

**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](http://www.hchealth.org)  
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Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 12/21/2018 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 562379 <sup>'one'</sup>

APPROVAL DATE: 01/04/19 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 591 WEST WATERSVILLE ROAD, MT AIRY, MD 21771

SUBDIVISION: ELM-LEE FARM LOT: 1 TAX ID: 04-599513

CONTRACTOR: WTC Contractors EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-458-7024

PROPERTY OWNER: DONALD E and SHIRLEY L FLEMING EMAIL: brendalee6764@gmail.com

OWNER ADDRESS: 601 WEST WATERSVILLE ROAD, MT AIRY, MD 21771 PHONE: (301)481-5852

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: \_\_\_\_\_

PUMP MODEL: N.A. PUMP SIZE N.A. PUMP TANK CAPACITY: N.A.

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2 <sup>0.8</sup> <sub>1.2</sub> <sup>01/02/18</sup>

TRENCHES:	LINEAR FEET REQUIRED: <u>139</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>3.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.5</u>

LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: IP need be, lower loading rate to IP and manholes too  
210 linear ft @ 4' @ 28' If initial trench above AB 25' trench fails, install 2 trenches (laid out 12/29/17) @ 4'

ISSUED BY: R BRICKER ISSUE DATE: 12/21/2017 EXPIRATION DATE: 12/21/2018

- 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 DOWNGRAIDENT 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 \_\_\_\_\_
- 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

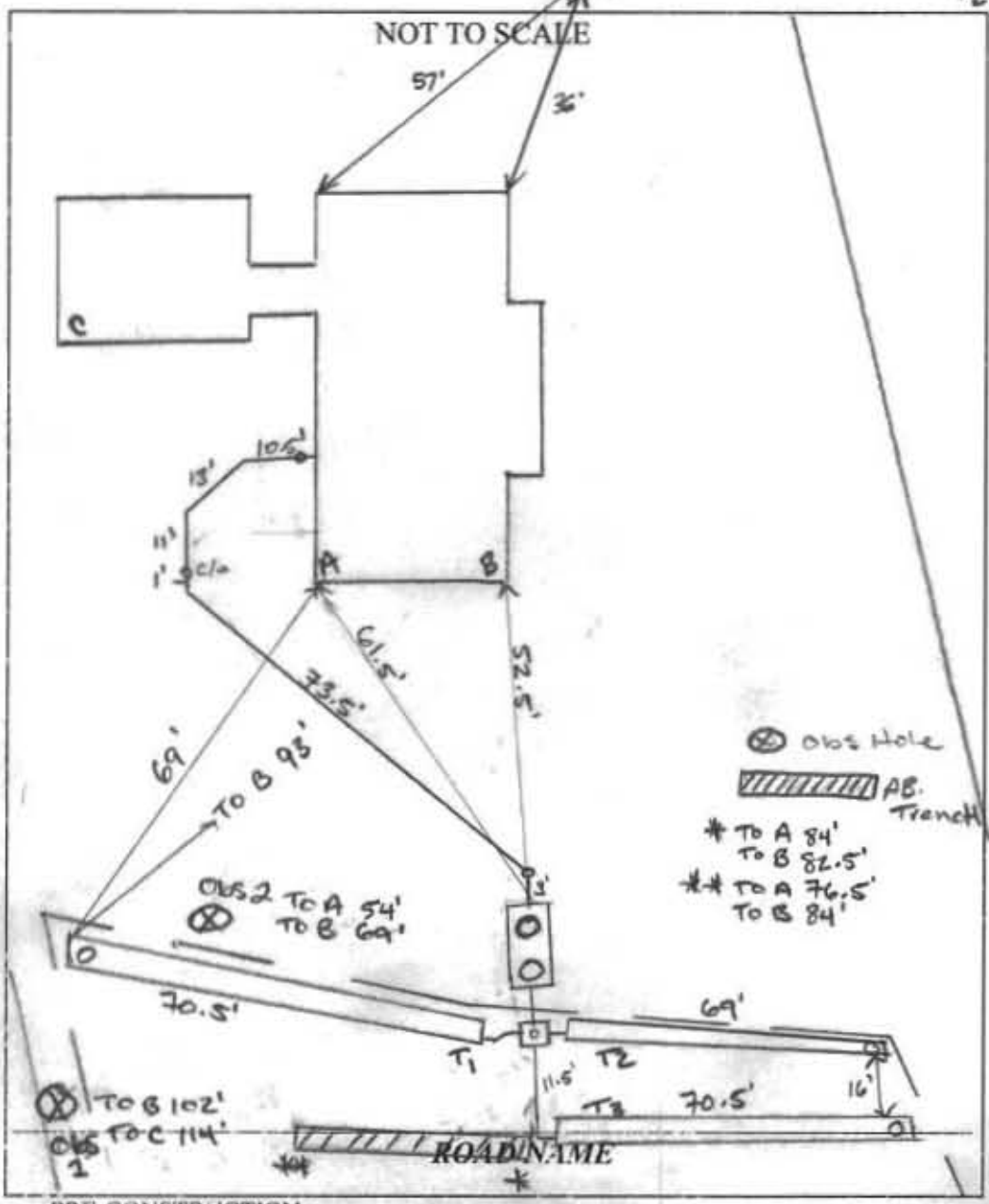
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

12/29/17 @  
Obs 1  
750% Rock @ 7.5'  
Obs 2  
7.50% Rock @ 6'

T<sub>1</sub> Inlet 2.5' Bottom 3.5'  
 T<sub>2+T<sub>3</sub></sub> Inlet 3' Bottom 4'



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2.5'/3'	3.5'/4'
NUMBER OF TRENCHES <u>3</u>		
TOTAL LENGTH <u>210</u>		
ABSORPTION AREA <u>630 sq ft</u>		
DISTRIBUTION BOX LEVEL <u>yes</u>		
DISTRIBUTION BOX BAFFLE <u>yes</u>		
DISTRIBUTION BOX PORT <u>yes</u>		

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	<u>DNI</u>
MANUFACTURER	<u>Babylon</u>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>2'-2"</u>
BAFFLES	<u>yes</u>
BAFFLE FILTER	<u>NO</u>
MANHOLE LOC	<u>FRONT/BACK</u>
6" PORT LOC	<u>Inlet</u>
WATERTIGHT TEST	<u>N/A</u>
SLOTTED	<u>yes</u>
DATE ON LID	<u>10-25-17</u>

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:**

12/27/17 Met WTC on site for layout. SDA states (minus one lower corner) present tank staked. Shot contour + laid out 2x70' trenches - stay on E edge of easement vlc. pieces were staker in rd, upper corner of area. (S)

**INSTALLATION: 12/29/2017** SHC Relocated due to frost footer depth of foundation.

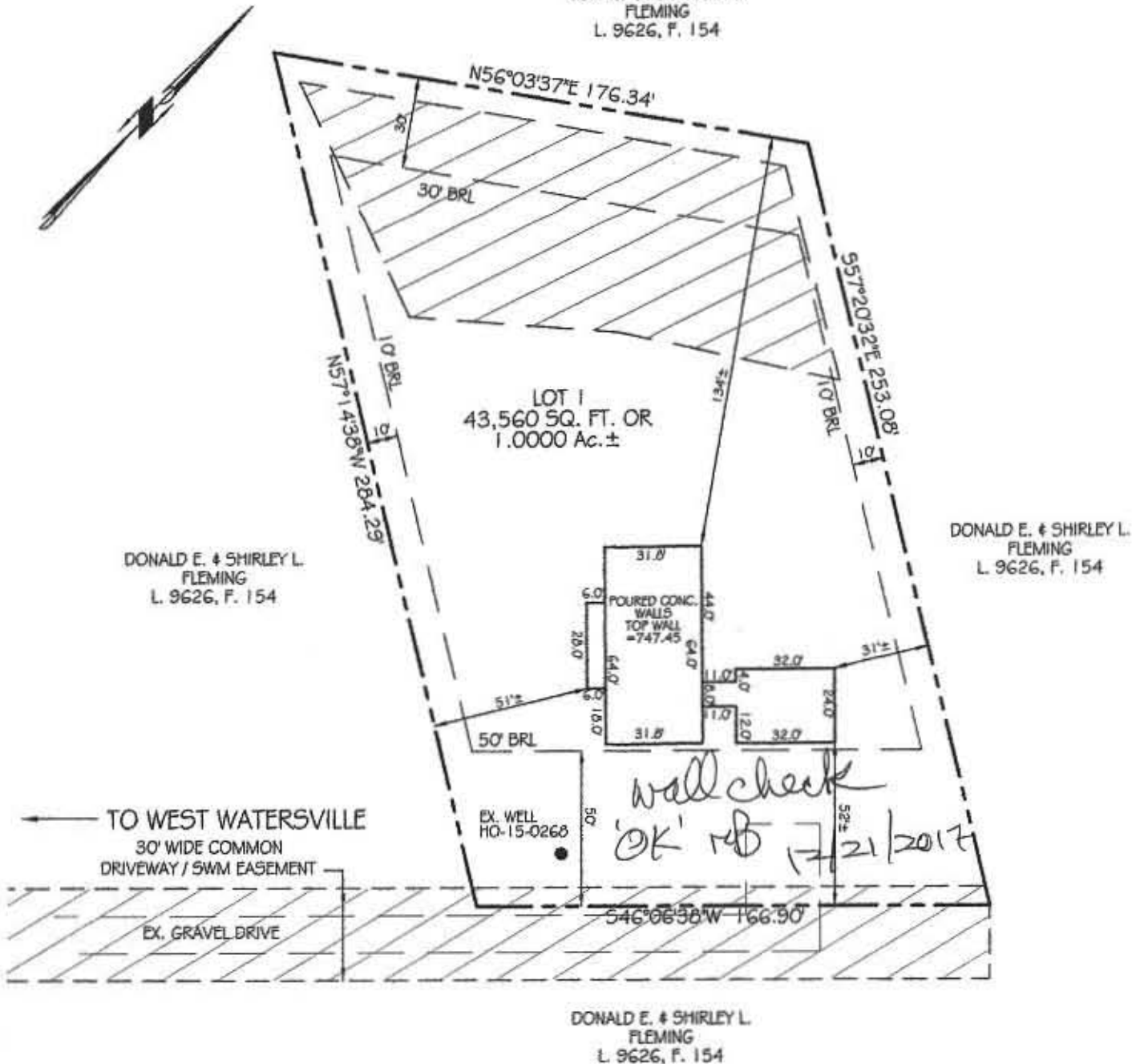
SHC, Influent line, and S.T. installed. ok to backfill. Inspect @ start of Trench construction due to % rock. (S) 12/29/2017 Lower Trench (~18' from upgrade edge of SDA) Abandoned w/ 50% Rock and Sticky clay, per RB. Day 2 perc holes to investigate adding depth. No significant changes. Co-Bring D Box up. Lay out 2 trenches toward 1-1/2 @ top of SDA and 12' off of Top. Trench fans out ~16'. (S) 11/2/18 loading rate decreased from 1.2 to 0.8 per RB. (S) 1/3/18 Trenches installed D Box leveled. ok to backfill. (S)

FINAL INSPECTOR

*[Signature]*

DATE OF APPROVAL 01/04/2018

DONALD E. & SHIRLEY L.  
FLEMING  
L. 9626, F. 154



**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* 12-18-2017  
Date

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

- NOTES:
- 1) FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
  - 2) BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.
  - 3) TOP OF WALL = 747.45

**WALL CHECK DRAWING  
LOT 1  
ELM-LEE FARM**

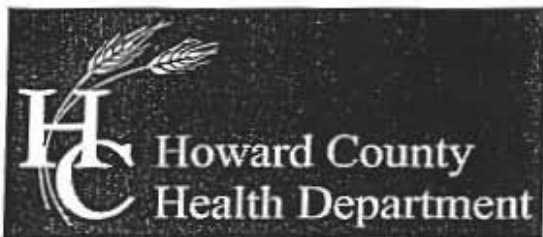
PLAT NO. 23899  
591 WEST WATERSVILLE ROAD  
ELECTION DISTRICT: No. 4  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' DECEMBER, 2017

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.



**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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REFERENCE	JOB NO.
PLAT NO. 23899	251-459



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 Twitter: HowardCoHealthDep

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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: Watersville Road

Subdivision: Elm-Lee Farm Lot: 1 (child lot)

Initial system: Application rate: 1.2 Effective area beginning depth: 2.5 Bottom maximum depth: 3.5  
 1<sup>st</sup> Replacement: Application rate: 1.2 Effective area beginning depth: 2.5 Bottom maximum depth: 4  
 2<sup>nd</sup> Replacement: Application rate: 0.6 Effective area beginning depth: 2.5 Bottom maximum depth: 4

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: Use higher elevations of SDA for the Initial System.

Approved: R Bricker Date: 5/21/2015