

Howard County Health Department

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

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

RECEIPT DATE: 12/23/19 ONSITE SEWAGE DISPOSAL SYSTEM P 567281

APPROVAL DATE: 02/20/2025 PERMIT: CONSTRUCTION A

PROPERTY ADDRESS: 13514 ALLNUTT LANE, HIGHLAND, MD 20777

SUBDIVISION: THE ESTATES AT RIVER HILL LOT: 10 TAX ID:

CONTRACTOR: FREEDOM SEPTIC EMAIL: casey@freedomseptic.com

CONTRACTOR ADDRESS: 2809 LIBERTY ROAD, SYKESVILLE, MD 21784 PHONE: 410-795-2947

PROPERTY OWNER: MICHAEL PFAU EMAIL: tkeane@trnityhomes.com

OWNER ADDRESS: 3675 PARK AVENUE, 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: [X] GRAVITY [] PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

Table with 2 columns: Field Name, Value. Fields include TRENCHES (Linear feet required: 235, Inlet depth: 2.5, Trench width: 2', Maximum bottom depth: 8, Minimum space between trenches: 10, Effective area beginning depth: 5.5), LOCATION (Per approved site plan...), NOTES.

ISSUED BY: R Freemon ISSUE DATE: 12/23/19 EXPIRATION DATE: 12/23/20

- 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.

279189279189

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	2.5'	8'
NUMBER OF TRENCHES		3
TOTAL LENGTH		234'
ABSORPTION AREA		702 SF ^{+ SIDE WALL}
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

PRE-CONSTRUCTION:

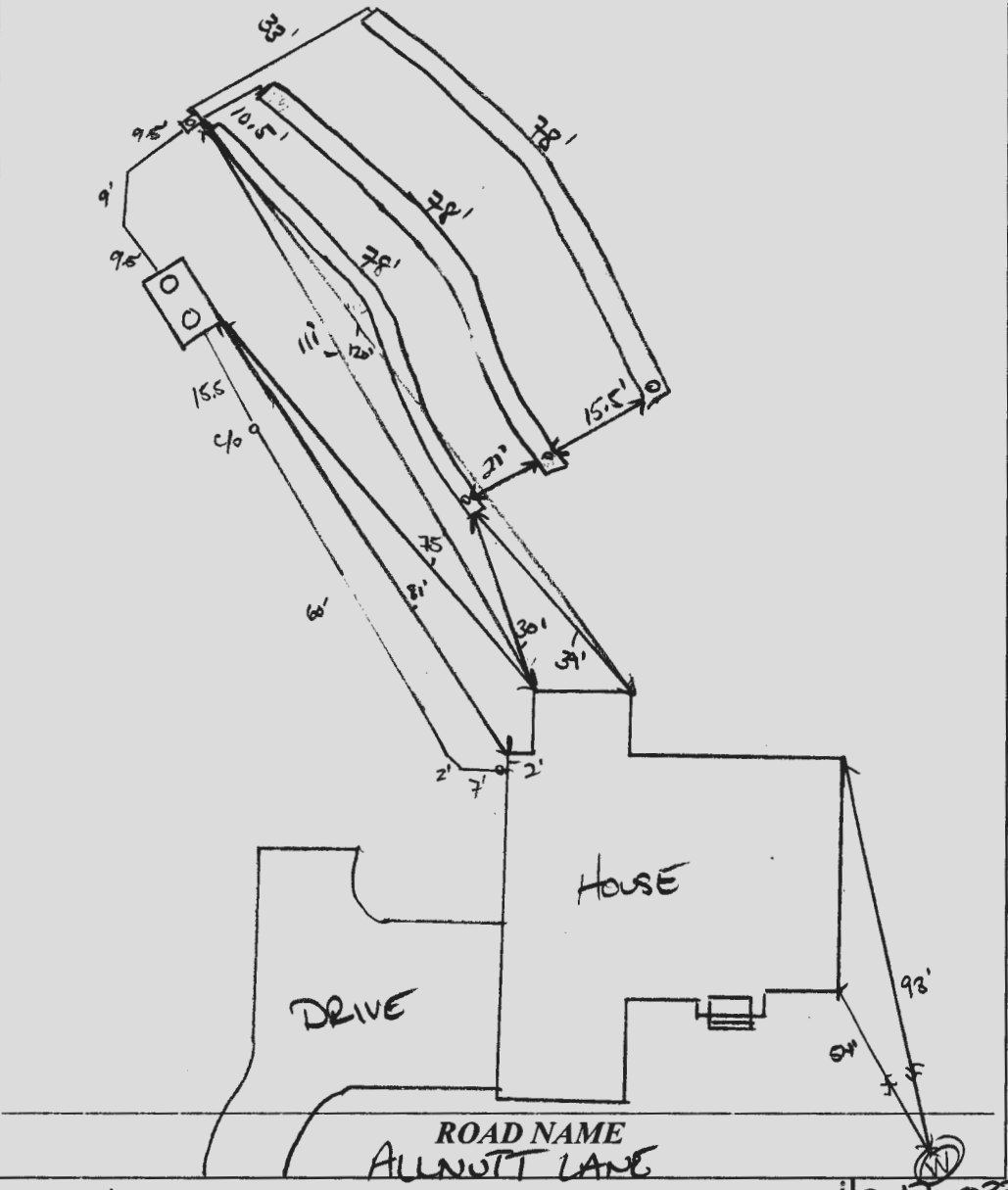
SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL

MANUFACTURER	BARILON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	18" - 12"
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	12/20/2019

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	_____



#0-17-0334

01/05/2020 HUNG SEWER. TANK, SDA, TRENCHES STAKED. KEEP DOG-LOG IN TRENCH FOR LINEAR FEET. CONFIRMED CONTOUR. OK TO START

INSTALLATION: 02/19/2020 SHC, TANK AND D BOX SET. LOWER TRENCH UNDER CONSTRUCTION. 02/20/2020 TRENCHES COMPLETE. APPROX. TRENCHES SHOWN ON ABOVE. D BOX LEVELLED W/ SPEED LEVELS

FINAL INSPECTOR

DATE OF APPROVAL

02/20/2020



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

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

**AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN
ON-SITE TREATMENT SYSTEM**

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and The Estates at River Hill, LLC ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 13514 Alcott Ln., Highland, MD 20777 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 0034, Block # , Parcel # 389, Deed Reference # and Tax Account # 05 061 938 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have and individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi/L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the maximum contaminate levels (MCL's) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce radionuclides.

WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.


NOW THEREFORE, the parties have agreed to the following terms and conditions:

1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the gross alpha, gross beta and radium levels to below their respective MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).

Website: www.hchealth.org Facebook: www.facebook.com/hocqhealth Twitter: @HoCoHealth

3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable gross alpha, gross beta (short and long term) and radium 226 / 228 levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warranty or guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department and the Owner. There are no additional terms other than as contained in this Agreement. This Agreement may not be modified except in writing signed by each of the parties or their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

The parties have signed this Agreement on the dates set forth below.

		8/16/20		
Owner	Date	Date	Buyer	Date

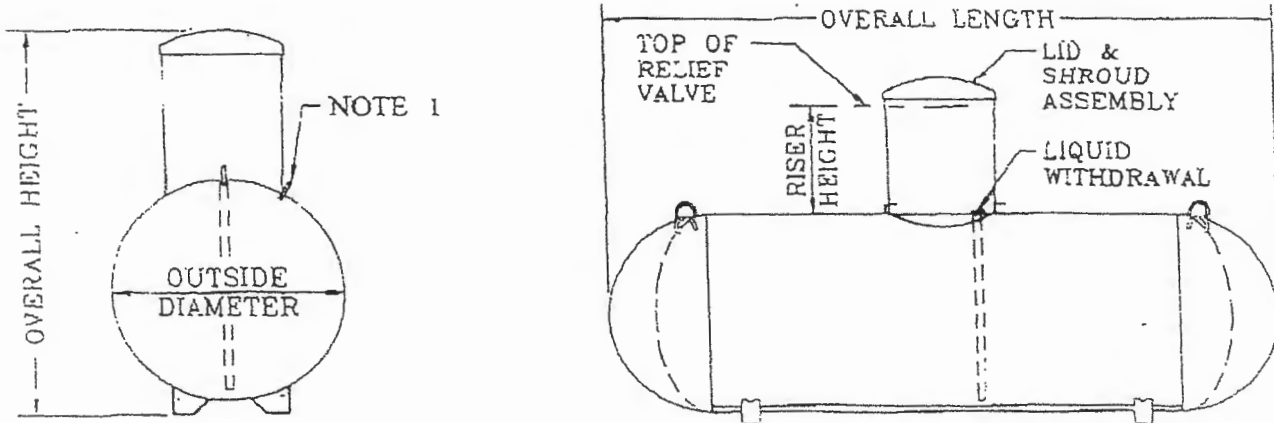
Owner	Date	Date	Buyer	Date

Howard County Health Department Date



TRINITY INDUSTRIES, INC.

Underground Vesse



General Specifications

Conforms to the latest edition and addenda of the ASME, Section VIII, div.1 code for Pressure Vessels. Complies with NFPA 58 and is listed by Underwriters Laboratories, Inc.

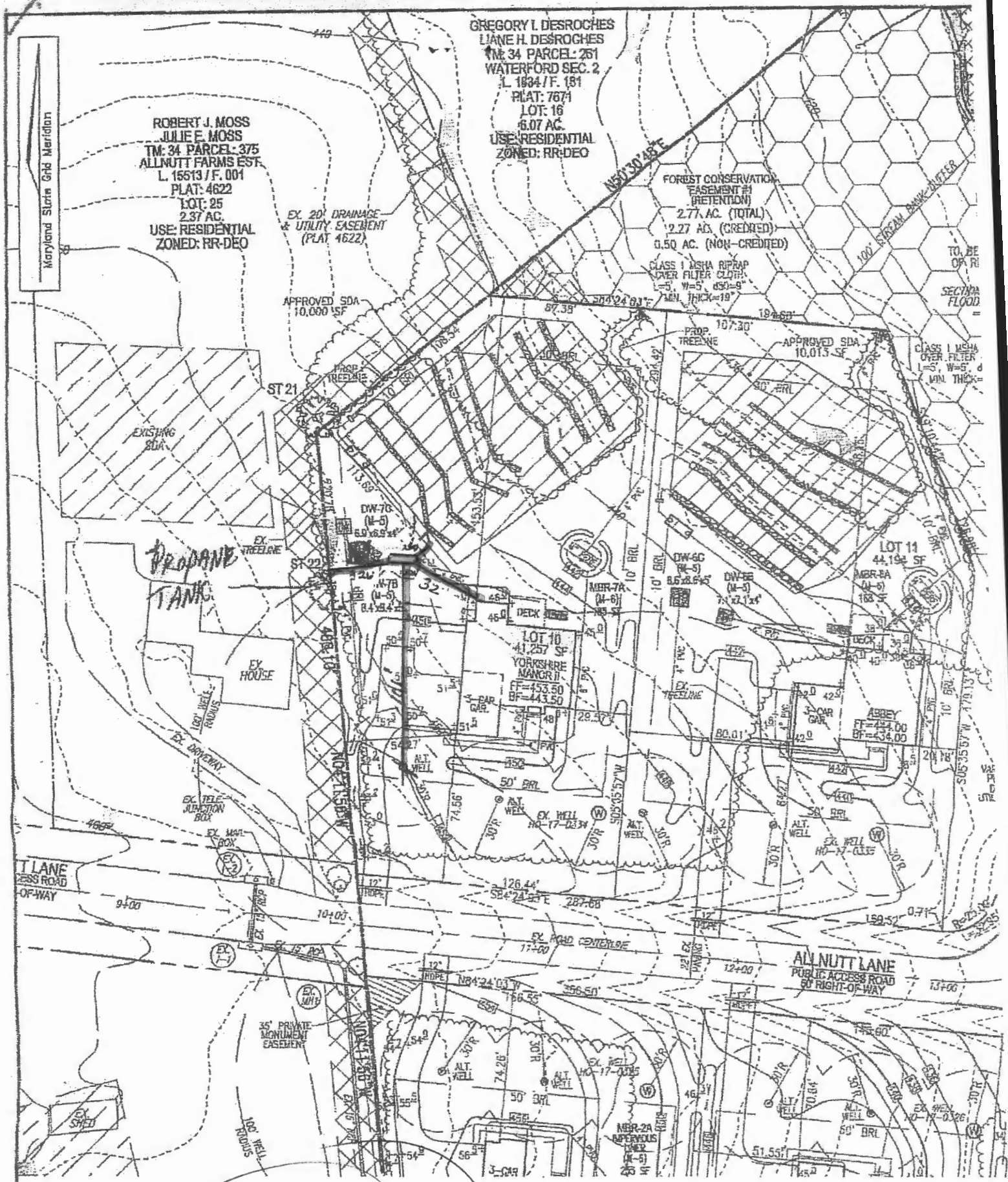
Rated at 250 psig from -20°F. to 125°F. All tanks may be evacuated to a full (14.7 psi) vacuum.

Vessel Finish: Coated with epoxy red powder.

Applicable federal, state or local regulations may contain specific requirements for protective coatings and cathodic protection. The purchaser and installer are responsible for compliance with such federal, state or local regulations.

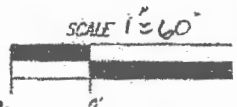
All vessel dimensions are approximate

WATER CAPACITY	OUTSIDE DIAMETER	HEAD TYPE	OVERALL LENGTH	OVERALL HEIGHT		WEIGHT	QUANTITY IN FULL LOAD
				14" Riser Height	28" Riser Height		
120 wg 454.2 L	24" 609.6 mm	Ellip	5' - 5 7/8" 1671.6 mm	3' - 9 7/8" 1165.2 mm	4' - 8 3/8" 1431.9 mm	252 lbs. 114.3 kg	63
250 wg 946.3 L	31.5" 800.1 mm	Hemi	7' - 2 1/2" 2197.1 mm	4' - 5 3/8" 1355.7 mm	5' - 3 3/8" 1609.7 mm	472 lbs. 214.1 kg	42
320 wg 1211.2 L	31.5" 800.1 mm	Hemi	8' - 11 3/4" 2736.9 mm	4' - 5 3/8" 1355.7 mm	5' - 3 3/8" 1609.7 mm	588 lbs. 266.7 kg	35
500 wg 1892.5 L	37.42" 950.5 mm	Hemi	9' - 10" 2997.2 mm	4' - 11 3/8" 1506.6 mm	5' - 9 7/8" 1773.2 mm	921 lbs. 417.8 kg	25
1000 wg 3785.0 L	40.96" 1040.4 mm	Hemi	15' - 10 7/8" 4846.6 mm	5' - 2 7/8" 1597.0 mm	6' - 1 3/8" 1863.7 mm	1731 lbs. 785.2 kg	15
2000 wg 3785.6 L	46.614" 1183.9 mm	Ellip	23' - 9 3/8" 7248.5 mm	5' - 8 13/16" 1747.8 mm	6' - 7 5/16" 2014.5 mm	3685 lbs. 1671.4 kg	8



Not approved
see revised
plan 12/4/19
dated

SITE PLAN
SCALE 1"=60'



SENT: 11-20-19

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
3200 N. RIDGE ROAD, SUITE 110
ELLICOTT CITY, MD 21043
TEL 410.451.7666
FAX 410.461.8961

OWNER
ESTATES AT RIVER HILL, LLC
MICHAEL PFALL, MEMBER
3675 PARK AVENUE, SUITE 301
ELLICOTT CITY, MD 21045
(410) 480-0023

DEVELOPER
TRINITY HOMES MARYLAND
3675 PARK AVENUE, SUITE
ELLICOTT CITY, MD 21043
(410) 480-0023

SCALE AS SHOWN
DRAWN BY JMR
CHECKED BY RHY
DATE APRIL 25, 2019
W. O. # 15-39
SHEET# 1 OF 4

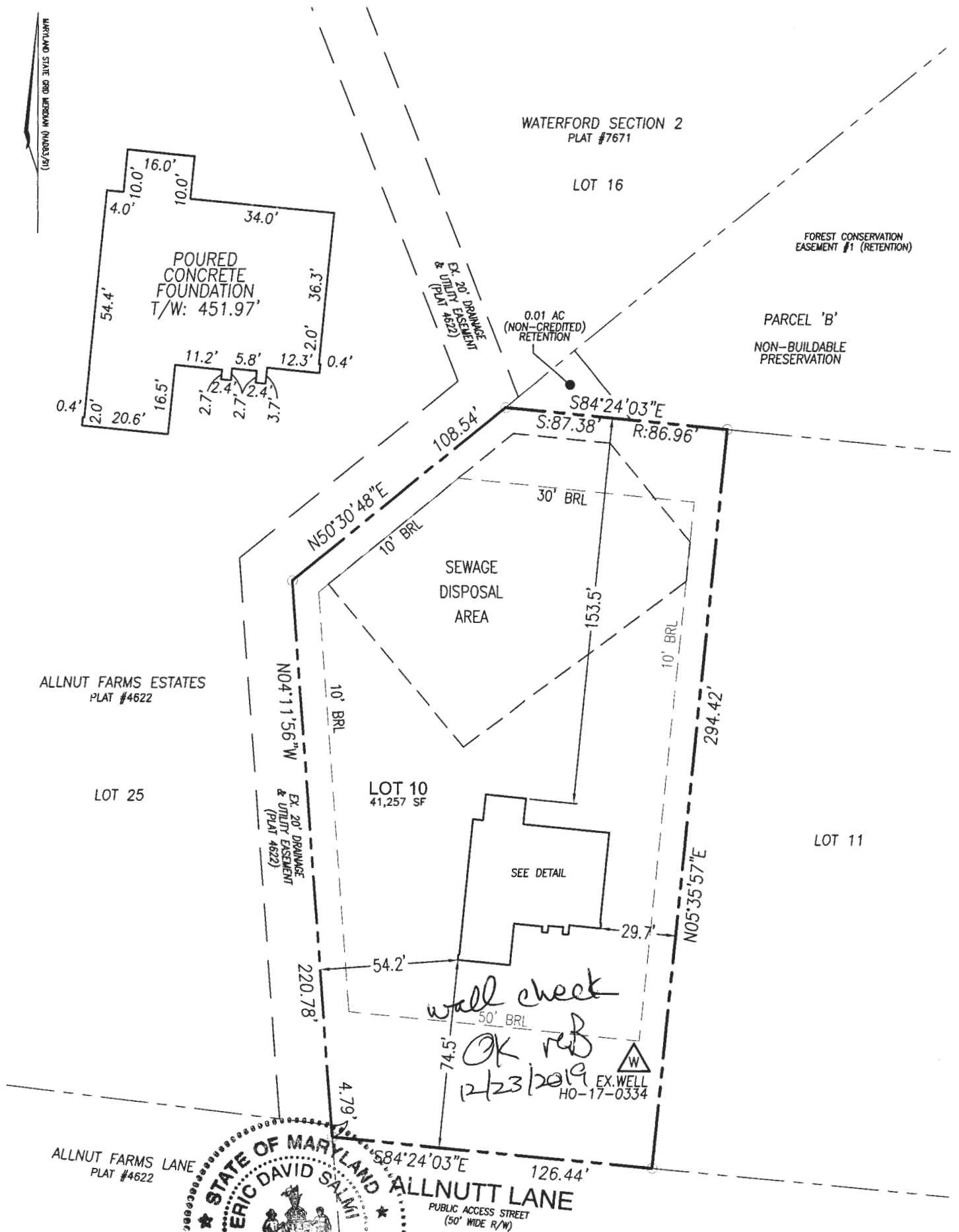
PLOT PLAN
THE ESTATES AT RIVER HILL - LOT 10
HIGHLAND, MD 20777

5TH ELECTION DISTRICT
TAX MAP: 34 PARCEL: 389
OPZ REF'S: ECP-16-064, WF-17-034,
WF-17-128, SP-17-007, F-18-054

BUILDING PERMIT
19002370

BLOCK
ZONED: RR-
HOWARD COUNTY, MARYL

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



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

ERIC D. SALMI, PROFESSIONAL LAND SURVEYOR #21639 DATE 12/18/2019

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE 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. 21639, EXPIRATION DATE JANUARY 3, 2020.

SCALE 1" = 50'	DATE 11/11/2019
DRAWN BY J.A.P.	CHECKED BY E.D.S.
PLAT NUMBER 25085-25094	JOB NUMBER 15-39

VOGEL ENGINEERING

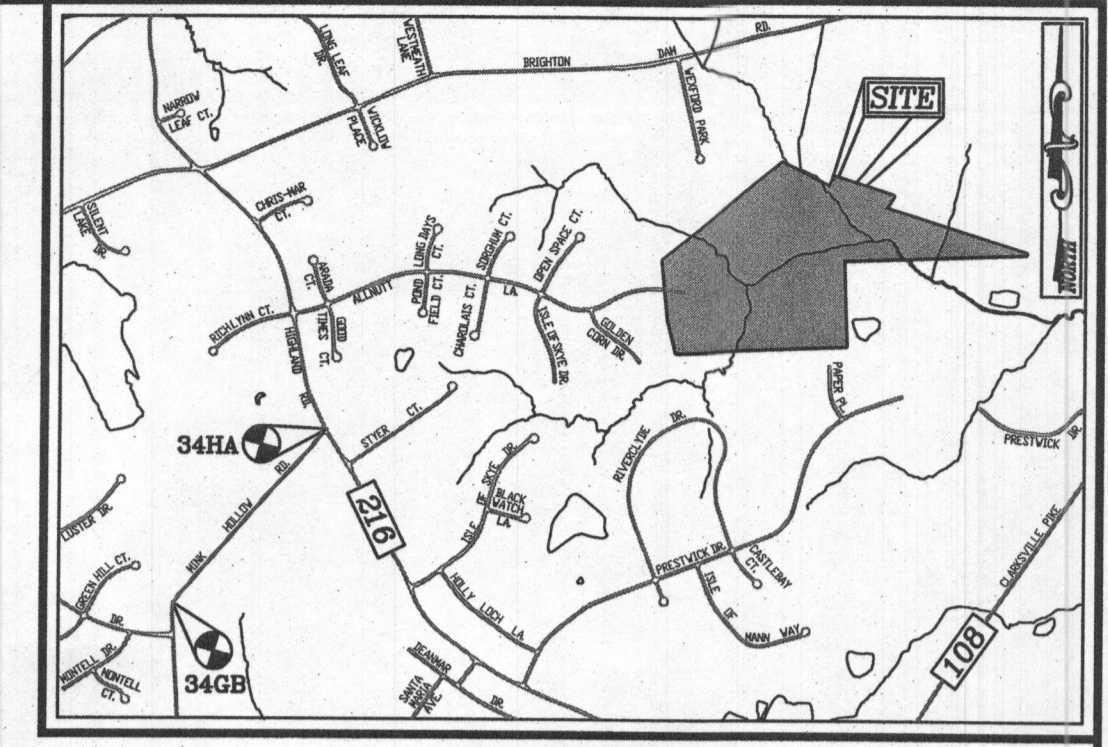
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

WALL CHECK DRAWING
 13514 ALLNUTT LANE
 LOT 10
 ESTATES AT RIVER HILL
 PLAT NO. 25088
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND



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

TRENCH LENGTH	TRENCH WIDTH	W/10' BOTTOM OF EXISTING GROUND	TRENCH
1	7'	441.98	436.98 444.98
2	7'	441.00	436.00 444.00
3	7'	439.33	434.33 442.33



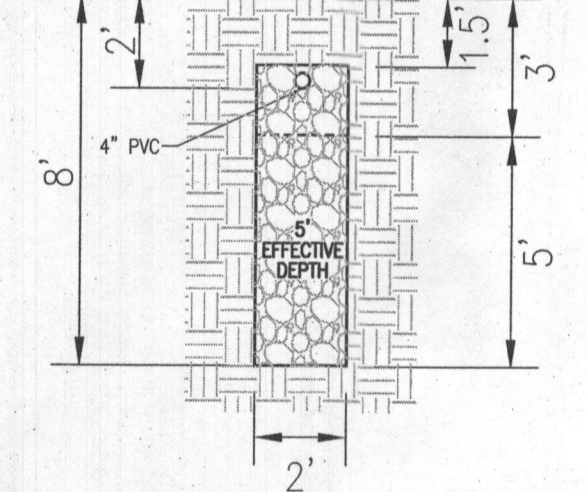
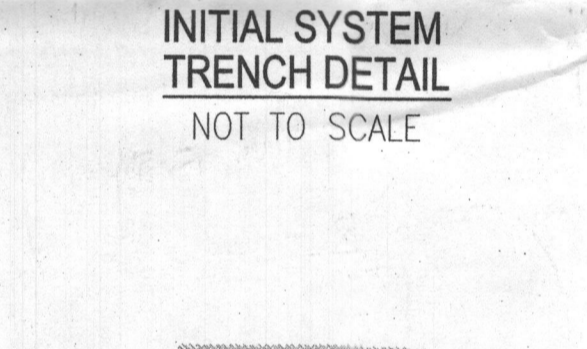
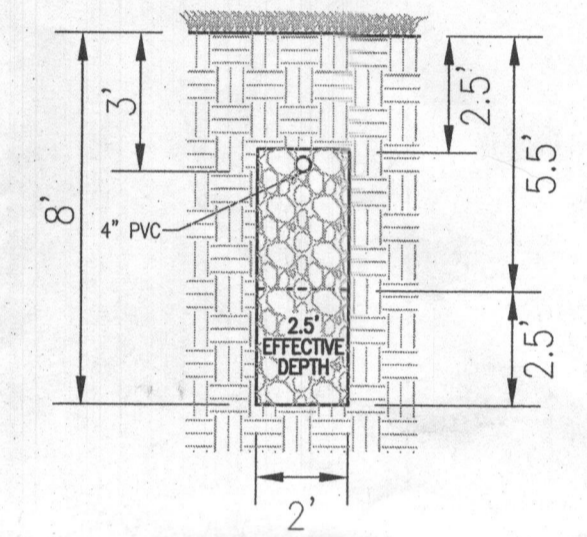
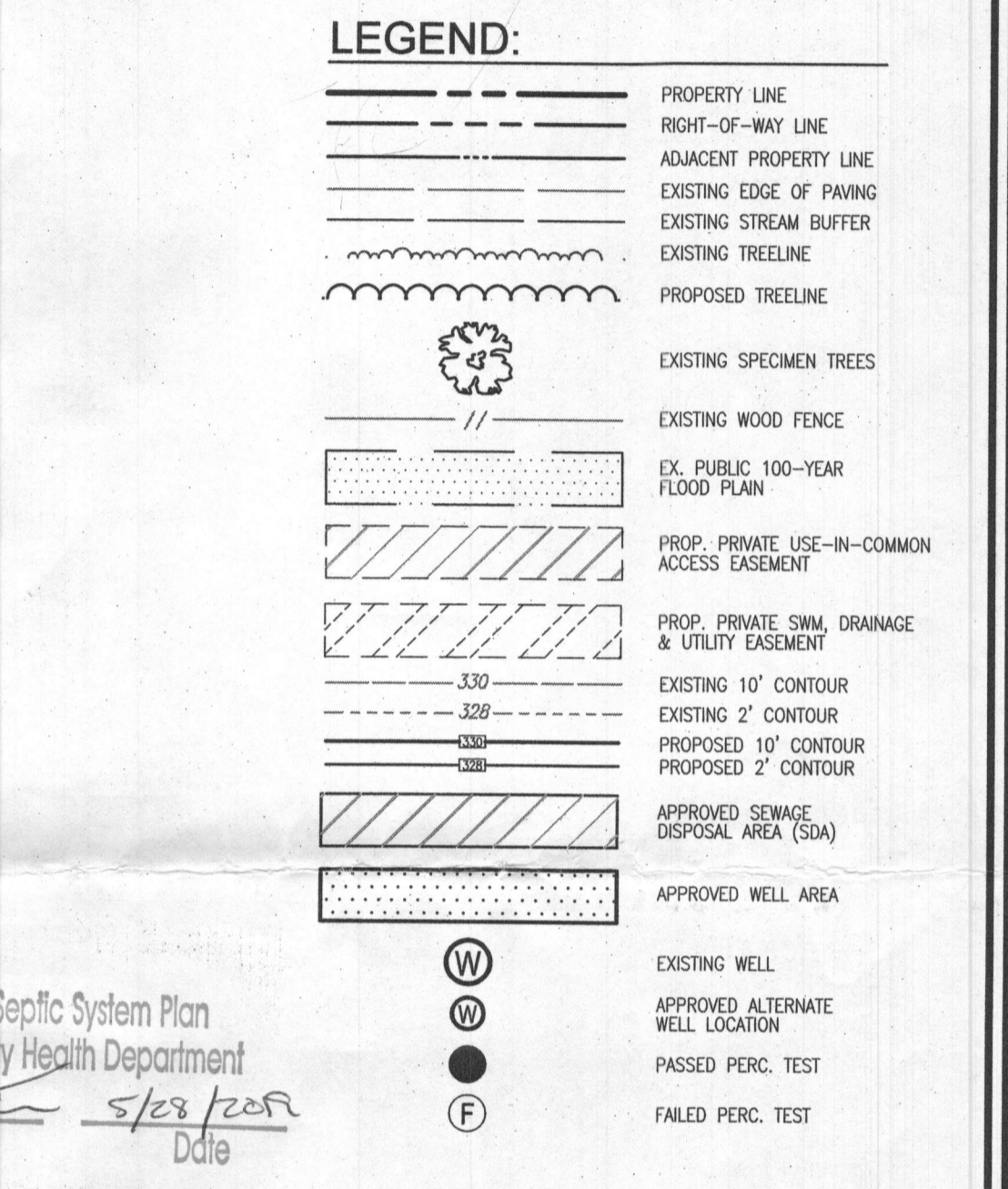
SYSTEM CALCULATIONS:

INITIAL SYSTEM:
 5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
 938 SQ. FT. / 2 (TRENCH WIDTH) x .50 (SIDEWALL REDUCTION) = 235 LINEAR FEET
 237 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
 (3 TRENCHES OF 79 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
 938 SQ. FT. / 2 (TRENCH WIDTH) x .31 (SIDEWALL REDUCTION) = 145 LINEAR FEET
 146 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
 (2 TRENCHES OF 73 FEET IN LENGTH)

SECOND REPLACEMENT SYSTEM:
 5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.
 938 SQ. FT. / 2 (TRENCH WIDTH) x .42 (SIDEWALL REDUCTION) = 131 LINEAR FEET
 132 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
 (2 TRENCHES OF 66 FEET IN LENGTH)

BENCHMARKS
 SCALE: 1"=2000'
 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.



Approved Septic System Plan
 Howard County Health Department
 Signature: [Signature] 5/28/2019
 Ddie

- 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 2018.
 - 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' DOWNGRADEMENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN USING ALL REASONABLE EFFORTS.
 - THE LOT SHOWN HEREON COMPLEES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.

OWNER
 ESTATES AT RIVER HILL, LLC
 MICHAEL PFALL, 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 10
 13514 ALLNUTT LANE
 HIGHLAND, MD 20777

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

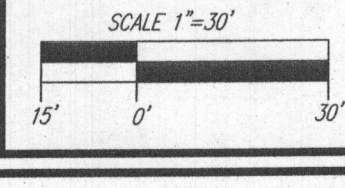
ZONED: RR-DEO
 L. 18487 / F. 262
 HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
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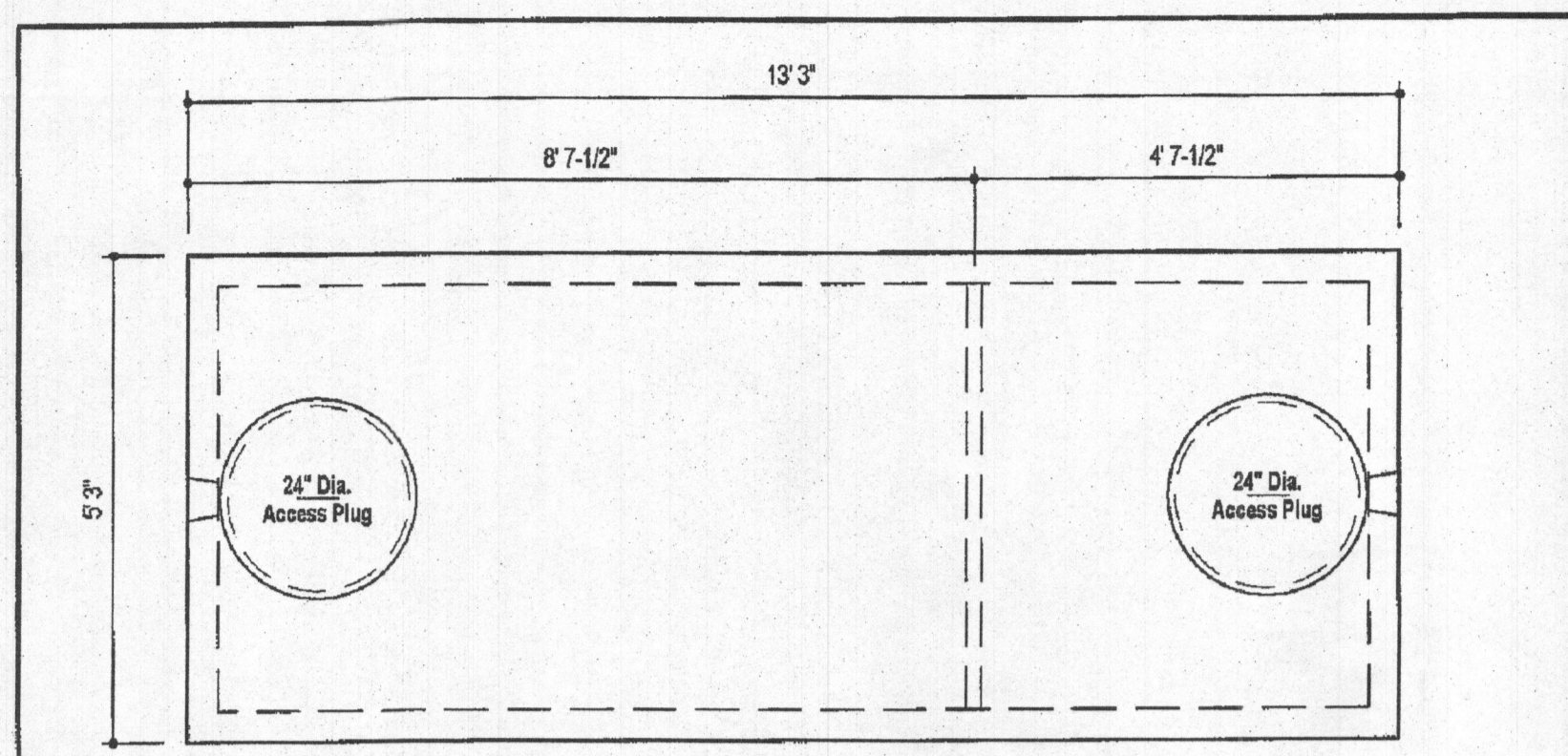
PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18193, EXPIRATION DATE: 09-27-2020

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

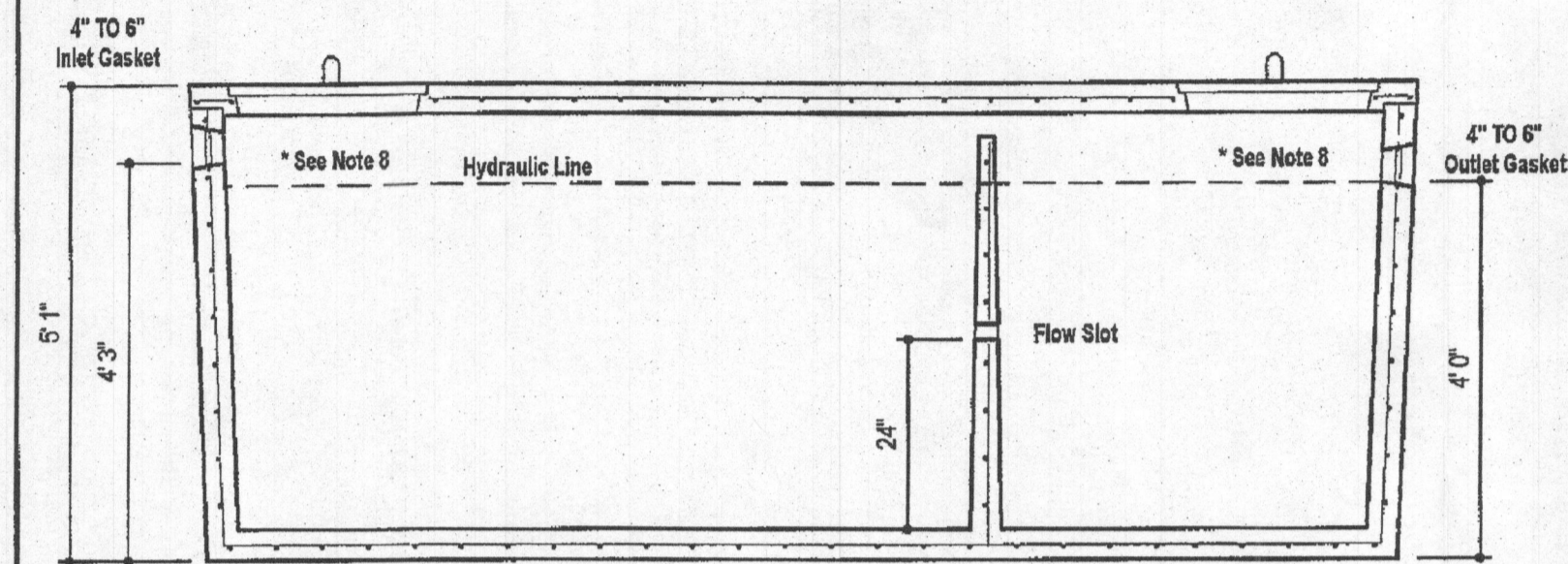
1 SHEET OF 2



WELL LOCATION CERTIFICATION:
 THE EXISTING WELL SHOWN FOR LOT 10 (TAG #HO-17-0334) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN



PLAN VIEW



SECTION A-A

DESIGN DATA & GENERAL NOTES

- [1] Concrete strength f_{cm} 4,000 p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type III per ASTM C 150-82.
- [3] Admixtures & plasticizers per ASTM C 240-89 & C 494-82.
- [4] Reinforcing per ASTM A108. Min. 5/16" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, base, & top thickness.
- [7] Max 5'-12" of cover
- [8] Depending on use of tank, Inlet & Outlet baffle may be required by code.

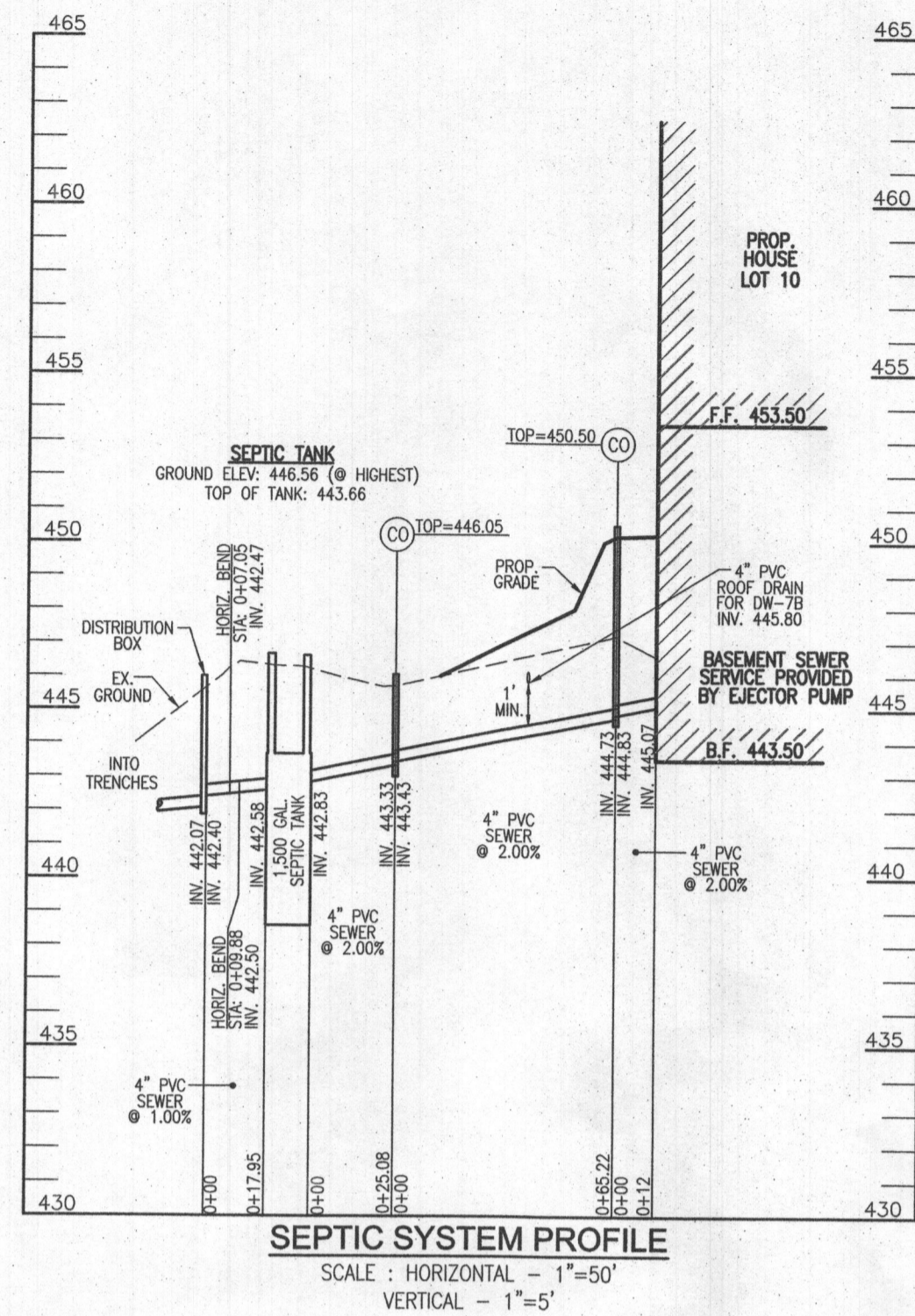
WEIGHT = 16,750 lbs.

MBI
Mayer Bros., Inc.
6364 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438
www.mayerbrosprecast.com

1,500 GALLON TANK (Non-Traffic)
2-Compartment

Stock Item

Dwg. No. 1500-2C No Scale Aug. 11, 2008



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

OWNER
ESTATES AT RIVER HILL, LLC
MICHAEL PFAU, MEMBER
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ELLCOTT CITY, MD 21043
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ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

THE ESTATES AT RIVER HILL - LOT 10
13514 ALLNUTT LANE
HIGHLAND, MD 20777

PARCEL: 389 ZONED: RR-DEO
TAX MAP: 34 GRID: 23 L 18487 / F. 262
STRA ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
ENGINEERS • SURVEYORS • PLANNERS
3300 N. RIDGE ROAD, SUITE 110 TEL: 410.461.7666
ELLCOTT 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. 18193
EXPIRATION DATE: 09-27-2020

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

2 SHEET OF 2

ROBERT H. VOGEL, PE No. 18193