



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: 8-3-18

ONSITE SEWAGE DISPOSAL SYSTEM

P 563971

APPROVAL DATE: 11/8/18 SEC

PERMIT: CONSTRUCTION

A

PROPERTY ADDRESS: 1680 Woodstock Road

SUBDIVISION: _____

LOT: _____

TAX ID: _____

CONTRACTOR: Fogle's Septic Clean Inc.

EMAIL: kim@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784

PHONE: 410-795-5670

PROPERTY OWNER: Maria Aliprande & Press Palmer

EMAIL: _____

OWNER ADDRESS: 10625 Hillingdon Road Suite 1, Woodstock, MD 21163

PHONE: _____

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: _____

PUMP MODEL: N/A

PUMP SIZE: _____

PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐

PRESSURE DOSED

BEDROOMS: 4

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>75</u>	INLET DEPTH: <u>3.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Use 2x59' trenches 1x75' TRENCH. USE LASER TO KEEP TRENCH BOTTOM LEVEL THROUGH SWALE.	

ISSUED BY: Hank Oswald

ISSUE DATE: 8-3-18

EXPIRATION DATE: 8-3-19

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

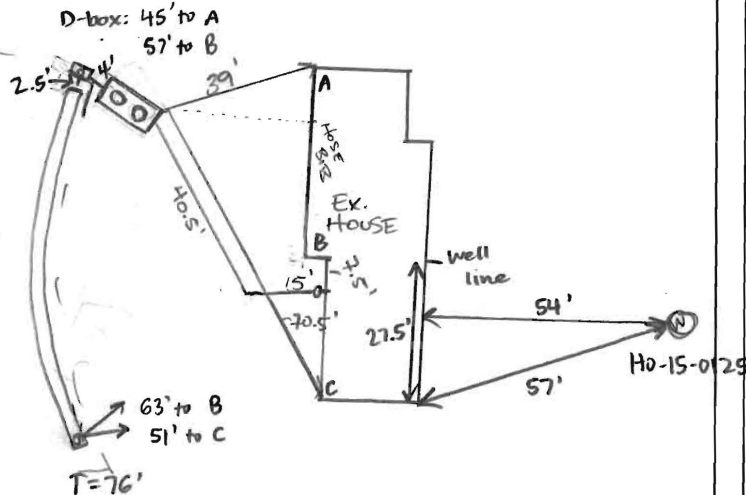
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3.5'	7'
NUMBER OF TRENCHES	1	
TOTAL LENGTH	76'	
ABSORPTION AREA	228' + SIDEWALL	
DISTRIBUTION BOX LEVEL	YES	
DISTRIBUTION BOX BAFFLE	YES	
DISTRIBUTION BOX PORT	YES	

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5' - 4' (10)
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	INLET NONE
WATERTIGHT TEST	N/A
SLOTTED	YES
DATE ON LID	7/3/18

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	

* SOLVENT WELDED IPS SCH 40 ASTM F891-10 4" PVC
ROAD NAME

PRE-CONSTRUCTION:

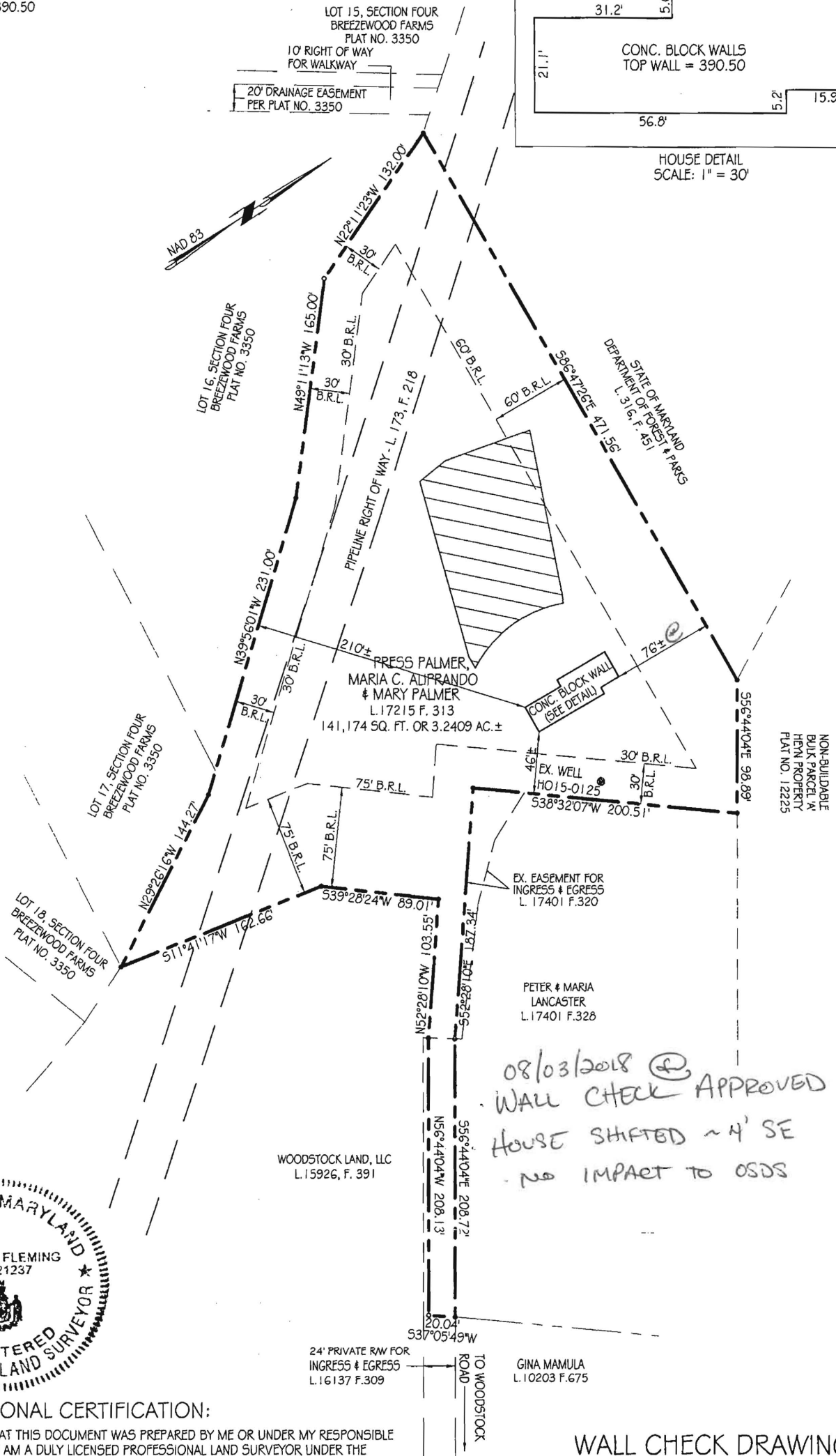
08/03/2018 SDA AND TANK LOCATION STAKED. SHC OUT OF HOUSE WAS DISCOVERED TO HAVE BEEN MOVED CLOSER TO DRIVE WAY IN HOUSE BACK MIDDLE. HOUSE IS 1' HIGHER. TRENCH LAYOUT CLOSE TO TOP OF SDA TO GET OUT OF SWALE IN MIDDLE OF SDA. CONTACT BUILDER FOR GRADE DETAIL. (C)

INSTALLATION: 08/06/2018 TANK SET. HAS T.B. LID. INSTALLED SHC AND SEWER

LINE FROM HOUSE TO TANK. 8/7/18 Trench complete + left open for inspection. 3' wide, 3' to stone. Fogle's said they used a laser to check depths. Start of trench 2.5' off tank. Need grading to fill in swale in SDA prior to final approval of permit. (C) 11/8/18 On site to see if swale in SDA was filled in. Swale is still there - contour is not as shown on plan and future replacement septic trenches will need to be installed to avoid swale. (C)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 11/8/18

- NOTES:
- 1) FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
 - 2) BUILDING TIES ARE $\pm 0.5'$ UNLESS OTHERWISE NOTED.
 - 3) TOP OF WALL = 390.50



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. 21237, EXPIRATION DATE JANUARY 18, 2019, IN ACCORDANCE WITH COMAR 09.13.06.12.

James A. Fleming
For VanMar Associates, Inc.
James Alden Fleming, Prof. Land Surveyor

3-8-2018
Date

I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.

REFERENCE

L. 17215, F. 315

JOB NO.

B7-5620



VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners

310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
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Clerk of the Circuit Court for
Howard County
Land Records/Licensing

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

LR - Agreement Recording Fee
1x 20.00 20.00
Name: ALIPRANDO & PALMER
Ref: 52

LR - Agreement Surcharge
1x 40.00 40.00

SubTotal: 60.00
Total: 60.00

CRD-Credit
Credit Card Confirmation : 07978B 60.00

01/09/2019 13:10
#11501202/497/109

CC13-MM
Thank you for visiting us today~

CIRCUIT COURT FOR HOWA
8360 COURT AVENUE
ELLCOTT CITY, MD 21043

01/09/2019

13:09:32

CREDIT CARD

VISA SALE

Card # XXXXXXXXXXXX6456
Chip Card: CAPITAL ONE VISA
AID: A0000000031010
ATC: 012E
ARQC: 4DD75AD9A8261F68
SEQ #: 4
Batch #: 610
INVOICE 4
CLERK 0005
Approval Code: 07978B
Entry Method: Chip Read
Mode: Issuer

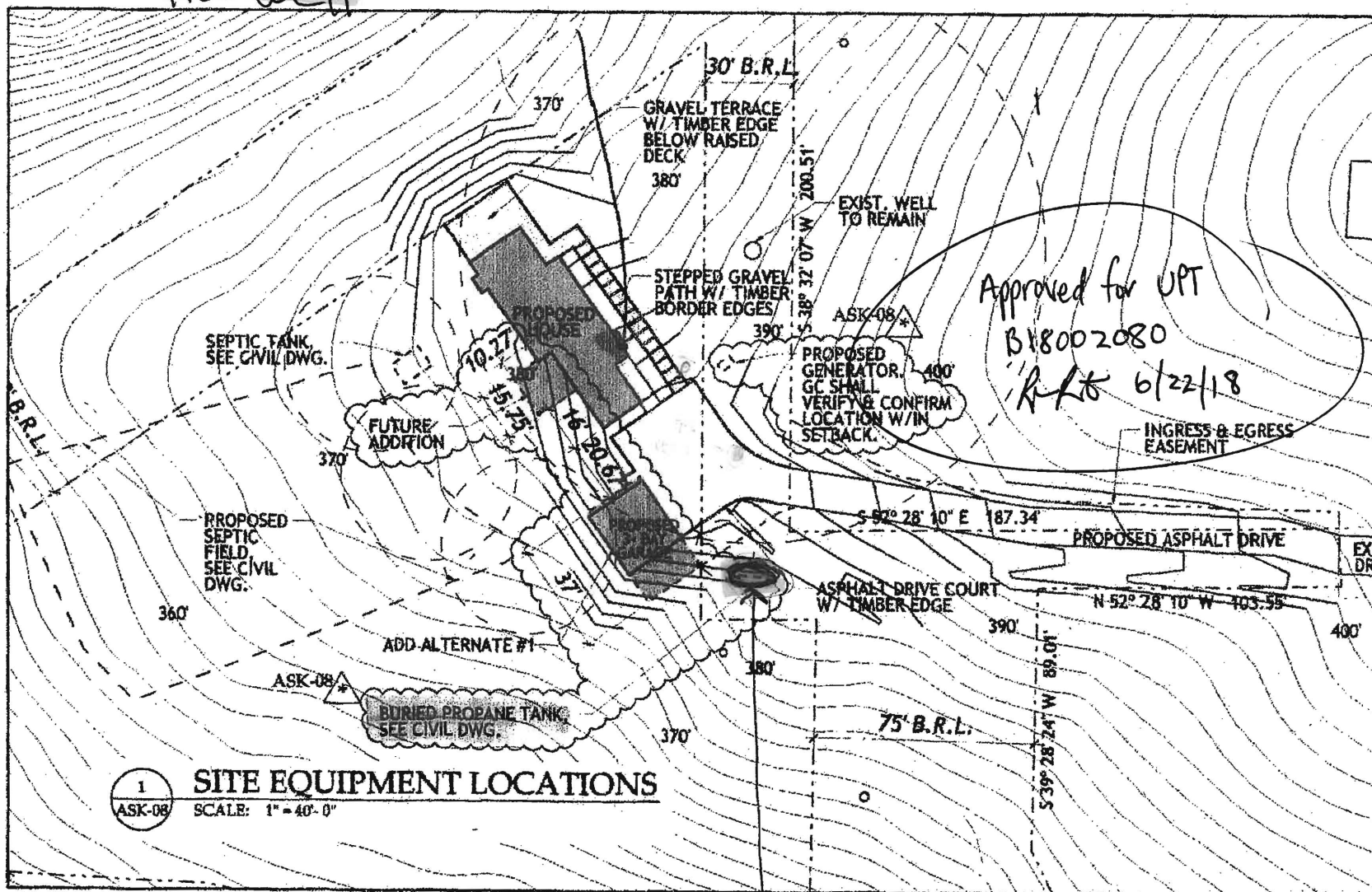
SALE AMOUNT \$60.00

NO REFUND WITHOUT COURT ORDER

CUSTOMER COPY

110' well

Propane
Entrance to house = ~80'



1
ASK-08

SITE EQUIPMENT LOCATIONS

SCALE: 1" = 40'-0"

Propane
Tank

~ 30' away from geo bore

LETTER OF TRANSMITTAL

☐ AGENCY ☐ CLIENT ☐ FILE ☐ BILLING ☐ COORESPONDANCE ☐ 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:

Hand Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, Maryland 21045

DATE: February 14, 2018

PROJECT: Maria C. Aliprando &
Press Palmer Property

VanMar B7-5620

ENCLOSED:

COPIES	DATE	DESCRIPTION
1	2/13/2018	Email requesting the revision of the OSDS Plan
3	2/14/2018	On Site Sewage Disposal System Design Plan, Lands Conveyed to Maria C. Aliprando & Press Palmer

REMARKS: Hi Hank, here are the copies, revised to reflect the well sites on OSDS Plan match the Percolation Plan. Have a great day! Mary Anne

COPIES TO (ADDRESS): Maria C. Aliprando & Press Palmer, 10625 Hillingdon Road, Suite #1 Woodstock, Maryland 21163

SUBMITTED BY : Mag-M

G:ENGR:B75620 hd sewage plan rev.2.14.2018

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 Stanford Boulevard
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: 5/2/17

PROJECT: Aliprando & Palmer Property
1680 Woodstock Road

VMA#: B75620

ENCLOSED:

COPIES	DATE	DESCRIPTION
3	5/2/17	REVISED On Site Sewage Disposal System Design Plan Press Palmer, Maria C. Aliprando & Mary Palmer Property 1680 Woodstock Road

REMARKS: Hi Hank, plan revised to reflect your comments and submitted for review and approval. Thank you!

COPIES TO (ADDRESS): Marie Aliprando & Press Palmer, 10625 Hillingdon Road, Suite #1, Woodstock, MD 21163

SUBMITTED BY: dkv

g'engr b7 5620 hd sewage disp. Plan 5.2.17

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 Stanford Boulevard
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: 4/28/17

PROJECT: Aliprando & Palmer Property
1680 Woodstock Road

VMA#: b7562

ENCLOSED:

COPIES	DATE	DESCRIPTION
1	4/24/17	Email from Hank Oswald
3	4/28/17	REVISED On Site Sewage Disposal System Design Plan Press Palmer, Maria C. Aliprando & Mary Palmer Property 1680 Woodstock Road

REMARKS: Hi Hank, plan revised and submitted for review and approval. Thank you!

COPIES TO (ADDRESS: Marie Aliprando & Press Palmer, 10625 Hillingdon Road, Suite #1, Woodstock, MD 21163

SUBMITTED BY: dkv

glengr b7 5620 hd sewage disp. Plan 4.28.17

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 Stanford Boulevard
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: 4/19/17

PROJECT: Aliprando & Palmer Property
1680 Woodstock Road

VMA#: b7562

ENCLOSED:

COPIES	DATE	DESCRIPTION
3	4/18/17	On Site Sewage Disposal System Design Plan Press Palmer, Maria C. Aliprando & Mary Palmer Property 1680 Woodstock Road

REMARKS: Hi Hank, plan submitted for review and approval. Thank you!

COPIES TO (ADDRESS): Marie Aliprando & Press Palmer, 10625 Hillingdon Road, Suite #1, Woodstock, MD 21163

SUBMITTED BY: dkv

g\engr b7 5620 hd sewage disp. Plan 4.19.17

Oswald, Hank

From: Oswald, Hank
Sent: Monday, May 01, 2017 3:52 PM
To: 'Ron Thompson'
Subject: RE: OSDS_1680 Woodstock Road

Hi Ron:

I just looked over the revised plan and I didn't see the changes for 1 and 2.

Thanks,

Hank

From: Ron Thompson [<mailto:ron@vanmar.com>]
Sent: Monday, April 24, 2017 5:04 PM
To: Oswald, Hank
Subject: RE: OSDS_1680 Woodstock Road

Hank: Please let me know if the following responses are acceptable and then I will resubmit:

1. *The profile shows more than 3 feet of cover over the septic tank. Is this a heavy load bearing tank? If so, please indicate on the plan.* **RESPONSE** – Note added "Heavy Load Bearing Tank".
2. *The reduction credit for the first replacement should be 0.36 (utilizing 5 foot sidewall credit).* **RESPONSE** – Reduction credit revised.
3. *The grading behind the future garage exceeds 25%. The setback between steep slopes and the SDA is 25 feet.* **RESPONSE** – Since this is a fill above the slope, with only drainage from the fill and there is no cut, can this be approved since it will be sheet flow?
4. *The length of pvc pipe between the house and tank connections is more like 35 feet per layout on plan.* **RESPONSE** – The length is 30-ft. between the cleanouts. We consider the distance between the first cleanout and the house to be part of the house plumbing.

Thank you. Look forward to your response.

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 [<mailto:hoswald@howardcountymd.gov>]
Sent: Monday, April 24, 2017 10:47 AM
To: Ron Thompson <ron@vanmar.com>
Subject: OSDS_1680 Woodstock Road

Hi Ron:

Please see attached letter regarding the review of the OSDS Plan for 1680 Woodstock Road.

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)



Bureau of Environmental Health

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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

Twitter: HowardCoHealthDep

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

April 24, 2017

Vanmar Associates, INC.
310 South Main Street
Mount Airy, MD 21771
Attn: Ron Thompson

Sent via email to: ron@vanmar.com

RE:

**OSDS Plan
1680 Woodstock Road
Woodstock, MD 21163**

Hi Ron:

The OSDS Plan for 1680 Woodstock Road has been reviewed with the following comments:

- 1.) The *profile* shows more than 3 feet of cover over the septic tank. Is this a heavy load bearing tank? If so, please indicate on the plan. *Heavy lid note added*
- 2.) The reduction credit for the first replacement should be 0.36 (utilizing 5 foot of sidewall credit). *revised*
- 3.) The grading behind the future garage exceeds 25 %. The setback between steep slopes and the SDA is 25 feet. *changed to less than 25 %*
- 4.) The length of pvc pipe between the house and tank connection is more like 35 feet per *layout* on plan.

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

Oswald, Hank

From: Oswald, Hank
Sent: Monday, April 24, 2017 10:47 AM
To: ron@vanmar.com
Subject: OSDS_1680 Woodstock Road
Attachments: OSDS_1680 Woodstock Road_4.24.17.pdf

Hi Ron:

Please see attached letter regarding the review of the OSDS Plan for 1680 Woodstock Road.

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)

Ron Thompson

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Tuesday, February 13, 2018 9:17 AM
To: Ron Thompson
Subject: RE: OSDS Plan_1680 Woodstock Road

Okay. The alternate well sites on the OSDS Plan do not match the alt. well sites on the perc cert plan. Can you revise the OSDS plan so that they do match?

Thanks,

Hank

From: Ron Thompson [mailto:ron@vanmar.com]
Sent: Monday, February 12, 2018 3:34 PM
To: Oswald, Hank
Subject: RE: OSDS Plan_1680 Woodstock Road

The 4/15/11 plan is what we have.

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 [mailto:hoswald@howardcountymd.gov]
Sent: Monday, February 12, 2018 1:43 PM
To: Ron Thompson <ron@vanmar.com>
Subject: OSDS Plan_1680 Woodstock Road

Hi Ron:

Our office received floor plan revisions to 1680 Woodstock Road. I am starting to look them over now. What's the most recent perc cert plan you have on file for this address? When I looked over the OSDS Plan again, I noticed that the alternate well sites on the perc cert plan signed on 4/15/2011 do not match the well site locations on the OSDS Plan.

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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RECEIVED
FEB 16 2018
HOWARD COUNTY DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, February 14, 2017 4:24 PM
To: 'Ron Thompson'
Subject: RE: Woodstock
Attachments: Septic Specs_Costello Property_Lot2.pdf

Hi Ron:

Attached, please find the septic specs for Costello Property Lot 2.

Hank

From: Ron Thompson [<mailto:ron@vanmar.com>]
Sent: Tuesday, February 14, 2017 3:52 PM
To: Oswald, Hank
Subject: RE: Woodstock

Yes please

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 [<mailto:hoswald@howardcountymd.gov>]
Sent: Tuesday, February 14, 2017 3:33 PM
To: Ron Thompson <ron@vanmar.com>
Subject: FW: Woodstock

Hi Ron:

Do you need septic specs for this property? Please let me know.

Thanks

Hank

From: Ron Thompson [<mailto:ron@vanmar.com>]
Sent: Tuesday, February 14, 2017 11:26 AM
To: Williams, Jeffrey
Subject: FW: Woodstock

Good Morning Jeff:

Attached are the perc results and SEWAGE DISPOSAL SYSTEM SPECIFICATION WORKSHEET for 1680 Woodstock Road.

Thank you.

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: Ron Thompson
Sent: Thursday, December 08, 2016 4:36 PM
To: 'Oswald, Hank' <hoswald@howardcountymd.gov>
Subject: FW: Woodstock

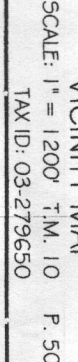
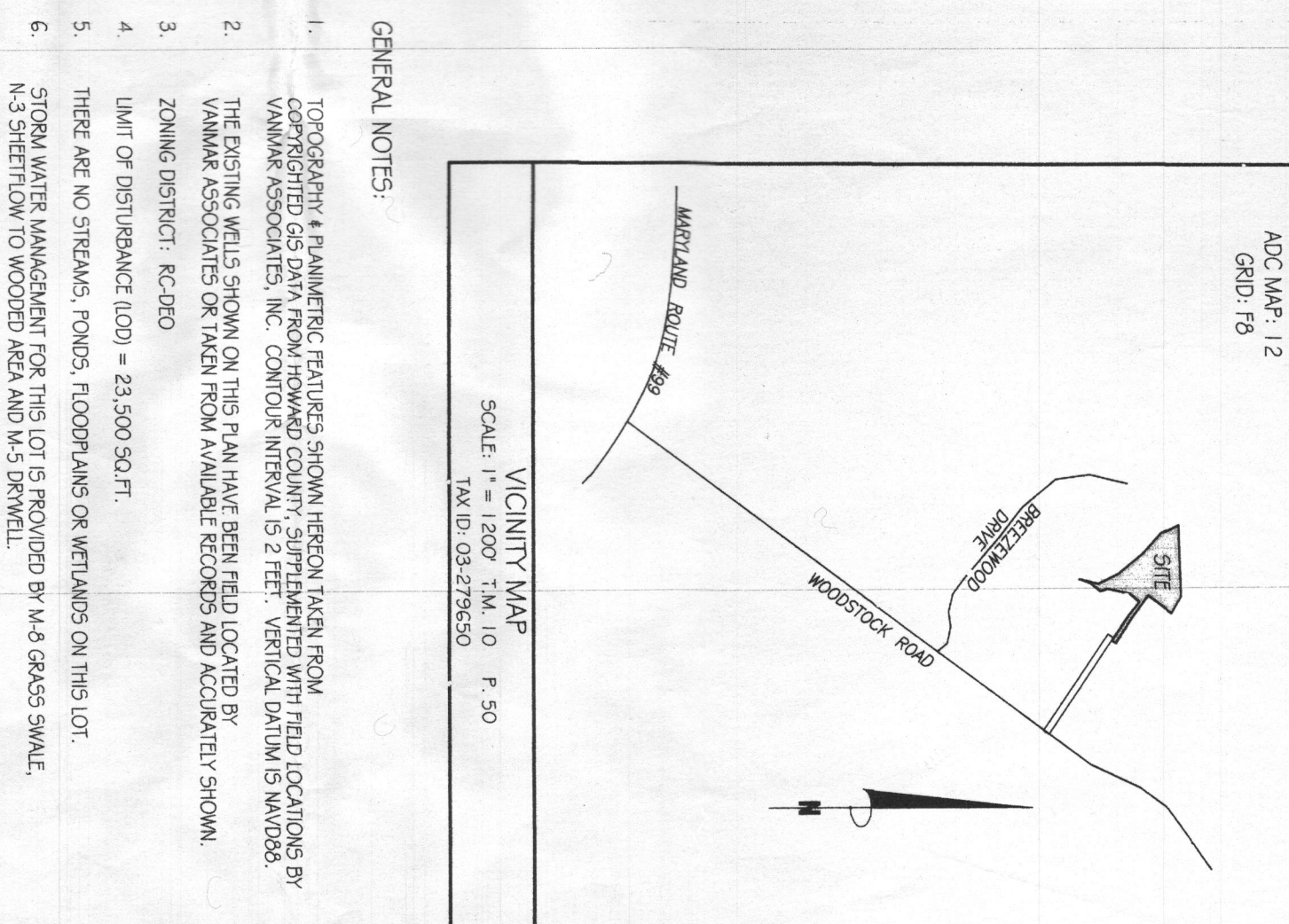
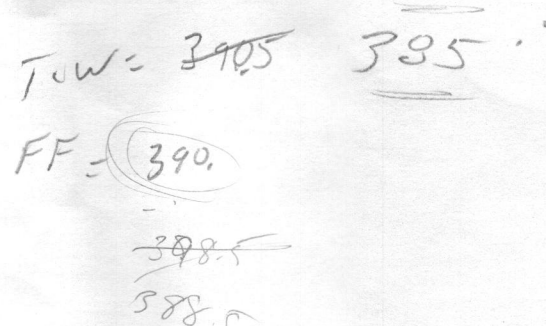
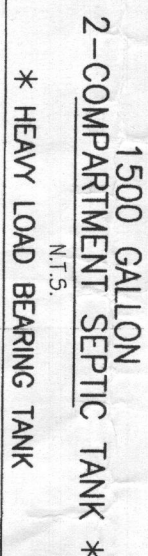
Hank:

Attached are the perc results for 1680 Woodstock Road.

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: Mike VanSant
Sent: Thursday, December 08, 2016 4:33 PM
To: Ron Thompson <ron@vanmar.com>
Subject: Woodstock

Here you go



1. TOPOGRAPHY & PLUMMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS VANNAK ASSOCIATES, INC. CONTOUR INTERVAL 15.2 FEET. VERTICAL DATUM IS NAVD83.

2. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANNAK ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.

3. ZONING DISTRICT: RC-DEO
4. LIMIT OF DISTURBANCE (LOD) = 23,500 SQ.FT.
5. THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
6. STORAGE WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY M-6 GRASS SWALE, N-3 SHEETPILOUT TO WOODED AREA AND M-5 DRYWELL.

INITIAL NUMBER OF BEDROOMS = 4
APPLICATION RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 1.50 GPD X 4 BEDROOMS = 500 GPD
600 GPD / 1.2 GPD/sq.ft. = 500 sq.ft.
500 sq.ft. / 3 ft. WIDE TRENC = 167 LF TRENC
167 LF TRENC X 0.45 REDUCTION CREDIT = 75 LF TRENC
TRENC 1 (T1) EX. GPD=372.0 - INV. TRENC=368.5 B. TRENC=365.0

1st REPLACEMENT
APPLICATION RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 150 GPD x 4 BEDROOMS = 600 GPD
600 GPD / 1.2 GPD/sq.ft. = 500 sq.ft.
500 sq.ft. / 3 ft. WIDE FENCE = 167 LF FENCE
167 LF FENCE x 0.36 REDUCTION CREDIT = 60 LF FENCE


2nd REPLACEMENT
APPLICATION RATE = 0.8 GPD / sq.ft.
DESIGN FLOW: 150 GPD x 4 BEDROOMS = 600 GPD
600 GPD / 0.8 GPD/sq.ft. = 750 sq.ft.
750 sq.ft. / 3 ft. WIDE FENCE = 250 LF FENCE
250 LF FENCE x 0.36 REDUCTION CREDIT = 140 LF FENCE

1. ANY CHANGING THE LOCATIONS OR CONTENTS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE TOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. MAXIMUM COVER OVER THE MANHOLE IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BRACING RAIL.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PREFORMED BY A LICENSED ELECTRICIAN.
4. THE MANHOLE AND 15-20' HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. ALL WELLS AND SINKING SPINDLES LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADING OF ANY WELLS AND SINKING SPINDLES HAVE BEEN SHOWN.
6. THE PROPERTY LINE CLOSEST TO PREPARED #59 MUST BE STATED PRIOR TO SYSTEM INSTALLATION BY A LICENSED SURVEYOR.

Approved Septic System Plan
Howard County Health Department

Date 2/21/18

ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LANDS CONVERTED TO
MARIA C ALPRANDO & PRESS PALMER



**VANMAR
ASSOCIATES, INC.**
Engineers Surveyors Planners

310 South Main Street Mount Airy, Maryland 21771
(301) 829-2880 (301) 831-5015 (410) 549-2755
Fax (301) 831-5603 ©Copyright, latest Date S

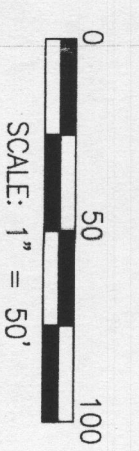
vanmar.com

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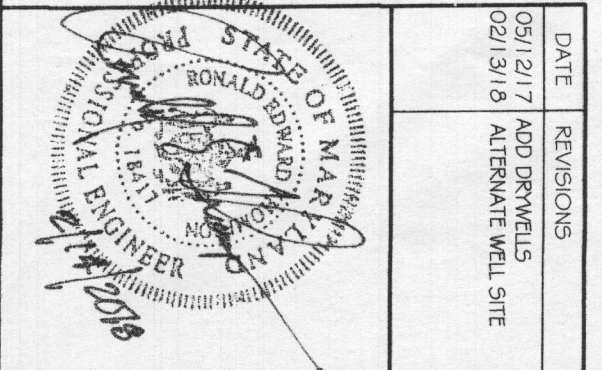
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



PROFESSIONAL CERTIFICATION
I hereby certify that these documents 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. 18417, Expiration Date: 9-18-19.




ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLANNING

LANDS CONVERTED TO

MARIA C. ALIPRANDO & PRESS PALMER

L 172.5 F 3.15

1620 WOODSTOCK ROAD
HARDEN DESIGN DISTRICT
HARDEN, MISSISSIPPI 39234
SCALE: 1" = 50' APRIL 2017



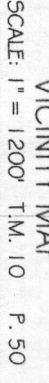
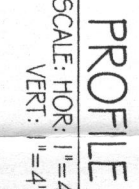
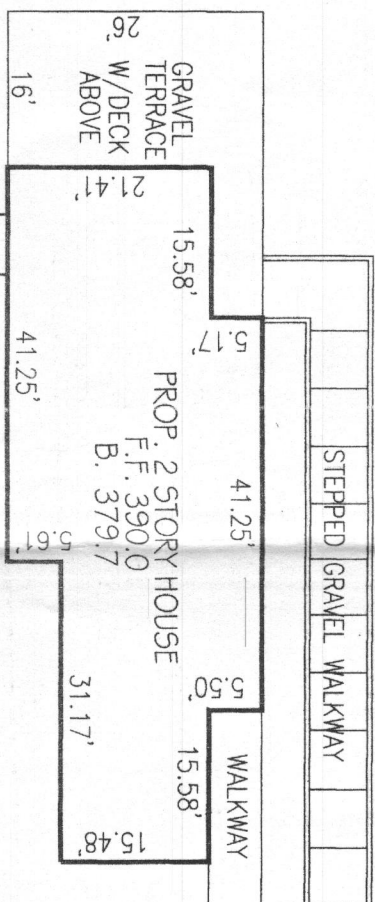
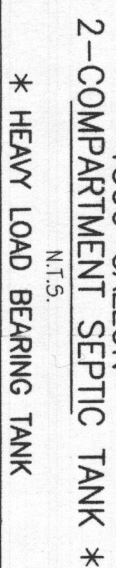
VAN
NAM

ASSOCIATES, INC.

Engineers Surveyors Planners

310 South Main Street Mount Airy, Maryland 21771
(301) 829-2880 (301) 831-5015 (410) 546-2751
Fax (301) 831-5063

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1. TOPOGRAPHY & PLANTING: PLANTIES SHOWN HEREIN, KANSAS FIRM, COMPLETED AS FOLLOWS: (1) 2.2' HIGHER THAN FIELD ELEVATION, (2) 2.2' HIGHER THAN ADJACENT ROAD ELEVATION, (3) 1.5' HIGHER THAN ADJACENT ROAD ELEVATION.
2. THE BENTONITE SHOWN ON THE PLAN FOR THE FIELD LOCATED BY VINNIA ASSOCIATES OF KANSAS FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
3. ZONING: DISTRICT: R-2020
4. LIMIT OF DISTURBANCE (LOD) = 23.50' SQ. FT.
5. THERE ARE NO STREETS, PONDS, FLOODPLAIN OR WETLANDS ON THIS LOT.
6. THERE ARE NO STRUTS, PILES, FLOODPLAIN OR WETLANDS ON THIS LOT.
7. SURFACE WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY M-5 GRASS SWALE, 16.3' SPLITTING TO WOODED AREA AND M-5 DRAINAGE.

SEPTIC SYSTEM TRENCH DESIGN

- INITIAL NUMBER OF BEDROOMS = 4
APPLICATION RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 1.2 GPD/sq.ft. = 500 sq.ft.
500 sq.ft. / 3 ft. WIDE TRENCH = 167 LF TRENCH
167 LF TRENCH X 0.45 REDUCTION CREDIT = 75 LF TRENCH
TRENCH 1 (T1) EX. GGD-372.0 - INV. TRENCH-366.5 -B. TRENCH-365.0

1st REPLACEMENT

- APPLICATOR RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 150 GPD x 4 BEDROOMS = 600 GPD
600 GPD / 1.2 GPD/sq.ft. = 500 sq.ft.
500 sq.ft. x 3 ft. WIDE TRENCHE = 1500 LF TRENCHE
167 LF TRENCHE x 0.36 REDUCTION CREDIT = 60 LF TRENCHE
2nd REPLACEMENT
APPLICATOR RATE = 0.8 GPD / sq.ft.
DESIGN FLOW: 150 GPD x 4 BEDROOMS = 600 GPD
600 GPD / 0.8 GPD/sq.ft. = 750 sq.ft.
750 sq.ft. x 3 ft. WIDE TRENCHE = 2250 LF TRENCHE
250 LF TRENCHE x 0.56 REDUCTION CREDIT = 140 LF TRENCHE


SITE PLAN NOTES:

1. ANY CHANGE TO THE LOCATION OR DEPTH OF AN EXISTING TANK MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL PUMP (MTO-150-120) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE EXISTING HOUSES AND 200' DOWN GRADIENTS OF ANY WELLS AND OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
6. THE PUMP LINE COASTED TO PUMP HOUS #29 MUST BE STAKED PRIOR TO 5/31/2010. INSTALLATION BY A LICENSED SEWER CONTRACTOR.

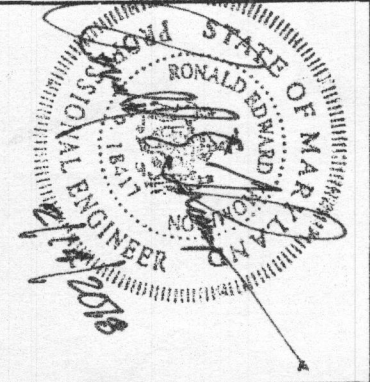
Approved Septic System Plan
Howard County Health Department
Mark Oswald 2/21/18
Signature Date

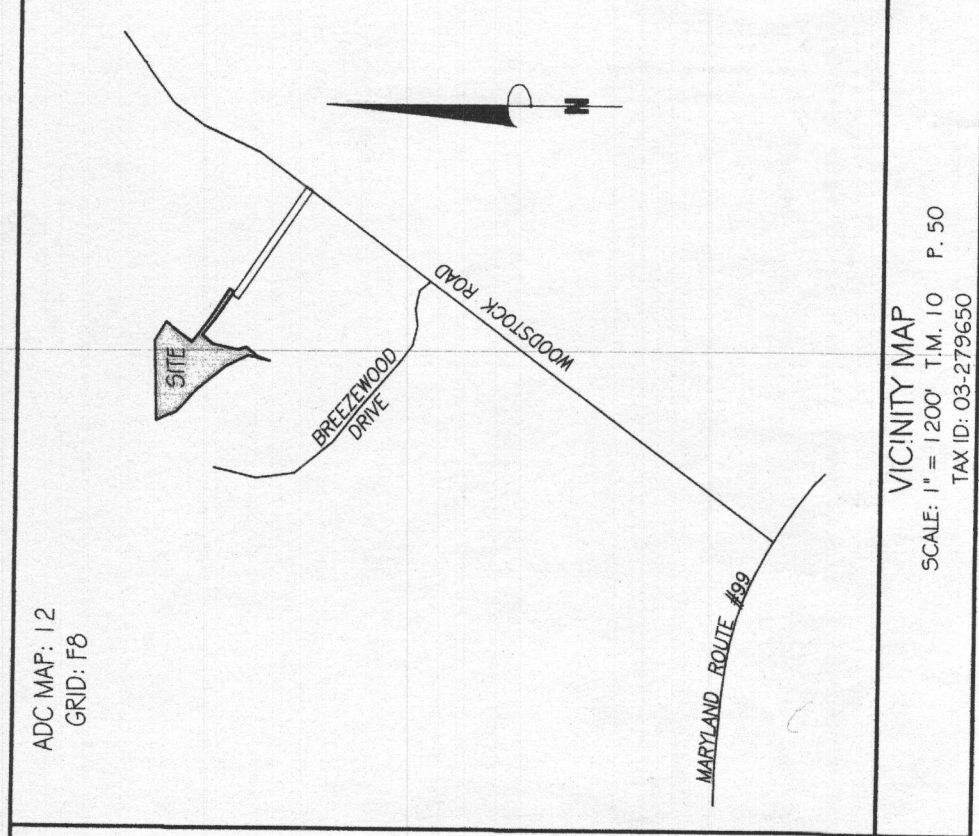
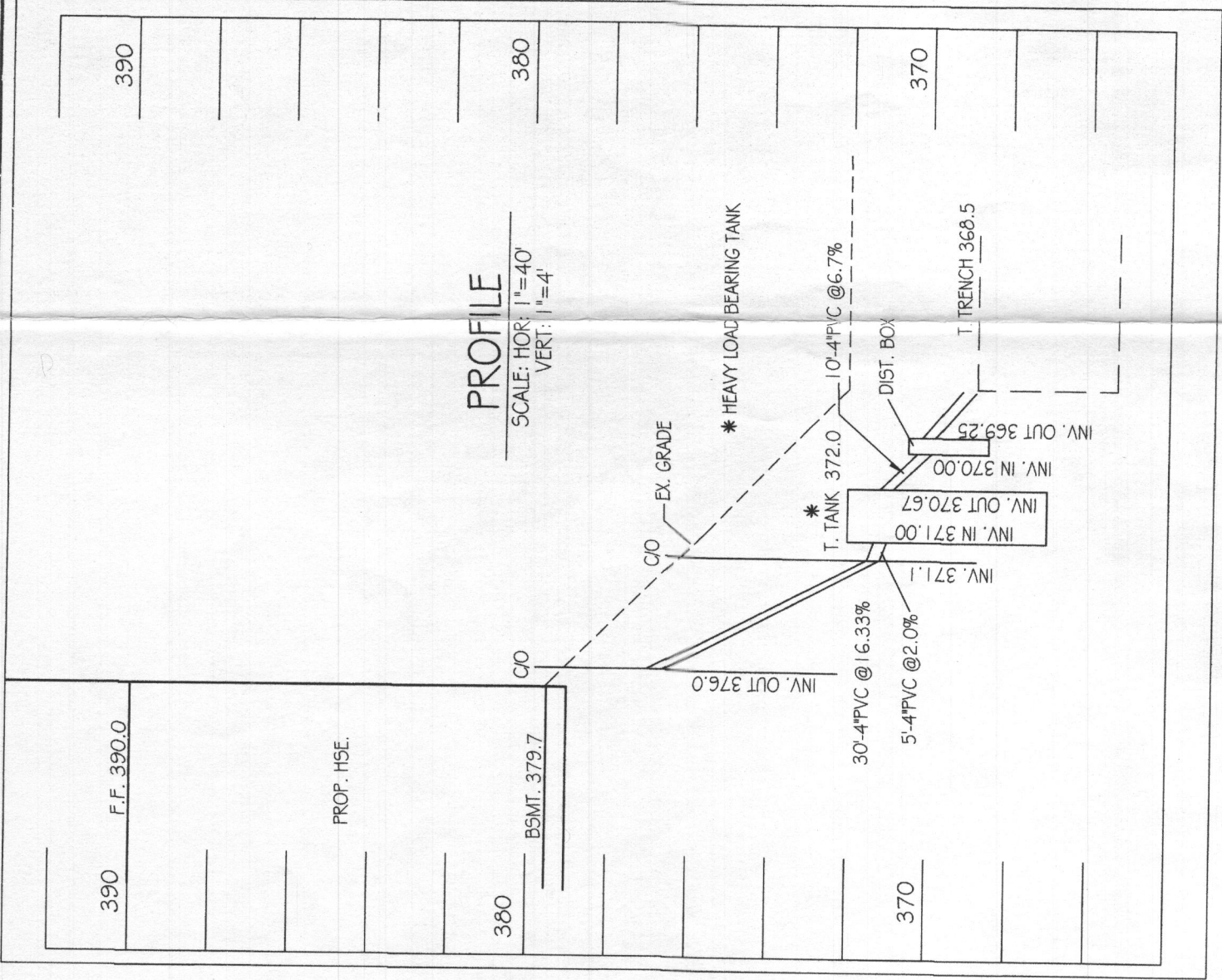
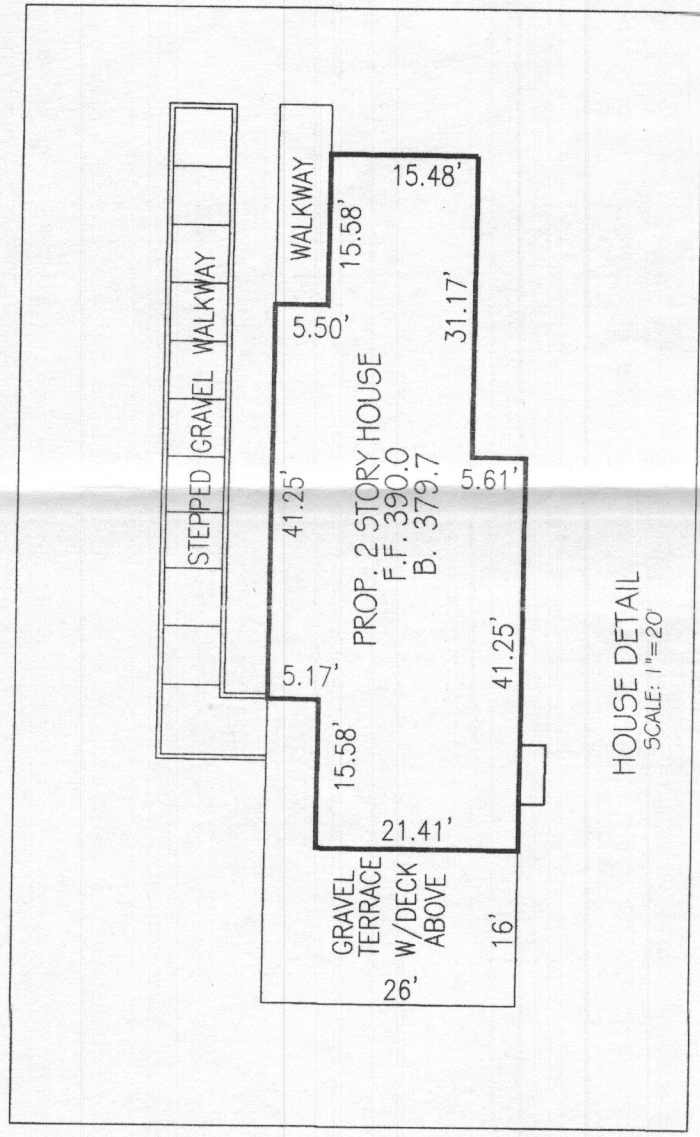
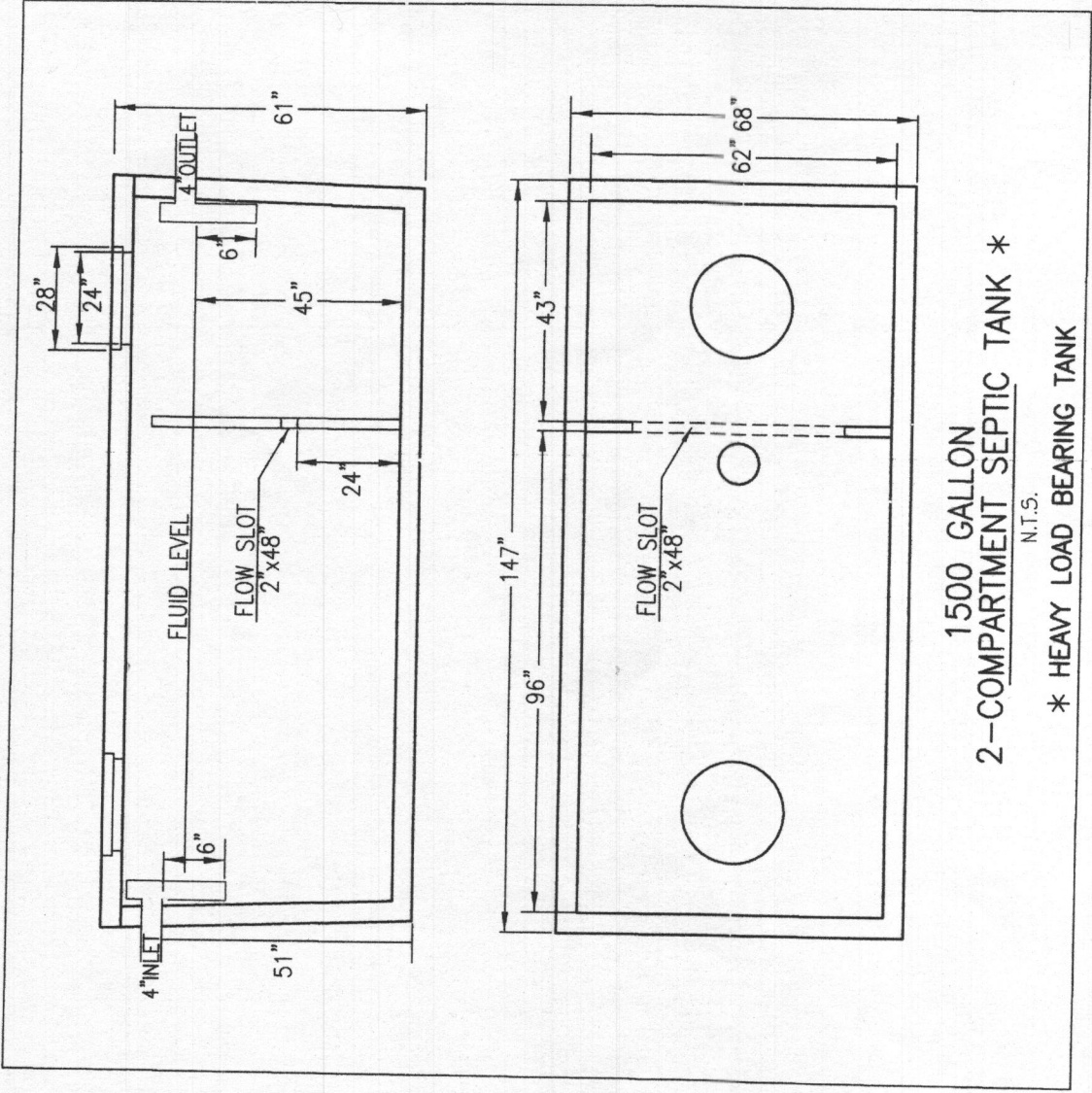
ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LANDS CONVEYED TO

MARIA C. ALFRANDO & FRESS FALMER


VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2880 (301) 831-5015 (410) 549-2751
Fax (701) 831-5603 @Comcast Internet Data Service
vanmar.com

DATE	REVISIONS
05/12/17	ADD DRUMWELLS
02/13/18	ALTERNATE WELL SITE





GENERAL NOTES:

- TOPOGRAPHY PLANNING FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED AERIAL PHOTOGRAPHS AND FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS WGS86.
- THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
- ZONING DISTRICT: RC-200
- LIMIT OF DISTURBANCE (LOD) = 23,500 SQ. FT.
- THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
- STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY A-6 GRASS SWALE, N-3 SHEETFLOW TO WOODED AREA AND A-4.5 DRAINAGE.

SEPTIC SYSTEM TRENCH DESIGN

INITIAL NUMBER OF BEDROOMS = 4
APPLICATION RATE = 1.2 GPD / sq. ft.
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 1.2 GPD/sq. ft. = 500 sq. ft.
500 sq. ft. / 3.16' WIDE TRENCH = 167 LF TRENCH
167 LF TRENCH X 0.45 REDUCTION CREDIT = 75 LF TRENCH
TRENCH 1 (T1) EX. 600=372.0 - INV. TRENCH=368.5 - B. TRENCH=365.0

1st REPLACEMENT
APPLICATION RATE = 1.2 GPD / sq. ft.
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 1.2 GPD/sq. ft. = 500 sq. ft.
500 sq. ft. / 3.16' WIDE TRENCH = 167 LF TRENCH
167 LF TRENCH X 0.36 REDUCTION CREDIT = 60 LF TRENCH

2nd REPLACEMENT
APPLICATION RATE = 0.8 GPD / sq. ft.
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 0.8 GPD/sq. ft. = 750 sq. ft.
750 sq. ft. / 3.16' WIDE TRENCH = 250 LF TRENCH
250 LF TRENCH X 0.36 REDUCTION CREDIT = 140 LF TRENCH

SITE PLAN NOTES:

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- MINIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE WELL TAG #10-1501 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.
- THE PROPERTY LINE CLOSEST TO PERC HOLE #49 MUST BE STAKED PRIOR TO SYSTEM INSTALLATION BY A LICENSED SURVEYOR.



APPROVED

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT

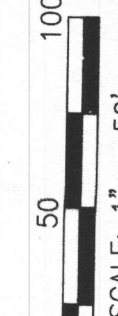
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE

DATE

OWNER/DEVELOPER:
MARIA C. ALIPRANDO & PRESS PALMER
10625 TILGINGTON ROAD SUITE #1
WOODSTOCK, MARYLAND 21163

PROFESSIONAL CERTIFICATION
I hereby certify that these documents 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. 18117, Expiration Date 9-18-19.



DATE	REVISIONS
05/13/17	ANNUAL
02/13/16	ALTERNATE TAIL SITE

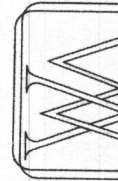


ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LANDS CONVEYED TO

MARIA C. ALIPRANDO & PRESS PALMER

L17215 F315

1500 WOODSTOCK ROAD
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1"=50' APRIL 2017



VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street, Suite 400
Woodstock, Maryland 21163
(301) 829-2890 (301) 831-5015 (410) 546-2751
vanmar.com Fax (301) 831-5603 ©Copyright, Latest Date Shown

Approved Septic System Plan
Howard County Health Department
Signature: _____ Date: 2/21/18