject:** regarding 14945 Old Frederick Road PC & OSDS plans (BP# - B22001367)

Hello Frank,

I apologize for the delay on our end. I have sent the PC up for final signature.

I do have revision comments for the OSDS plan.

1. **The building permit (B22001367) submitted in April, shows floor plans for a 5 bedroom house with an unfinished basement.**
  - a. **The septic system design on this OSDS plan is for a four bedroom house so it is not currently adequate. (should at least be a 750 GPD maybe even a 900 GPD design)**
2. **Comment #1 beings me to a larger request which is to not take contour line "630" so literal on the trench layout.**
  - a. **I believe the first two trenches of the initial septic system should span straighter and across the top of the SDA. (still slightly angled as to match the other contours)**
3. **Another example of adjusting trench layout, straighten out the bottom two trenches of the 2<sup>nd</sup> replacement system and have them run across the very bottom of the SDA.**
4. **The trenches for 1<sup>st</sup> replacement system should be linear and parallel with each other.**
  - a. **The trenches A & B are 30' apart initially and 15' apart at the end. (too much)**
5. **The septic tank should ideally not encroach the SDA, there is no need for it on this lot.**
  - a. **I think the tank orientation goes against the drainfield orientation. (tank should be angled or perpendicular)**
6. **There should not be two 45 degree bends so close to each other in the septic line from the house to the septic tank.**
  - a. **You could come straight out of the house and put in one 45 degree bend to the tank where applicable.**
7. **No part of a trench should be above the septic tank in a gravity system.**
  - a. **Referencing the awkward septic layout of the initial system.**

We look forward to your re-submittal. Thank you.

- ZS

### **Zack Silvast (LEHS)**

*Plan Review Supervisor - Water & Sewer Division*

*4010-313-1777*

Environmental Health Bureau  
Howard County Health Department



# HOWARD COUNTY HEALTH DEPARTMENT

72715

DATE  
12/5/22

P5

Received From

KCI

PHONE #

410-310-7800

RENSIAL-OSDS

CASH

CHECK

NO.

eleven

00/100

Dollars

\$ 11 00

Received By

*[Signature]*



ISO 9001:2015 CERTIFIED

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

936 Ridgebrook Road • Sparks, MD 21152 • Phone 410-316-7800 • Fax 410-316-7817

Date: December 5, 2022

To: Howard County  
Bureau of Environmental Health  
8930 Stanford Blvd,  
Columbia, Maryland 21045

Re: Rizvi Property – Old Frederick Rd.  
OSDS Plan

KCI J.O. No.: 271803754.112

Attention:

- We are submitting
- We are forwarding

- Herewith
- We are returning

- Under separate cover
- We request

Hand Delivered

No.	Description
4	On-Site Sewage Disposal System Plans

Remarks:

- In accordance with your request
- For your review
- For processing
- Plans reviewed and accepted
- Plans reviewed and accepted as noted
- For revision by you

- For your use
- Please call when ready
- Please return to this office
- Approval requested
- Confer. requested at your convenience

For further information, please contact the writer at this office.

Very truly yours,  
KCI TECHNOLOGIES, INC.

Frank White  
Associate / Project Manager  
Land Development Practice

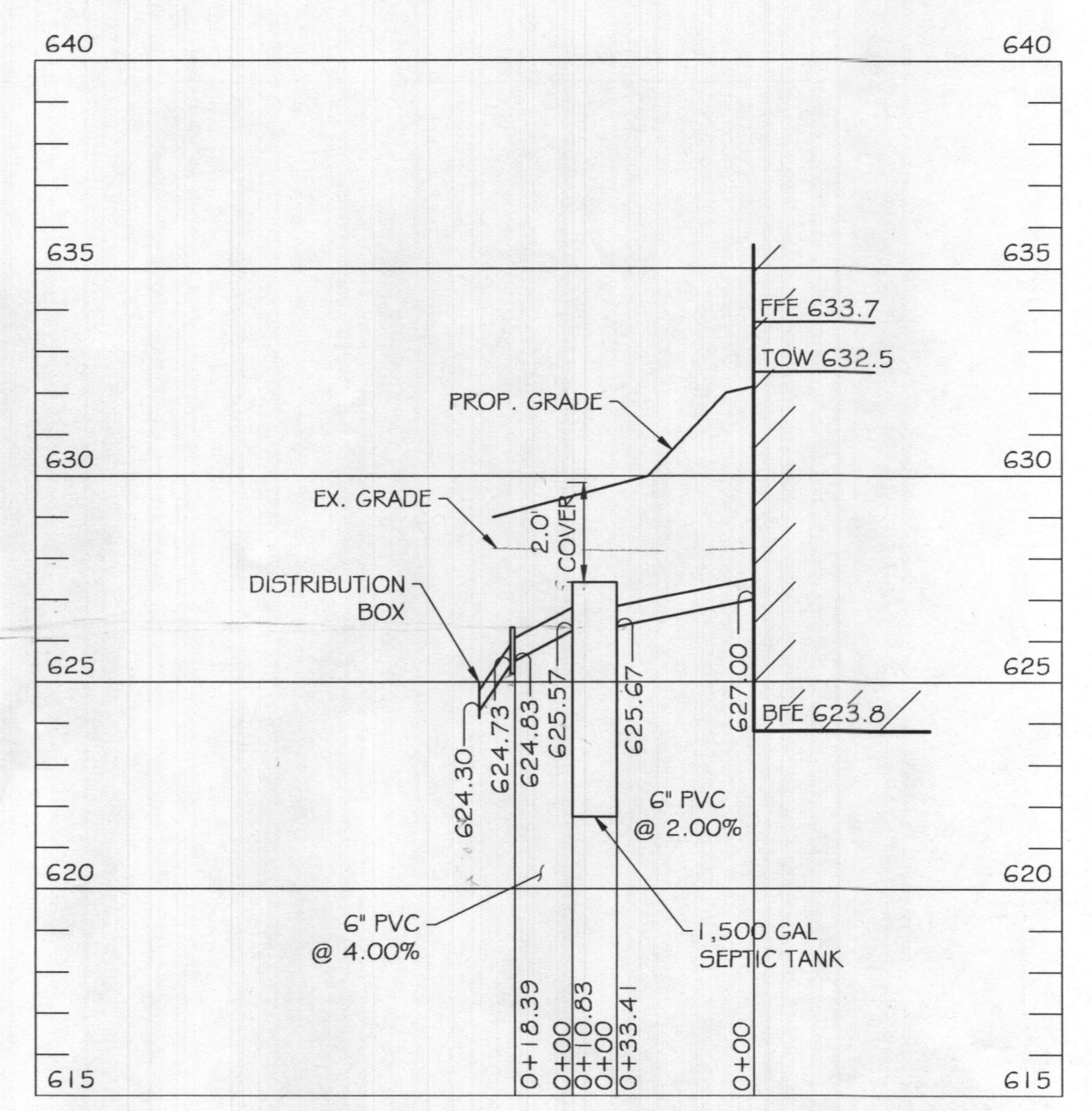
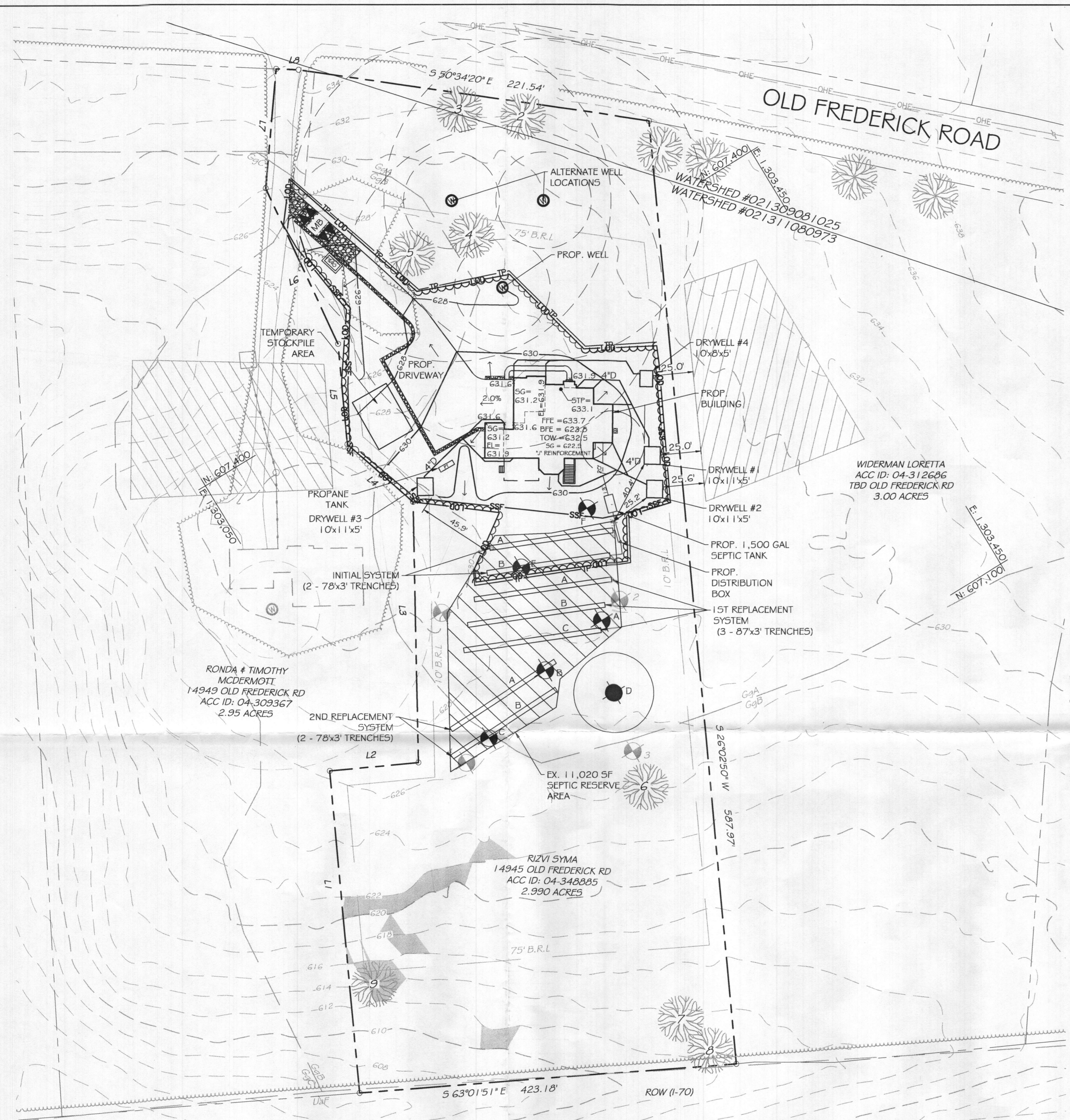
cc:  
Enclosures  
Files

Employee Owned Since 1988

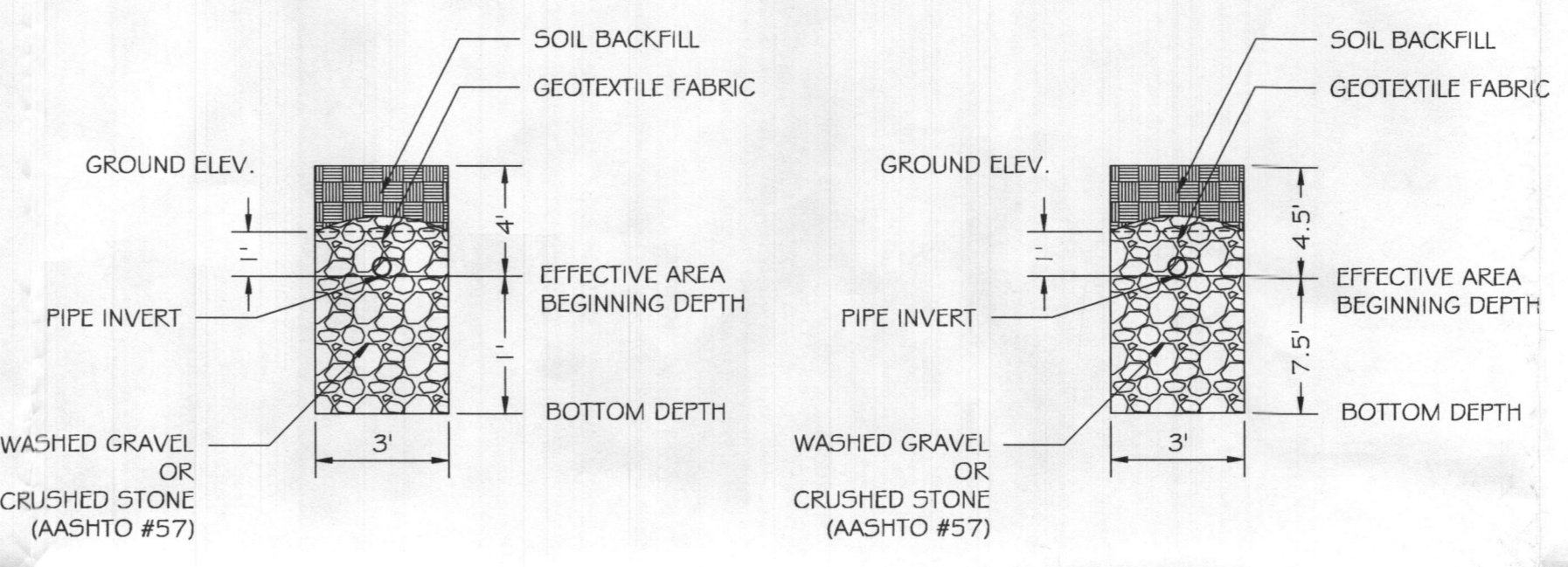
4<sup>th</sup> PUC

New d-box elev

- new invert depth 4' or less
- change depth or trench details
- all elev. in profile are off



**EX. SEPTIC SYSTEM PROFILE**  
SCALE: H. 1" = 4'  
V. 1" = 4'



**1ST REPLACEMENT TRENCH DETAIL** N.T.S.  
**2ND REPLACEMENT TRENCH DETAIL** N.T.S.

TRENCH LENGTH AND SPACING CALCULATIONS  
TRENCH DESIGN (5 BDRM X 150 GPD/BDRM = 600 GPD)

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750 GPD / 0.8 GPD/SF (APP. RATE) = 938 SF  
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 5' - 8'  
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938 SF / 3' WIDTH = 313 LF x 0.83 = 260 LF MIN. TRENCH  
12" MIN. SPACING BETWEEN TRENCH EDGES

**2ND REPLACEMENT SYSTEM**  
750 GPD / 0.8 GPD/SF (APP. RATE) = 938 SF  
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4.5' - 7.5'  
938 SF / 3' WIDTH = 313 LF x 0.50 = 156 LF MIN. TRENCH  
12" MIN. SPACING BETWEEN TRENCH EDGES

2 - 78' LONG TRENCHES FOR INITIAL SYSTEM  
3 - 87' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM  
2 - 78' LONG TRENCHES FOR 2ND REPLACEMENT SYSTEM

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN EXISTING SYSTEM LOCATION HAVE BEEN OBTAINED FROM THE HEALTH DEPARTMENT AND THE PROPERTY OWNER.
- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE ARE SHALL NOT BE NECESSARY.
- TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS (ONE-FOOT INTERVALS ARE REQUIRED FOR MOUND SYSTEMS AND SYSTEMS WITH PIPE DEPTH LESS THAN TWO FEET) AND HAS BEEN FIELD VERIFIED.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- A PROFESSIONAL SURVEYOR OR ENGINEER MUST MARK THE PROPERTY LINE WHEN THE TRENCHES ARE BEING INSTALLED IN AREAS WHERE THE PROPERTY LINE SETBACK HAS BEEN REDUCED.

PERC RESULTS (10/01/1998)

TEST #	TIME FOR 1" DROP (MINUTES)
1	4
2	8
3	20
4	10
AVG.	10.5

PERC RESULTS (6/15/2022)

TEST #	DEPTH (FT)	TIME FOR 1ST 1" DROP (MINUTES)	TIME FOR 2ND 1" DROP (MINUTES)
A	5	3	5
B	5.5	5	11
C	6	8	11
D	FAILED	FAILED	FAILED
E	6	10	15
F	5	11	16

PROPERTY BOUNDARY LINE TABLE

LINE	BEARING	DISTANCE
L1	N 26°02'56" E	200.48'
L2	S 63°57'04" E	55.73'
L3	N 30°12'56" E	161.98'
L4	N 17°18'48" W	54.62'
L5	N 26°02'56" E	62.49'
L6	N 06°19'11" E	106.56'
L7	N 36°24'52" E	73.94'
L8	S 56°22'55" E	14.02'

APPROXIMATE ELEVATIONS

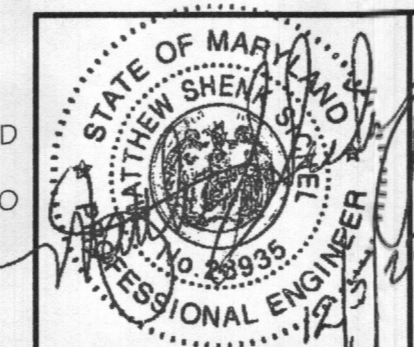
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RELATIVE DEPTHS

	PIPE INVERT BELOW GROUND	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A&B	5.0'	5.0'	8.0'
1ST REPLACEMENT TRENCH A,B&C	4.0'	4.0'	5.0'
2ND REPLACEMENT TRENCH A&B	4.5'	4.5'	7.5'

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREIN IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF. LICENSE NO. 28935 EXPIRATION DATE: 1/15/2023



**KCI TECHNOLOGIES**  
ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS  
936 RIDGEBROOK ROAD  
SPARKS, MARYLAND 21152  
TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

NO.	DATE	REVISIONS DESCRIPTION	BY	DATE
				12/05/2022

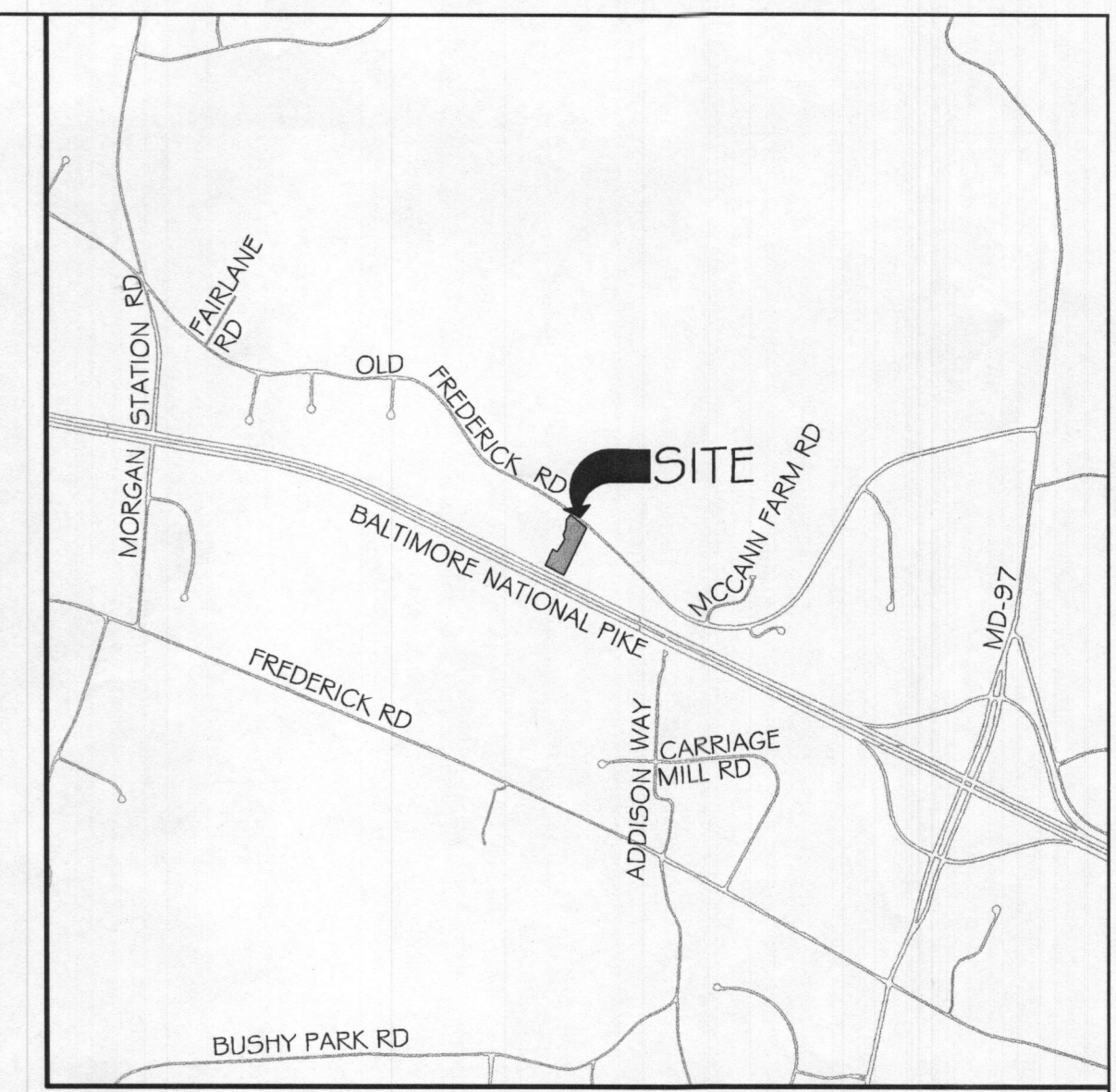
**LOT 5, RIZVI PROPERTY**  
**ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**  
14945 OLD FREDERICK ROAD  
WOODBINE, MD 21797  
TAX#: 348885, SUB: 1001

OWNER:  
ASKARI & SYMA RIZVI  
12614 FAWN RUN CT.  
ELLCOTT CITY, MD 21042  
(240) 475-3884

DEVELOPER:  
KEYSTONE CUSTOM HOMES  
GREG REINSMITH  
227 GRANITE RUN DR, SUITE 100,  
LANCASTER, PA 17601  
(717) 464-9060 EXT. 1108

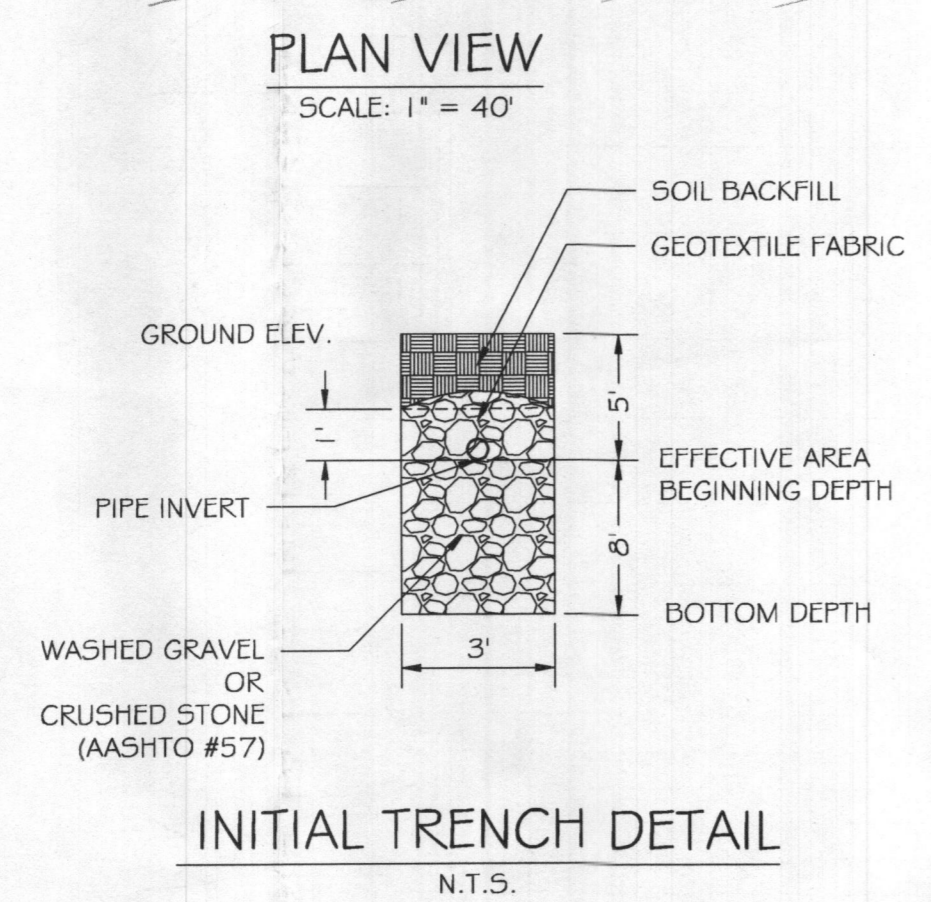
DESIGNER:  
KCI TECHNOLOGIES INC.  
FRANK WHITE  
936 RIDGEBROOK RD,  
SPARKS, MD 21152  
(410) 316-0803

DRAWING NO.  
SHEET 1 OF 1  
KCI JOB NUMBER  
271803754.112



**VICINITY MAP**  
SCALE: 1" = 2000'

- LEGEND**
- 759' - EXISTING MINOR CONTOUR (2' INTERVAL)
  - 760' - EXISTING MAJOR CONTOUR (10' INTERVAL)
  - --- ADJACENT PROPERTY LINE
  - --- EXISTING PROPERTY BOUNDARY
  - --- EXISTING ROAD / EDGE OF PAVING
  - --- EXISTING ROAD CENTERLINE
  - --- PROPOSED MINOR CONTOUR (2' INTERVAL)
  - --- PROPOSED MAJOR CONTOUR (10' INTERVAL)
  - --- EXISTING BUILDING
  - --- PROPOSED BUILDING
  - --- PROPOSED SPOT ELEVATION
  - --- LIMIT OF DISTURBANCE
  - --- PROPOSED SILT FENCE
  - --- SOIL DELINEATION LINE
  - --- EXISTING PERCOLATION TEST HOLE



## Silvast, Zackary

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**From:** Silvast, Zackary  
**Sent:** Thursday, December 8, 2022 4:35 PM  
**To:** Frank White  
**Cc:** Jacob Leimbach; Williams, Jeffrey  
**Subject:** regarding OSDS plan for Rizvi property (14945 Old Frederick Rd)

Good Afternoon Frank,

Upon review of the most recent submittal, I did find some mistakes that I did not catch with my initial comment review. We are willing to make the changes directly on these plans for you. But you will need to send those corrected numbers via e-mail to us. See the below concerns. I starred the two that will require numbers to be adjusted.

1. **The septic system profile numbers appear to be off by a foot. We have ground at 629.57' elevation then 2' of cover so we'd be at 627.57' but the pipe leaving the tank is at 625.57'. \*\*\***
  - a. **This has forced the distribution box to be deeper than it needs to be. (can only be 4' deep max, regardless)**
  - b. **This has also forced the trench pipe inverts below ground to be too deep.**
  - c. **We will need all new numbers for the elevation profile. \*\*\***
2. **The other thing we would change is to make sure that no pipe inverts go deeper than 4'. That is a maximum depth. Currently, the initial system & the 2<sup>nd</sup> replacement system has proposed pipe inverts that are deeper than 4'. \*\*\***
3. **There is one error with the trench design which is also easily fixable (5 bedrooms X 150 GPD) should be 750 GPD not 600 GPD. (this I have already fixed on all plans)**

SO with all this being said, we will await your e-mail providing us the corrected numbers. Then we (HD) will make red line changes on your behalf. Thank you.

- ZS

### **Zack Silvast (LEHS)**

*Plan Review Supervisor - Water & Sewer Division*

*410-313-1777*

Environmental Health Bureau

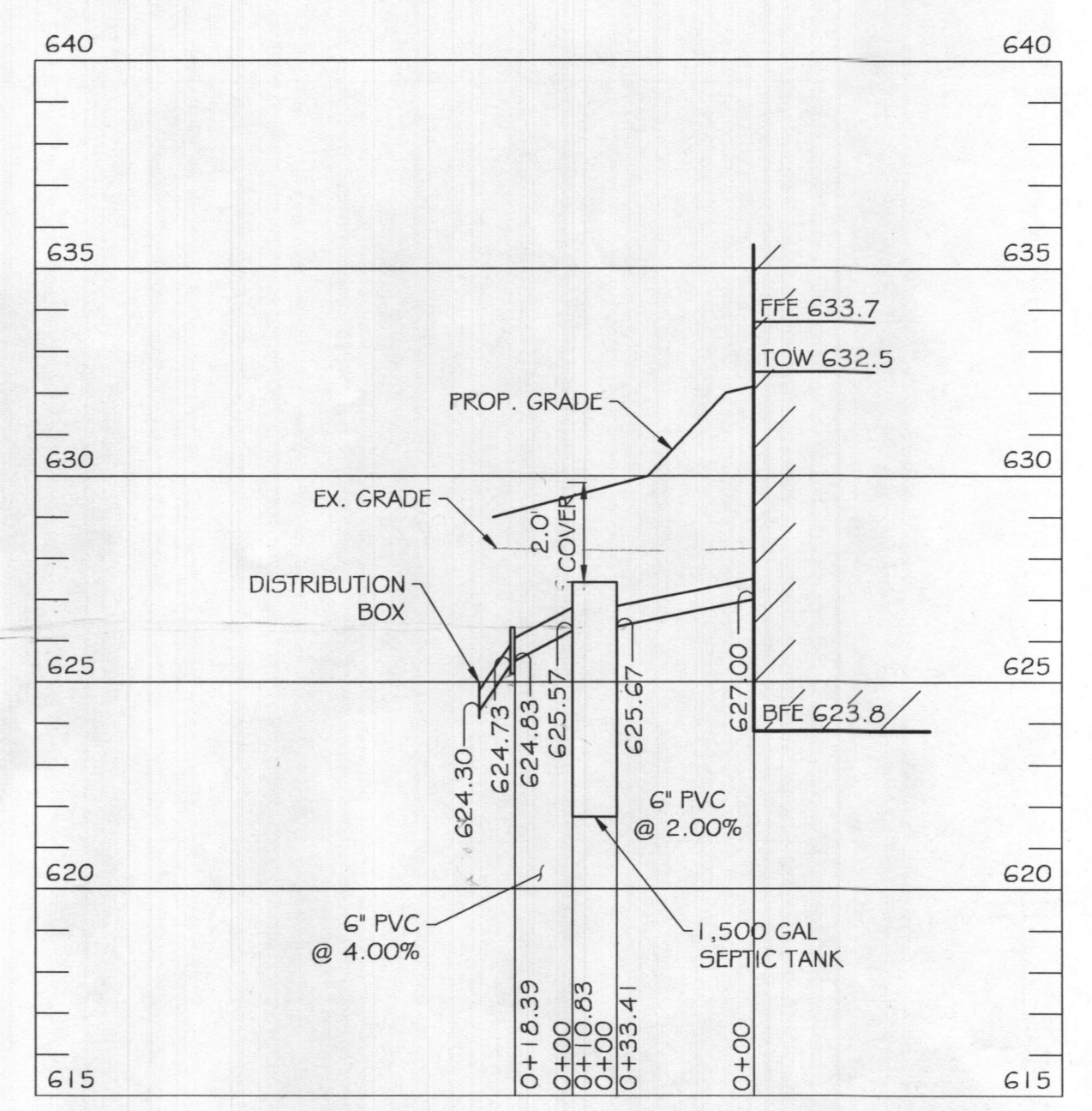
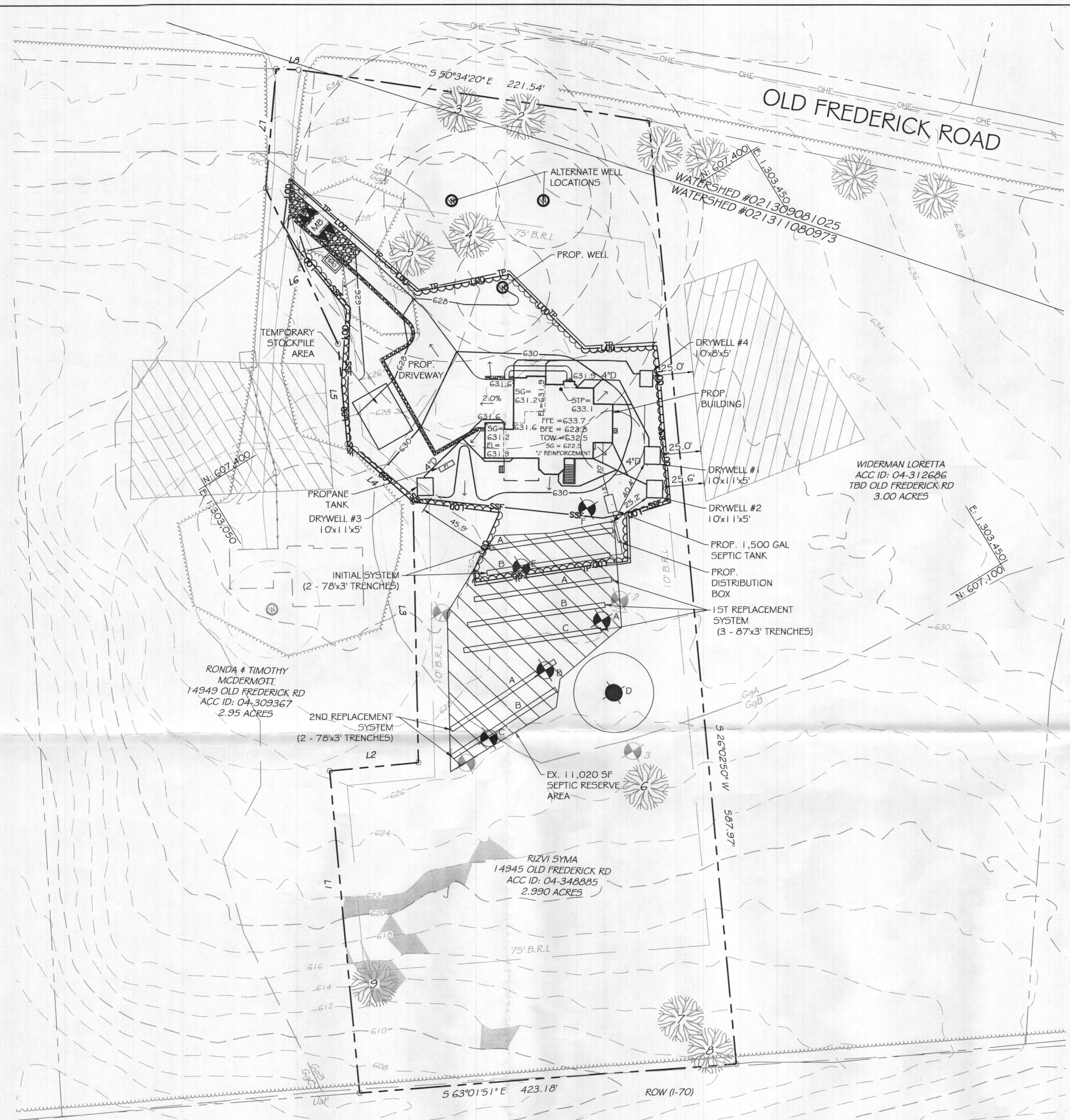
Howard County Health Department

14945 Old Frederick Rd

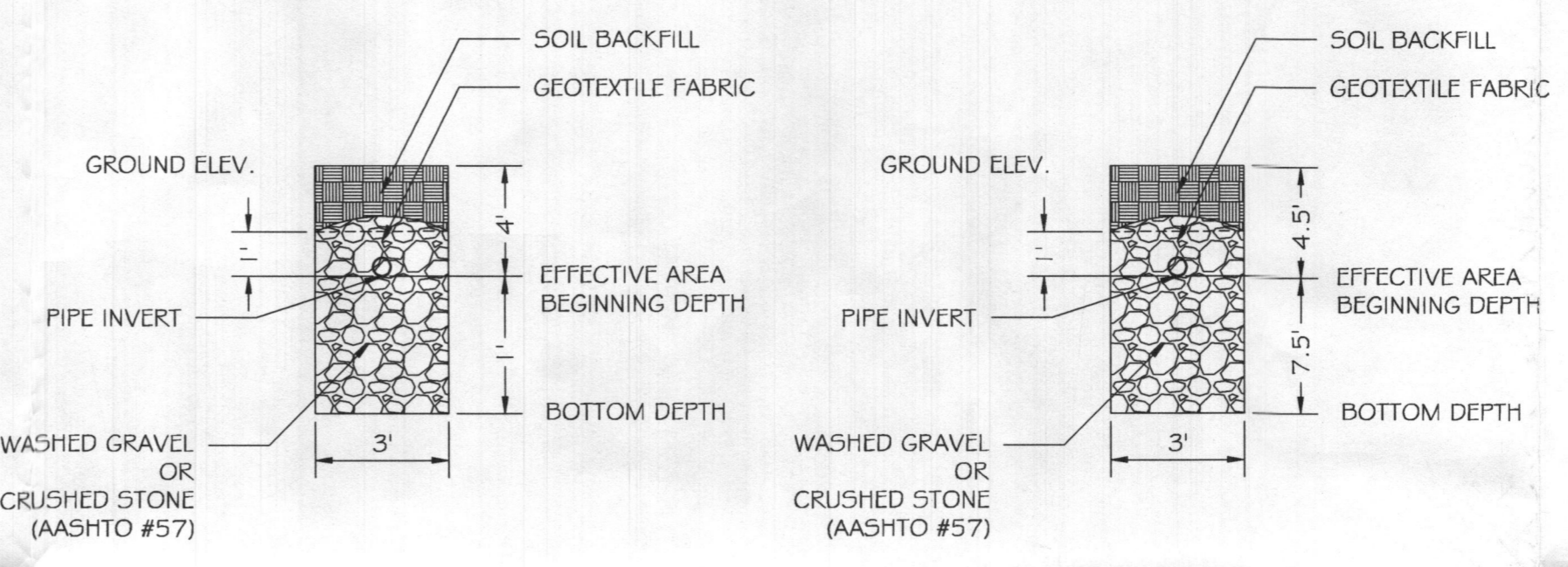
End to End  
initial system 10" - 12"

Need more on contour

maybe shoot 1' contours and  
end elevations  
on trenches



**EX. SEPTIC SYSTEM PROFILE**  
SCALE: H. 1" = 4'  
V. 1" = 4'



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**2ND REPLACEMENT TRENCH DETAIL** N.T.S.

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TRENCH DESIGN (5 BDRM X 150 GPD/BDRM = 600 GPD)

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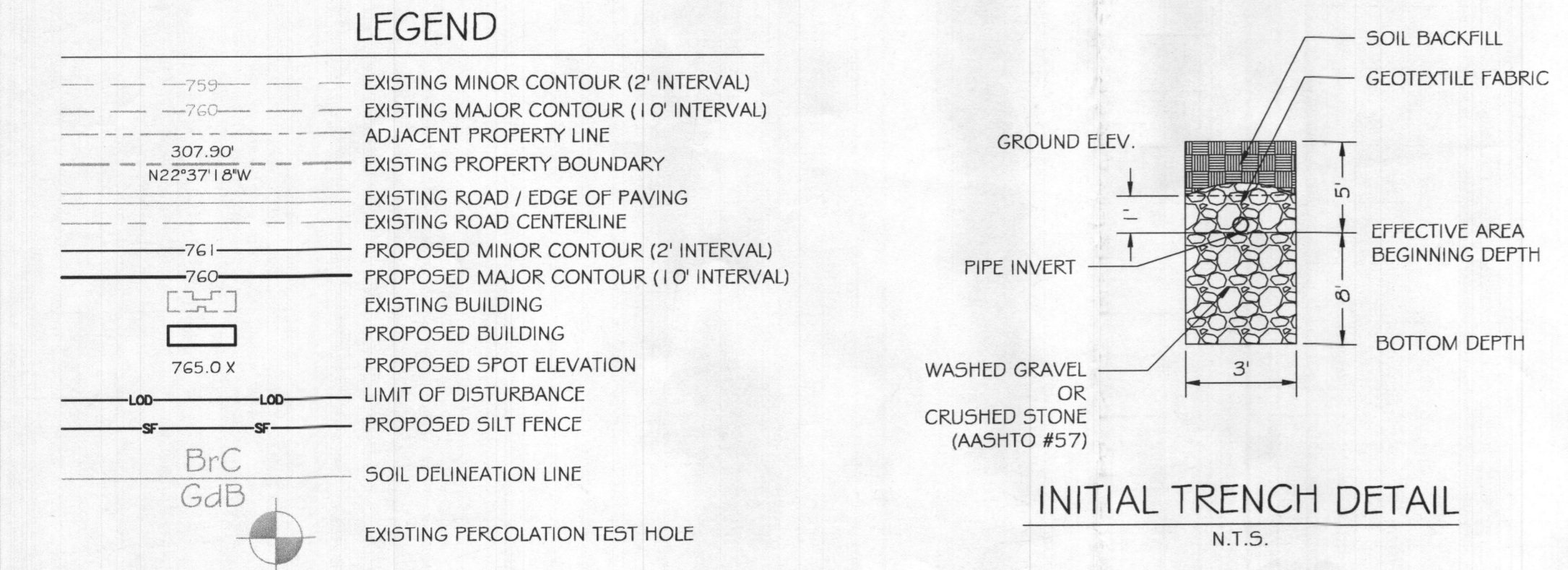
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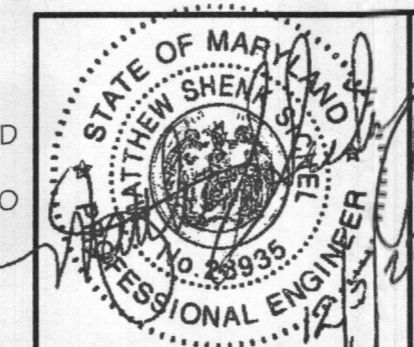
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREIN IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF. LICENSE NO. 28935 EXPIRATION DATE: 1/15/2023



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CONSTRUCTION MANAGERS  
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NO.	DATE	REVISIONS DESCRIPTION	BY	DATE
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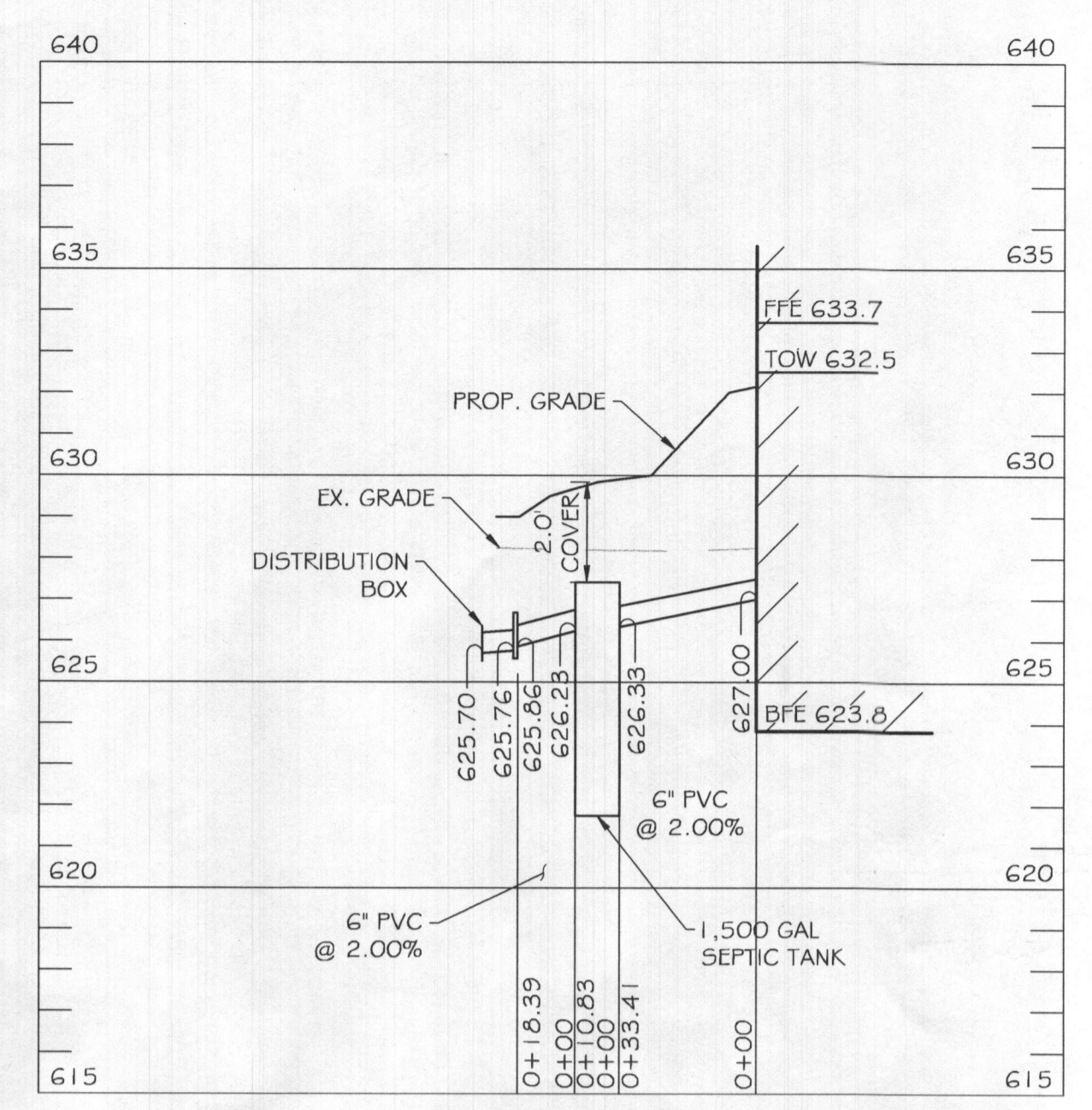
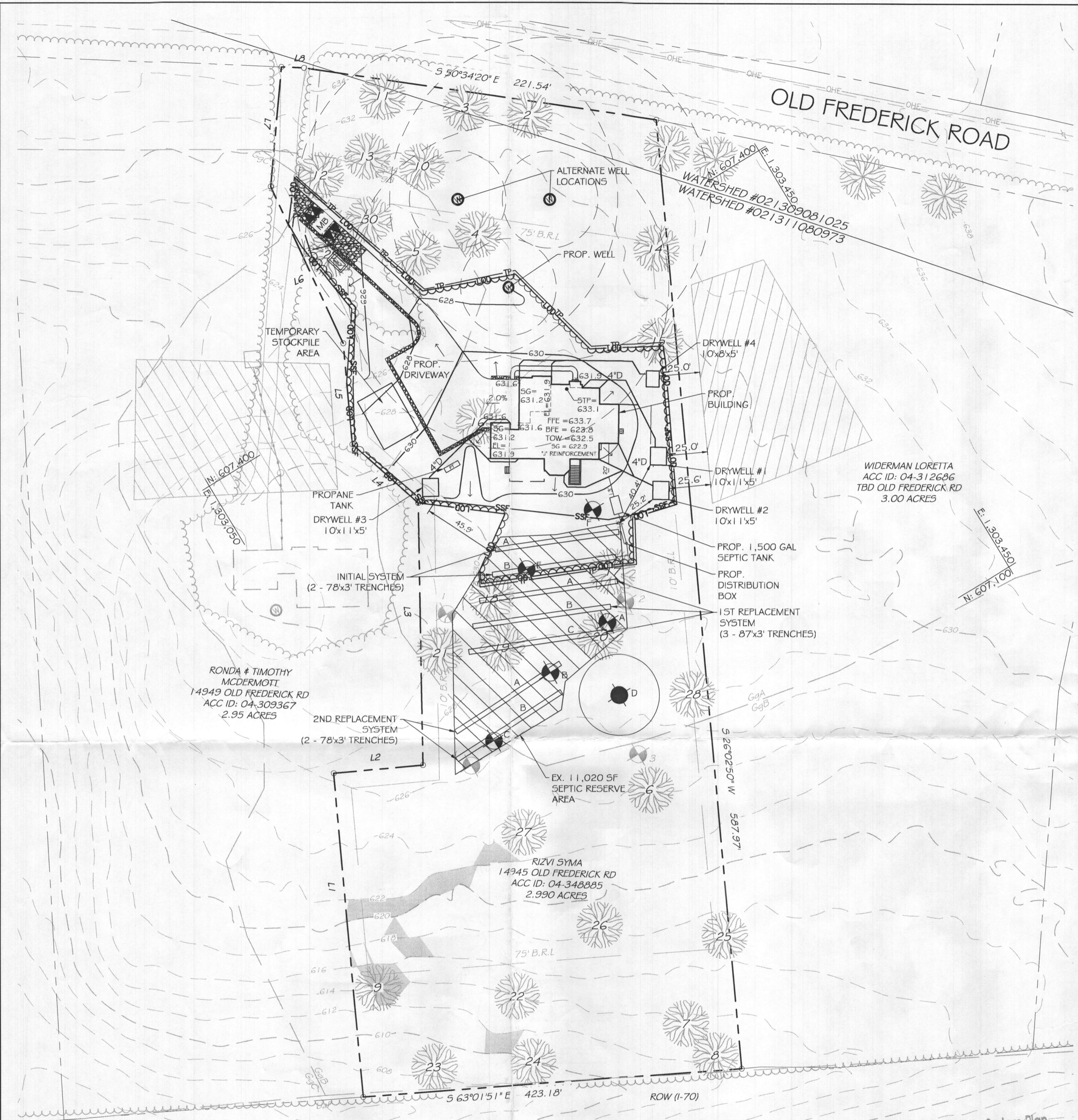
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TAX#: 348885, SUB: 1001

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(240) 475-3884

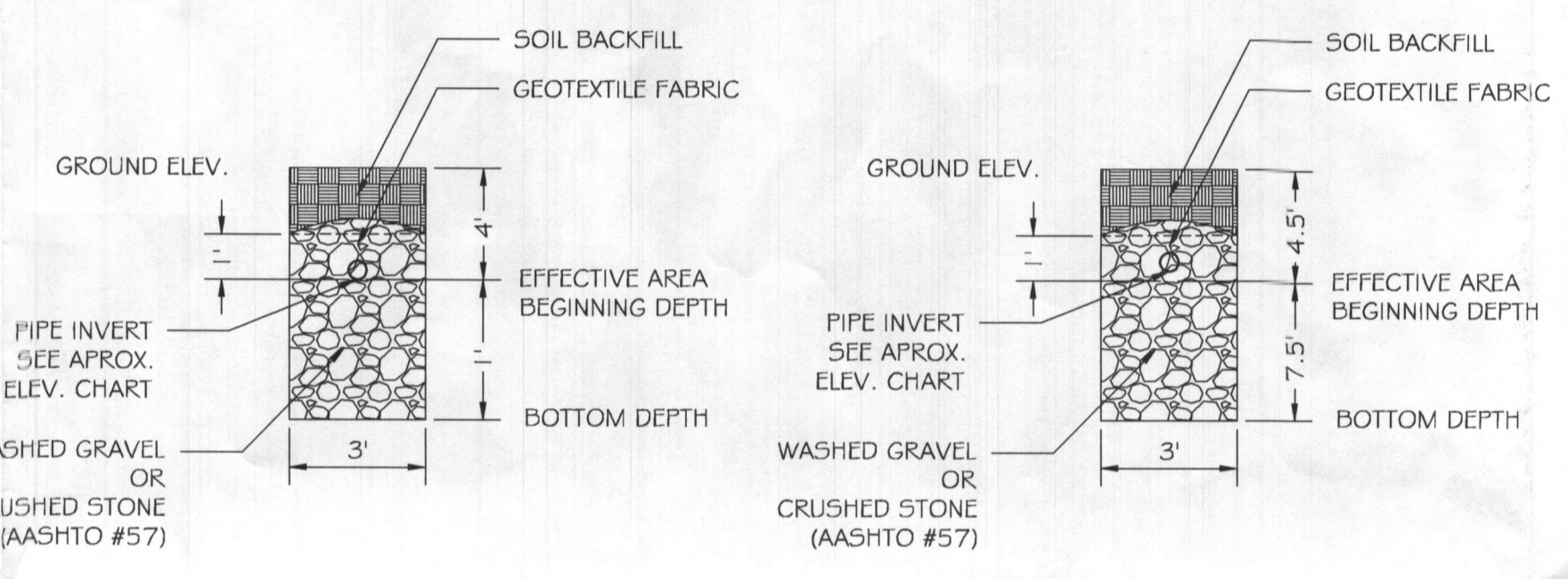
DEVELOPER:  
KEYSTONE CUSTOM HOMES  
GREG REINSMITH  
227 GRANITE RUN DR, SUITE 100,  
LANCASTER, PA 17601  
(717) 464-9060 EXT. 1108

DESIGNER:  
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DRAWING NO.  
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938 SF / 3' WIDTH = 313 LF x 0.50 = 156 LF MIN. TRENCH  
12" MIN. SPACING BETWEEN TRENCH EDGES

2 - 78' LONG TRENCHES FOR INITIAL SYSTEM  
3 - 87' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM  
2 - 78' LONG TRENCHES FOR 2ND REPLACEMENT SYSTEM

PERC RESULTS (10/01/99B)	
TEST #	TIME FOR 1" DROP (MINUTES)
1	4
2	8
3	20
4	10
AVG.	10.5

PERC RESULTS (6/15/2022)			
TEST #	DEPTH (FT)	TIME FOR 1ST 1" DROP (MINUTES)	TIME FOR 2ND 1" DROP (MINUTES)
A	5	3	5
B	5.5	5	11
C	6	8	11
D	FAILED	FAILED	FAILED
E	6	10	15
F	5	11	16

PROPERTY BOUNDARY LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 26°02'56" E	200.46'
L2	S 63°57'04" E	55.73'
L3	N 30°12'56" E	161.90'
L4	N 17°18'48" W	54.62'
L5	N 26°02'56" E	62.49'
L6	N 06°19'11" E	106.56'
L7	N 36°24'52" E	73.94'
L8	S 56°22'55" E	14.02'

APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	629.7	625.7	621.7
INITIAL SYSTEM TRENCH B	629.3	625.7	621.3
1ST REPLACEMENT TRENCH A	629.0	625.0	624.0
1ST REPLACEMENT TRENCH B	628.5	625.0	623.5
1ST REPLACEMENT TRENCH C	628.0	625.0	623.0
2ND REPLACEMENT TRENCH A	627.3	623.3	619.8
2ND REPLACEMENT TRENCH B	626.6	623.3	619.1

RELATIVE DEPTHS			
	PIPE INVERT BELOW GROUND	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A&B	4.0'	5.0'	8.0'
1ST REPLACEMENT TRENCH A,B&C	4.0'	4.0'	5.0'
2ND REPLACEMENT TRENCH A&B	4.0'	4.5'	7.5'

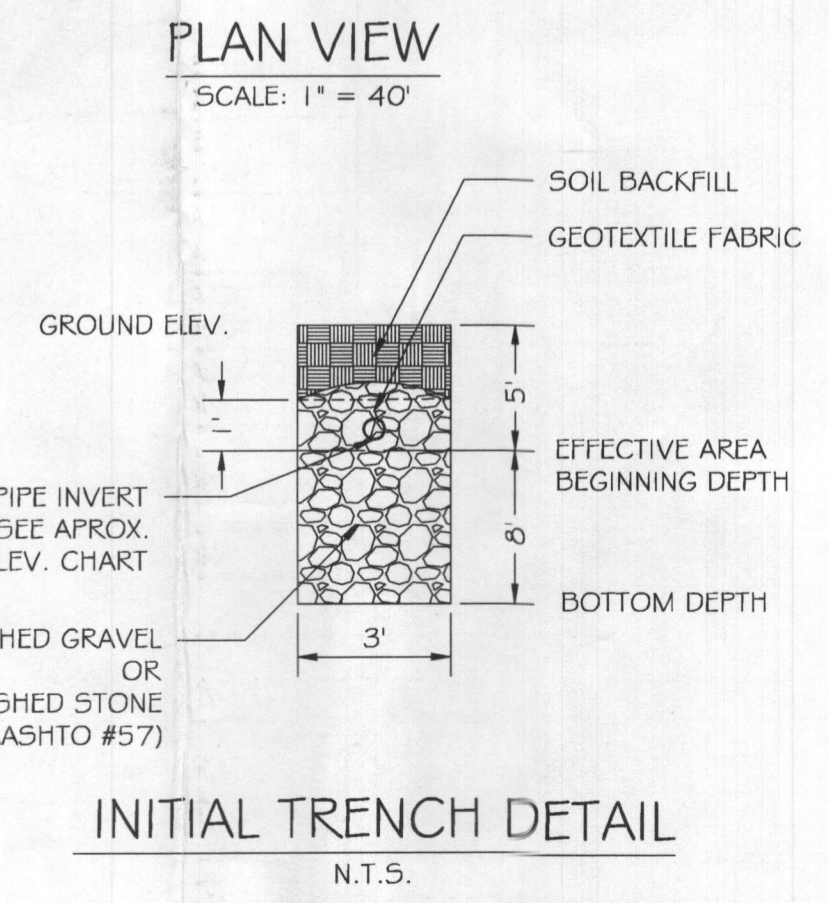
**OWNER:**  
ASKARI # SYMA RIZVI  
12614 FAWN RUN CT.  
ELLCOTT CITY, MD 21042  
(240) 475-3884

**DEVELOPER:**  
KEYSTONE CUSTOM HOMES  
GREG REINSMITH  
227 GRANITE RUN DR., SUITE 100,  
LANCASTER, PA 17601  
(717) 464-9060 EXT. 1108

**DESIGNER:**  
KCI TECHNOLOGIES INC.  
FRANK WHITE  
936 RIDGEBROOK RD,  
SPARKS, MD 21152  
(410) 316-0803

**LEGEND**

- 759--- EXISTING MINOR CONTOUR (2' INTERVAL)
- 760--- EXISTING MAJOR CONTOUR (10' INTERVAL)
- - - - - ADJACENT PROPERTY LINE
- - - - - EXISTING PROPERTY BOUNDARY
- - - - - EXISTING ROAD / EDGE OF PAVING
- - - - - EXISTING ROAD CENTERLINE
- 761--- PROPOSED MINOR CONTOUR (2' INTERVAL)
- 760--- PROPOSED MAJOR CONTOUR (10' INTERVAL)
- [---] EXISTING BUILDING
- [---] PROPOSED BUILDING
- 765.0x--- PROPOSED SPOT ELEVATION
- - - - - LIMIT OF DISTURBANCE
- - - - - PROPOSED SILT FENCE
- BrC GdB SOIL DELINEATION LINE
- [---] EXISTING PERCOLATION TEST HOLE

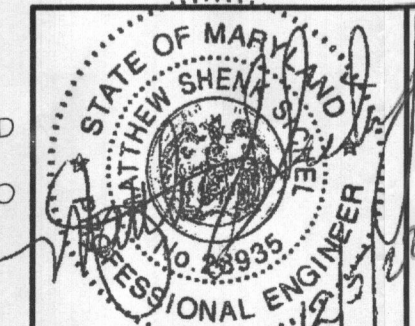


**INITIAL TRENCH DETAIL** N.T.S.

Approved Septic System Plan  
Howard County Health Department

Signature: [Signature]  
Date: 1/5/22

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREIN IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF. LICENSE NO. 28935 EXPIRATION DATE: 1/15/2023



**KCI TECHNOLOGIES**  
ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS  
936 RIDGEBROOK ROAD  
SPARKS, MARYLAND 21152  
TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

REVISIONS			DATE
NO.	DATE	DESCRIPTION	BY
	12/05/2022		JDL

**LOT 5, RIZVI PROPERTY**  
**ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**  
14945 OLD FREDERICK ROAD  
WOODBINE, MD 21797  
TAX#: 348885, SUB: 1001

DRAWING NO. SHEET 1 OF 1  
KCI JOB NUMBER 271803754.112

INTERSTATE 70

S63°04'09"E 236.80'

N26°02'56"E 200.48'

10' BRL

S63°57'04"E  
55.73'

RONDA & TIMOTHY MCDERMOTT  
LIBER 20910 FOLIO 8

N30°12'56"E 161.98'

N17°18'48"W  
54.62'

N26°02'56"E  
62.49'

10' BRL

N06°19'11"E 106.56'

N36°24'52"E  
73.94'

24' PRIVATE  
USE-IN-COMMON ACCESS  
EASEMENT FOR LOTS 4 & 5

N56°25'13"W  
14.02'

MCS NAD 83/91

ASKARI & SYMA RIZVI  
LIBER 21203 FOLIO 278  
ACRES

75' BRL

N50°36'38"W 221.54'

OLD FREDERICK ROAD  
30' R/W

N26°00'37"E 603.43'

BILKIS & DANIEL OGBONNA  
LIBER 21745 FOLIO 1

**FLOOD NOTE**

THE SITE LIES WITHIN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON F.I.R.M. NO. 24031C0210D EFFECTIVE SEPTEMBER 29, 2006 AND NO. 24027C0035D EFFECTIVE DATE NOVEMBER 6, 2013.



**CERTIFICATION**

I HEREBY CERTIFY THAT THIS LOCATION DRAWING AND THE SURVEYING WORK REFLECTED IN IT WAS PREPARED UNDER MY RESPONSIBLE CHARGE AND IS IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN THE ANNOTATED CODE OF MARYLAND FOR LAND SURVEYING.

*Joseph Franklin Sturtz*

FOUNDATION LOCATION DRAWING  
LOT 1  
BATES PROPERTY LOTS 4 & 5  
PLAT NO. 25711

**14945 OLD FREDERICK ROAD**

4TH ELECTION DISTRICT HOWARD COUNTY, MD  
DATE: 6-22-23 KCI JOB NO.: 272103754 SCALE: 1" = 50'

PERMIT #B22001367

*MRE 7/10/23*

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 PLANNERS  
 SCIENTISTS  
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