

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: 4/10/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 564834
 APPROVAL DATE: 04/23/2019 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 13608 OLIVIA WAY, HIGHLAND, MD 20777 (frmr. 13550 ALLNUTT LANE)
 SUBDIVISION: THE ESTATES AT RIVER HILL LOT: 14 TAX ID: 05-392284
 CONTRACTOR: Freedom Septic EMAIL: kasey@freedomseptic.com
 CONTRACTOR ADDRESS: 2809 Liberty Road, Sykesville, MD 21784 PHONE: 410-795-2947
 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

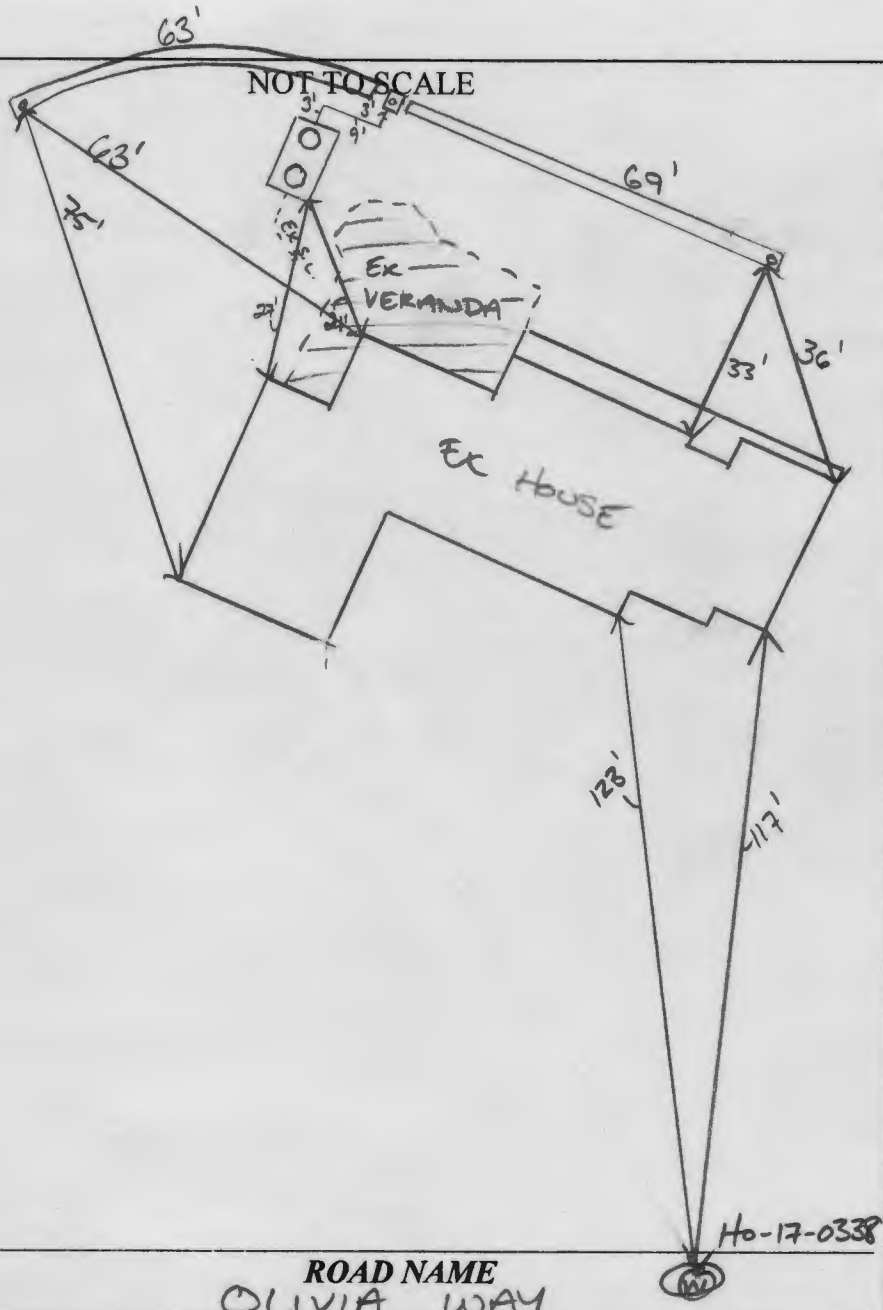
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>132</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	PUMP DRY THE SEPTIC TANK BEING REPLACED, ABANDON THE SEPTIC TANK AND DISTRIBUTUION BOX, AND SEAL PIPES LEADING TO THE TRENCHES BEING REPLACED.	

ISSUED BY: R BRICKER ISSUE DATE: 4/10/2019 EXPIRATION DATE: 4/10/2020

- 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 DOWNGRAIENT 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3	2	8
NUMBER OF TRENCHES		2
TOTAL LENGTH		132
ABSORPTION AREA		396 ft ² + SIDE WALL
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	-1.5
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	INLET
WATERTIGHT TEST	N/A
SLOTTED	YES
DATE ON LID	3/19/2019

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

4/18/2019 TRENCHES PAINTED ON CONFIRMED CONTOUR. 2 x 66' TRENCHES. EX SYSTEM TO BE ABANDONED AND SEALED. OK TO START. (H)

INSTALLATION:

4/23/2019 EX SEPTIC ABANDONED AND SEALED. 1500 g TANK SET AND CONNECTED INTO EX. SHC. D BOX INSTALLED AND CONNECTED. ONE TRENCH COMPLETE. (H) (PM) TRENCHES COMPLETE. D BOX LEVELED WITH SPEED LEVELS. OK TO BACKFILL. (H)

FINAL INSPECTOR [Signature] DATE OF APPROVAL 04/23/2019

The logo for Freedom Septic Service, Inc. features a black curved shape on the left side that tapers to the right, framing the company name. The name is written in a bold, black, sans-serif font.

Freedom Septic Service, Inc.

2809 Liberty Rd.
Sykesville, MD 21784
410-795-2947- Phone
410-549-1163 - Fax
www.poophappens.com

April 30th, 2019

To whom it may concern;

Our company, Freedom Septic Service completed the job for Trinity homes at the Estates of River Hill. We installed a new Septic tank, and upon doing so, we pumped, and crushed the old existing tank.

If you have any further questions or concerns, please feel free to reach us at the number provided above anytime.

Sincerely,

Bruce Bopst

Approved 9/20/84

PERMIT

P 34242

A 31886

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH*

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
992-2330

05-392284
INDEXED

ELLICOTT CITY
DISTRICT 5th
DATE 8/20/84

C. C. Cissel IS PERMITTED TO INSTALL ALTER

ADDRESS 14079 Brighton Dam Road, Clarksville, MD 21029 PHONE 854-2006

SUBDIVISION Allnutt ROAD 13550 Allnutt Lane LOT 1

PROPERTY OWNER Dr. & Mrs. R. Gelber

ADDRESS 4090 Old Columbia Road
Ellicott City, Maryland

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES NO

SEPTIC TANK CAPACITY 2000 GALLONS NUMBER OF BEDROOMS 6

TRENCH SYSTEM to contain 168 sq. ft. effective sidewall absorption area per bedroom to begin below the first 3 foot of non-porous soil. Trench inlet no deeper than 3 feet below original grade and trench bottom no deeper than 7 feet below original grade. Start the first trench 70 feet from the 1353.99 ft. long lot line and 260 feet from the 610.42 ft. long lot line and proceed to dig trench on level ground, the necessary distance, but not over 100 feet in length. Start the second trench parallel to downhill of and 10 feet away from the first trench. Use a distribution box to connect trenches to septic tank. Call for inspection of trenches before gravel is installed.

PLANS APPROVED BY Frank Skinner DATE 11/16/82

COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

NOTE: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER. NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH.

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS.

PERMIT VOID AFTER THREE YEARS.

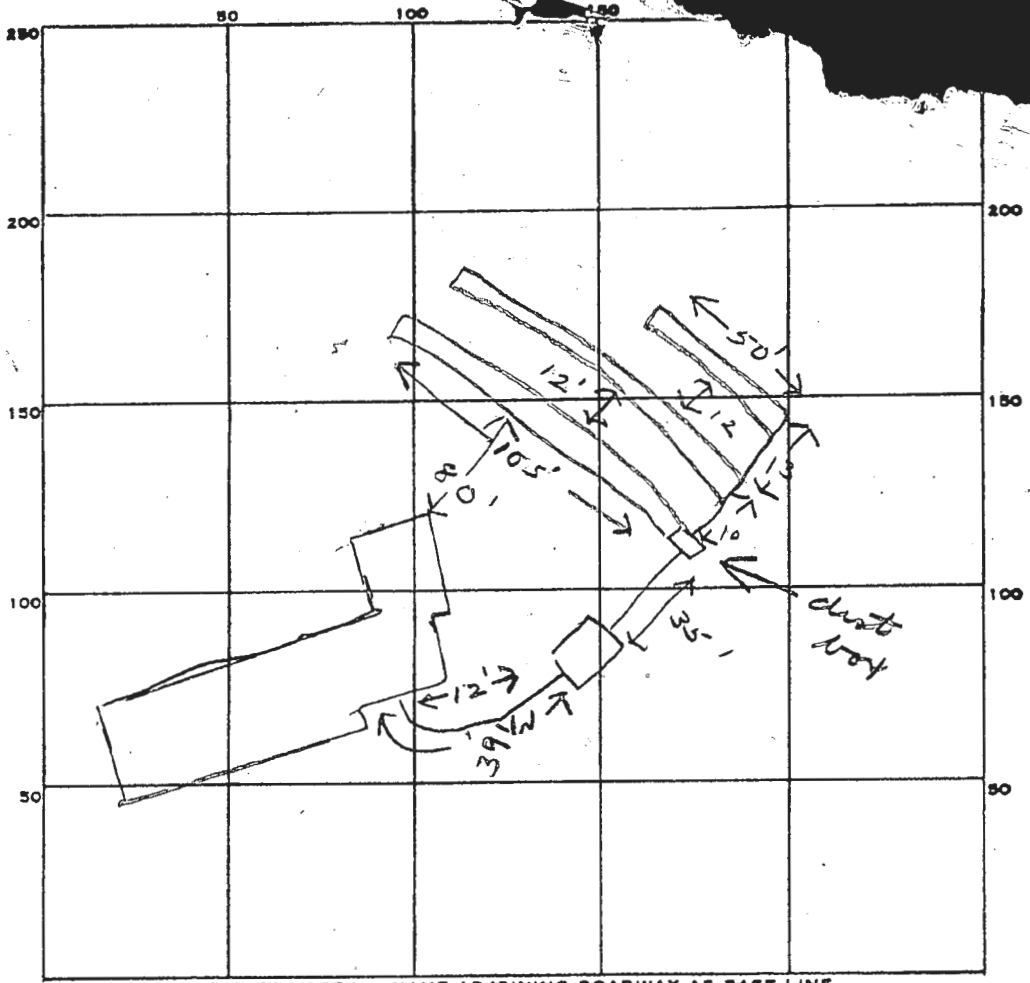
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

A 31886



168
6
1008

INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

PERMIT CARD _____

SEPTIC TANK, LEVEL 2000 gal CLEANOUTS ST

DISTRIBUTION BOX, LEVEL ✓

TILE FIELD, DEPTH 7 FT. TRENCH WIDTH 2 FT. 260₄

GRAVEL DEPTH 4 IN. TOTAL LENGTH 260 FT.

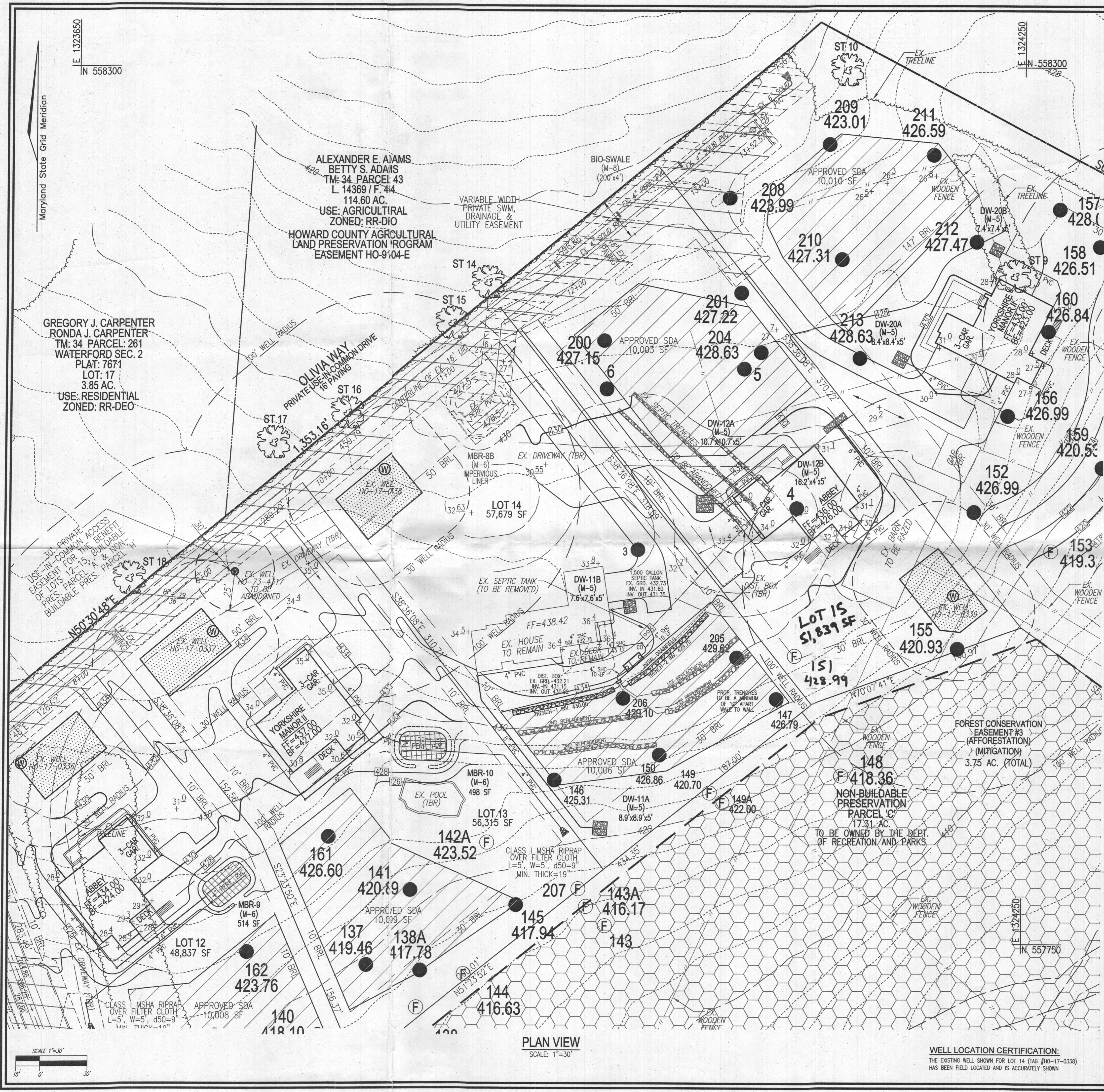
NUMBER OF TRENCHES 3 TOTAL BOTTOM AREA 1040

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 1040 SQ. FT.

REMARKS 9/20/84 OK to cover work to dust box
OK to add stone in trenches if
9/20/84 OK to cover all work if

DATE SYSTEM APPROVED 9/20/84 INSPECTOR STayed



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. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

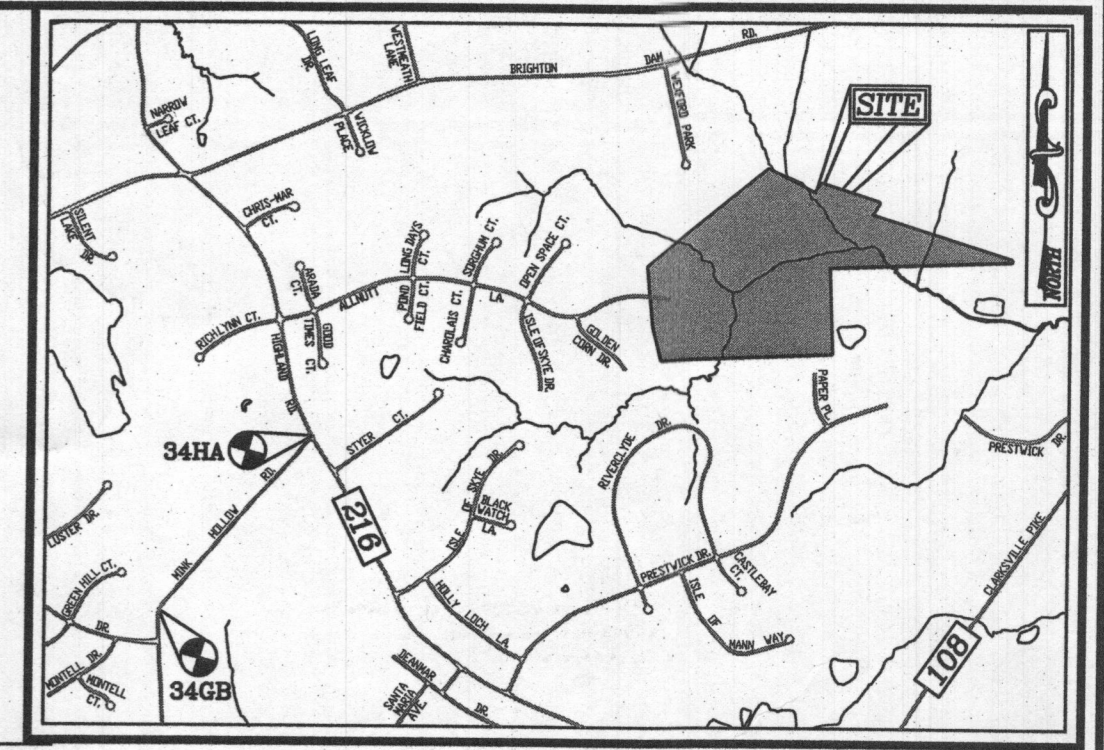
INITIAL SYSTEM TRENCH INFO.			
TRENCH	TRENCH LENGTH	TRENCH WIDTH	INTO BOTTOM OF EXISTING TRENCH
1	66'	43.00'	424.00
2	66'	429.70'	423.70

SYSTEM CALCULATIONS:

INITIAL SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x .63 (SIDEWALL REDUCTION) = 131 LINEAR FEET
 132 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
 (2 TRENCHES OF 66 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 1.2 ABSORPTION RATE = 625 SQ. FT.
 625 SQ. FT. / 3 (TRENCH WIDTH) x .63 (SIDEWALL REDUCTION) = 131 LINEAR FEET
 132 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
 (2 TRENCHES OF 66 FEET IN LENGTH)

SECOND 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 SECOND REPLACEMENT SYSTEM.
 (2 TRENCHES OF 78 FEET IN LENGTH)



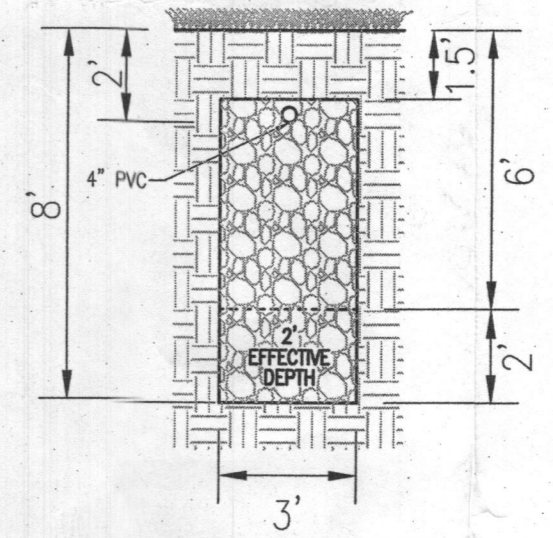
VICINITY MAP

SCALE: 1"=2000'
 ADC MAP: PAGE: B1 / GRID: B2, B3, & C2

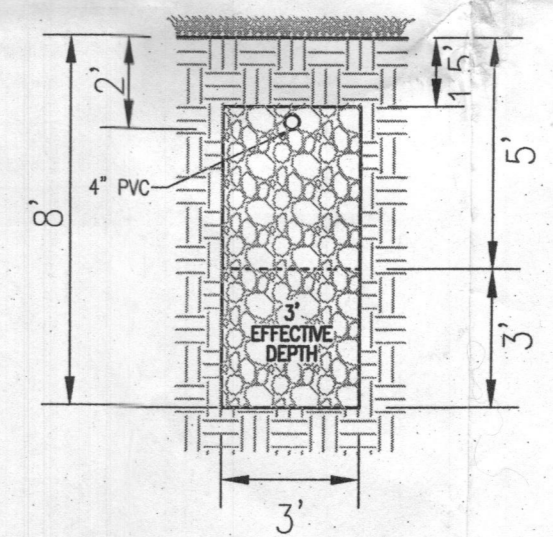
BENCHMARKS
 HOWARD COUNTY BENCHMARK 34GB (CONC. MON.)
 N 553966.73 E 1317752.53 ELEV. 505.18
 LOCATION: MINK HOLLOW RD. 0.45 MI. SW OF HIGHLAND RD.
 HOWARD COUNTY BENCHMARK 34HA (CONC. MON.)
 N 555780.15 E 1319355.57 ELEV. 535.23
 LOCATION: CORNER OF HIGHLAND RD. & MINK HOLLOW RD.

LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING EDGE OF PAVING
- EXISTING STREAM BUFFER
- EXISTING TREELINE
- PROPOSED TREELINE
- 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



INITIAL SYSTEM & 1ST REPLACEMENT SYSTEM TRENCH DETAIL
 NOT TO SCALE



2ND REPLACEMENT SYSTEM TRENCH DETAIL
 NOT TO SCALE

GENERAL NOTES:

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEERS 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' DOWNGRADIENT 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 PFAU, MEMBER
 3675 PARK AVE., SUITE 301
 ELLICOTT CITY, MD 21043
 (410) 480-0023

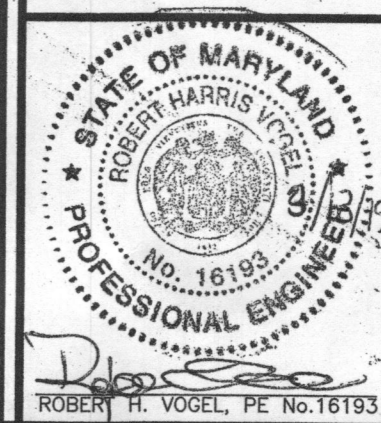
DEVELOPER
 TRINITY HOMES MARYLAND, LLC
 3675 PARK AVE., SUITE 301
 ELLICOTT CITY, MD 21043
 (410) 480-0023

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

THE ESTATES AT RIVER HILL - LOT 14
 13608 OLIVIA WAY
 HIGHLAND, MD 20777

PARCEL: 389 TAX MAP: 34 GRID: 23 ZONED: RR-DEO
 5TH ELECTION DISTRICT L 18487 / F. 282
 HOWARD COUNTY, MARYLAND

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

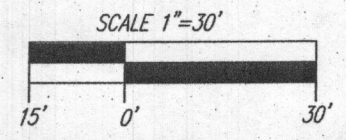


PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 26199 EXPIRATION DATE: 08-27-2020

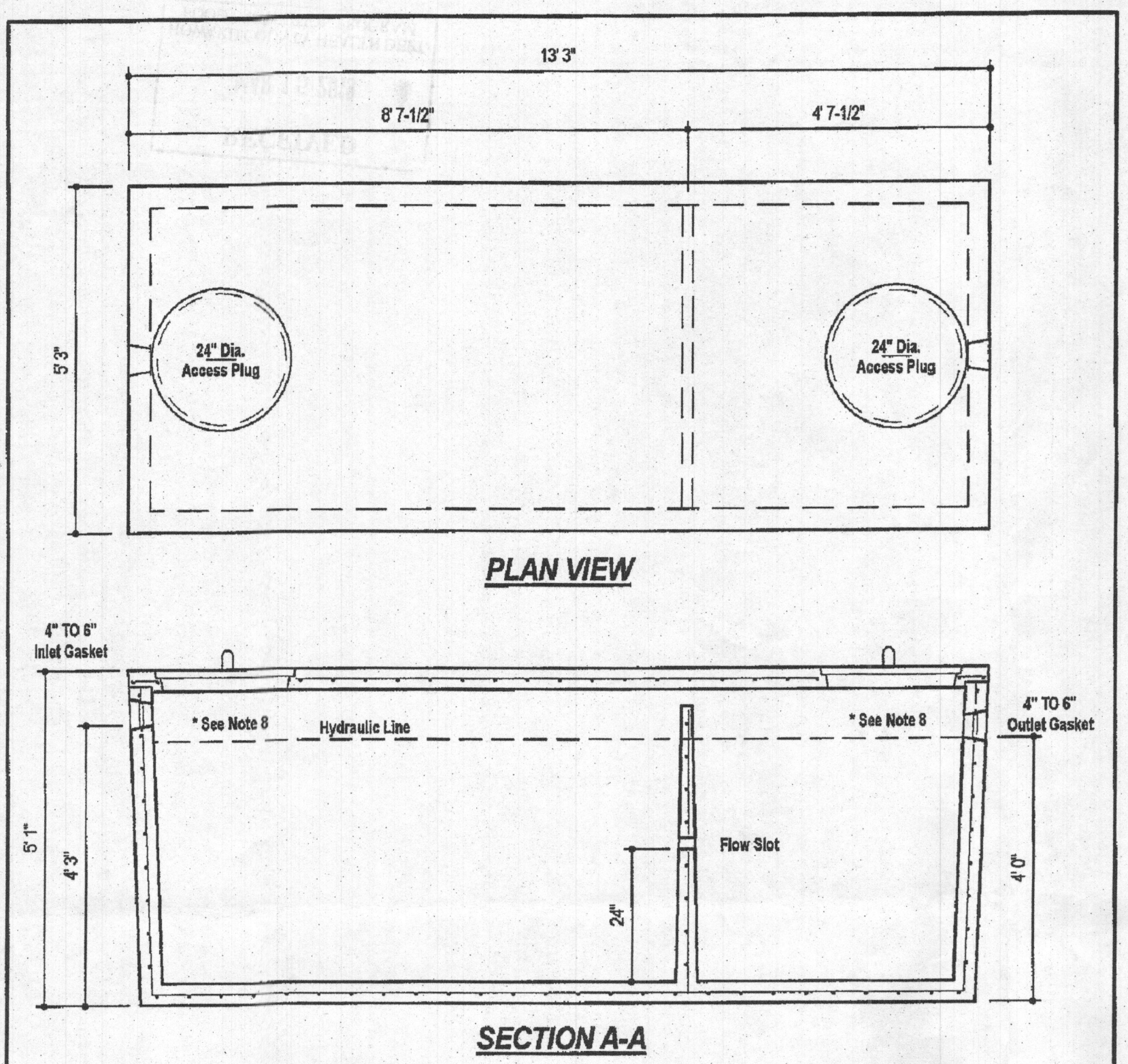
DESIGN BY: RHV
 DRAWN BY: JMR
 CHECKED BY: RHV
 DATE: MARCH 2019
 SCALE: AS SHOWN
 W.O. NO.: 15-39

WELL LOCATION CERTIFICATION:
 THE EXISTING WELL SHOWN FOR LOT 14 (TAC #HO-17-0336) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN

PLAN VIEW
 SCALE: 1"=30'



*Approved Septic System Plan
 1500 gal Septic Tank (replacement)
 To Gravity Drain Field
 R. Vogel
 Signature
 3/20/2019*



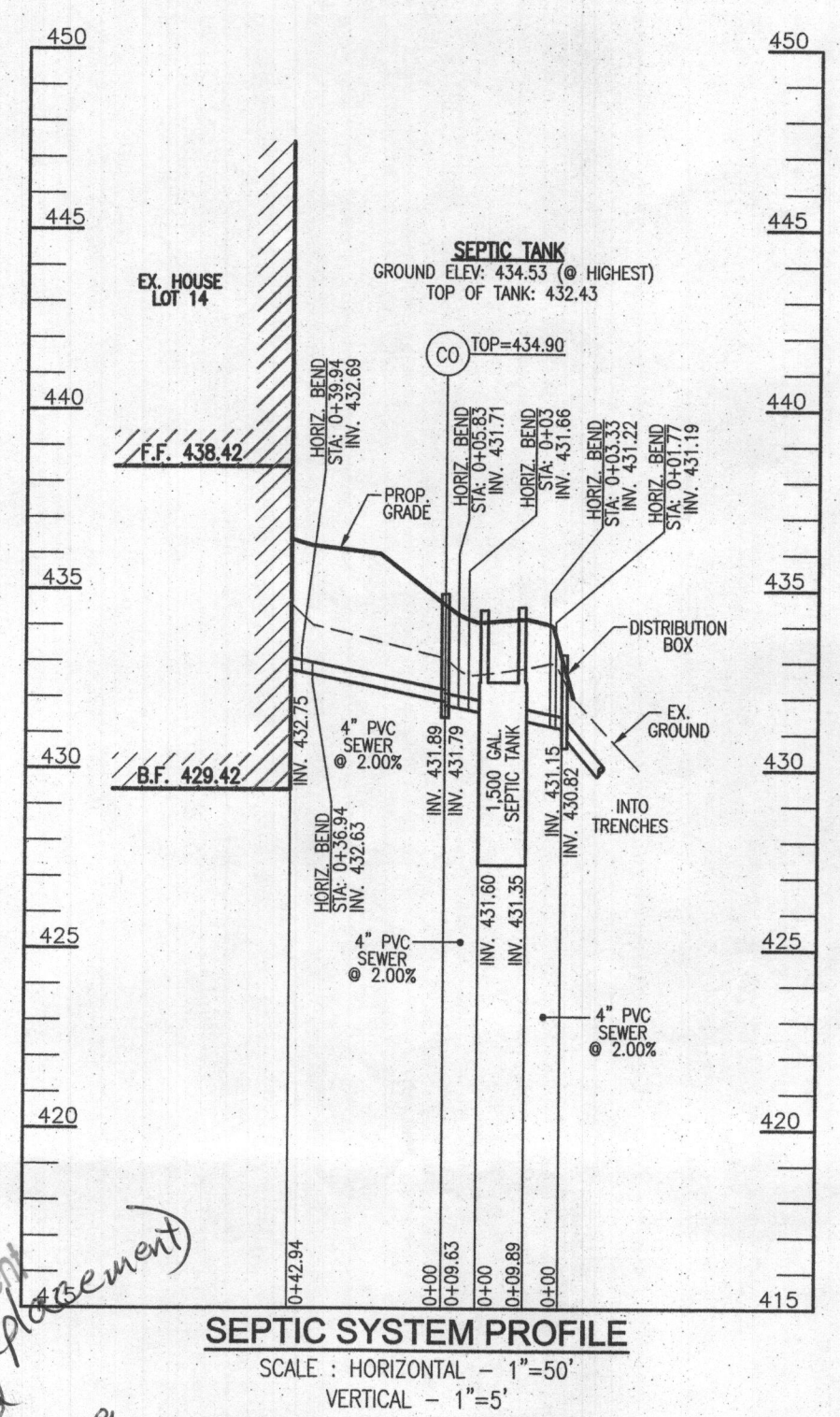
- DESIGN DATA & GENERAL NOTES**
- [1] Concrete strength $f'_c=4000$ p.s.i. @ 28 days. Density = 150 pcf.
 - [2] Cement - Portland Type III per ASTM C 150-92.
 - [3] Admixtures & plasticizers per ASTM C 300-99 & C 694-92.
 - [4] Reinforcing per ASTM A630. Min. 1-1/2" cover.
 - [5] Top slab sealed with butyl rope mastic.
 - [6] 4" wall, base, & top thickness.
 - [7] Max 3-1/2" of cover.
 - [8] Depending on use of tank, Inlet & Outlet baffles may be required by code.

WEIGHT = 16,750 lbs.

MBI
Mayer Bros., Inc.
6364 Race Road
Elkridge, Maryland 21075
Tel. 410.766.1434
Fax. 410.766.1438
www.mayerbrosgroup.com

**1,500 GALLON TANK (Non-Traffic)
2-Compartment**
Stock Item
Dwg. No. 1600-2C No Scale Aug. 11, 2008

*Approved Septic System Plan
Howard County Health Department
1500 gal Septic Tank (Replacement)
To Gravity Drain Field
R. Buehler
Signature
3/20/2019
Date*



SEPTIC SYSTEM PROFILE
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'

OWNER
ESTATES AT RIVER HILL, LLC
MICHAEL PFALL, 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 14
13608 OLIVIA WAY
HIGHLAND, MD 20777

PARCEL: 389 ZONED: RR-DEO
TAX MAP: 34 GRID: 23 L 16487 / F. 282
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

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ENGINEERS • SURVEYORS • PLANNERS
3300 N. RIDGE ROAD, SUITE 110 TEL: 410.461.7666
ELLCOTT CITY, MD 21043 FAX: 410.461.8961

	DESIGN BY: RHV	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. 16193 EXPIRATION DATE: 08-27-2020
	DRAWN BY: JMR	
	CHECKED BY: RHV	
	DATE: MARCH 2019	
	SCALE: AS SHOWN	
W.O. NO.: 15-39	2 SHEET OF 2	