

**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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 7/30/19

**ONSITE SEWAGE DISPOSAL SYSTEM**

P 565577

APPROVAL DATE: 09/04/2019

**PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 5058 Gaither's Chance Drive

SUBDIVISION: Gaither's Chance

LOT: 10

TAX ID: \_\_\_\_\_

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157

PHONE: 410-596-3618

PROPERTY OWNER: NVR Inc.

EMAIL: \_\_\_\_\_

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046

PHONE: 301-762-9511

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Babylon

PUMP MODEL: N/A

PUMP SIZE \_\_\_\_\_

N/A

PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM:  GRAVITY

PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104.2</u>	INLET DEPTH: <u>2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald

ISSUE DATE: 7/30/19

EXPIRATION DATE: 7/30/20

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.**



## Oswald, Hank

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**From:** Mike Tran <mtran@glwpa.com>  
**Sent:** Thursday, May 02, 2019 12:09 PM  
**To:** Oswald, Hank  
**Subject:** Fwd: FW: FW: Final Effective Nov. 24 Removal of Requirement for Nitrogen BAT Systems Outside Critical Area & Proposed 2017 MDE Permit Turnaround Times

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

Hank,

Please see email chain below and let me whether we need to change the OSDS Plan for Lot 10 at Gaither's Chance.

Thanks,  
Mike



3909 National Dr., Suite 250 | Burtonsville, MD 20866  
PH: 301-421-4024 | PH (Baltimore): 410-880-1820  
PH (Northern VA): 301-989-2524 | FAX: 301-421-4186

Check out our new website: [WWW.GLWPA.COM](http://WWW.GLWPA.COM)

The information transmitted is intended only for the addressee shown above.  
Any design information (calculations, drawings, etc.) included in this transmission is intended for the sole purpose agreed upon with Gutschick, Little & Weber, P.A. (GLW). If this information is to be used for any other purpose or transmitted to any other persons, prior consent must be received from GLW.

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

**From:** Bricker, Robert <RBricker@howardcountymd.gov>  
**Date:** Mon, Nov 28, 2016 at 1:27 PM  
**Subject:** FW: FW: Final Effective Nov. 24 Removal of Requirement for Nitrogen BAT Systems Outside Critical Area & Proposed 2017 MDE Permit Turnaround Times  
**To:** mtran@glwpa.com <mtran@glwpa.com>

Mike,

Making a correction in the statement of my response to you two weeks ago: low-pressure distribution will not be required on septic systems in the Gaither's Chance subdivision that do not have a BAT unit.

Reiterating, with the edit: the lots that have upgradient septic systems (1, 2, 3, 4, 6, 7, and 8) will each have a BAT unit and (LPD); the lots that do not have a septic system upgradient of a well and will require a standard septic tank and gravity distribution (whether pumping to a Distribution Box or not) are 5, 9, 10, 11, 12, 13, 14, 15, 16, 17, and (if not yet installed) 18.

Robert Bricker, REHS/RS, L.E.H.S.

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**From:** Bricker, Robert

**Sent:** Tuesday, November 15, 2016 1:33 PM

**To:** 'Mike Tran'

**Cc:** Williams, Jeffrey

**Subject:** RE: FW: Final Effective Nov. 24 Removal of Requirement for Nitrogen BAT Systems Outside Critical Area & Proposed 2017 MDE Permit Turnaround Times

Mike,

The Health Department is waiting release of a guidance document by MDE prior to announcing any changes in our requirements.

The following items are certain:

BAT units will be required when the septic system is being installed up-gradient of a well, and a MDE variance for that spatial relationship will still be required.

We will still require BAT units when the sewage disposal area is large enough to accommodate only two drainfields (an initial drainfield and one replacement drainfield) for the planned residence.

There are any number of situations that pretreatment such as a BAT unit may be required due to the character of the planned discharge.

BAT units may be required when the Approving Authority determines the requirement enhances public health.

Installation plans will still be required, especially where pump tanks and/or low-pressure distribution (LPD) are required.

In terms of what this means for the Gaither's Chance subdivision: the lots that have upgradient septic systems (1, 2, 3, 4, 6, 7, and 8) will each have a BAT unit and (LPD); the requirement for BAT units may be re-evaluated for lots 5, 9, 10, 11, 12, 13, 14, 15, 16, 17, and (if not yet installed) 18.

Robert Bricker, REHS/RS, L.E.H.S.

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**From:** Mike Tran [<mailto:mtran@glwpa.com>]

**Sent:** Monday, November 14, 2016 6:29 PM

**To:** Bricker, Robert

**Subject:** Fwd: FW: Final Effective Nov. 24 Removal of Requirement for Nitrogen BAT Systems Outside Critical Area & Proposed 2017 MDE Permit Turnaround Times

Are there any changes to BAT system requirements in Howard County?

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

From: **Marc Quint** <[mquint@mitchellbest.com](mailto:mquint@mitchellbest.com)>

Date: Mon, Nov 14, 2016 at 4:37 PM

Subject: FW: Final Effective Nov. 24 Removal of Requirement for Nitrogen BAT Systems Outside Critical Area & Proposed 2017 MDE Permit Turnaround Times

To: Mike Tran <[mtran@glwpa.com](mailto:mtran@glwpa.com)>

Cc: Marty Mitchell <[mmitchell@mitchellbest.com](mailto:mmitchell@mitchellbest.com)>, Rob Mitchell <[robmitchell@mitchellbest.com](mailto:robmitchell@mitchellbest.com)>, Ralph Mobley <[rmobley@mitchellbest.com](mailto:rmobley@mitchellbest.com)>, Daniel Ellis <[dellis@mitchellbest.com](mailto:dellis@mitchellbest.com)>

Mike:

Have you or anyone else at GLW heard anything on this as far as Howard County, and what they are planning?

Let us know. Thanks, Marc

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**From:** Marty Mitchell

**Sent:** Monday, November 14, 2016 1:03 PM

**To:** Marc Quint <[mquint@mitchellbest.com](mailto:mquint@mitchellbest.com)>; Rob Mitchell <[robmitchell@mitchellbest.com](mailto:robmitchell@mitchellbest.com)>; Daniel Ellis <[dellis@mitchellbest.com](mailto:dellis@mitchellbest.com)>; Ralph Mobley <[rmobley@mitchellbest.com](mailto:rmobley@mitchellbest.com)>

**Subject:** FW: Final Effective Nov. 24 Removal of Requirement for Nitrogen BAT Systems Outside Critical Area & Proposed 2017 MDE Permit Turnaround Times

The regulation eliminating the BAT systems was approved, but it still allows a local jurisdiction to require the BAT system.

Thank you,

**Marty Mitchell**

CEO

Mitchell & Best Homes

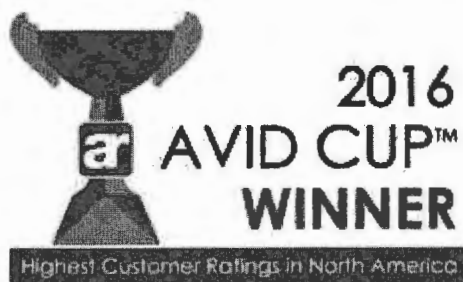
1686 East Gude Drive

Rockville, MD 20850

O: 301.762.9511 ext. 304

C: [301.370.5304](tel:301.370.5304)

[Mitchell & Best](#) | [Twitter](#) | [Facebook](#) | [YouTube](#)



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**From:** Annette Rosenblum [<mailto:arosenblum@marylandbuilders.org>]

**Sent:** Monday, November 14, 2016 12:54 PM

**Subject:** Final Effective Nov. 24 Removal of Requirement for Nitrogen BAT Systems Outside Critical Area & Proposed 2017 MDE Permit Turnaround Times

Environmental Committee:

The following November 14, 2016 MD Register items are attached:

- Adopted effective Nov. 24, 2016 MDE Regulation that removes the requirement that Best Available Technology for Removal of Nitrogen (BAT) systems be installed outside the Critical Area for all new construction. One change adds language that clarifies that local jurisdictions can require BAT outside Critical Area in order to protect public health or waters of the State.

- Proposed 2017 MDE Permit Application Turnaround Times are available for comment until December 11 to Andrew Gosden at [andrew.gosden@maryland.gov](mailto:andrew.gosden@maryland.gov). For comparison, also attached is the 2016 Proposal.

Annette

*Annette Rosenblum  
Director, Regulatory Affairs*

*Maryland Building Industry Association*

*11825 W. Market Place*

*Fulton, MD 20759*

*Phone: 301-776-6211*

*Cell: 240-678-8100*

*E-mail: arosenblum@marylandbuilders.org*



**Advocate I Educate I Network I Build**

*Tour and Networking Event at Two Rivers Clubhouse - Nov. 15*

*Hosted by the Professional Women in Building Council. Register here.*

*MBIA Awards of Excellence - Nov. 16*

*Featuring the Leadership Awards & the Land Development Council Awards of Excellence. Register here.*

*Anne Arundel Chapter Holiday Party - Dec. 8*

*Celebrate the Season and Help the AACO PAC. Register here.*

*Check out NAHB's Member Advantage Program at www.nahb.org/ma*

Gutschick, Little & Weber, P.A.  
3909 National Drive, Suite 250  
Burtonsville, MD 20866  
Office Phone: 301-421-4024  
Phone (Baltimore): 410-880-1820  
Phone (Northern VA): 301-989-2524  
Fax: 301-421-4186  
[www.glwpa.com](http://www.glwpa.com)

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## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Thursday, May 02, 2019 10:33 AM  
**To:** 'mtran@glwpa.com'  
**Subject:** BAT LPD\_Gaither's Chance\_Lot 10  
**Attachments:** BAT LPD Memo\_GLW\_Gaither's Chance Lot 10\_2019.pdf; septic specs.pdf; pc notes.pdf

Hi Mike Tran:

Attached, please find memo with comments about the septic plan for Gaither's Chance, Lot 10. Should you have any questions or concerns, please don't hesitate to contact me.

Respectfully,

Hank

Hank Oswald  
Licensed Environmental Health Specialist  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)

### CONFIDENTIALITY NOTICE

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

**MEMORANDUM**

**TO:** GLW, P.A.  
3909 National Drive, Suite 250  
Burtonsville, MD 20866

**FROM:** Hank Oswald, L.E.H.S.  
Well & Septic Program

**RE:** BAT (LPD) Plan  
Gaither's Chance, Lot 10

**Date:** May 2, 2019

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The septic plan for has been reviewed with the following comments:

- 1.) A BAT & LPD design is required on this lot (requires pump tank/chamber).
- 2.) Design septic system distribution trenches to be as shallow as possible (Pressure dosed systems shall have inverts at 18-24" depth unless deeper is required for site conditions).
- 3.) Show trenches on contour.
- 4.) Note: Septic specs included in this response.

FILE INQUIRY NOTES

Marshall Property Subdivision

DATE

RESULTS OF REVIEW FOR FILE

(5027 Ten Oaks Road)

ANY LOT

Design Septic System

Distribution Trenches

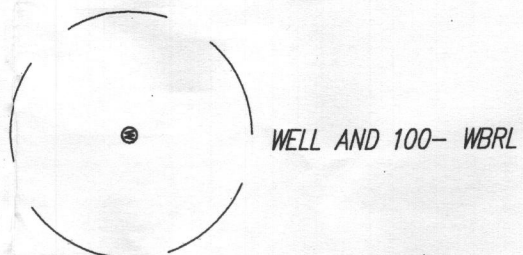
as shallow as possible

AND still have at least

3 drain fields in SDA.

req per Bert

SEPTIC EASEMENT



⊕ PASSED TEST PIT

⊕ FAILED TEST PIT


# VICINITY MAP

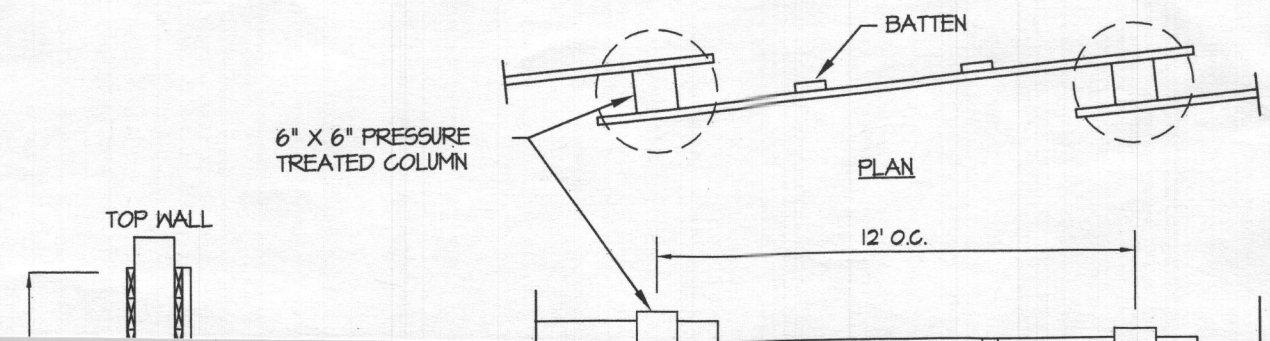
SCALE: 1" = 2,000'

BENCHMARKS			
28DA	ELEV. 564.382	N = 570,624.996	E = 1,314,434.172
28EC	ELEV. = 533.821	N = 570,757.386	E = 1,322,214.727

ADC MAP: 24 GRID: E5

## HEALTH DEPARTMENT NOTES

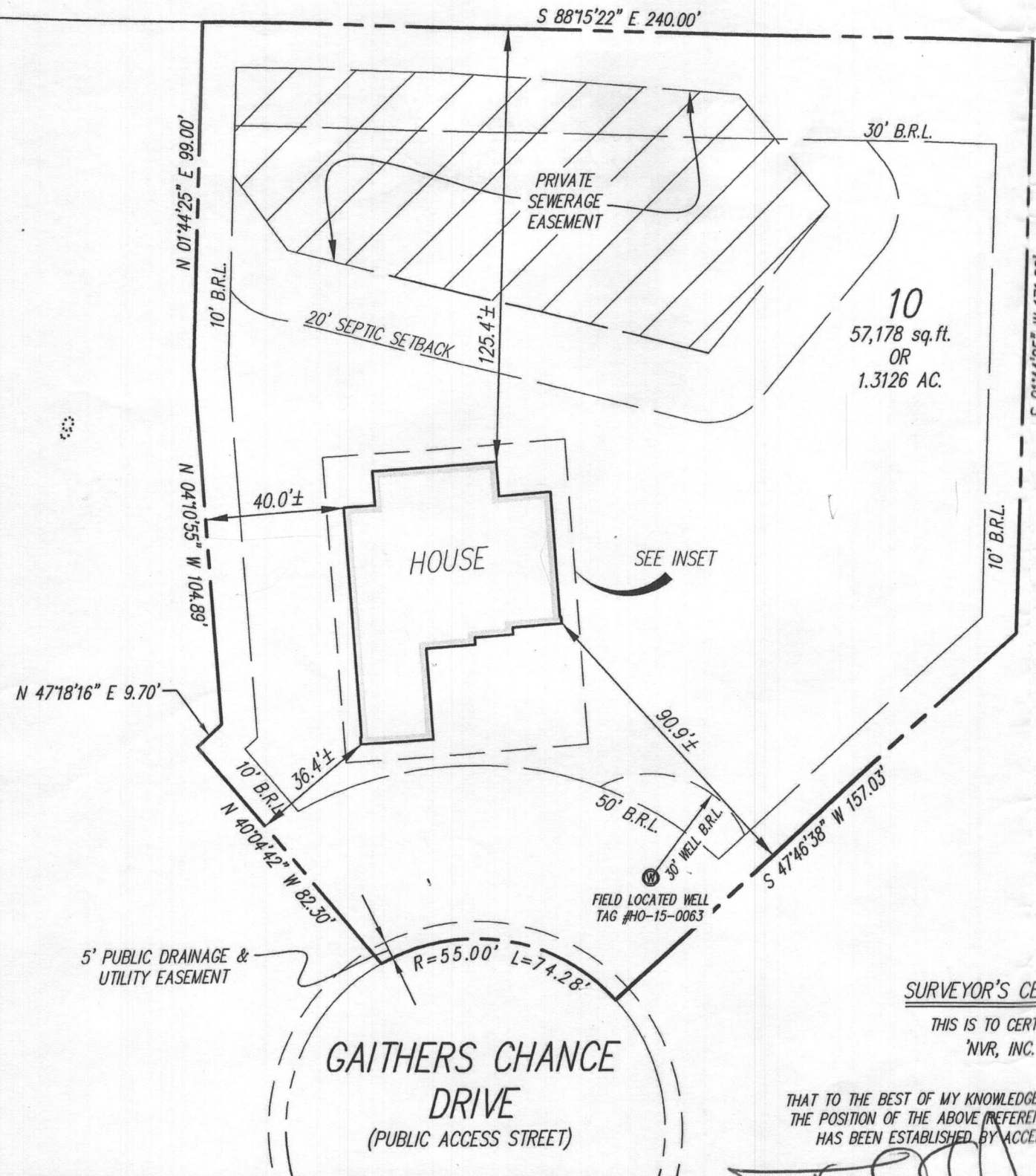
1. THE AREA SHOWN THUS:  DESIGNATES PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET PER INDIVIDUAL LOT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT AREAS. RECORDATION OF A MODIFIED SEWERAGE EASEMENTS SHALL NOT BE NECESSARY.
2. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
3. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT APPROVAL. IT IS THE DEVELOPER RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT. IF THE WELL SUCCESS RATE IS ACCOMPLISHED AT VARIOUS LOCATIONS WITHIN THE SITE, THE DEVELOPER SHALL HAVE THE OPTION TO REQUEST RELIEF FROM DRILLING THE REMAINING WELLS PRIOR TO PLAT RECORDATION.
4. SEE GENERAL NOTES 16 AND 18 FOR TOPOGRAPHY AND BOUNDARY INFORMATION
5. ALL EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
6. PROPERTY TABULATION:
  - A. TAX PARCEL 45
  - B. TOTAL ACREAGE: 57.83 Ac.
7. ALL BUILDINGS LABELED "TO BE REMOVED" WILL BE REMOVED PRIOR TO RECORD PLAT APPROVAL.
8. ALL EXISTING WELLS ON THE SUBJECT PROPERTY WILL BE PROPERLY ABANDONED AND SEALED BY LICENSED WELL DRILLER PRIOR TO RECORD PLAT APPROVAL OR BUILDING PERMIT APPROVAL.
9. THE SEPTIC SYSTEM SERVING THE EXISTING RESIDENCE ON PROPOSED PRESERVATION PARCEL 'A' MUST BE REPLACED, THEN PROPERLY ABANDONED PRIOR TO BUILDING PERMIT APPROVAL OR SUBMITTAL OF FINAL PLAT, WHICHEVER OCCURS FIRST.
10. GROUND WATER APPROPRIATIONS PERMIT HAS BEEN RELEASED BY MARYLAND DEPARTMENT OF THE ENVIRONMENT. ALL WELLS MUST BE DRILLED AND APPROVED PRIOR TO THE SUBMITTAL OF THE RECORD PLAT.
11. ALL LOTS ON THIS PLAN HAVE A PLAN LIMITATION OF 5-BEDROOMS UNLESS AN EXHIBIT PRESENTED BY A CERTIFIED PROFESSIONAL DEMONSTRATES THAT THE SEPTIC EASEMENT WILL ACCOMMODATE 3 DRAIN FIELDS FOR A RESIDENCE HAVING 6 BEDROOMS OR MORE.
12. MARYLAND DEPARTMENT OF ENVIRONMENT MAY REQUIRE SIMULTANEOUS YIELD TESTS DURING INSTALLATION OF WELLS HAVING LESS THAN 100 FEET HORIZONTAL SEPARATION.
13. DRILLED WELLS WILL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
14. THE MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS APPROVED WELLS DOWNGRADE OF SEWERAGE DISPOSAL AREAS IN THIS PROPOSED SUBDIVISION PURSUANT TO THE CONDITIONS STATED IN NOTES '15' AND '16' BELOW.
15. LOW-PRESSURE DISTRIBUTION (LPD) SYSTEMS WILL BE REQUIRED IN SEPTIC SYSTEM DRAINFIELDS ON ALL LOTS IN THIS SUBDIVISION.
16. WELLS INSTALLED ON LOTS '3', '5', '6', '7', '10', '11', '12', '13', '14', '17', AND ON PARCEL 'A' ARE TO HAVE STEEL CASING. THE WELLS' CASINGS ARE TO BE SET AT A MINIMUM OF 50 FEET DEPTH OR AT LEAST 10 FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER.
17. WELLS INITIALLY INSTALLED ON LOTS '1', '2', '8', '9', '10', '11', AND '18' ARE TO BE SAMPLED AT YIELD TEST FOR TOTAL DISSOLVED SOLIDS (TDS) AND NITRATE-NITROGEN (NO<sub>3</sub>-N).
18. INSTALLATION OF SEPTIC FIELDS AND WELLS WILL RESULT IN DAMAGE TO, OR DESTRUCTION OF NEARBY VEGETATION. SEVERAL SPECIMEN TREES ARE AMONG THE VEGETATION WHICH MAY BE DAMAGED DURING INSTALLATION ACTIVITIES ON LOTS 12 AND 13.



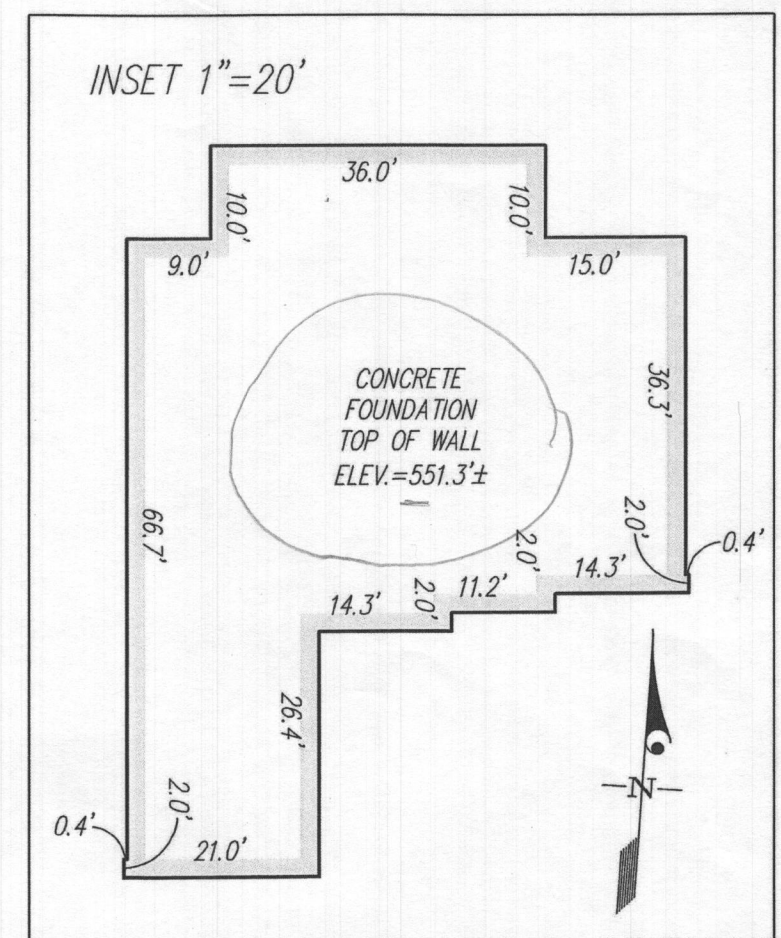
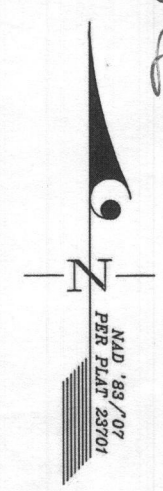
NOTES:  
 THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, MAP NUMBER 24027C0130D, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER PLOT/SEDIMENT CONTROL PLAN. SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ± 0.1 FOOT.



*Wall check ok*  
*7-20-19*



**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY TO:  
 'NVR, INC.'

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE POSITION OF THE ABOVE REFERENCED BUILDING FOUNDATION HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

*[Signature]* 7/24/2019  
 For Gutschick, Little and Weber, P.A. :  
 Thomas C. O'Connor, Jr.,  
 Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2020)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

**WALLCHECK (SPECIAL PURPOSE SURVEY)**

**GAITHER'S CHANCE**

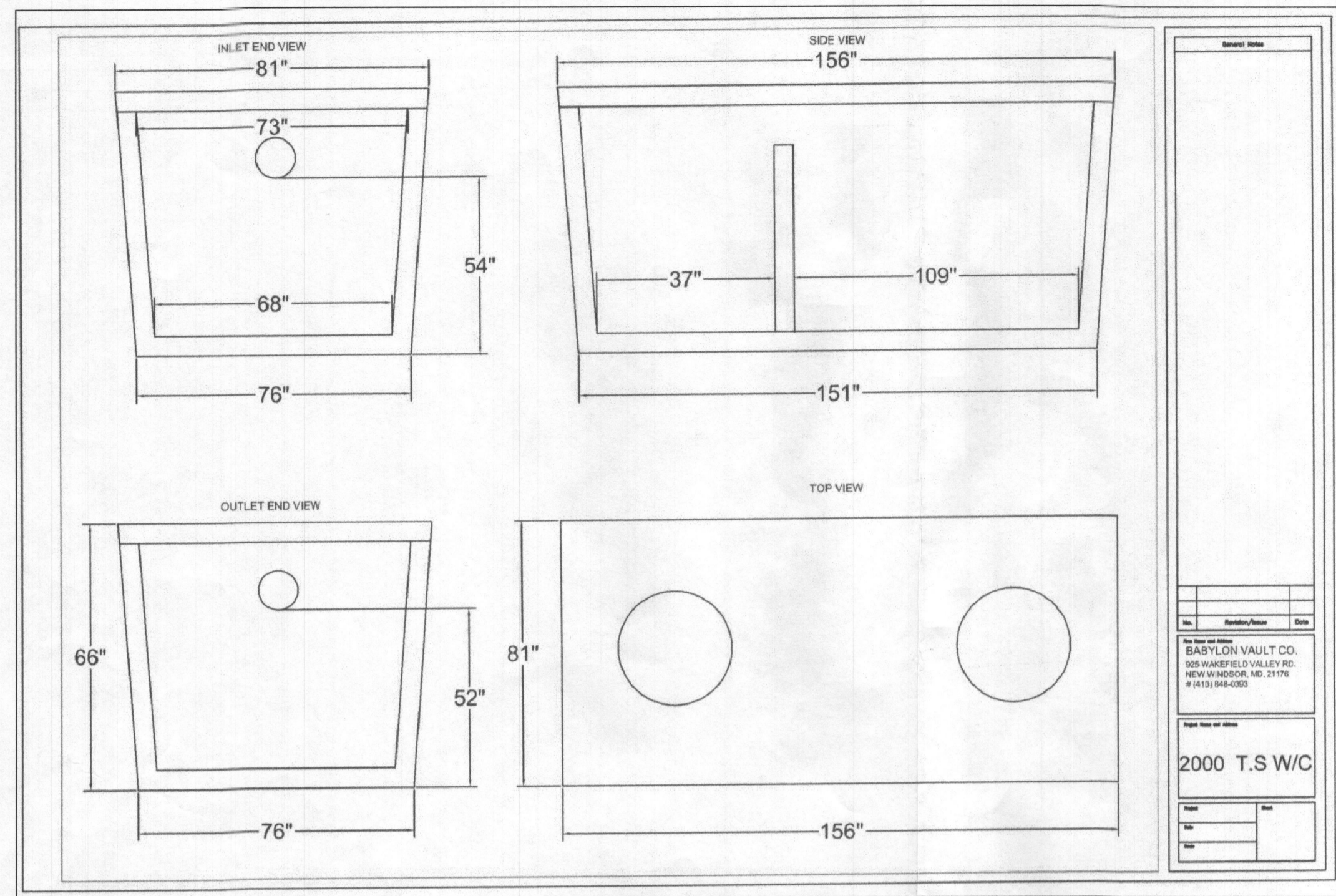
**LOT 10**

**5068 GAITHERS CHANCE DRIVE**

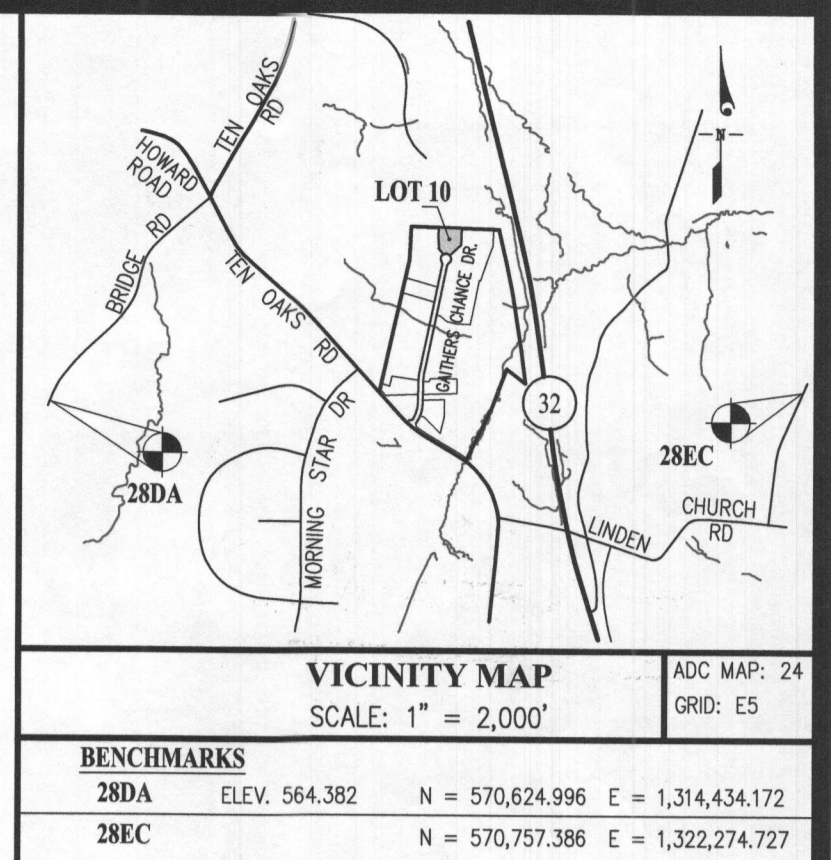
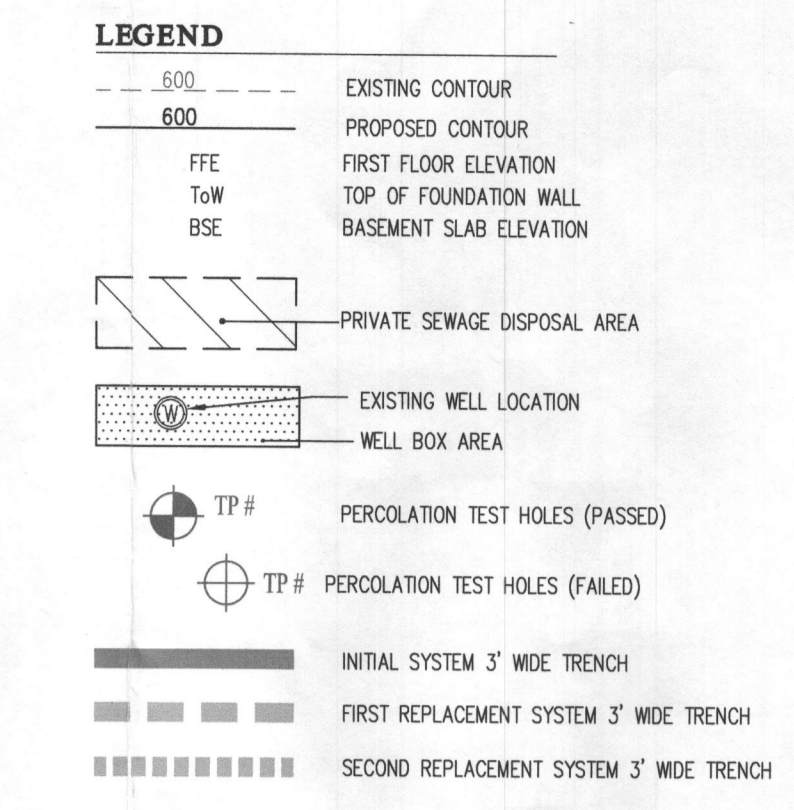
HOWARD COUNTY, MARYLAND	
DATE OF LATEST FIELD WORK: 07/24/2019	G.L.W. FILE No. 18-065
REFERENCE: PLAT BOOK: N/A	PLAT No. 23701
SCALE: 1"=40'	



DES.	PREPARED FOR: NVR, INC. 9720 PATUXENT WOODS DRIVE COLUMBIA, MD 21046
DRN. MB/SS	
CHK.	



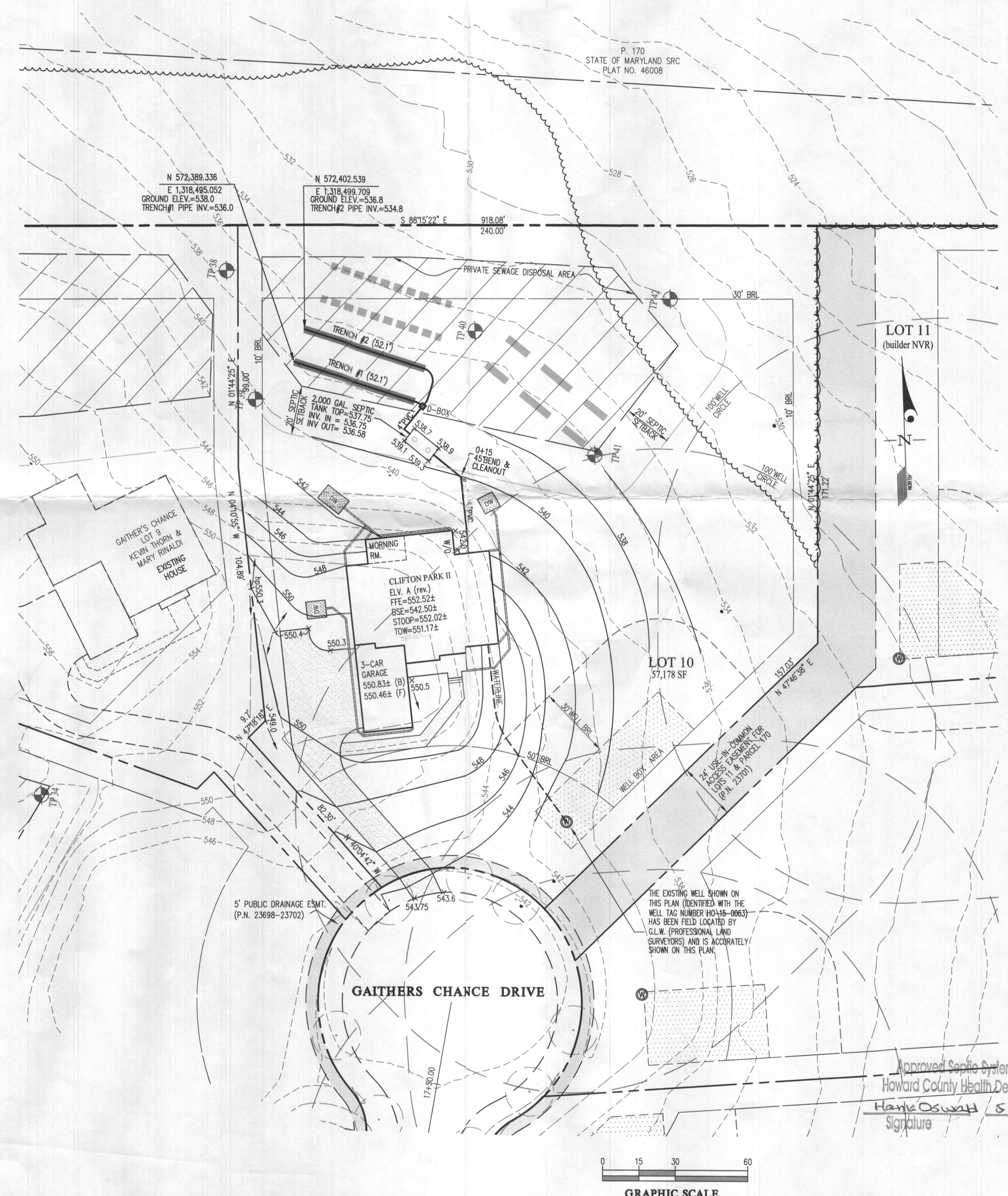
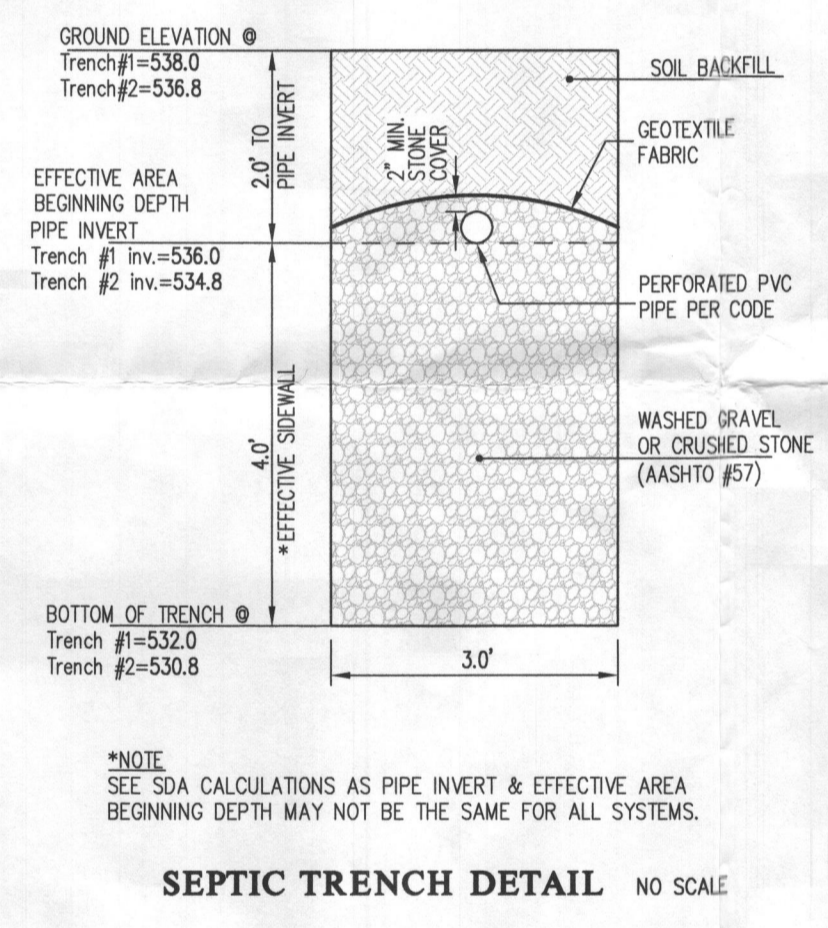
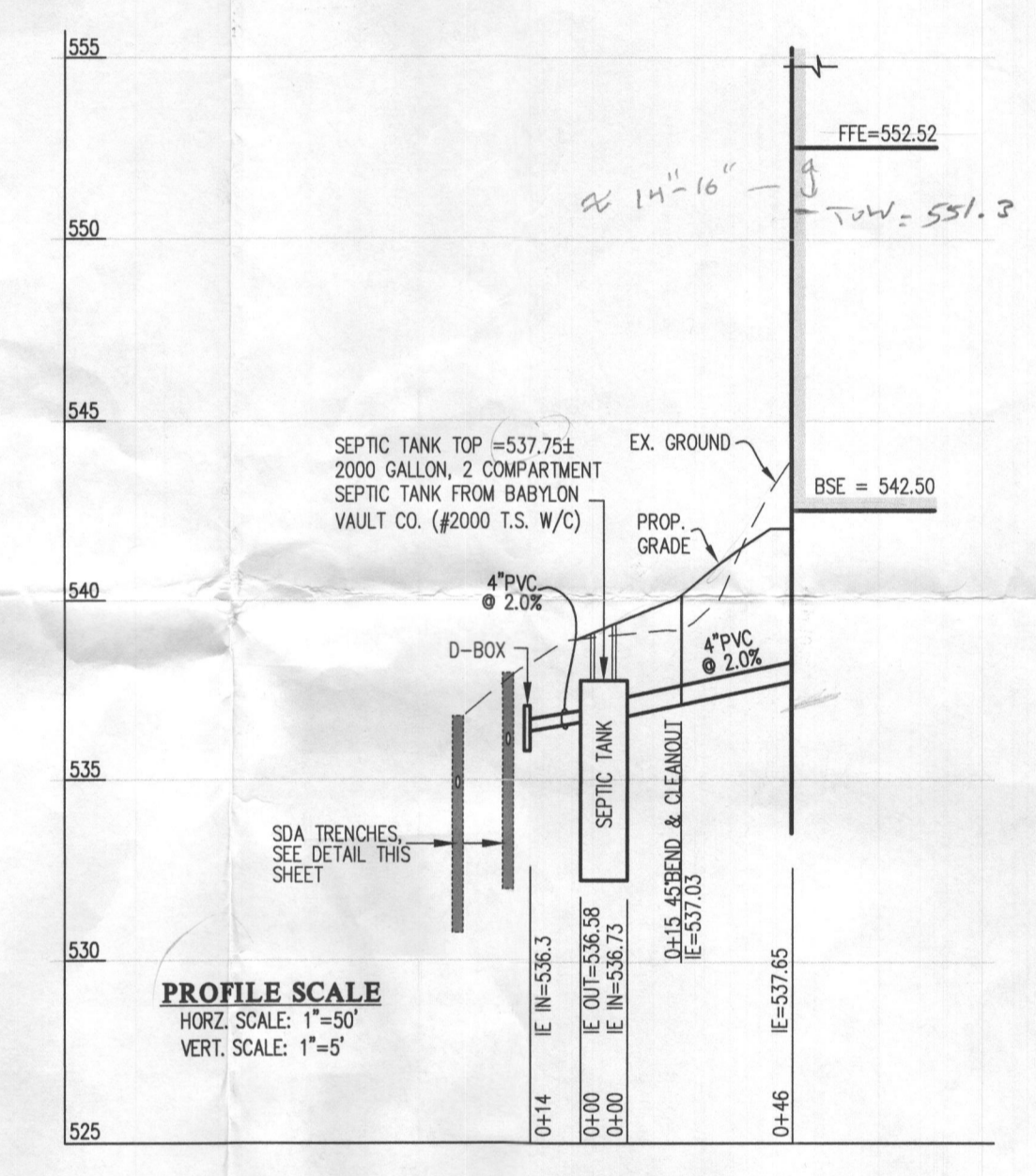
- NOTES:**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
  - THE EXISTING WELL (TAG #15-0069) HAS BEEN FIELD LOCATED BY GLW (PROFESSIONAL LAND SURVEYORS) AND IS ACCURATELY SHOWN ON THIS PLAN.
  - 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.



**SDA TRENCH SIZE CALCULATIONS**

GAITHER'S CHANCE	Lot 10		
System Input Information	Initial System	Replacem't System No.1	Replacem't System No.2
Application Rate	1.2	1.2	1.2
Effective area beginning depth	2	2	2
Effective area maximum bottom depth	6	6	6
Number of Bedrooms	6	6	6
Design flow at 150 gal./day/bedroom	900	900	900
<b>Absorption Trench Calculations</b>			
Drainfield area required (Design flow/application rate)	750	750	750
Effluent pipe depth to invert	2.0	2.0	2.0
Effective sidewall depth "D"	4	4	4
Trench Width "W" (2 or 3 feet)	3	3	3
Sidewall Reduction Percent = (W-2)/(W+1+2D)	41.67%	41.67%	41.67%
Linear feet of trench required = (drainfield area x sidewall reduction)/W	104.17	104.17	104.17
<b>Trench Layout Information</b>			
Approximate length available on contour & not exceeding 100-ft	100	100	100
Number of trenches to use	2	2	2
Min. length (linear feet)	52.1	52.1	52.1
Total (linear feet)	104.2	104.2	104.2
Minimum Trench Spacing:	11	11	11

For trenches with no sidewall credit the spacing is 6' for a 2' wide trench and 9' for a 3' wide trench (measured edge to edge). All trenches utilizing sidewall reduction credit must be spaced a min. of 10' for effective sidewall not over 3.5'. If >3.5', then spacing formula is 2D+W up to a maximum of 38'.



Approved Septic System Plan  
Howard County Health Department  
Hank Oswald 5/3/19  
Signature Date

**GLW**  
PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM  
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY:	DATE	REVISION	BY	APPR.
MBT				
DRAWN BY:				
KLP				
CHECKED BY:				
CKG				

PREPARED FOR:  
NVR INC  
9720 PATUXENT WOODS DRIVE  
COLUMBIA, MARYLAND 21045  
PH: 410-379-5956

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12875.

EXPIRATION DATE: MAY 28, 2020

4/25/19

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

**GAITHER'S CHANCE**  
LOT 10 (5058 Gaithers Chance Drive)  
PLAT NO. 23699

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 30'	RR-DEO	13070
DATE	TAX MAP - GRID	SHEET
APRIL 2019	28-8,9,14&15	1 OF 1