



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: 3/16/17

ONSITE SEWAGE DISPOSAL SYSTEM

P 560575

APPROVAL DATE: _____

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 5656 Ten Oaks Road

SUBDIVISION: _____

LOT: _____

TAX ID: 05-341981

CONTRACTOR: Legacy Septic

EMAIL: _____

CONTRACTOR ADDRESS: 1538 Manchester Road, Westminster, MD 21157

PHONE: 410-840-8760

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: ☒ MDE

☒ MANUFACTURER:

PROPERTY OWNER: Micahel Butler and Barbara Klein

EMAIL: _____

OWNER ADDRESS: 5656 Ten Oaks Road, Clarksville, MD 21029

PHONE: 240-876-4295

BAT UNIT MODEL: Norweco TNTLP 500

PUMP SIZE: N/A

PUMP TANK CAPACITY: N/A

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: 4/10/17

DATE RECORDED: 4/10/17

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:

LINEAR FEET REQUIRED: 80

INLET DEPTH: 4

TRENCH WIDTH: 3

MAXIMUM BOTTOM DEPTH: 8

MINIMUM SPACE

BETWEEN TRENCHES: 10

EFFECTIVE AREA BEGINNING DEPTH: 4

LOCATION:

PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.

NOTES:

BAT?

ISSUED BY: Robert Freeman

ISSUE DATE: 4/24/17

EXPIRATION DATE: 3/16/18

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 SEPTIC TANKS REQUIRED**

NOTE: **ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE 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 1700345

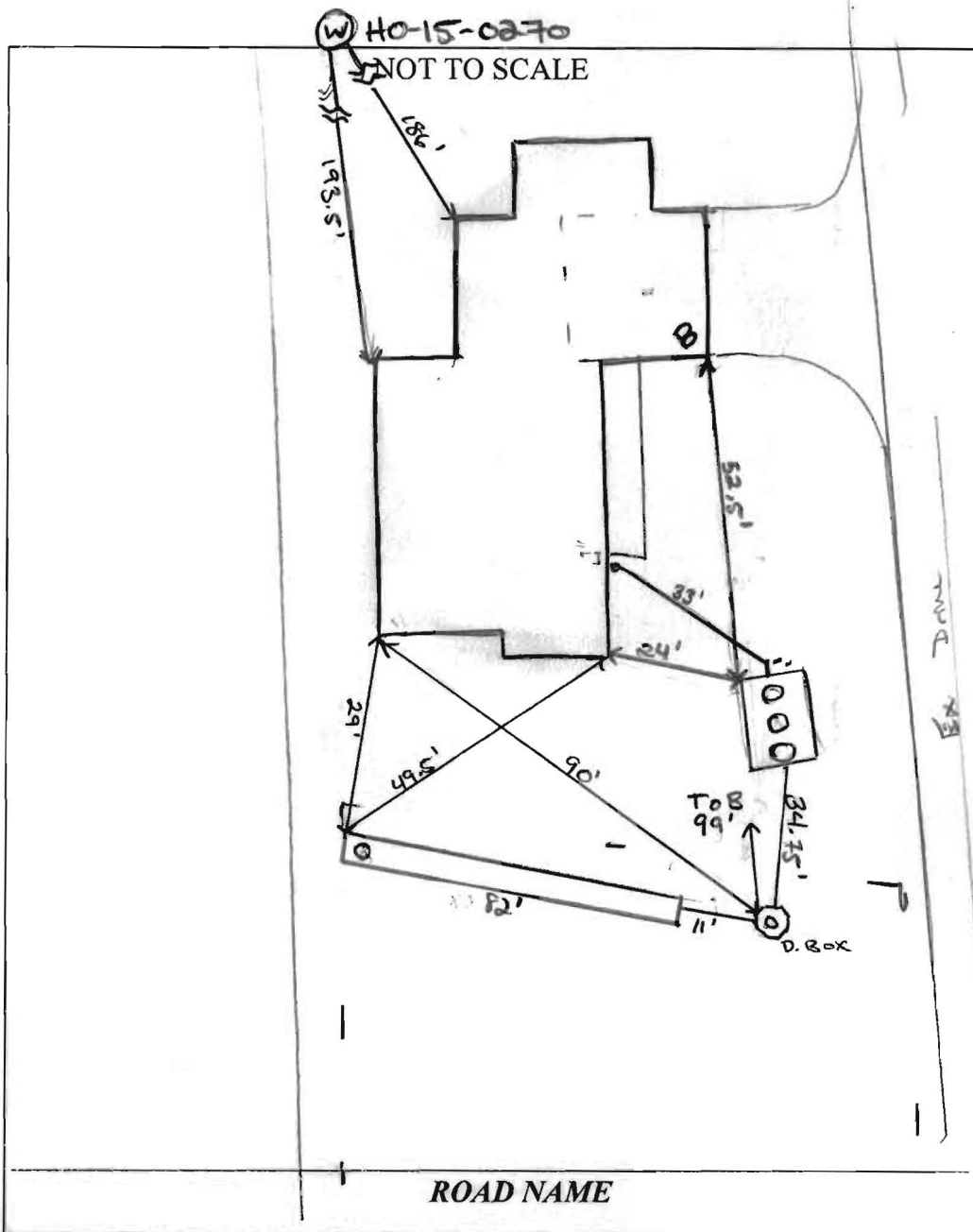
NOTE: **AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.**

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.



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		1
TOTAL LENGTH		82'
ABSORPTION AREA		246 + Side Wall
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL DN1
 MANUFACTURER Norweco
 CAPACITY TNTLPS500 GAL
 SEAM LOC Top
 TANK LID DEPTH 30" front 22" back
 BAFFLES N/A
 BAFFLE FILTER DN1
 MANHOLE LOC Front/center/back
 6" PORT LOC N/A
 WATERTIGHT TEST —
 SLOTTED N/A
 DATE ON LID 10-18-16

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:

4/25/17 Met contractor on-site. Shot elevations of trench adjusted slightly (1 x 80' trench) w/ in 4" difference. BAT location staked in field. (KMD)

INSTALLATION: 04/26/2017

On Site for installation of tank risers and base connection to tank @ 04/27/2017 Onsite to gather as built. Needs house connection.

PVC SPEC: 4" Orange PVC DWV NSF-DWV ASTM D2665

SCH 40 220 PSI Water at 73°F PVC 1120

Conduit Spec: NSF PW-G ASTM D1785 PPEA 0217030 MSA 2221

3/4" SCH-40 rigid PVC @ 7/26/17 (confirmed) w/ contractor that plumber made SHC. (C)

FINAL INSPECTOR

DATE OF APPROVAL 07/26/2017

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

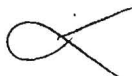
This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 5656 Ten Oaks Rd., Clarksville, MD 21029 April 26, 2017 was installed according to the manufacture's specifications.

Installer: George Schooley

Property Owner: Joseph Pulver

Permit #

THIS CERTIFICATION IS FOR INSTALLATION ONLY. THE 5-YEAR OPERATIONS & MAINTENANCE AGREEMENT FROM DATE OF INSTALLATION WILL ONLY GO INTO EFFECT AFTER BACK RIVER PRE-CAST, LLC RECEIVES FINAL AND FULL PAYMENT FOR THE SYSTEM.



MATTHEW GECKLE

Vice-President

5656 Ten Oaks Road

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

LP - Agreement Recording Fee
1x 20.00 20.00

Name: pulver
Ref: 60

LR - Ag. - ment Surcharge
1x 40.00 40.00

SubTotal: 60.00
Total: 60.00

CRD-Credit 60.00
Credit Card Confirmation : 433od

04/10/2017 14:37 CC13-LH
#8134381 /1247/109

~ Thank you for visiting us today ~



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

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 10 day of April, among Joseph + Caitlin Pulver, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 5656 Ten Oaks Road, in the 05 Election District of Howard County, Maryland, and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 0034 Block # 0004, Parcel # 0446 Deed Reference # 167521 and Tax Account # 00599094 ("the Property").
00460

WHEREAS, The Property is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013. The pre-treatment device being installed is

BAT System
Norweco TNTLP 500

NOW, THEREFORE, the parties hereto agree as follows:

A. Owner hereby grants to the County the right to enter upon the Property at any reasonable time with prior notice for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County.

B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.

C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.

D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.

E. This agreement shall run with the land and upon Owner's taking title to the Property shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Property that the system shall require maintenance or other attention. Upon taking title to the Property, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Richard J. Davis 4/10/17
Howard County Health Department

C. Peller 4/10/17
Owner #1 Signature Date

Owner #1 Print Name

Buyer #1 Signature Date

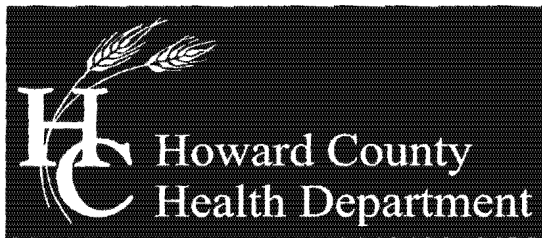
Buyer #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name



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Twitter: HowardCoHealthDep

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

August 23, 2016

BPR Inc.
150 Airport Drive
Westminster, MD

Sent via email to:

RE:

**BAT Plan
5650 Ten Oaks Road (Map.34 P.10)**

Randy Bachtel:

This letter is in response to the BAT Plan submitted for 5650 Ten Oaks Road (M.34, P.10). Upon review of the plan, a couple of items need to be added or changed on the plan. Please revise the plan to include the following:

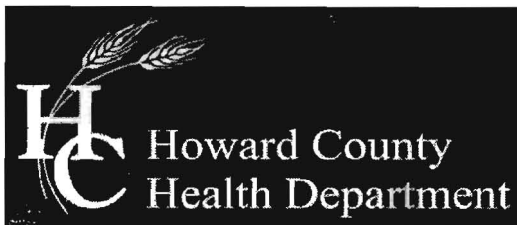
- 1.) Trench Spacing between edges must be 10' minimum (3 foot wide trenches may work better in this space with 2 - 80' for the initial & 1st, 2 - 66' trenches for 2nd replacement system)
- 2.) Side wall reduction credit for 2nd replacement system should be 0.36
- 3.) The sewer drop = $548.02 - 547.78 / 24 \text{ feet} = 0.01 \times 100 = 1\%$ not 2.4% as indicated in profile (Please note that ideal sewer drop is between 2 - 5 %)

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S
Bureau of Environmental Health
Well & Septic Program



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

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

Date Submitted 4.15.16

5650 Ten Oaks Rd

Property Address

N/A	N/A	34	04	10	05-341981
Subdivision	Lot	Tax Map	Grid	Parcel	Tax Account #

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

Active - Percolation Certification and Site Plan

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

Regulation Section	Summary and Explanation
1. <u>26.04.02.05B(2)</u>	Proposed on-site sewage disposal system is located up-grade from an existing private water supply (well) which conflicts with the stated regulation. However proposed system is located > 200' from said well per Howard County regulations

2.	
----	--


Property Owner's Signature


Health Department Use Only

Reviewed by

HCHD Staff _____ Date _____

Recommendation:

☒ Recommended ☐ Not Recommended


HCHD Supervisor _____ Date 4/15/16

Comments/Conditions: - well: steel casing to 50' or 10' into competent bedrock whichever is deeper
OSDS: BAT unit

Approved by:

MDE Representative _____ Date _____

Oswald, Hank

From: Steven Krieg -MDE- <steven.krieg@maryland.gov>
Sent: Wednesday, April 27, 2016 8:52 AM
To: Williams, Jeffrey
Cc: Oswald, Hank
Subject: Re: Well variance

Jeff

Variance approved with no lpd required. BAT required. I'll sign and scan later.

The downgradient well in question is offsite so no condition on well casing.

On Fri, Apr 15, 2016 at 2:41 PM, Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

Hi Steve. Attached is a variance request form and the proposed perc cert. The soils were good. Deep LS to 13' 5-7 minute rates. The lowest part of the area is about 250' away with the upper part over 300' away. I didn't put LPD as a condition due to the distance. If you want to add it in, you could add it to the conditions on the bottom of the form. If you like it, please sign and email back to me and Hank. Thanks

Jeff Williams

Program Supervisor, Well & Septic Program

Bureau of Environmental Health

Howard County Health Dept.

410-313-4261

jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

Oswald, Hank

From: Oswald, Hank
Sent: Thursday, May 12, 2016 3:03 PM
To: 'Randy Bachtel'
Cc: Mike Butler
Subject: RE: 5650 Ten Oaks Road_Variance Note

Hi Randy:

A lot created between 1972-1985 with 10,000, has to maintain 10,000. A lot not created with 10,000, we typically would waive local code and default to COMAR. (Initial plus 2 or, Initial plus 1 with BAT) BAT units are required on new construction.

After 1985, needs 10,000 no matter what plus Initial & 2 replacements.

With that said, can you supply me with proof of when this lot was created (i.e. copy of the deed)

Thanks,

Hank

From: Randy Bachtel [<mailto:rbachtel@bprsurveying.com>]
Sent: Thursday, May 12, 2016 2:15 PM
To: Oswald, Hank
Cc: Mike Butler
Subject: RE: 5650 Ten Oaks Road_Variance Note

Good Afternoon Hank:

Hank it is my understanding that parcel/ lots created prior to 1985 only require the initial and one replacement. This partial was created in 1973. I know the owner has spoke to you about this matter. Please revise the septic spec sheet to reflect this comar code. Call or email either Mike or myself, should we need to discuss.

Thanks,
Randy Bachtel



From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Wednesday, April 27, 2016 10:03 AM
To: Randy Bachtel
Subject: RE: 5650 Ten Oaks Road_Variance Note

Hi Randy:

An engineer designs the septic system on a "BAT Plan" using the septic spec sheet (attached).

Hank

From: Randy Bachtel [<mailto:rbachtel@bprsurveying.com>]
Sent: Wednesday, April 27, 2016 9:59 AM
To: Oswald, Hank
Subject: RE: 5650 Ten Oaks Road_Variance Note

Hank

In Howard County do you as the sanitarian do the septic design or the engineer?

Randy B.

BPR

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Wednesday, April 27, 2016 9:56 AM
To: Brian Johnson
Subject: FW: 5650 Ten Oaks Road_Variance Note

Hi Brian:

The Waiver request has been approved by MDE. We are just waiting on the actual approval letter to come back to us. In the meantime, please add this note to the plan. It may read, "MDE has approved the Variance to allow the Sewage Disposal Area on this lot to be located up gradient of the well on Lot 13 (5490 Adams Ridge Road, Clarksville) and it is subject to having BAT unit."

Also, my Percolation Test Note Page was slightly revised.

Should you have any questions, please don't hesitate to ask.

Hank

From: Oswald, Hank
Sent: Monday, April 11, 2016 11:02 AM
To: bjohnson@bprsurveying.com
Subject: 5650 Ten Oaks Road_Variance Form

Hi Brian:

Please have the owner complete the application for variance to down gradient well. Once the variance is approved, the percolation certification plan will need a note added to it about the approved variance plus conditions.

Should you have any questions, please don't hesitate to ask.

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

Randy B.
BPR

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Wednesday, April 27, 2016 9:56 AM
To: Brian Johnson
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From: Oswald, Hank
Sent: Monday, April 11, 2016 11:02 AM
To: bjohnson@bprsurveying.com
Subject: 5650 Ten Oaks Road_Variance Form

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Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, April 27, 2016 10:03 AM
To: 'Randy Bachtel'
Subject: RE: 5650 Ten Oaks Road_Variance Note
Attachments: Septic Spec Sheet_5650 Ten Oaks Road_2016.pdf

Hi Randy:

An engineer designs the septic system on a "BAT Plan" using the septic spec sheet (attached).

Hank

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Columbia, MD 21045
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410.313.2648 (Fax)

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, August 23, 2016 9:46 AM
To: 'Randy Bachtel'
Subject: BAT Plan_5650 Ten Oaks Road
Attachments: BAT Plan_5650 Ten Oaks.pdf

Hi Randy:

Attached, please see letter regarding the BAT Plan for 5650 Ten Oaks Road (Map 34, P.10). Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

Oswald, Hank

From: Oswald, Hank
Sent: Friday, June 10, 2016 1:33 PM
To: Randy Bachtel (rbachtel@bprsurveying.com)
Subject: 5650 Ten Oaks Road_Perc Cert Plan
Attachments: Setback Requirements.pdf; Perc Test Notes.pdf

Hi Randy:

At a glance, the following needs to be revised on the plan submitted today;

- 1.) Show septic easement boundary
- 2.) Septic easement to house setback is 20 ft
- 3.) Septic tank to house with basement setback is 20 ft.
- 4.) Replace perc test notes with attachment
- 5.) Label trenches Initial trench 1, Initial trench 2 etc.
- 6.) 100 ft Well Radius must go around entire well box.

Any questions, please don't hesitate to ask.

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
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Randy Bachtel



From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Wednesday, April 27, 2016 10:03 AM
To: Randy Bachtel
Subject: RE: 5650 Ten Oaks Road_Variance Note

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Hank

From: Randy Bachtel [<mailto:rbachtel@bprsurveying.com>]
Sent: Wednesday, April 27, 2016 9:59 AM
To: Oswald, Hank
Subject: RE: 5650 Ten Oaks Road_Variance Note

Hank
In Howard County do you as the sanitarian do the septic design or the engineer?

Oswald, Hank

From: Mike Butler <tenoaks@verizon.net>
Sent: Monday, May 16, 2016 10:01 AM
To: 'Randy Bachtel'; Oswald, Hank
Subject: RE: 5650 Ten Oaks Road_Variance Note
Attachments: Lot approval letter.PDF

Hank-

Attached please find a letter from the HoCo Planning and Zoning office establishing that the lot was established in 1973. I hope this will satisfy your needs in this regard, if not, I'll be happy to get you anything else you may need.

As Randy stated below in order to keep the process moving as expeditiously as possible we are proceeding with our design using the initial plus one replacement scenario utilizing the design numbers for the initial and first replacement from your previous septic design worksheet. If this is not appropriate please let us know.

Thank you.

Mike Butler

MBA Associates

5650 Ten Oaks Rd
Clarksville, MD 21029
240-876-4295

From: Randy Bachtel [<mailto:rbachtel@bprsurveying.com>]
Sent: Friday, May 13, 2016 12:51 PM
To: Oswald, Hank
Cc: Mike Butler
Subject: RE: 5650 Ten Oaks Road_Variance Note

Hi Hank:

In a conversation with Mike Butler, he has informed me that you will be revising the septic design form. Mike is proceeding with getting you the documentation. I will proceed Monday with using the initial and one replacement.

Please email the revised form when completed.

Thanks for your attention to this matter.

Randy Bachtel
BPR, Inc.

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Thursday, May 12, 2016 3:03 PM
To: Randy Bachtel
Cc: Mike Butler
Subject: RE: 5650 Ten Oaks Road_Variance Note

Oswald, Hank

From: Oswald, Hank
Sent: Friday, June 17, 2016 9:38 AM
To: 'Randy Bachtel'
Cc: Mike Butler
Subject: RE: 5650 Ten Oaks Road_Perc Cert Plan

Hi Randy:

Looks good except my supervisor, Jeff Williams and Deputy Director, Mike Davis would like to see 1 initial and 2 replacement systems since we have the area. We would allow a 5 foot setback to the property line to assist you in fitting them in.

Let me know if you have any questions.

Hank

From: Randy Bachtel [<mailto:rbachtel@bprsurveying.com>]
Sent: Thursday, June 16, 2016 1:56 PM
To: Oswald, Hank
Cc: Mike Butler
Subject: RE: 5650 Ten Oaks Road_Perc Cert Plan

Hank

Find attached the plan for the Ten oaks Project. Please take a look and let me know if see anything else that needs addressed.

Thanks
Randy Bachtel



From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Friday, June 10, 2016 1:33 PM
To: Randy Bachtel
Subject: 5650 Ten Oaks Road_Perc Cert Plan

Hi Randy:

At a glance, the following needs to be revised on the plan submitted today;

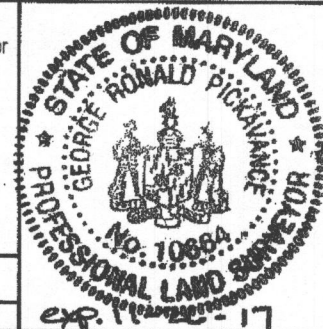
- 1.) Show septic easement boundary
- 2.) Septic easement to house setback is 20 ft

- 3.) Septic tank to house with basement setback is 20 ft.
- 4.) Replace perc test notes with attachment
- 5.) Label trenches Initial trench 1, Initial trench 2 etc.
- 6.) 100 ft Well Radius must go around entire well box.

Any questions, please don't hesitate to ask.

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)



BPR INC

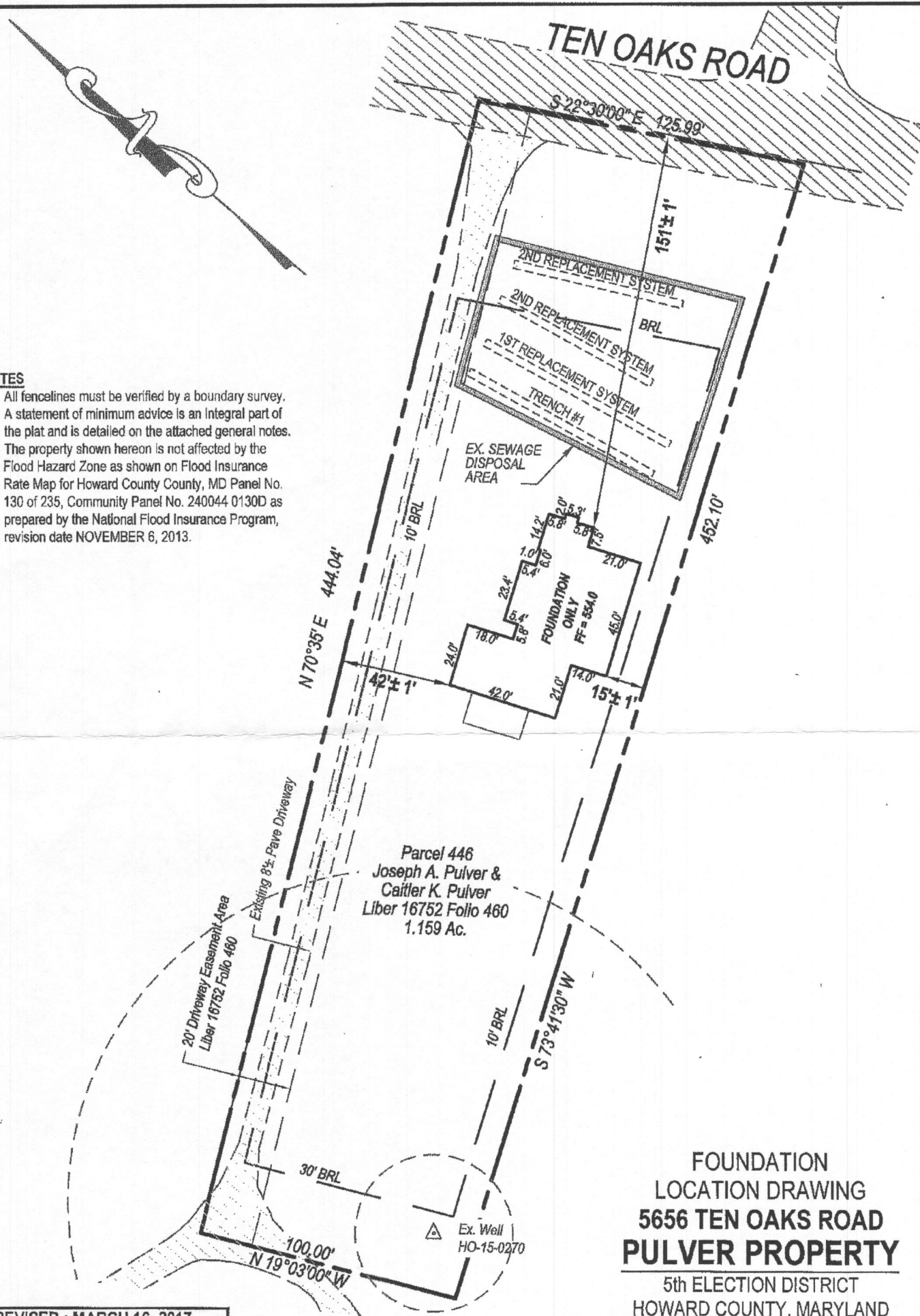
SURVEYORS - LAND PLANNERS

150 Airport Drive
Suite 4
Westminster, Maryland 21157
www.bprsurveying.com

Phone: (410)-857-9030
(410)-876-0333
Fax: (410)876-1532

NOTES

1. All fencelines must be verified by a boundary survey.
2. A statement of minimum advice is an integral part of the plat and is detailed on the attached general notes.
3. The property shown hereon is not affected by the Flood Hazard Zone as shown on Flood Insurance Rate Map for Howard County, MD Panel No. 130 of 235, Community Panel No. 240044 0130D as prepared by the National Flood Insurance Program, revision date NOVEMBER 6, 2013.



REVISED : MARCH 16, 2017

REVISED : DECEMBER 22, 2016

A licensed Maryland Surveyor either personally prepared the Location Drawing as shown hereon, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with chapter 09.13.06.12 of the Maryland Minimum Standards of Practice for Land Surveyors. Exact property corners have not been established or set. We assume no responsibility or liability for any rights-of-way or easements recorded or unrecorded, not appearing on the record plat and/or mentioned in the title deed referred to hereon.

Signed this 10th day of March 2017

[Signature]
Surveyor's Signature

Date: DECEMBER 15, 2016

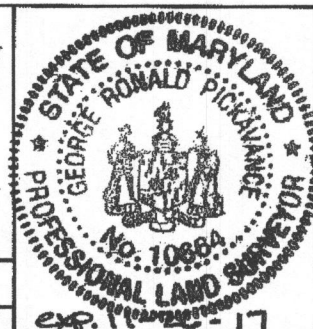
BPR Job No.15-086-000

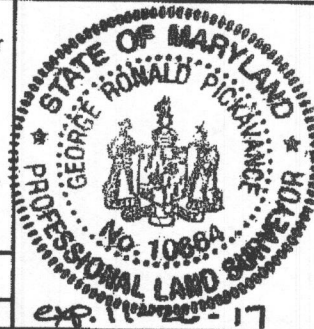
Scale: 1 inch = 50'

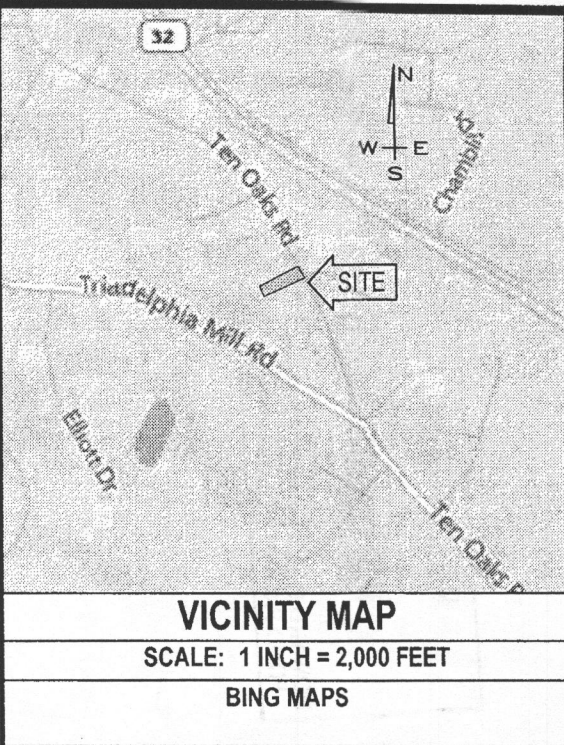
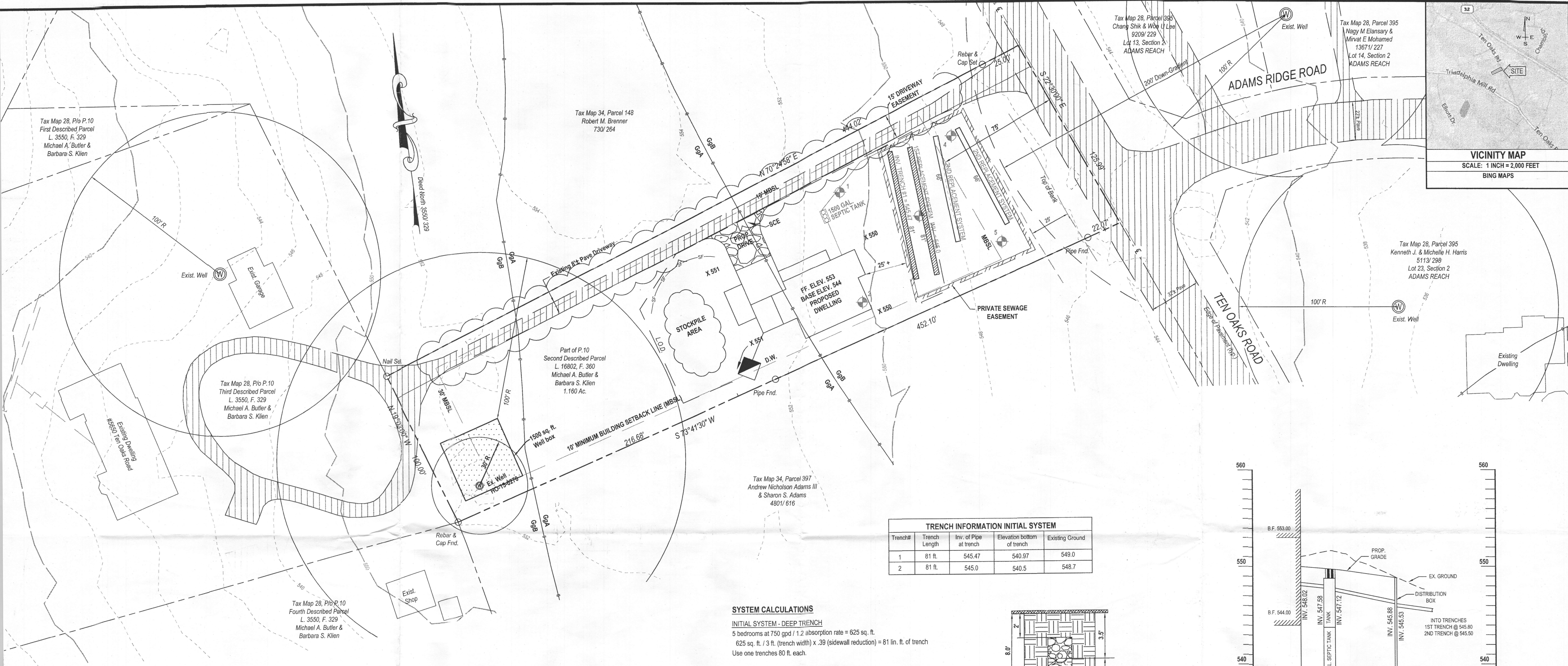
Also known as # 5656 TEN OAKS ROAD

**FOUNDATION
LOCATION DRAWING
5656 TEN OAKS ROAD
PULVER PROPERTY**

5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP: 34 GRID: 04 PARCEL: 446







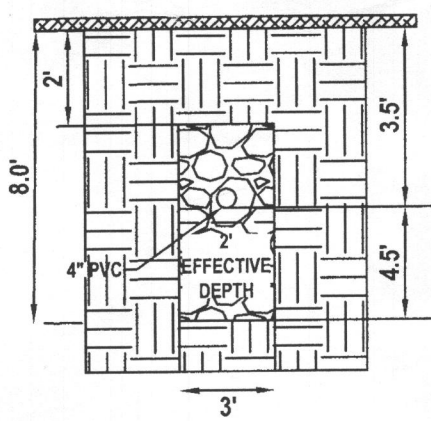
TRENCH INFORMATION INITIAL SYSTEM			
Trench#	Trench Length	Inv. of Pipe at trench	Elevation bottom of trench
1	81 ft.	545.47	540.97
2	81 ft.	545.0	540.5

SYSTEM CALCULATIONS

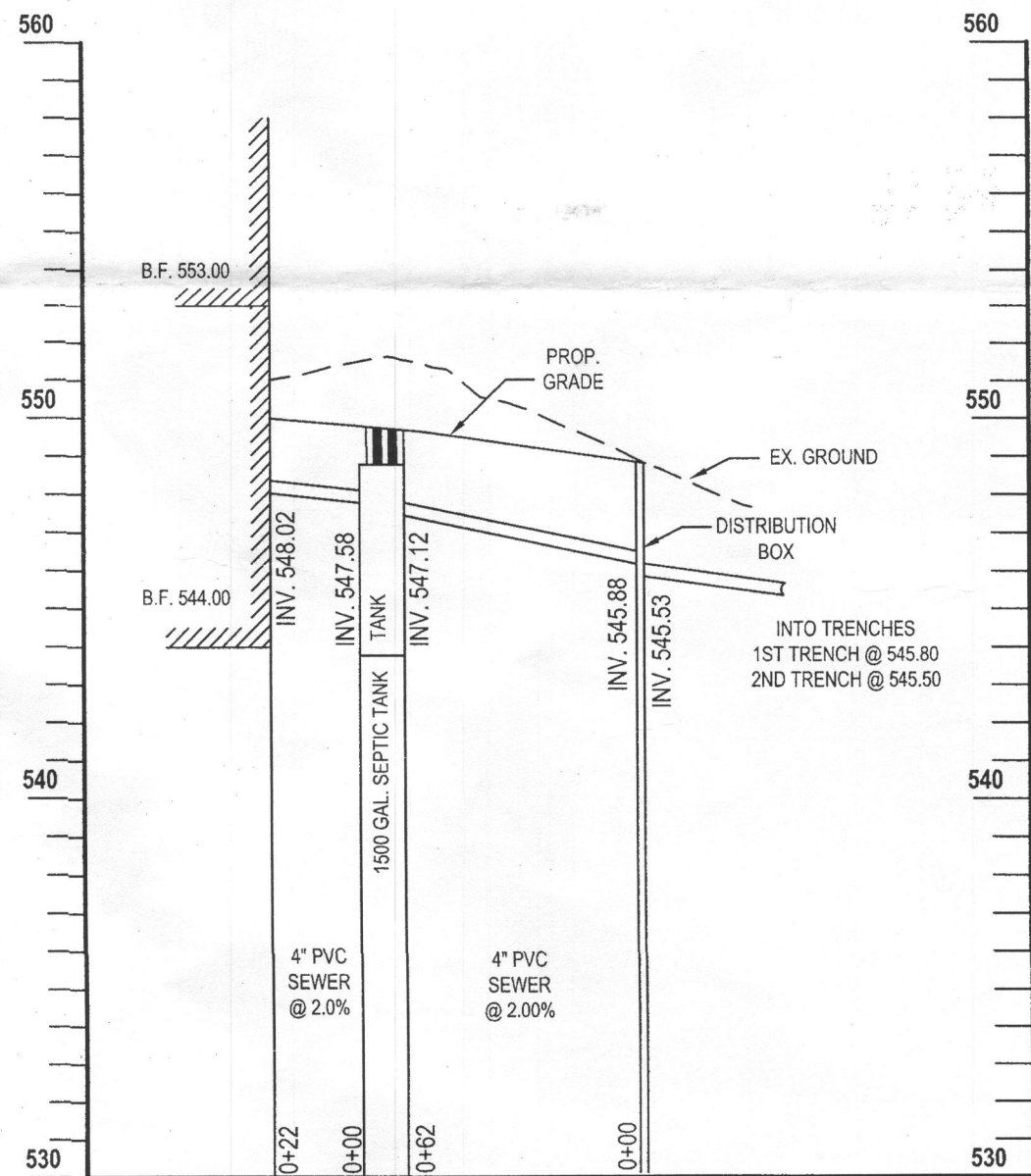
INITIAL SYSTEM - DEEP TRENCH
5 bedrooms at 750 gpd / 1.2 absorption rate = 625 sq. ft.
625 sq. ft. / 3 ft. (trench width) x .39 (sidewall reduction) = 81 lin. ft. of trench
Use one trenches 80 ft. each.

1ST REPLACEMENT SYSTEM- DEEP TRENCH
5 bedrooms at 750 gpd / 1.2 absorption rate = 625 sq. ft.
625 sq. ft. / 3 ft. (trench width) x .39 (sidewall reduction) = 81 lin. ft. of trench
Use one trenches 80 ft. each.

2ND REPLACEMENT SYSTEM- DEEP TRENCH
5 bedrooms at 750 gpd / 0.80 absorption rate = 938 sq. ft.
938 sq. ft. / 3 ft. (trench width) x .36 (side wall reduction) = 112 lin. ft.
Use 2 trenches 66 lin. ft. each.



INITIAL SYSTEM AND 1ST REPLACEMENT TRENCH DETAIL
NOT TO SCALE



SEPTIC SYSTEM PROFILE

SCALE: HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

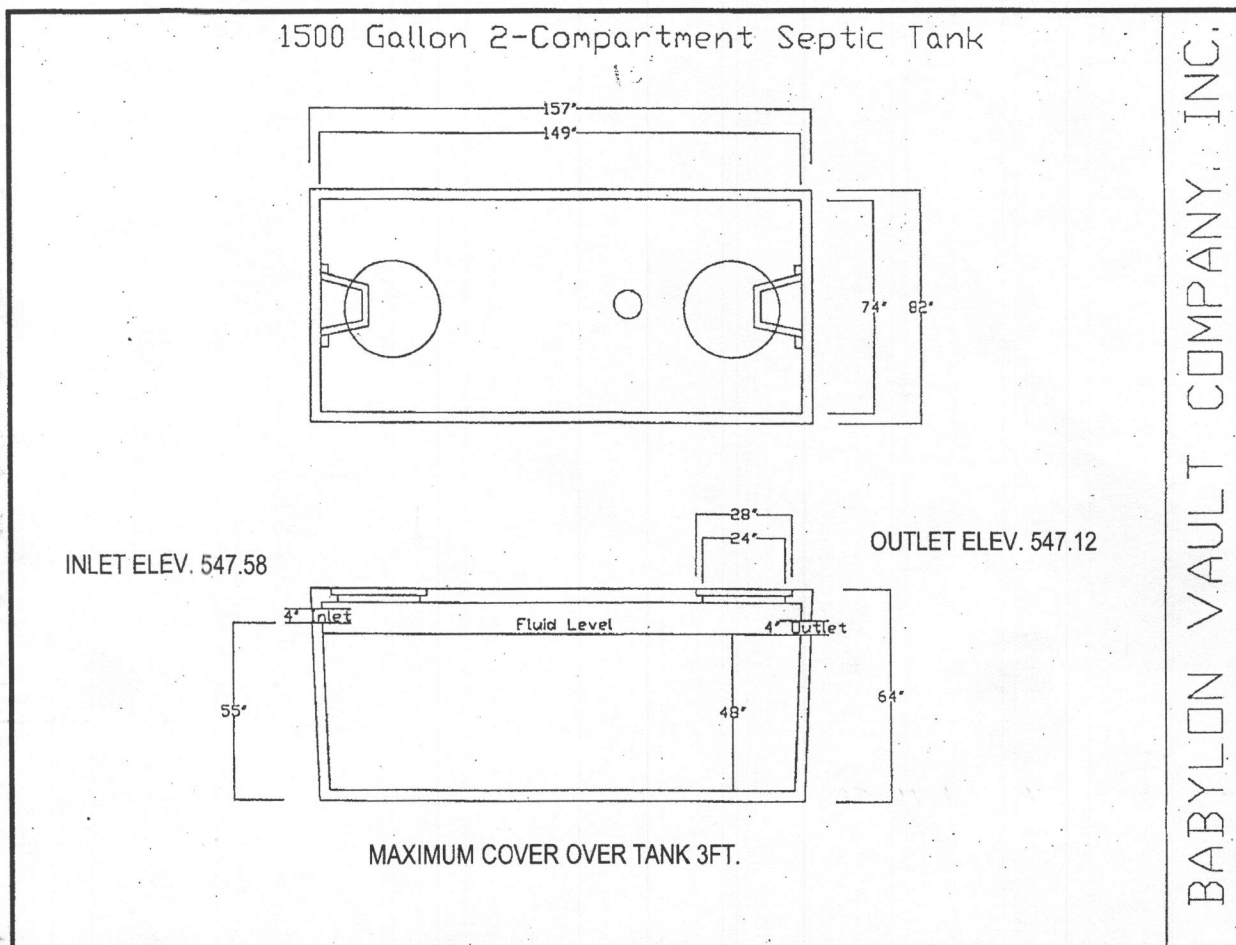
This area designates a private sewage area for two systems as required by the Maryland Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available. This area shall become null and void upon connection to a public sewerage system. The county Health Officer shall have the authority to grant adjustments to the private sewage area. Recordation of a modified sewage area shall not be necessary.

Do Not Use BAT Reg!
Approved Septic System Plan
Howard County Health Department
Signature: *[Signature]* Date: 3/2/17

GENERAL NOTES

- Any changes 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 earth cover will require a heavy load bearing tank.
- The well HO-15-0270 has been field located and is accurately shown.
- 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.

LEGEND	
	DENOTES EXISTING 2' CONTOURS
	DENOTES EXISTING 10' CONTOURS
	DENOTES SOIL LINES AND TYPES
	DENOTES PROPOSED WELL
	DENOTES PASSING PERCOLATION TEST
	DENOTES 1500 SQ. FT. ALTERNATE WELL SITE
	DENOTES SILT FENCE
	DENOTES LIMITS OF DISTURBANCE
	DENOTES PROPOSED DRYWELL



BABYLON VAULT COMPANY, INC.

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS"

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

SURVEYORS CERTIFICATION
A LICENSED MARYLAND SURVEYOR EITHER PERSONALLY PREPARED THE SURVEY AS SHOWN HEREON, OR WAS IN RESPONSIBLE CHARGE OVER ITS PREPARATION AND THE SURVEYING WORK REFLECTED IN IT, IN COMPLIANCE WITH CHAPTER 13.06.12 OF THE MARYLAND MINIMUM STANDARDS CONTRACT FOR LAND SURVEYORS

GEORGE R. PICKAVANCE MD PLS #10664 Expiration Date: 11/26/2017

Owner	Michael A. Butler & Barbara S. Klien 5650 TEN OAKS ROAD CLARKSVILLE, MD 21029 (240) 876-4295
Developer	MD ASSOCIATES 5650 TEN OAKS ROAD CLARKSVILLE, MD 21029 (240) 876-4295

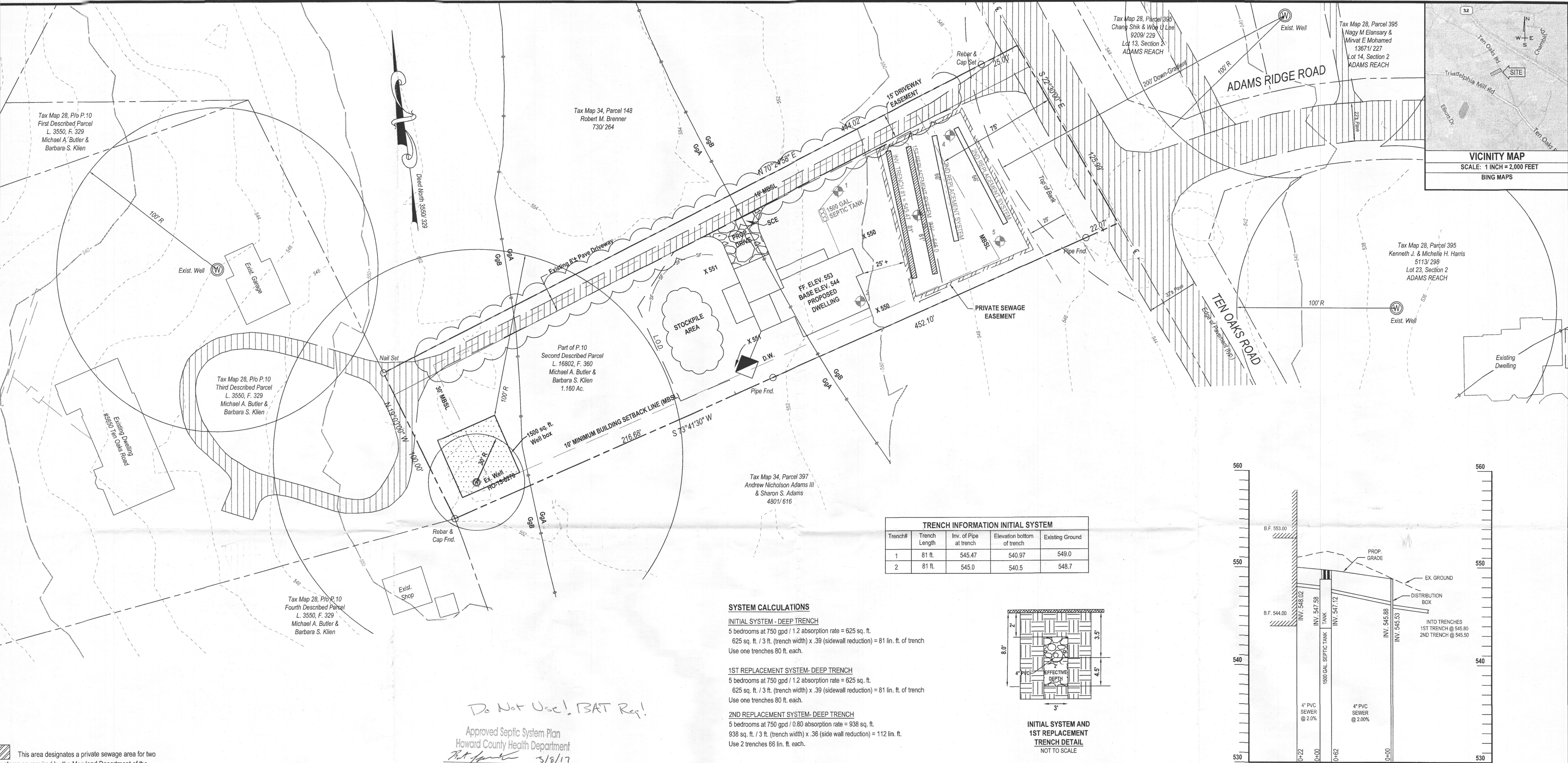
3-6-17	Revised per HCHD comment	MDB
3-2-17	Revised per HCHD comment	MDB
2-27-17	Revised Plan removed BAT system	MDB
DATE	REVISION	BY

SITE PLAN FOR SEPTIC INSTALLATION
5656 TEN OAKS ROAD
5TH ELECTION DISTRICT
TAX MAP - 34 GRID - 04 PARCEL - 10
HOWARD COUNTY, MARYLAND

Surveyed By	BPR	Drawn By	BPR
Computed By	BPR	Checked By	BPR
Date:	JAN. 2016		
Sheet:	1 OF 1		
Scale:	1 INCH = 30 FEET		
BPR Drawing No.:	15-086-000		

BUILDING PERMIT # B16004076

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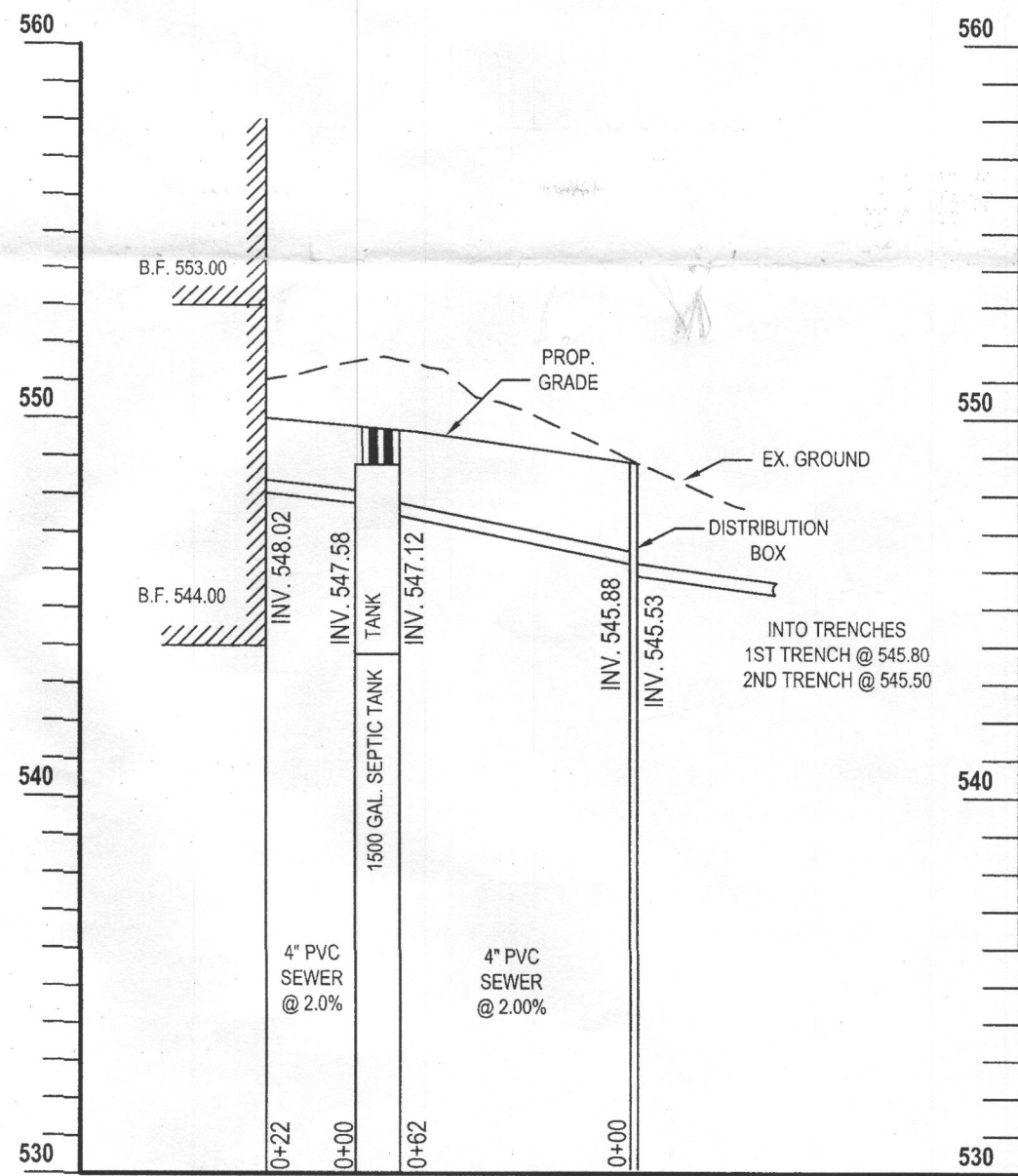
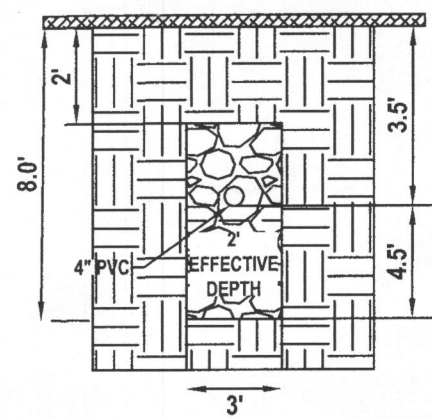
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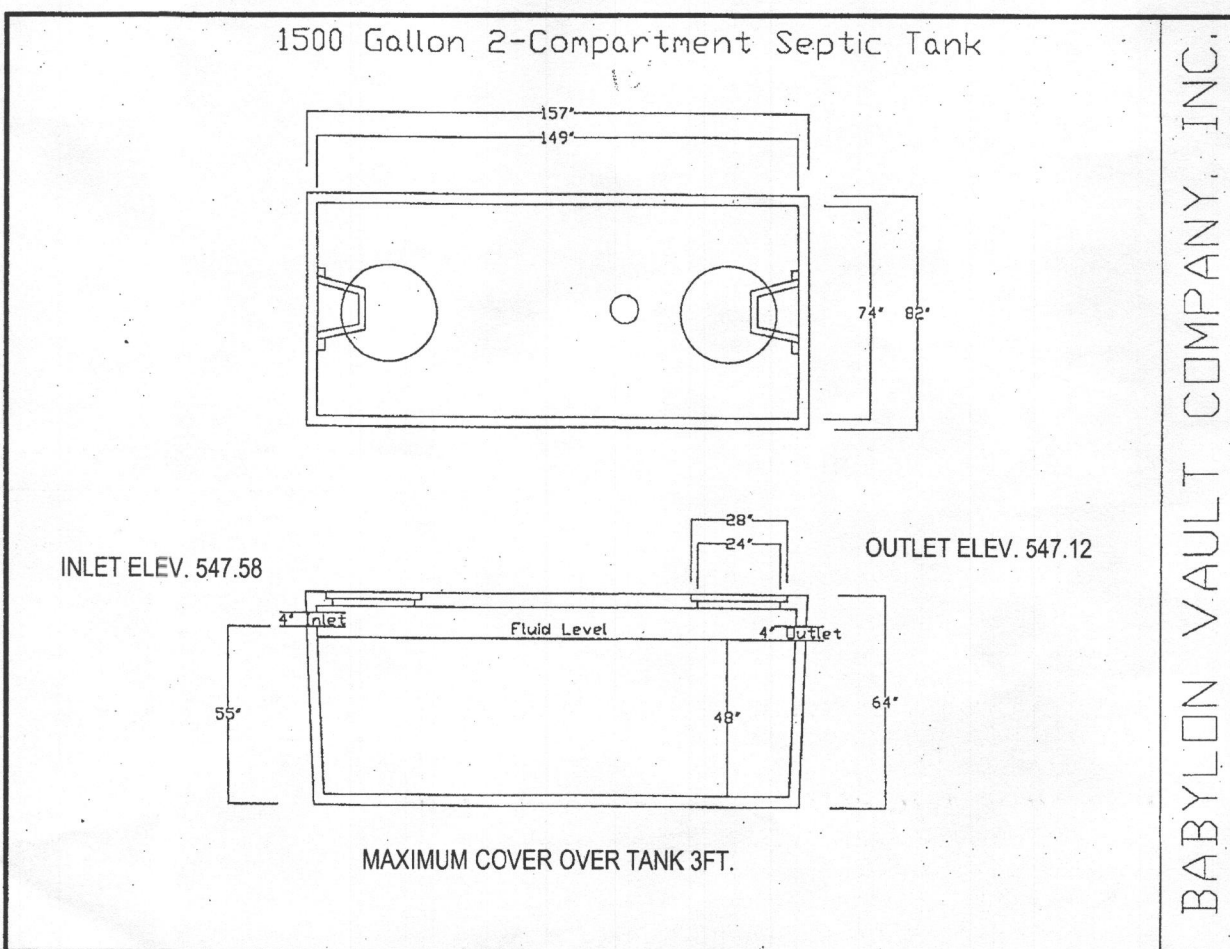


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