



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: 5/10/19

ONSITE SEWAGE DISPOSAL SYSTEM

P 565475

APPROVAL DATE: 07/02/2019

PERMIT: CONSTRUCTION

A

PROPERTY ADDRESS: 15081 Roxbury Road

SUBDIVISION: Chase Farm

LOT: 7

TAX ID: _____

CONTRACTOR: GARLAND

EMAIL: _____

CONTRACTOR ADDRESS: _____

PHONE: 301 370 5430

PROPERTY OWNER: Roxbury View, LLC

EMAIL: _____

OWNER ADDRESS: 14318 Roxbury Lake Drive

PHONE: _____

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: _____

PUMP MODEL: _____

PUMP SIZE _____

PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: ☐ GRAVITY ☐ PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>70 FT</u>	INLET DEPTH: <u>4 FT</u>
	TRENCH WIDTH: <u>3 FT</u>	MAXIMUM BOTTOM DEPTH: <u>8 FT</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10 FT</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.5 FT</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: 5/1/19

EXPIRATION DATE: 5/1/20

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

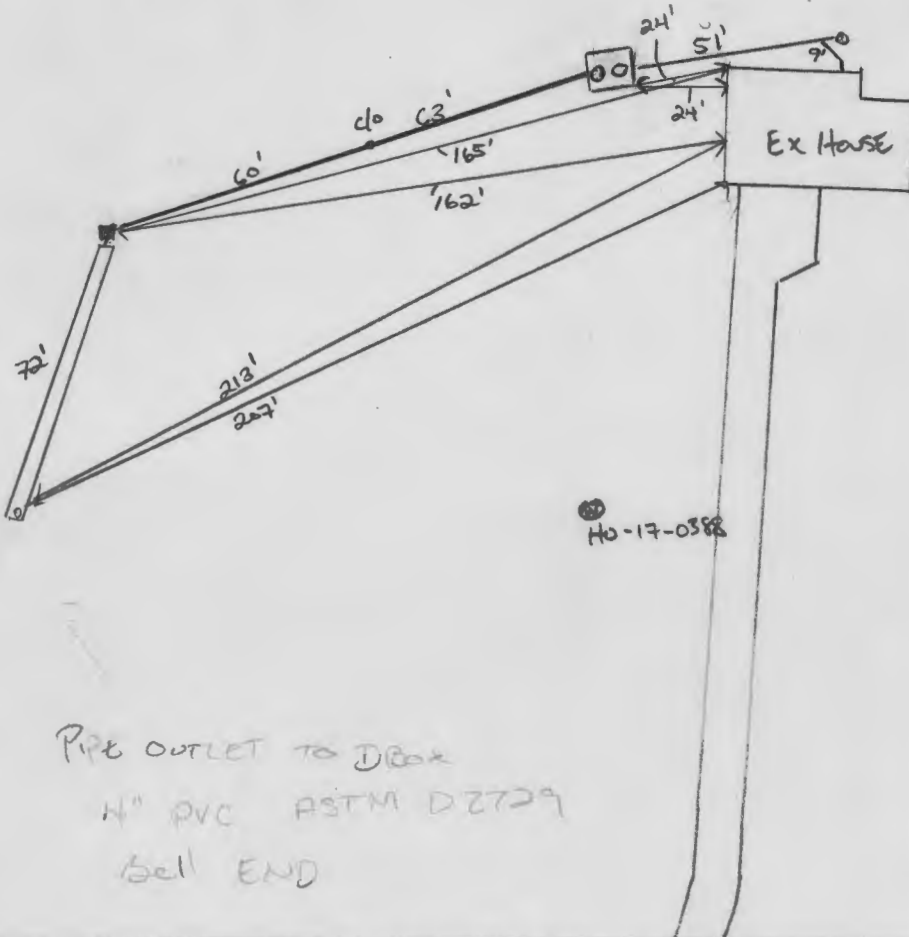
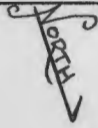
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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.

NOT TO SCALE



PPE OUTLET TO DBOX
4" PVC ASTM D2729
5' END

ROAD NAME
ROXBURY ROAD

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 4' BOTTOM 8'

NUMBER OF TRENCHES 1

TOTAL LENGTH 72'

ABSORPTION AREA 216 FT² + SIDE WALL

DISTRIBUTION BOX LEVEL N/A

DISTRIBUTION BOX BAFFLE BRICK INSECT

DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES

MANUFACTURER MAYER BROS

CAPACITY 1500 GAL

SEAM LOC TOP

TANK LID DEPTH 2'

BAFFLES YES

BAFFLE FILTER NO

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED 1" CENTER

DATE ON LID

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:

5/7/2019 SDA NOT STAKED. ONLY TRENCH STAKED. CHECKED
CONTOUR.

INSTALLATION: 5/7/2019 SHC NOT INSTALLED. TANK PIT EXCAVATED. TANK

TO ARRIVE THIS AFTERNOON 5/9/2019 TANK SET. C/A SLOT IS ONLY

1". MUST REPLACE 4" PVC ASTM D2729 WITH SCH 40 or

SCH 35 PVC OR COMPERABLE. C/A ADD DBOX BAFFLE. (+)

5/10/2019 OUTLET LINE FROM TANK TO D BOX REPLACED

W/ SCH 40. D BOX BAFFLE ADDED (BRICK). REINSP. SHC. (+)

7/2/2019 SHC INSPECTED. (+)

FINAL INSPECTOR

DATE OF APPROVAL

07/02/2019

Fax to: Howard County Health Dept.

410-313-2648

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

6095 Marshalee Drive
Suite 120
Elkridge, MD 21075
410-313-5850

=====

LR - Agreement Recording Fee		
	1x	20.00 20.00

Name: Dubbe
Ref: 40

LR - Agreement Surcharge

	1x	40.00 40.00
--	----	-------------

=====

SubTotal:	60.00
Total:	60.00

=====

REV-Check-BOA	60.00
Number : 1020	

09/23/2019 11:13 CC13-YW
#12745284/494/109
"Thank you for visiting us today"

This is the receipt of recordation among the Howard
County, Land Records of the:

" Agreement For Approval of an Individual Drinking Well with
an On-Site Treatment System "

For

15081 Roxbury Road
Glenely, MD 21737

Well Permit No: - H0-17-0388

LETTER OF TRANSMITTAL

☐ AGENCY ☐ CLIENT ☐ FILE ☐ ACCT. ☐ CORR. ☐ OTHER _____

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: Howard County Department of
Environmental Health
8930 Sanford Boulevard
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: April 17, 2019

PROJECT: Chase Farm, Lot 7

VMA#: b35383

ENCLOSED:

COPIES	DATE	DESCRIPTION
3	4/17/19	On Site Sewage Disposal System Design Plan Lot 7, Chase Farm

REMARKS: Good Day Hank, the plan submitted to reflect change in bedroom count.
Thank you for your review and approval.

COPIES TO (ADDRESS): Charles Sharp, 4003 Jennings Chapel Road, Brookville, Maryland 20833

SUBMITTED BY: dkv

g/engr/b35383 Revised hd submission lot 7 OSSDP rev sub 4.17.19

Oswald, Hank

From: Oswald, Hank
Sent: Monday, August 27, 2018 9:09 AM
To: 'Ron Thompson'
Subject: RE: Chase Farm Lot 7

Ron – Thanks. Once the well has been drilled, the OSDS Plan should be updated.

Hank

From: Ron Thompson [<mailto:ron@vanmar.com>]
Sent: Monday, August 27, 2018 8:08 AM
To: Oswald, Hank
Subject: RE: Chase Farm Lot 7

Hank: The well has not been drilled. I understand the builder discussed this with the Health Department. Once the corn has been harvested, the well will be drilled.

Ronald E. Thompson, PE
VANMAR ASSOCIATES
310 South Main Street
PO Box 328
Mount Airy, Maryland 21771
301-829-2890 (O)
443-421-2164 (C)
301-831-5603 (F)

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Friday, August 24, 2018 2:46 PM
To: Ron Thompson <ron@vanmar.com>
Subject: Chase Farm Lot 7

Hi Ron:

Attached, please find memo pertaining to the OSDS Plan for Chase Farm, Lot 7. I don't see a well tag # on the plan and I could not locate a completion report for this lot. Do you know if a well has been drilled on this lot?

Thanks,

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

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

TO: Vanmar Associates, Inc.
310 South Main Street

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

RE: OSDS Plan
Chase Farm, Lot 7

Date: August 24, 2018

The following comments pertain to the review of the OSDS Plan for Chase Farm, Lot 7:

- 1.) Correct elevations between well and SDA
- 2.) Correct reduction credit for 2nd replacement system (same as initial system)
- 3.) Delete site note #3 as it doesn't apply

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Monday, January 23, 2017 8:54 AM
To: 'TJ Frazier'
Subject: RE: Chase Farm F-16-100

I just saw the changes made to the plat. Unfortunately, the change you made to the title block made the confusion worse. The purpose statement says "to resubdivide lots 3 & 5 into lots 6-8" and the title block now says "lots 6 and 8, a resubdivision of lots 3 thru 5." So now we have one saying 3 & 5 and the other saying 3 thru 5 and one saying 6-8 and the other saying 6 and 8. We need both to match up and be accurate according to what's actually happening, which I know is creating 6-8 (since lot 7 is on there), but I don't know if lot 4 is involved to make 3&5 or 3-5 the accurate statement.

From: TJ Frazier [<mailto:tj@vanmar.com>]
Sent: Friday, January 13, 2017 3:27 PM
To: Williams, Jeffrey
Subject: Re: Chase Farm F-16-100

Jeff,

I'm not going to make it today. I will be down Tuesday afternoon.
Thanks,

TJ

TJ Frazier, LS
Sr. Land Surveyor
VanMar Associates, Inc.

----- Original message-----

From: Williams, Jeffrey
Date: Wed, Jan 11, 2017 9:59 AM
To: TJ Frazier;
Cc: Ron Thompson;
Subject: RE: Chase Farm F-16-100

Yes. We have the mylars here. I will leave at the front counter. You can make the changes here if you like.

From: TJ Frazier [<mailto:tj@vanmar.com>]
Sent: Tuesday, January 10, 2017 1:44 PM
To: Williams, Jeffrey
Cc: Ron Thompson
Subject: FW: Chase Farm F-16-100

Jeff,

Do you have the mylar there? Are we able to pickup the mylar and make the changes? Seems like small stuff we can take care of pretty quickly.

Thanks,

TJ

TJ Frazier, LS

Sr. Land Surveyor
VanMar Associates, Inc.
310 S. Main St.
Mt. Airy, MD 21771
(o) 301-829-2890
(f) 301-831-5603

From: Ron Thompson
Sent: Tuesday, January 10, 2017 1:30 PM
To: TJ Frazier <tj@vanmar.com>
Subject: FW: Chase Farm F-16-100

Please review and let me know.

Ronald E. Thompson, PE
VANMAR ASSOCIATES
310 South Main Street
PO Box 328
Mount Airy, Maryland 21771
301-829-2890 (O)
443-421-2164 (C)
301-831-5603 (F)

From: Williams, Jeffrey [<mailto:jeffwilliams@howardcountymd.gov>]
Sent: Tuesday, January 10, 2017 1:10 PM
To: Ron Thompson <ron@vanmar.com>
Subject: Chase Farm F-16-100

Hi Ron. I don't have an email for Thomas Frazier, who signed the plat (Chase Farm F-16-100) for VanMar, but we need a couple little revisions.

- Note 3 regarding the sewage disposal area has a typo: the last sentence states "Recordation of a revised sewage disposal area shall be necessary." It should state ...shall *not* be necessary." I think this has come up before. Maybe check to make sure you guys have it correct in a template of notes that you use.
- The purpose statement and the title block are contradictory. The purpose statement says a resubdivision of lots 3 & 5 and the title states a resubdivision of lots 3-5.
- We came to an agreement with the owner to not drill a well on lot 7, but for that we need a note on the plat stating "A well must be drilled and approved by the Health Department prior to Health approval of a building permit for lot 7."

We can probably handle this by marking up the existing mylar. Let me know. Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jeffwilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

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Williams, Jeffrey

From: Williams, Jeffrey
Sent: Tuesday, January 10, 2017 1:10 PM
To: ron@vanmar.com
Subject: Chase Farm F-16-100

Hi Ron. I don't have an email for Thomas Frazier, who signed the plat (Chase Farm F-16-100) for VanMar, but we need a couple little revisions.

- Note 3 regarding the sewage disposal area has a typo: the last sentence states "Recordation of a revised sewage disposal area shall be necessary." It should state ...shall *not* be necessary." I think this has come up before. Maybe check to make sure you guys have it correct in a template of notes that you use.
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Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

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F-16-100

File Name	Markup Name	Markup Text	Markup Date	Created by
F-16-100 Final Plat Sheet 1 of 2.dwf	Jeff- Health	Note 1 is partially cut off. Make sure it is fully legible on final version.	05/20/2016	Jeff Williams
F-16-100 Final Plat Sheet 1 of 2.dwf	Jeff- Health	Add the following note: "The Health Department must conduct and approve confirmatory soil testing for the sewage disposal area north of the gas pipeline easement on lot 6 prior to Health approval of any building permit utilizing that area. That portion of the lot will be considered non-buildable by the Health Department until those tests are approved or a new area is established on that side of the easement."	05/20/2016	Jeff Williams
F-16-100 Supp Plan Sheet 1 of 4.dwf	Jeff- Health		05/20/2016	Jeff Williams
F-16-100 Supp Plan Sheet 1 of 4.dwf	Jeff- Health	Relabel this area a Sewage Disposal Area, not a Septic Easement.	05/20/2016	Jeff Williams

File No. F-16-100
Chase Farm

DEPARTMENT OF PLANNING AND ZONING
FINAL PLAT ORIGINAL FOR SIGNATURE APPROVAL

This form is for the processing of originals for signature approvals. If corrections or additions must be made to the original, the corrections needed must be identified in the space provided and the plans must be returned unsigned to the Department of Planning and Zoning. DPZ will notify the owner of the required revisions and request that the owner's engineer make the corrections or contact the appropriate County agency with questions concerning such revisions.

DPZ

Brenda Lubber

Reviewing Agent

Date Received

12/8/16

Date Forwarded

12/12/16

Rejected For: Need M1HU documents.

①

HEALTH

Dana Bevard

Reviewing Agent

Date Received

12-16-16

Date Forwarded

Rejected For: _____

②

DED

NICOLE VAN

Reviewing Agent

Date Received

12/13/2016

Date Forwarded

12/14/16

Rejected For: _____

③

DM, RWS
Chief, DED

Reviewing Agent

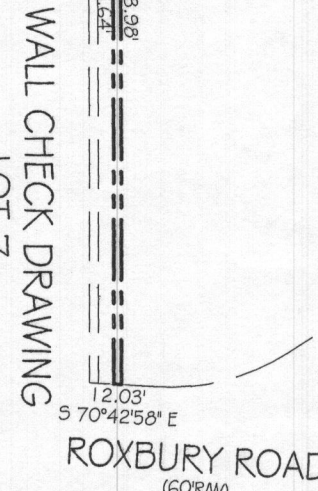
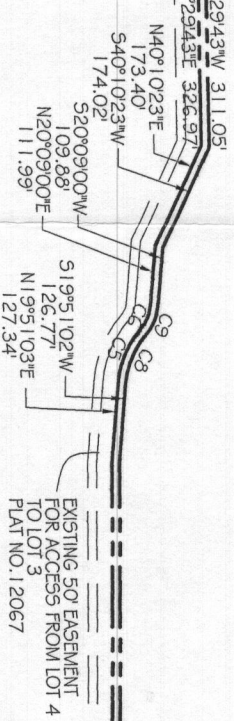
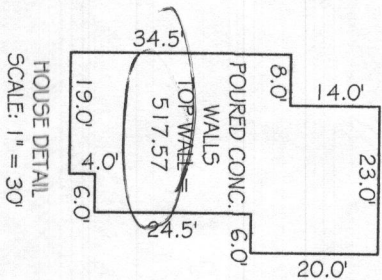
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Date Forwarded

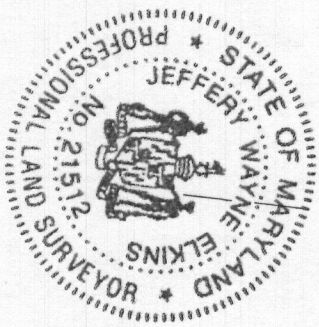
Rejected For: _____

CURVE DATA						
C5	151.59'	108.48'	41°00'01"	S40°50'59"W	106.18'	56.68'
C6	13.00'	9.35'	41°12'00"	S40°45'00"W	9.15'	4.89'
C7	730.33'	137.90'	10°49'08"	N40°47'35"E	137.70'	69.16'
C8	25.00'	17.98'	41°12'00"	N40°45'00"E	17.59'	9.40'
C9	139.59'	99.89'	41°00'01"	N40°50'59"E	97.77'	52.19'

NOTES:
 1. FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
 2. TOP OF WALL = 517.57
 3. BUILDING TIES ARE ±0.5' UNLESS OTHERWISE SHOWN.



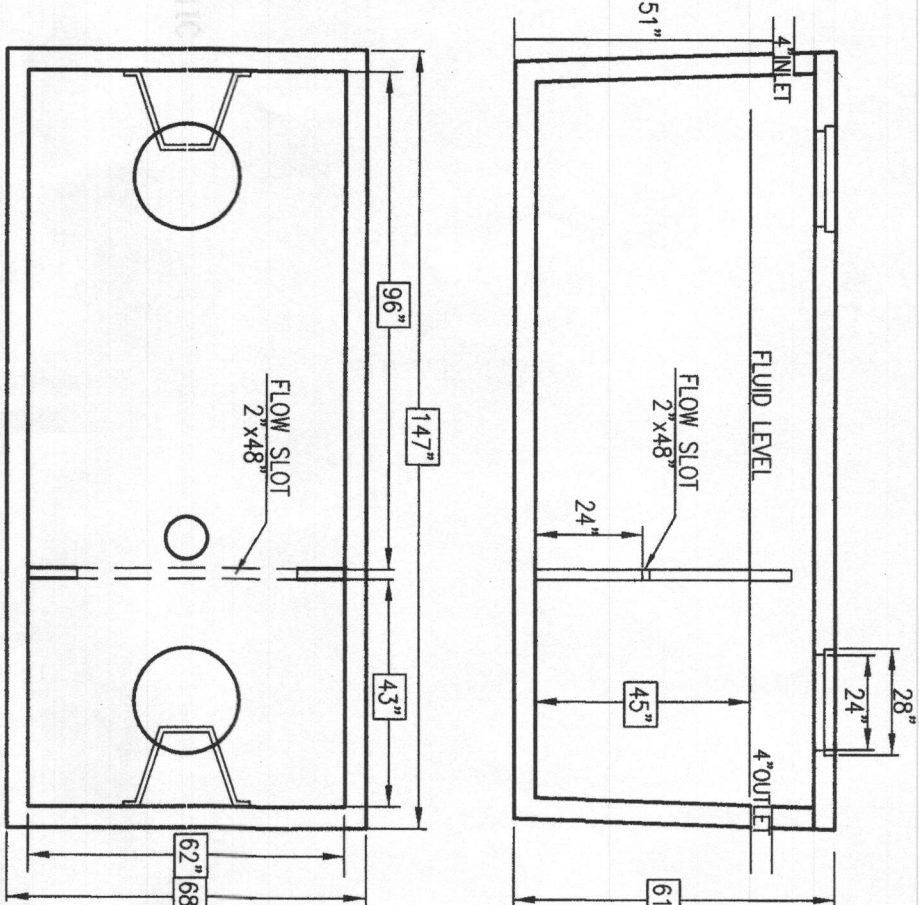
5/6/19
well check
Approved
(KMD)



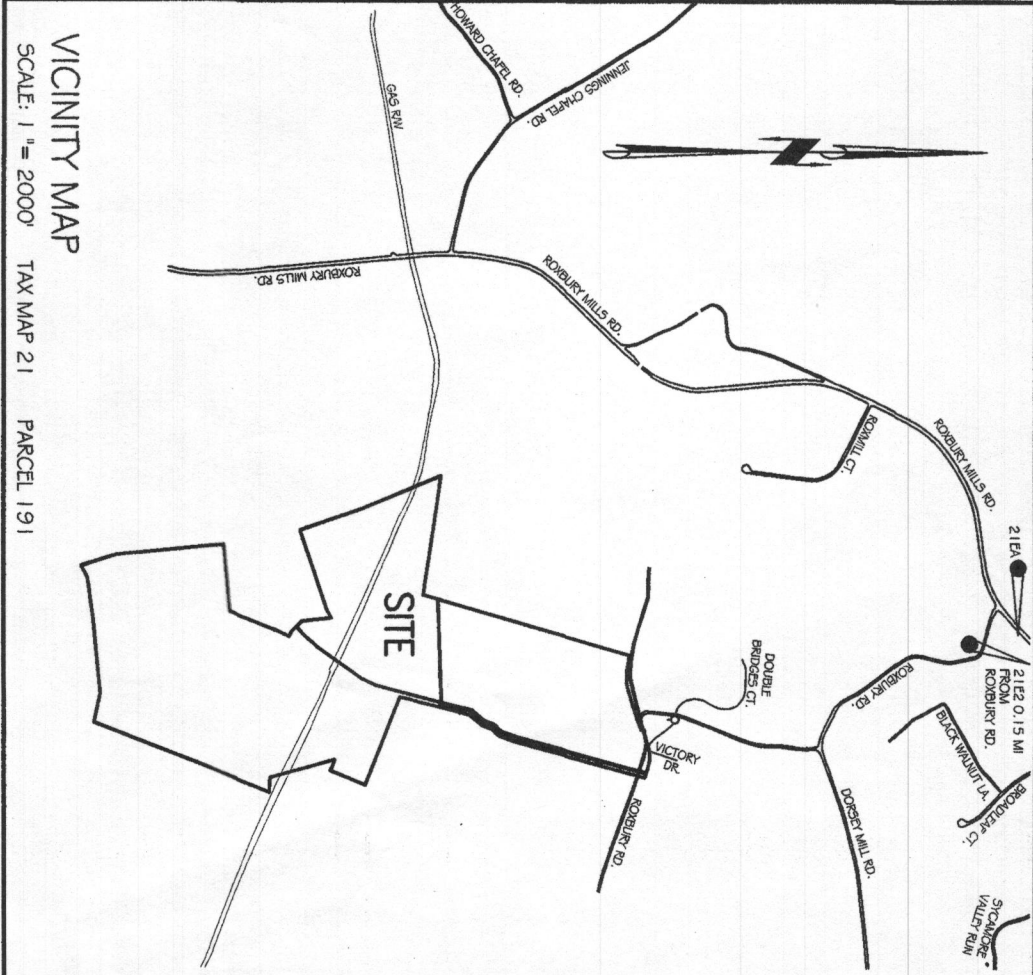
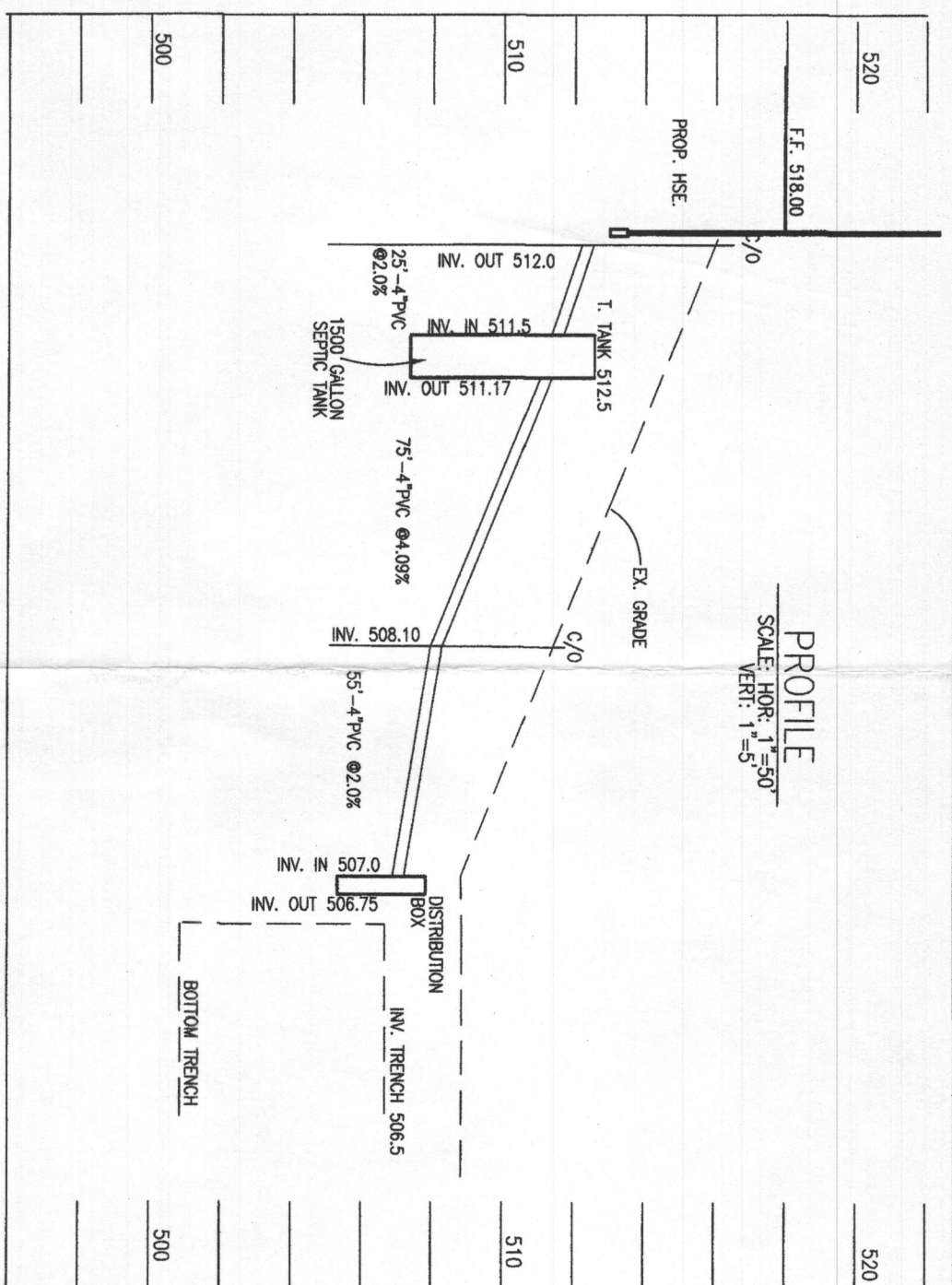
PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21512, EXPIRATION DATE AUGUST 4, 2019, IN ACCORDANCE WITH COMAR 09.13.06.12.
Jeffery W. Elkins 5/3/2019
 For VanMar Associates, Inc.
 Jeffery W. Elkins, Prof. Land Surveyor

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 549-2751
 © Copyright, Latest Date Shown

CURVE DATA	CURVE BEARING	CURVE LENGTH	TANGENT
C5	151.59°	108.48'	54.0559W
C6	13.00°	9.35'	54.045000W
C7	730.33°	137.90'	10.9490S
C8	25.00°	17.39'	N40.4735E
C9	139.59°	99.89'	N40.4500E
			17.59'
			9.40'
			52.19'



1500 GALLON
2-COMPARTMENT SEPTIC TANK
N.T.S.



- GENERAL NOTES:
1. TOPOGRAPHY & PLANNING FEATURES SHOWN HEREON TAKEN FROM APPROPRIATE SOURCES. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
 2. LIMIT OF DISTURBANCE (LOD) = 24,800 SQ. FT.
 3. STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY N-1 ROOFTOP DISCONNECT AND N-2 NON-ROOFTOP DISCONNECT.

SEPTIC SYSTEM TRENCH DESIGN

INITIAL NUMBER OF BEDROOMS = 3
APPLICATION RATE = 12 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 3 BEDROOMS = 450 GPD
450 GPD / 1.2 GPD/sq.ft. = 375 sq.ft.
125 LF TRENCH X 0.56 REDUCTION CREDIT = 70 LF TRENCH
TRENCH 1-1 EX. GRD=509.0 - INV. TRENCH=506.5 - B. TRENCH=501.0

1st REPLACEMENT
APPLICATION RATE = 12 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 3 BEDROOMS = 450 GPD
450 GPD / 1.2 GPD/sq.ft. = 375 sq.ft.
125 LF TRENCH X 0.56 REDUCTION CREDIT = 70 LF TRENCH
TRENCH 2-1 EX. GRD=507.5 - INV. TRENCH=506.0 - B. TRENCH=499.5

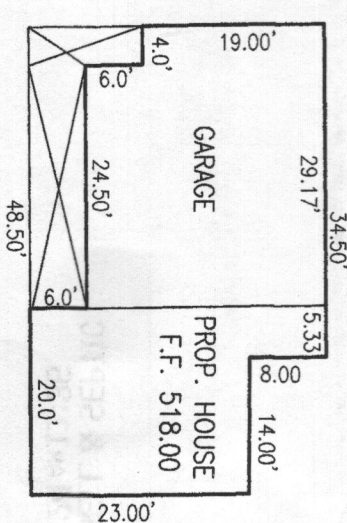
2nd REPLACEMENT
APPLICATION RATE = 12 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 3 BEDROOMS = 450 GPD
450 GPD / 1.2 GPD/sq.ft. = 375 sq.ft.
125 LF TRENCH X 0.56 REDUCTION CREDIT = 70 LF TRENCH
TRENCH 3-1 EX. GRD=506.5 - INV. TRENCH=504.0 - B. TRENCH=498.5

SITE PLAN NOTES:

1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENT MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVERSED SITE PLAN MAY BE REQUIRED.
2. MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL (ING PHO-17-0388) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY LINE MUST BE FIELD LOCATED AND SHOWN. THE PRESENCE OF ANY FIELDS OR OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

Approved Septic System
Howard County Health Dept.
Signature: [Signature]
Date: 11/14

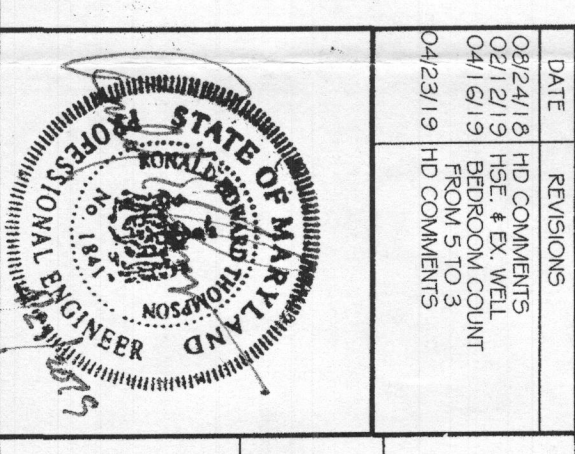
OWNER:
ROXBURY VIEW, LLC
1500 RIVERVIEW DRIVE
GREENBELT, MARYLAND 21737
301-807-7903



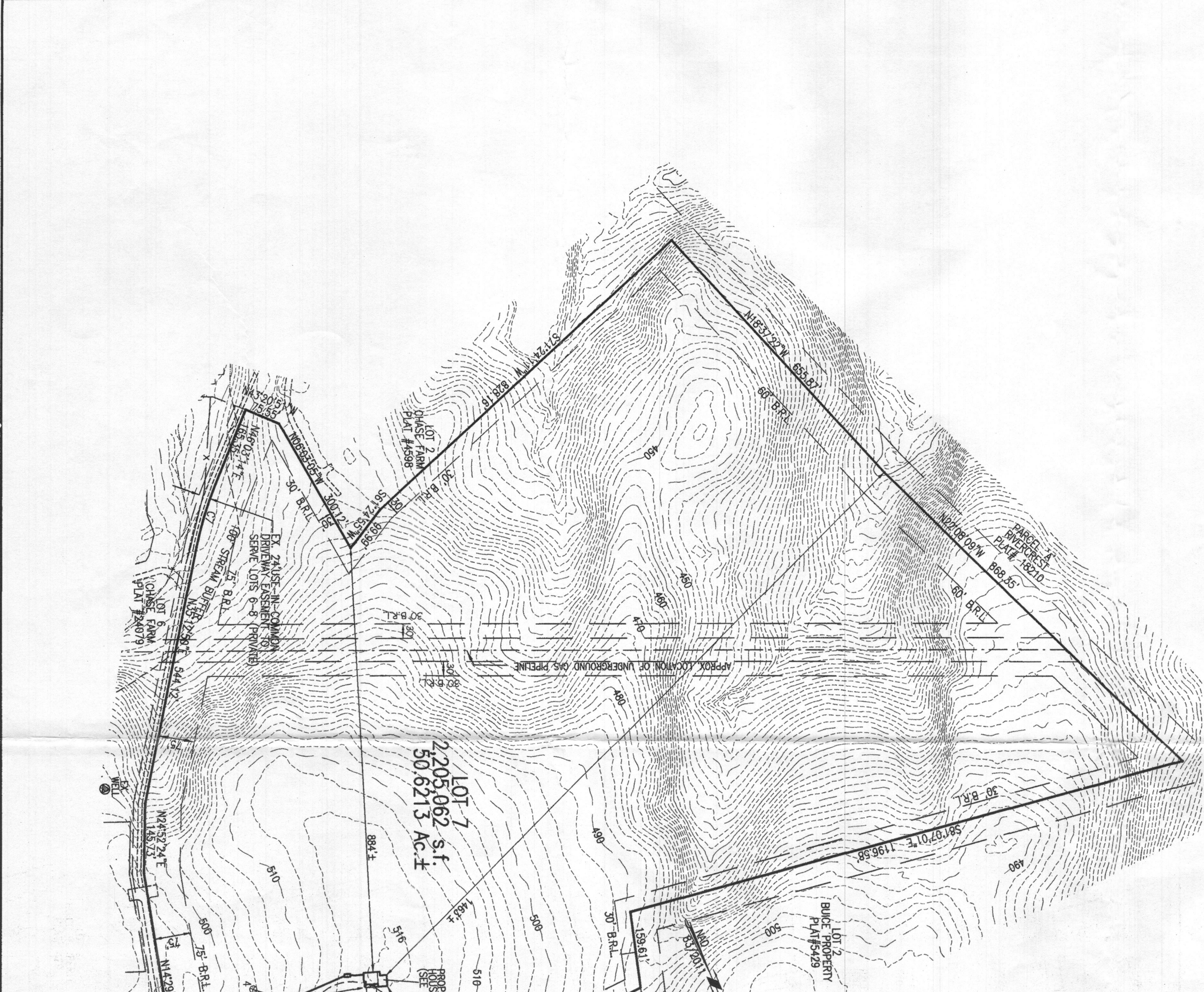
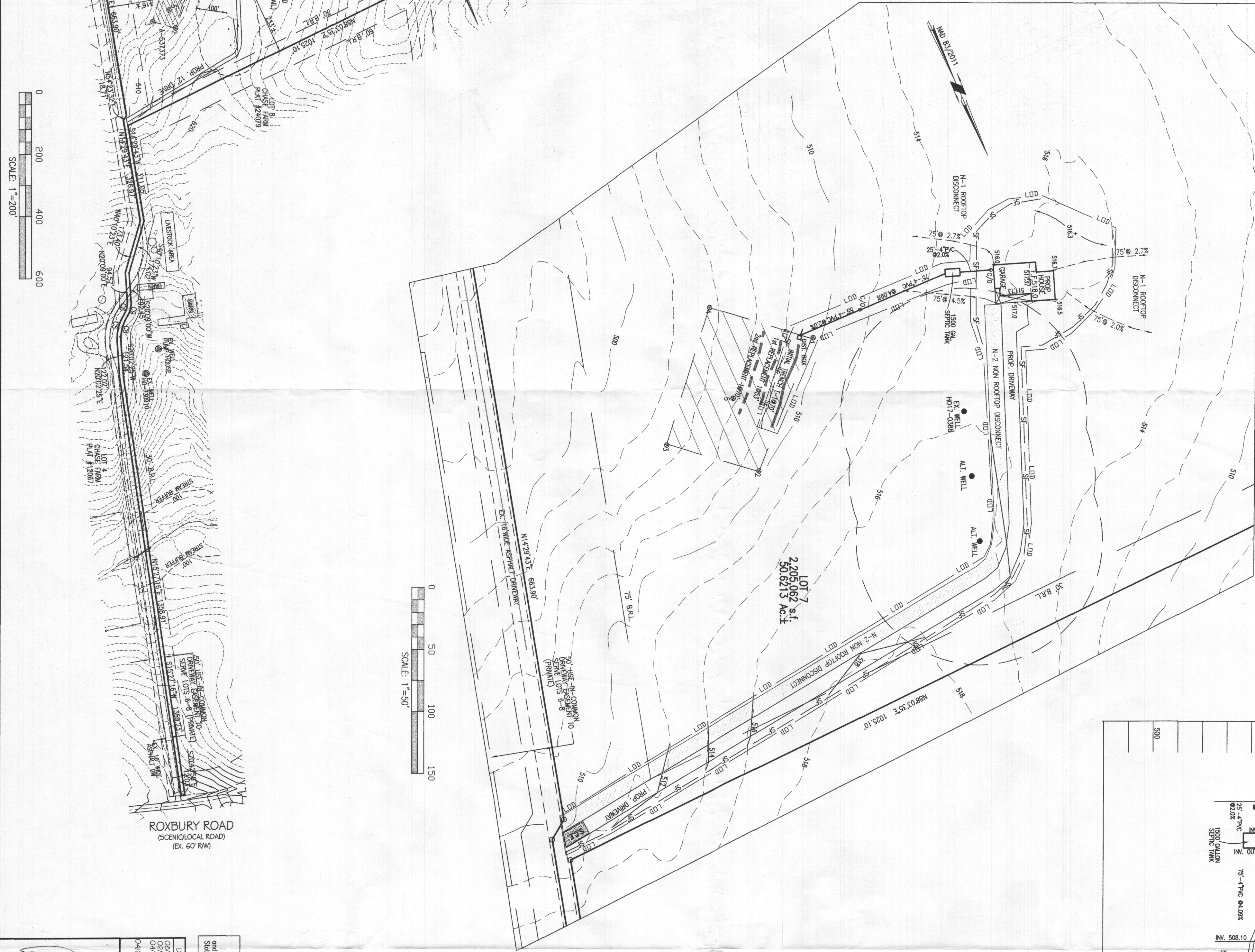
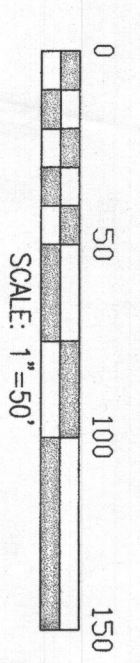
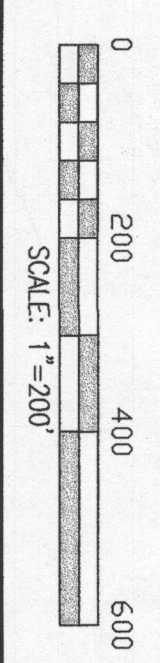
PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland, License No. 18417, Expiration Date 8-18-18.

ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 7
CHASE FARM
PLAT #24079

TAX MAP: 21
GRID NO.: 21
PARCEL NO.: 191
ELECTION DISTRICT: No. 4
HOWARD COUNTY, MARYLAND
EX. ZONING: RC-DEO
SCALE: AS SHOWN
DATE: AUGUST 2016
SHEET 1 OF 1



VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 823-2890 (301) 831-5015 (410) 549-2751
Vanmar.com Fox (301) 831-5603 ©Copyright, Latest Date Shown



LETTER OF TRANSMITTAL

☐ AGENCY ☐ CLIENT ☐ FILE ☐ ACCT. ☐ CORR. ☐ OTHER

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
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410-549-2751 (FAX) 301-831-5603

TO: Howard County Department of
Environmental Health
8930 Stanford Boulevard
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: August 21, 2018

PROJECT: Chase Farm, Lot 7

VMA#: b35383

COUNTY#:

ENCLOSED:

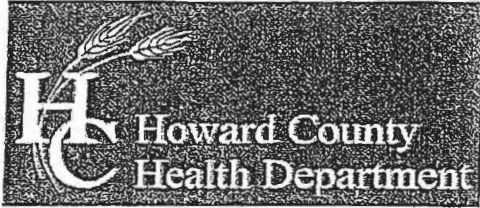
COPIES	DATE	DESCRIPTION
3	8/21/18	On Site Sewage Disposal System Design Plan, Lot 7, Chase Farm
3	8/21/18	Plot Plan & Sediment Control Plan, Lot 7, Chase Farm

REMARKS: Hi Hank, plans submitted for Septic Permit. Thank you!

COPIES TO (ADDRESS): Roxbury View LLC, 14318 Roxbury Lake Drive, Glenelg, Maryland 21737 % Dean Dubbe'

SUBMITTED BY: dkv

g\engr\b35383 dubbe, hd initial submission 8.21.18



Bureau of Environmental Health

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 15081 ROXBURY ROAD

Subdivision: CHASE FARM

Lot: 7

Initial system: Application rate: 1.2 Effective area beginning depth: 5.5 Bottom maximum depth: 8

1st Replacement: Application rate: 1.2 Effective area beginning depth: 4 Bottom maximum depth: 8

2nd Replacement: Application rate: 1.2 Effective area beginning depth: 4 Bottom maximum depth: 6.5

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is $2D + W$ up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

Approved: Hank Oswald Date: 8.9.18