

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: 2-3-22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 576939
 APPROVAL DATE: 5/24/22 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 13600 OLIVIA WAY, HIGHLAND, MD 20777
 SUBDIVISION: THE ESTATES AT RIVER HILL LOT: 12 TAX ID: 05-601940
 CONTRACTOR: EGLES FREEDOM SEPTIC EMAIL: 410 795 2947
 CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670
 PROPERTY OWNER: ESTATES AT RIVER HILL LLC EMAIL: tkeane@trinityhomes.com
 OWNER ADDRESS: 3675 PARK AVE., SUITE 301, ELLICOTT CITY, MD 21043 PHONE: (443)324-9806
 SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: MAYER BROS., INC.
 PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>208</u>	INLET DEPTH: <u>4.0</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Lot 12 has a five (5) Bedroom limitation. <i>* If fall cannot be created a pump will be required.</i>	

ISSUED BY: R BRICKER ISSUE DATE: 2-3-22 EXPIRATION DATE: 2-3-23

- 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

* see attached

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
<u>2'</u>	<u>4'</u>	<u>8'</u>
NUMBER OF TRENCHES		<u>4</u>
TOTAL LENGTH		<u>206'</u>
ABSORPTION AREA		<u>412 sq ft + sidewalk</u>
DISTRIBUTION BOX LEVEL		<u>Speedy</u>
DISTRIBUTION BOX BAFFLE		<u>cement</u>
DISTRIBUTION BOX PORT		<u>PVC</u>

SEPTIC TANK DATA

SEPTIC TANK I LEVEL yes
 MANUFACTURER Babylon
 CAPACITY 1500 GAL
 SEAM LOC top
 TANK LID DEPTH 3'
 BAFFLES inlet + outlet
 BAFFLE FILTER -
 MANHOLE LOC inlet
 6" PORT LOC -
 WATERTIGHT TEST -
 SLOTTED yes
 DATE ON LID 4-6-22

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:

03/07/2022 CONFIRMED SEWER OUT, HOUSE ELEV. AND FALL TO TANK.
CONFIRMED 4x52' TRS. (P)

INSTALLATION:

5/20/22 SHC and SK constructed, tank set, back line constructed (SP)
2/23/22 - 2 trenches completed w/ stone & geotextile fabric, 2 trenches just a little bit short @ 51' x 2
Stone ok, soils consistent w/ perc, 2 final trenches 8' bottom, still need stone, fabric & perforated
pipe thru shaft, Contractor said that he'd finish the trenches (final 2) and leave the ends open
for inspection, wants to cover work due to rain in forecast, reinspect for dbox, ok to continue (AP)
5/24/22 D-box leveled, outlet baffle inspected (SP)

FINAL INSPECTOR

Susan Thomas

DATE OF APPROVAL

5/24/22

1:30

NOT TO SCALE

PROP LINE

DRIVE

WEB BOX

HOUSE

HO-17-0336

OLIVIA WAY

SDA

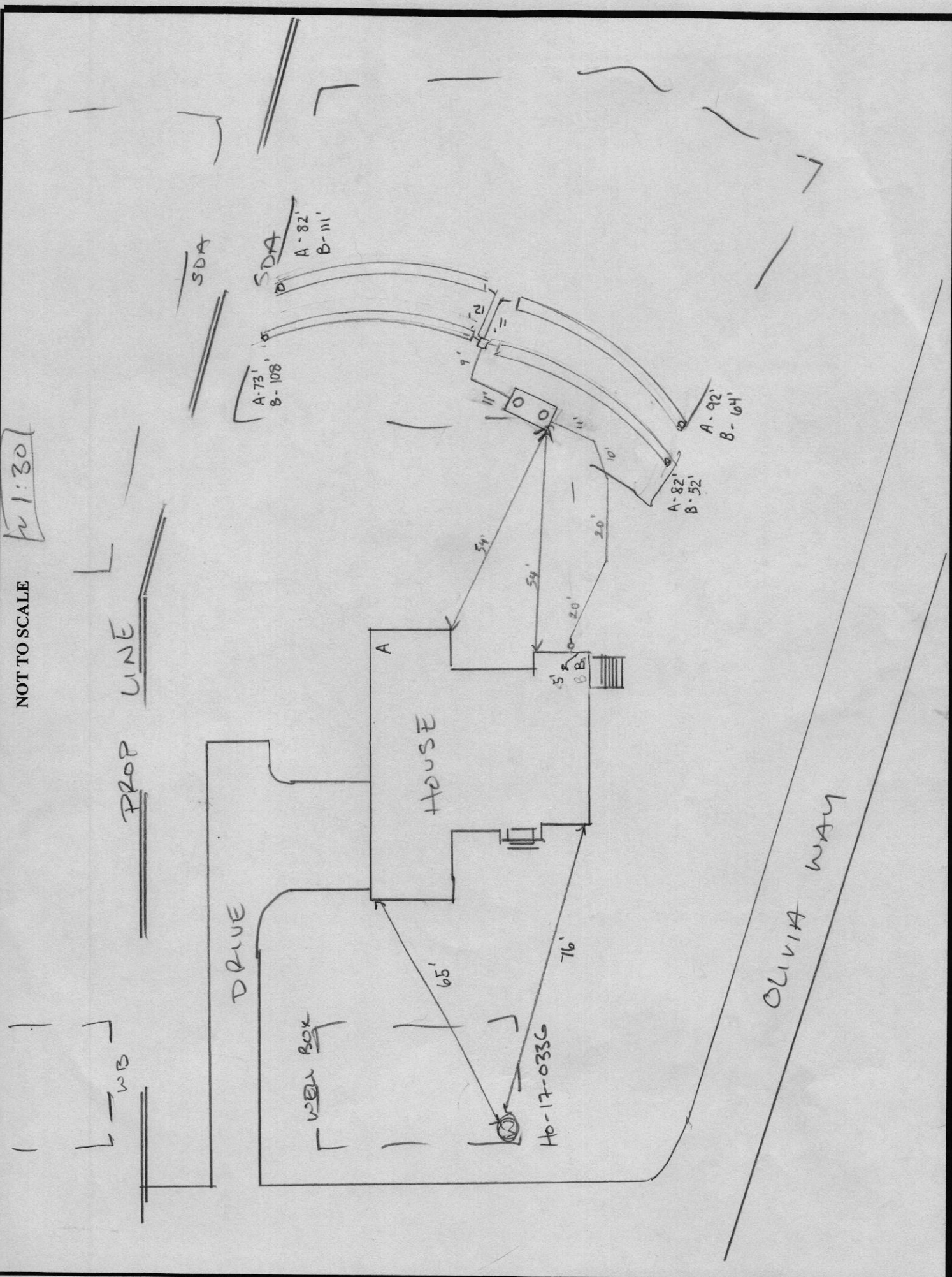
SDA

A-73'
B-108'

A-82'
B-111'

A-82'
B-52'

A-92'
B-64'



13600 OLIVIA WAY - LOT 12

VOGEL ENGINEERING + TIMMONS GROUP

3300 North Ridge Road, Suite 110, Ellicott City, MD 21043
P 410.461.7666 F 410.461.8961 www.timmons.com

May 3, 2019

Mr. Jeff Williams
Well and Septic Program
Development Engineering Division
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Boulevard
Columbia, Maryland 21045

Re: The Estates at River Hill
Lot 12 – 13600 Olivia Way
OSDS Design Plan

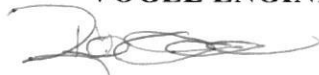
Dear Mr. Williams,

The sewage disposal system for Lot 12 was designed so that the basement could be serviced by gravity and that there would be no need for an ejector pump. In order to accomplish this, the septic tank had to be placed in the upper part of the sewage disposal area (SDA) to meet the maximum coverage of 3' over the tank. We are aware that the upper right portion of the ma easement has not been used for trenching. Due to elevation, a trench in that area would require a pipe invert of 4.5'-5' in order to work with the invert out of the septic tank. COMAR specifications only allow for a maximum of 4' for the trench invert. While we did not provide a trench in this upper portion of the SDA, we were still able to provide for the three required trench systems.

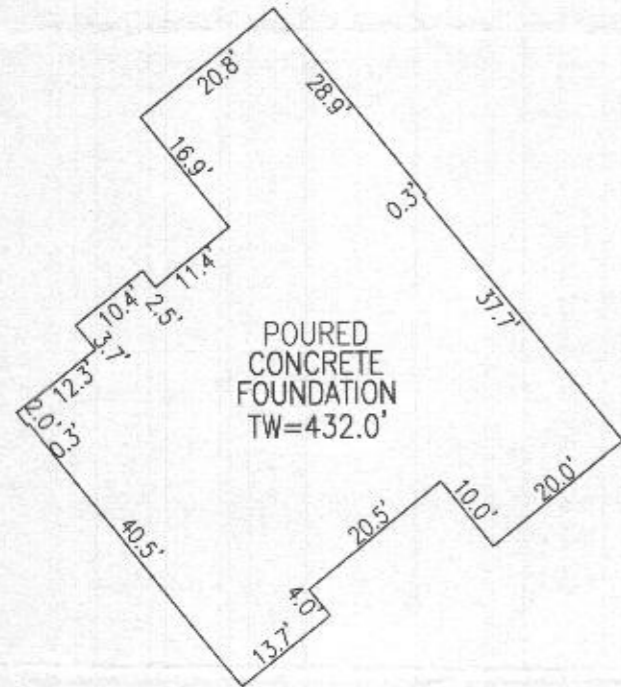
Should you have any questions regarding this matter, please do not hesitate to contact this office.

Sincerely,

VOGEL ENGINEERING + TIMMONS GROUP



Robert H. Vogel, P.E



DETAIL
NOT TO SCALE



I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THAT THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN; 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.

Michael L. Loveland 1/3/22
 MICHAEL L. LOVELAND DATE
 PROFESSIONAL LAND SURVEYOR
 LICENSE NO. 21746
 EXP. DATE: DECEMBER 11, 2023



*Wall Check
OK RAE
2/15/2022*

WALL CHECK DRAWING
THE ESTATES AT RIVER HILL
LOT 12
13600 OLIVIA WAY
HIGHLAND, MD 20777

PLAT NO. 25085-25094
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' DEC. 22, 2021

GRAPHIC SCALE
 200 100 50 0 100 200
 1 INCH = 100 FEET

COMP BY: B.D.A.	SHEET 1 of 1
DRAWN BY: B.D.A.	
CHECKED BY: M.L.L.	

W.O. NO.: 15-39

VOGEL ENGINEERING

TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'



GREGORY I. DESROCHES
LIANE H. DESROCHES
TM: 34 PARCEL: 261
WATERFORD SEC. 2
L. 1834 / F. 181
PLAT: 7671
LOT: 16
6.07 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

3.85 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

EX. 25' EASEMENT FOR
INGRESS AND EGRESS TO
LOT 17 AND LOT 1
GREEN PROP.
(PRIVATE)
(PLAT 7671)

30' PRIVATE ACCESS
EASEMENT FOR THE BENEFIT
OF LOTS PARCELS A, B & NON-
BUILDABLE PRES.
BUILDABLE PRES.

100' WELL
RADIUS

ST 19

ST 20

NON-BUILDABLE
PRESERVATION
PARCEL 'H'
6.073 AC.
TO BE OWNED BY
THE HOA WITH
HOWARD COUNTY AS
EASEMENT HOLDER

NON-BUILDABLE
PRESERVATION
PARCEL 'B'
3.16 AC.
TO BE OWNED BY THE DEPT.
OF RECREATION AND PARKS

CLASS 1 MSHA RIPRAP
OVER FILTER CLOTH
L=5', W=5', d50=9"
MIN. THICK=19"

SECOND REPLACEMENT
SYSTEM TRENCHES
TO BE A MINIMUM
OF 11' DEPTH

CLASS 1 MSHA RIPRAP
OVER FILTER CLOTH
L=5', W=5', d50=9"
MIN. THICK=19"

PRIVATE USE AND COMMON DRIVE
OLIVIA WAY
18' PAVING

NON-BUILDABLE
PRESERVATION
PARCEL 'C'
17.31 AC.
TO BE OWNED BY THE DEPT.
OF RECREATION AND PARKS

FOREST CONSERVATION
EASEMENT #3
(AFFORESTATION)
(MITIGATION)
3.75 AC. (TOTAL)

PLAN VIEW
SCALE: 1"=30'

WELL LOCATION CERTIFICATION:
THE EXISTING WELL LOCATED FOR LOT 12 (TAG #ND-17-0336)
HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST
10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE
DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE
DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE
RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE
AREAS 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. RELOCATION OF A MODIFIED SEWAGE
AREA SHALL NOT BE NECESSARY.

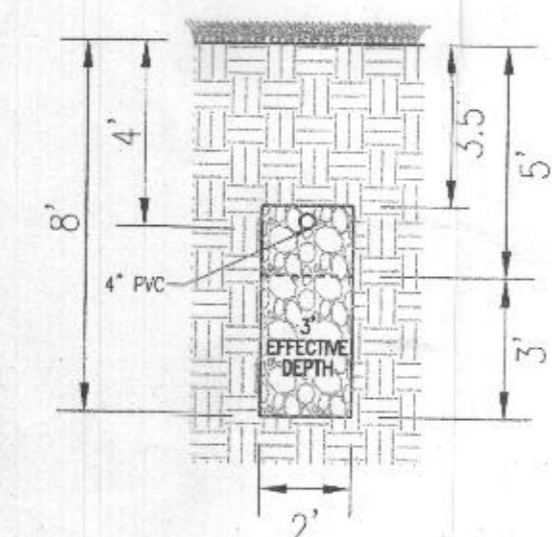
TRENCH	LENGTH	TRENCH WIDTH	INTO BOTTOM OF EXISTING TRENCH	GROUND
1	52'	41.852'	416.12	422.52
2	52'	41.852'	414.2	422.52
3	52'	41.767'	413.17	421.67
4	52'	41.766'	413.16	421.66

SYSTEM CALCULATIONS:

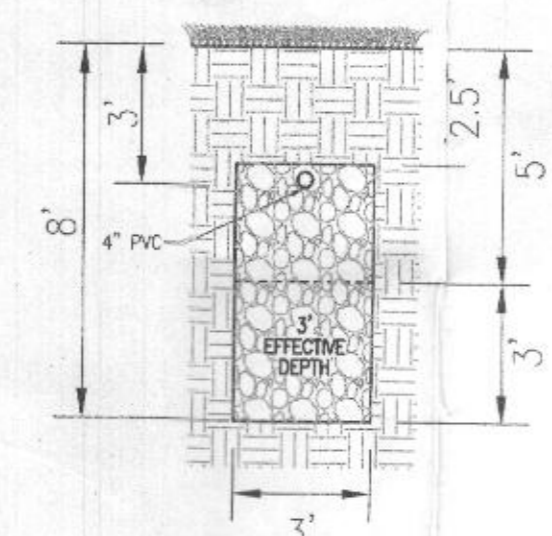
INITIAL SYSTEM:
5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
938 SQ. FT. / 2 (TRENCH WIDTH) x .44 (SIDEWALL REDUCTION) = 206 LINEAR FEET
206 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
(4 TRENCHES OF 52 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:
5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
938 SQ. FT. / 3 (TRENCH WIDTH) x .50 (SIDEWALL REDUCTION) = 156 LINEAR FEET
156 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
(3 TRENCHES OF 52 FEET IN LENGTH)

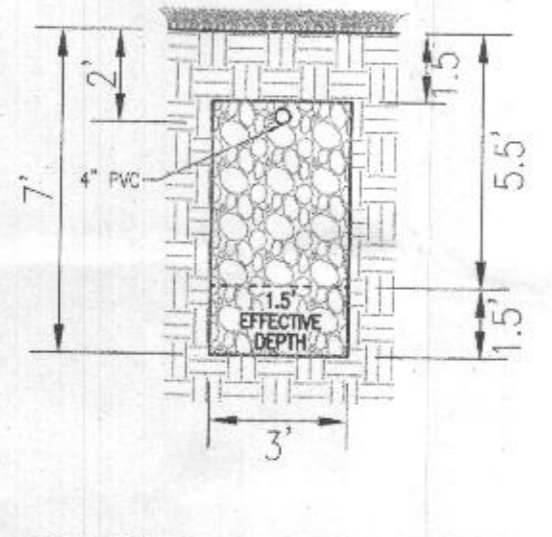
SECOND REPLACEMENT SYSTEM:
5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
938 SQ. FT. / 3 (TRENCH WIDTH) x .71 (SIDEWALL REDUCTION) = 222 LINEAR FEET
224 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
(4 TRENCHES OF 56 FEET IN LENGTH)



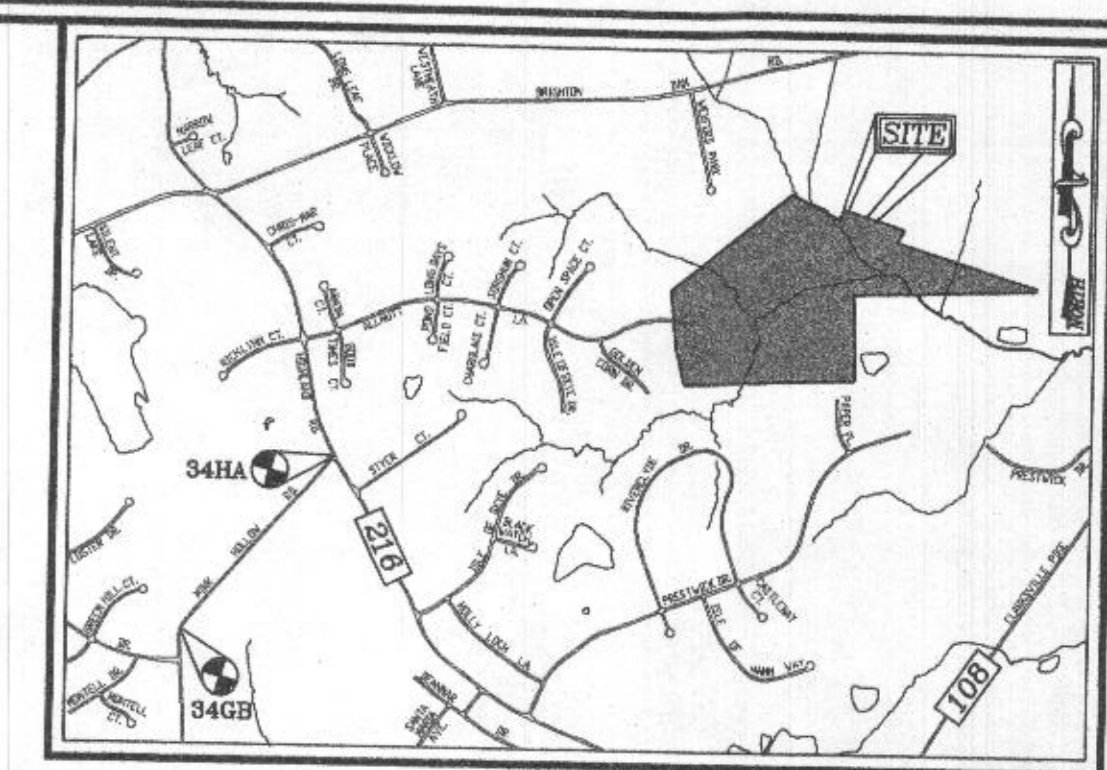
INITIAL SYSTEM
TRENCH DETAIL
NOT TO SCALE



1ST REPLACEMENT SYSTEM
TRENCH DETAIL
NOT TO SCALE



2ND REPLACEMENT SYSTEM
TRENCH DETAIL
NOT TO SCALE



VICINITY MAP
SCALE: 1"=2000'
ADC MAP: PAGE: 31 / GRID: B2, B3, & C2

BENCHMARKS
HOWARD COUNTY BENCHMARK 34GB (CONC. MON.)
N 553966.73 E 1317752.53 ELEV. 505.18
LOCATION: MARK HOLLOW RD. 0.45 MI. SW OF
HIGHLAND RD.
HOWARD COUNTY BENCHMARK 34HA (CONC. MON.)
N 555780.15 E 1319355.57 ELEV. 535.23
LOCATION: CORNER OF HIGHLAND RD. & WINK
HOLLOW RD.

- LEGEND:
- PROPERTY LINE
 - RIGHT-OF-WAY LINE
 - ADJACENT PROPERTY LINE
 - EXISTING EDGE OF PAVING
 - EXISTING STREAM BUFFER
 - EXISTING TRENCH
 - PROPOSED TRENCH
 - EXISTING SPECIMEN TREES
 - EXISTING WOOD FENCE
 - EX. PUBLIC 100-YEAR FLOOD PLAN
 - PROP. PRIVATE USE-IN-COMMON ACCESS EASEMENT
 - PROP. PRIVATE SWM, DRAINAGE & UTILITY EASEMENT
 - EXISTING 10' CONTOUR
 - EXISTING 2' CONTOUR
 - PROPOSED 10' CONTOUR
 - PROPOSED 2' CONTOUR
 - APPROVED SEWAGE DISPOSAL AREA (SDA)
 - APPROVED WELL AREA
 - EXISTING WELL (TO BE ABANDONED)
 - EXISTING WELL
 - PASSED PERC. TEST
 - FAILED PERC. TEST

Approved Septic System Plan
Howard County Health Department
500-gallon Septic Tank
to Gravity Distribution
for 5-bedroom residence
Date: 10/27/21
Signature: [Signature]

- GENERAL 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 TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD RUN TOPOGRAPHICAL SURVEYS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH AND MAY OF 2016.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWNDRAINMENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN USING ALL REASONABLE EFFORTS.
 - THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 - ABANDON EXISTING SEPTIC TANK, REMOVE EXISTING DISTRIBUTION BOX AND SEAL PIPES LEADING TO TRENCHES THAT ARE TO BE ABANDONED.

OWNER: ESTATES AT RIVER HILL, LLC
MICHAEL P. PALA, MEMBER
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

DEVELOPER: TRINITY HOMES MARYLAND, LLC
3875 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

THE ESTATES AT RIVER HILL - LOT 12
13600 OLIVIA WAY
HIGHLAND, MD 20777

PARCEL: 989 GRID: 23 ZONED: RR-DEO
TAX MAP: 18487 / F. 262 L. 18487 / F. 262
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLCOTT CITY, MD 21043
P: 410-461.7666 F: 410-461.8961 www.timmons.com

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: OCTOBER 2021
SCALE: AS SHOWN
W.O. NO.: 15-39

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. 16183
EXPIRATION DATE: 09-27-2022

1 SHEET 2



GREGORY I. DESROCHES
LIANE H. DESROCHES
TM: 34 PARCEL: 261
WATERFORD SEC. 2
L. 1834 / F. 181
PLAT: 7671
LOT: 16
6.07 AC.
USE: RESIDENTIAL
ZONED: RR-DEO

NON-BUILDABLE
PRESERVATION
PARCEL 'A'
6,073 SF
TO BE OWNED BY
THE HOA WITH
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NON-BUILDABLE
PRESERVATION
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3.16 AC.
TO BE OWNED BY THE DEPT.
OF RECREATION AND PARKS

NON-BUILDABLE
PRESERVATION
PARCEL 'C'
17.31 AC.
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OF RECREATION AND PARKS

PLAN VIEW
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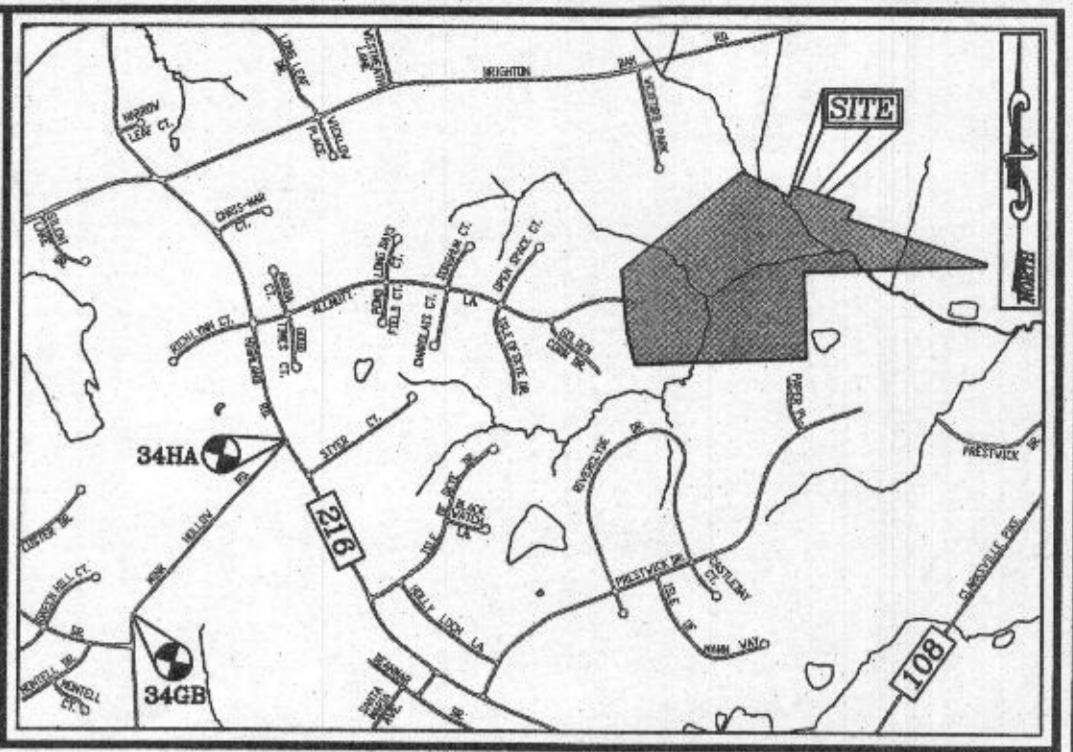
TRENCH NO.	TRENCH LENGTH	INVERTION OF TRENCH	EXISTING TRENCH	EXISTING DEPTH
1	418.52	414.32	422.52	
2	417.67	413.67	421.67	
3	417.86	413.86	421.86	
4	417.86	413.86	421.86	

SYSTEM CALCULATIONS:

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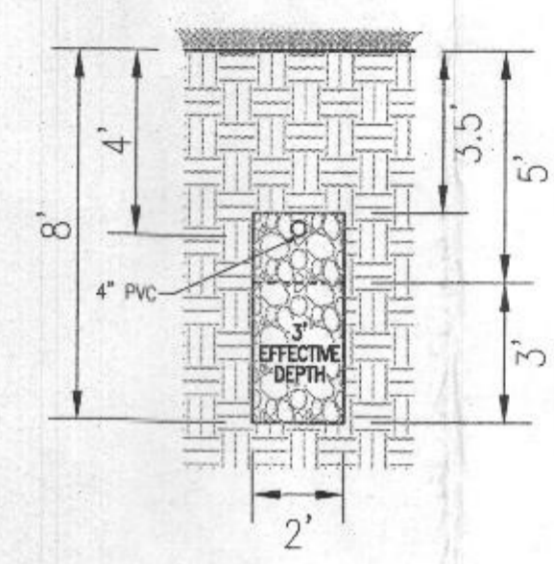


VICINITY MAP
SCALE: 1"=2000'
ADC MAP: PAGE: 31 / GRID: B2, B3, & C2

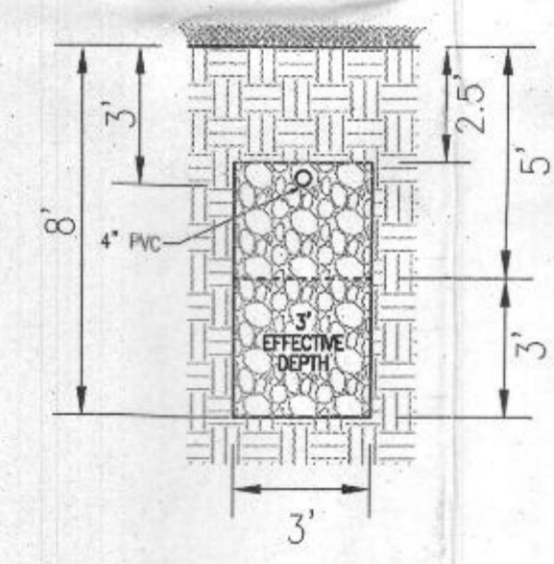
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LEGEND:

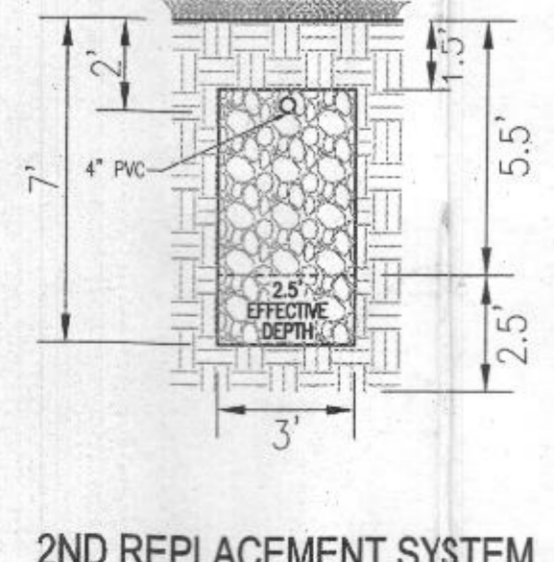
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- PASSED PERC. TEST
- FAILED PERC. TEST



INITIAL SYSTEM
TRENCH DETAIL
NOT TO SCALE



1ST REPLACEMENT SYSTEM
TRENCH DETAIL
NOT TO SCALE



2ND REPLACEMENT SYSTEM
TRENCH DETAIL
NOT TO SCALE

Approved Septic System Plan
Howard County Health Department
Dana Barlow 5/15/19
Signature
Revised house type
10/22/21

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OWNER
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MICHAEL PFALZ, MEMBER
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ELLICOTT CITY, MD 21043
(410) 480-0023

DEVELOPER
TRINITY HOMES MARYLAND, LLC
3675 PARK AVE., SUITE 301
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ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
THE ESTATES AT RIVER HILL - LOT 12
13800 OLIVIA WAY
HIGHLAND, MD 20777

PARCEL: 389
TAX MAP: 34 GRID: 23
5TH ELECTION DISTRICT

ZONED: RR-DEO
L. 18487 / F. 262
HOWARD COUNTY, MARYLAND

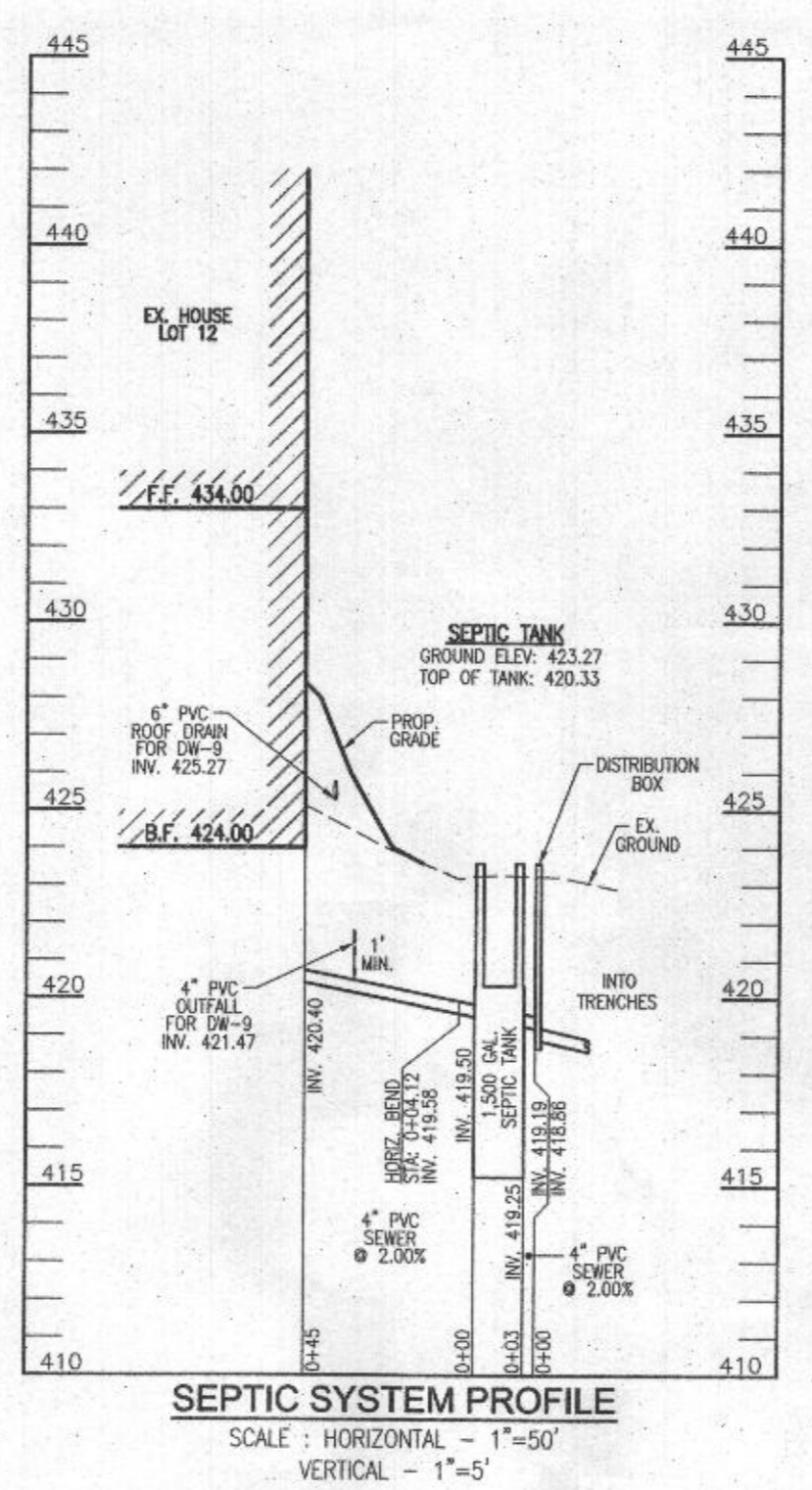
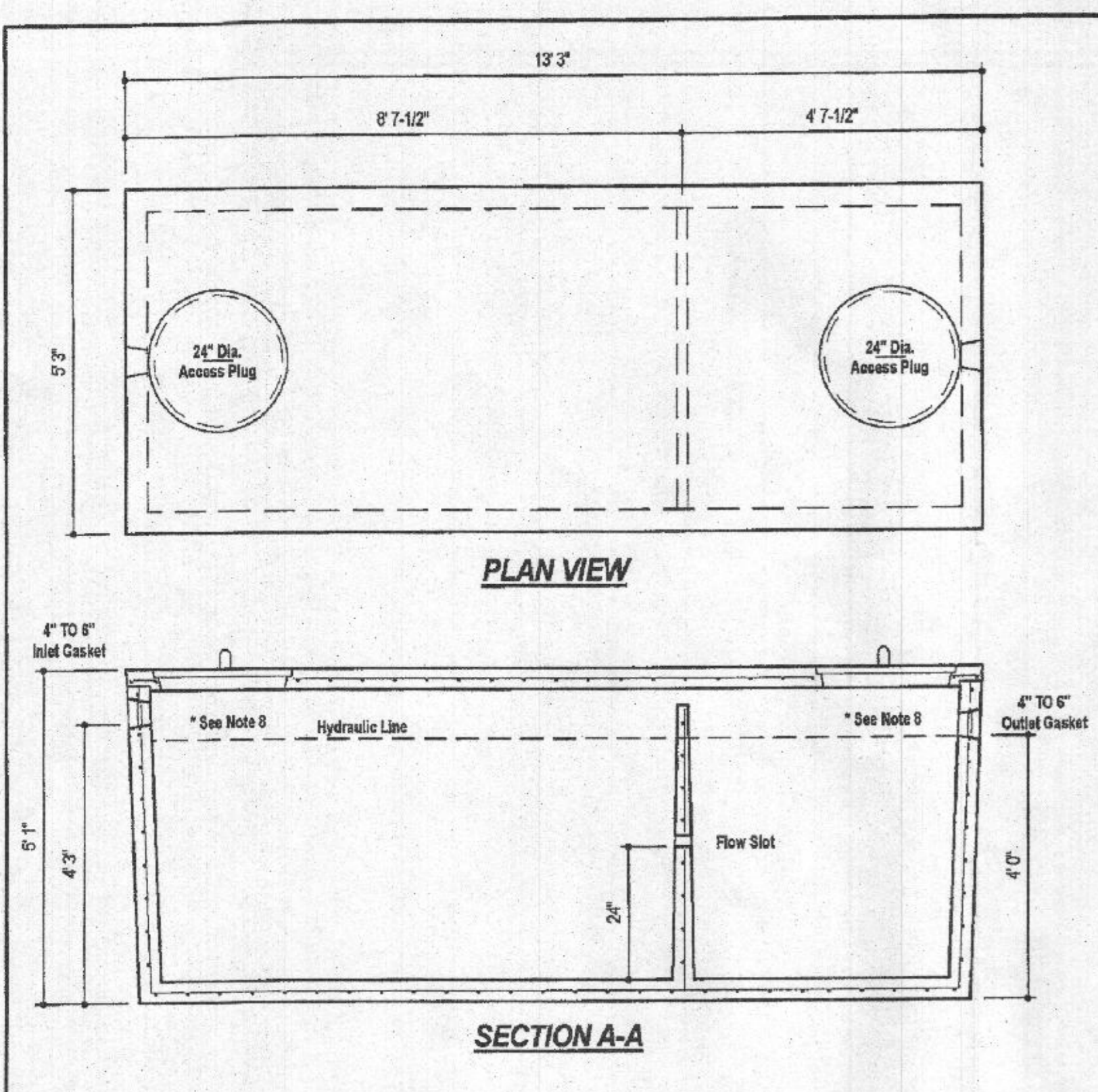
ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
3300 N. RIDGE ROAD, SUITE 110
ELLICOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8961

PROFESSIONAL CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 11813, EXPIRATION DATE: 09-27-2020

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: MAY 2019
SCALE: AS SHOWN
W.O. NO.: 15-39

1 SHEET OF 2



- DESIGN DATA & GENERAL NOTES**
- [1] Concrete strength $f'c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
 - [2] Cement - Portland Type III per ASTM C 150-92.
 - [3] Admixtures & plasticizers per ASTM C 260-99 & C 494-92.
 - [4] Reinforcing per ASTM A191, Min. 1-1/2" cover.
 - [5] Top slab sealed with butyl rope mastic.
 - [6] 4" wall, base, & top thickness.
 - [7] Max 5-1/2" of cover.
 - [8] Depending on use of tank, Inlet & Outlet baffles may be required by code.

WEIGHT = 16,750 lbs.

<p>6264 Race Road Elkridge, Maryland 21075 Tel. 410.768.1434 Fax. 410.798.1438 www.mayerbrosprecast.com</p>	<p>1,500 GALLON TANK (Non-Traffic) 2-Compartment</p> <p>Stock Item</p>		
	Dwg. No. 1500-2C	No Scale	Aug. 11, 2008

OWNER
ESTATES AT RIVER HILL, LLC
MICHAEL PFAU, MEMBER
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

DEVELOPER
TRINITY HOMES MARYLAND, LLC
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

THE ESTATES AT RIVER HILL - LOT 12
13600 OLIVIA WAY
HIGHLAND, MD 20777

PARCEL: 389
TAX MAP: 34 GRID: 23
5TH ELECTION DISTRICT

ZONED: RR-BE3
L 18487 / F 262
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
ENGINEERING, INC.
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3300 N. RIDGE ROAD, SUITE 110
ELLCOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8999

	DESIGN BY: RHY	<p>PROFESSIONAL CERTIFICATE</p> <p>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. 18193, EXPIRATION DATE 08-27-2020.</p>
	DRAWN BY: JMR	
	CHECKED BY: RHY	
	DATE: MAY 2019	
	SCALE: AS SHOWN	
W.O. NO.: 15-39	2 SHEET OF 2	