

## **Bureau of Environmental Health**

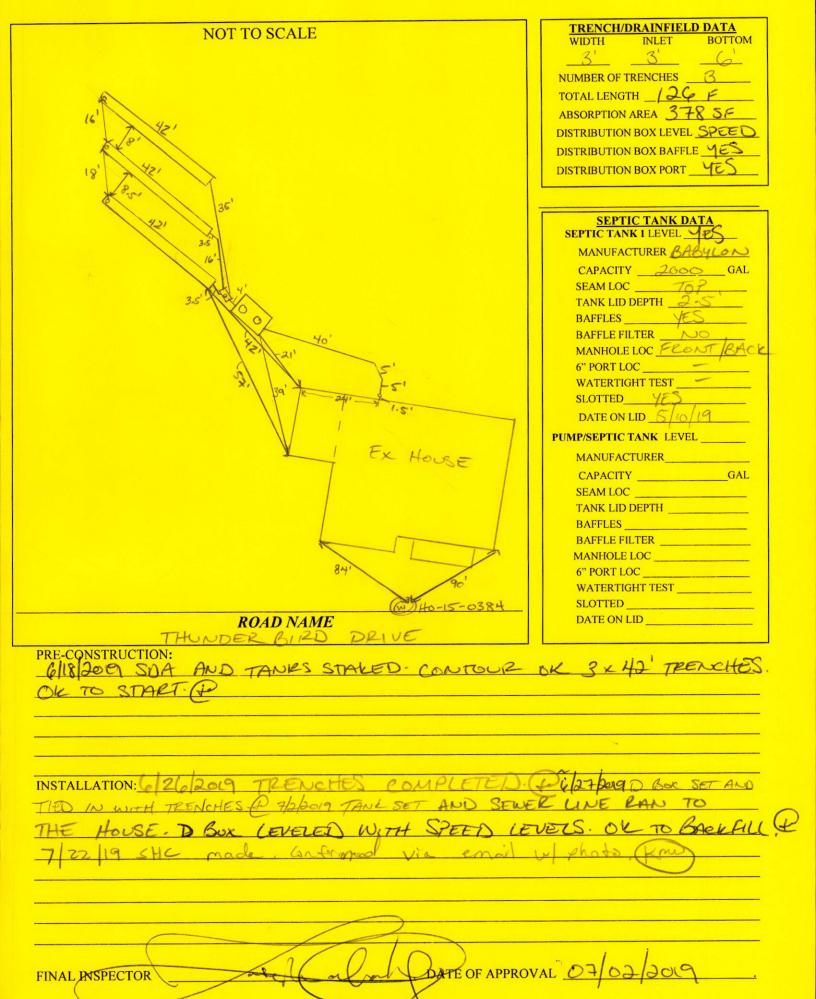
8930 Stanford Boulevard, Columbia, MD 21045 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org

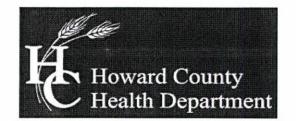
Facebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 6319 ONSITE SEWAGE DISPOSAL SYSTEM P 565512-4									
APPROVAL DATE: OF CONSTRUCTION A									
PROPERTY ADDRESS: 1044 Thunderbird Drive									
SUBDIVISION: Fairlane Farms LOT: 35 TAX ID:									
CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.com									
CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618									
PROPERTY OWNER: NV Homes EMAIL:									
OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046 PHONE: 410-379-5956									
SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon Vault or equivalent									
PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A									
DISTRIBUTION SYSTEM:   GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE 1.2									
LINEAR FEET REQUIRED: 125 INLET DEPTH: 3									
TRENCHES: TRENCH WIDTH: 3 MAXIMUM BOTTOM DEPTH: 6									
MINIMUM SPACE BETWEEN TRENCHES: 10 EFFECTIVE AREA BEGINNING DEPTH: 3									
LOCATION: PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.									
3x 42' TRENCHES									
NOTES:									
ISSUED BY: Hank Oswald ISSUE DATE: 4/3/19 EXPIRATION DATE: 4/3/19									
TO BE CONTROLLED IN THE CONTROLLED IN THE PROPERTY OF THE PROP									
NOTE: CONTRACTOR MUST SCHEDULE APRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTREEATION  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   P   P   P   P   P   P   P   P   P									
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.





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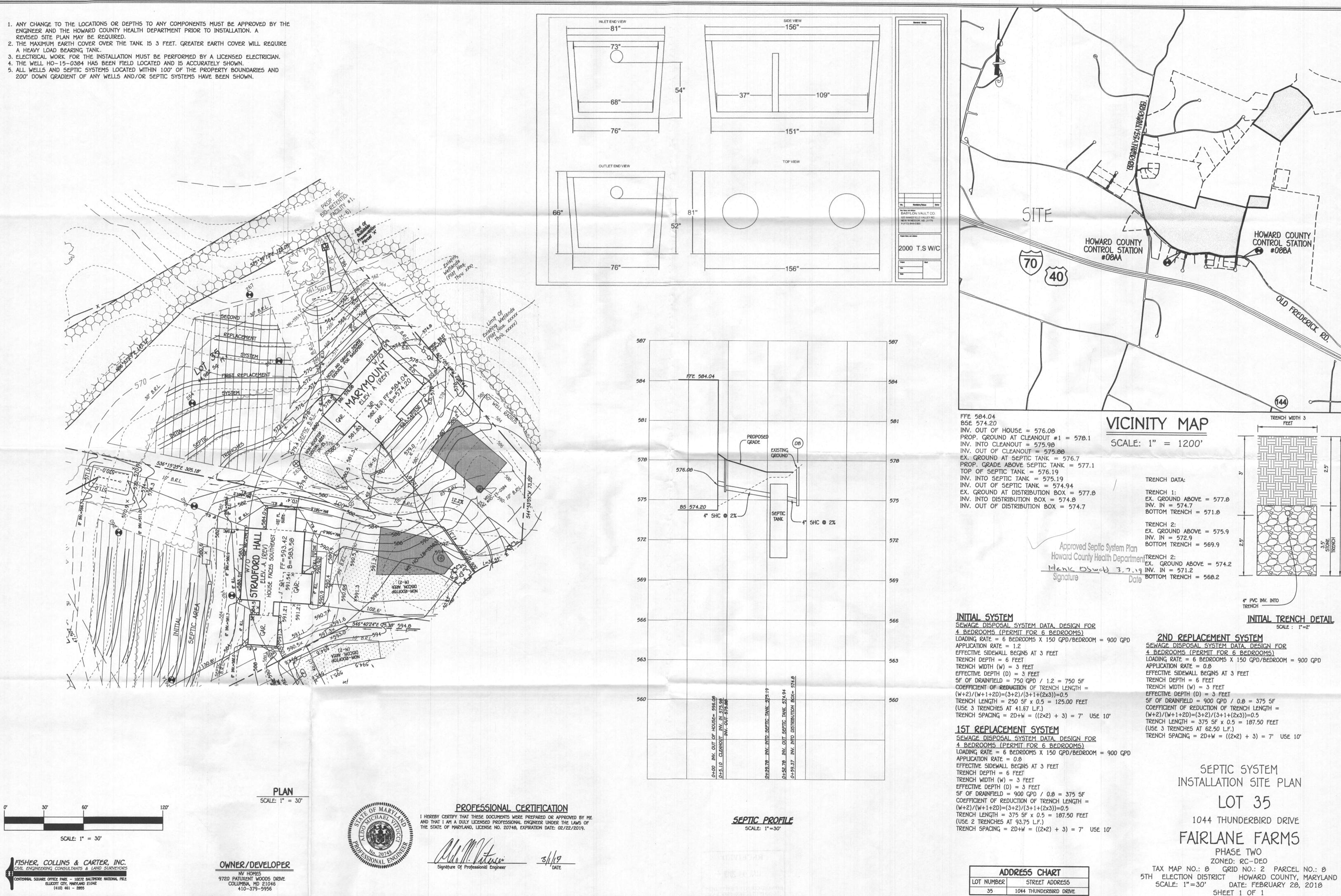
SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET									
Address:									
Subdivision: Fairlane Fax m Lot: 35									
Initial system: Application rate: 1.2 Effective area beginning depth: 3 Bottom maximum depth: 6									
1 <sup>st</sup> Replacement: Application rate: 0,8 Effective area beginning depth: 3 Bottom maximum depth: 6									
2 <sup>nd</sup> Replacement: Application rate: 0,8 Effective area beginning depth: 3 Bottom maximum depth: 6									
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:  W + 2 W + 1 + 2D  All trenches must be equal length unless low pressure dosed									
<ul> <li>All trenches must be equal length unless low pressure dosed</li> <li>All trenches must be on contour</li> <li>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'.</li> <li>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)</li> <li>Maximum trench length is 100'</li> <li>Maximum pipe depth is 4'</li> </ul>									
Additional requirements:									
Approved: Hank Oswald Date: 1/29/18									

## **Transmittal**

Via:	☐ Fax ☐ Fax (ori	☐ Mail ginal to follow	⊠ Messen via U.S. Mail)	ger	☐ E-Mail	Í	☐ To Be Picked U	lp	
To:	Bureau of Environmental Health				Attn: Hank				
	8930 Stanford Blvd.				Fax:				
	Columbia, Maryland 21046-4544				Phone: 410-313-2640				
From	Tony Fortis				00.				
From:	Tony Fertit	ta			CC:				
Re:	Fairlane Farms, Lot 35				W.O.# <b>05106-3003</b>				
Date:	Date: <b>Dec. 18, 2018</b>				Pages: 0	P	age(s) Including	this cover	
We are forwarding: ☐ Prints ☐ Copy of Letter ☐ Spe					fications		Shop drawings	Other	
		☐ Urgent	For your use	As red	quested	$\triangleright$	For Review & Co	omment	
Rema	7.7.2.2.2.2	n. Lot 35. 10	944 Thunderbird D	rive.					
Re: Fairlane Farm, Lot 35, 1044 Thunderbird Drive.  Here are 3 new copies of the OSDS for Lot 35 for your review. Please let me know if you have any questions.									
Than	k You,								
Tony									
Fisher, Collins, & Carter, Inc. Ph. 410-461-2855									

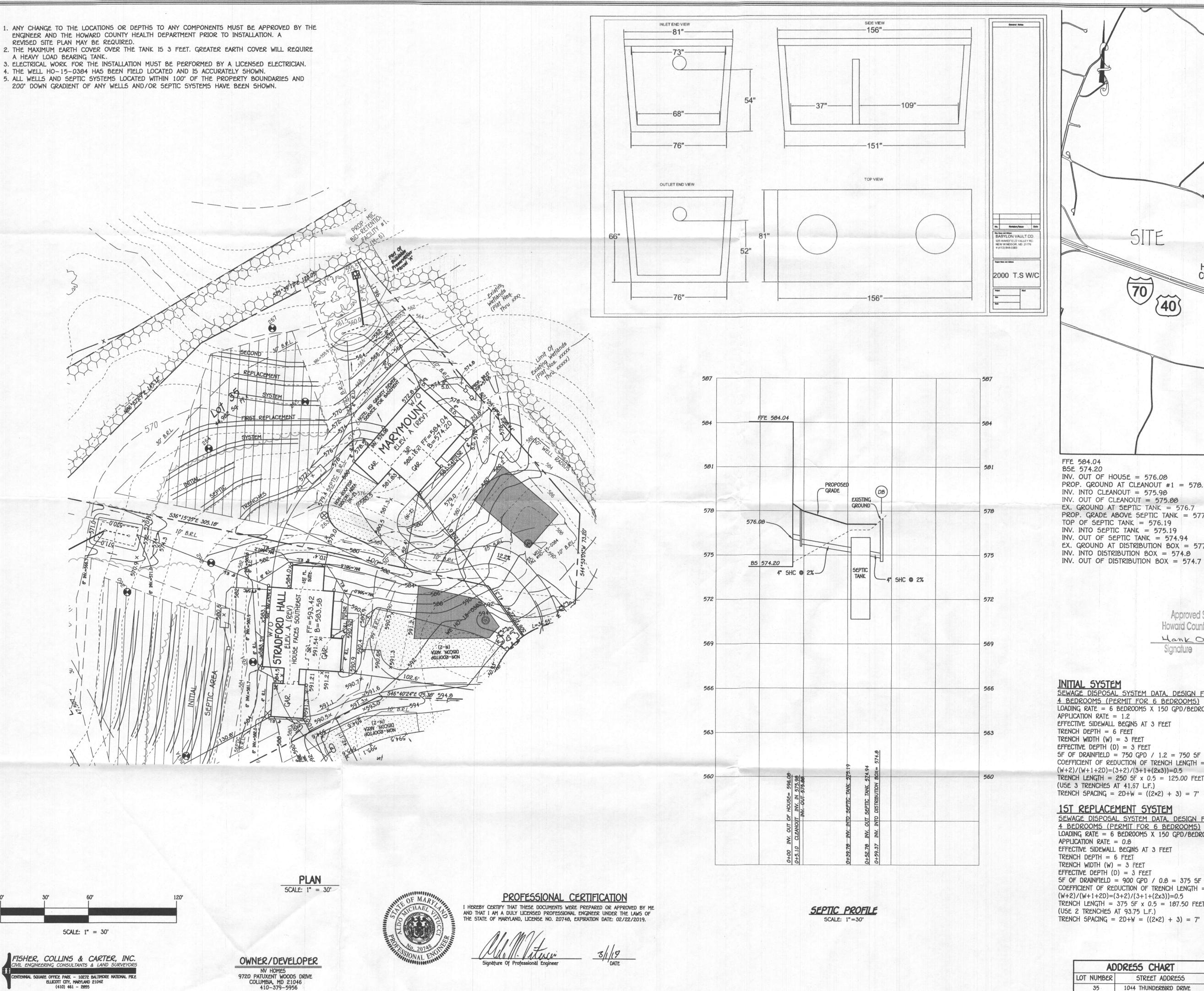
CONFIDENTIALITY NOTICE

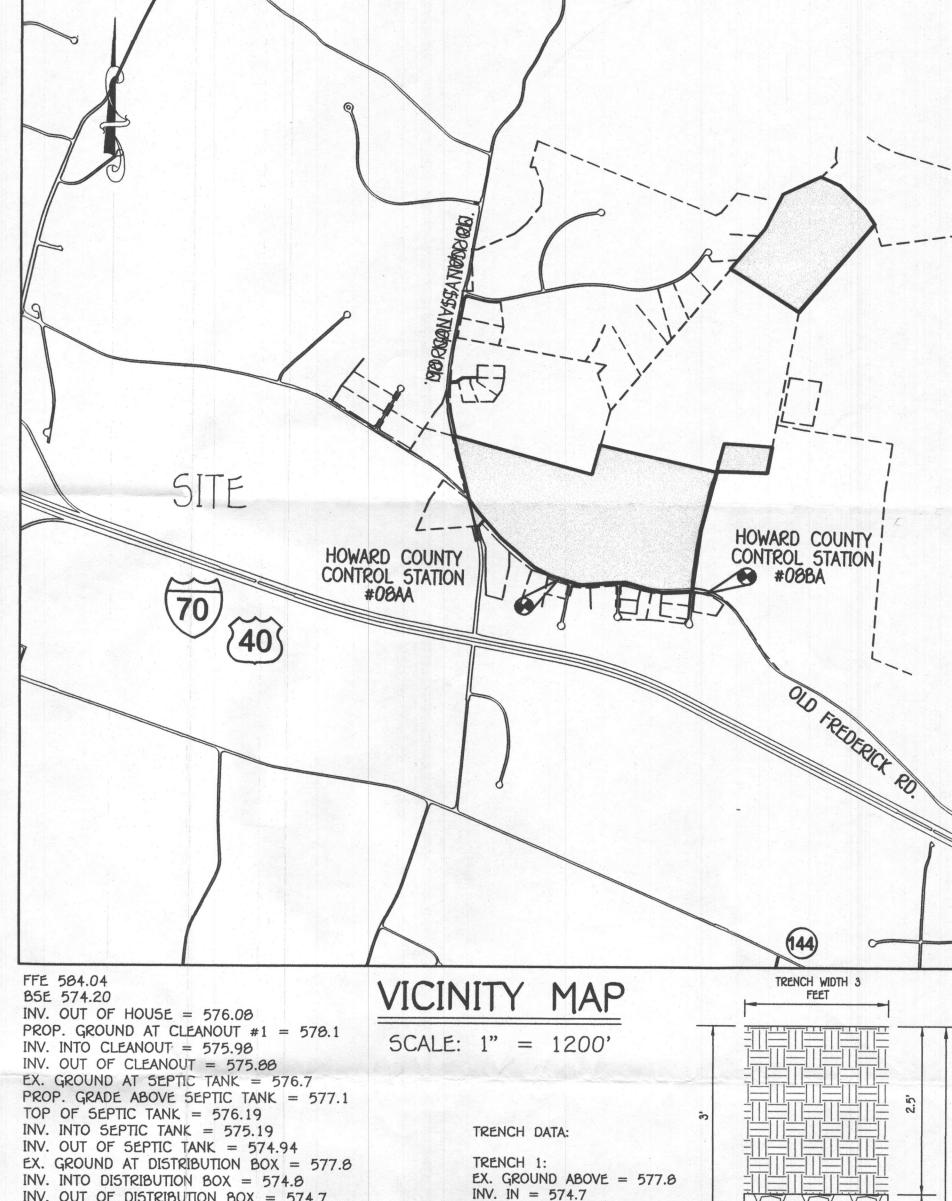
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TRENCH WIDTH 3

5CALE : 1"=2"





INITIAL SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR
4 BEDROOMS (PERMIT FOR 6 BEDROOMS) LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD APPLICATION RATE = 1.2 EFFECTIVE SIDEWALL BEGINS AT 3 FEET TRENCH DEPTH = 6 FEET TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 3 FEET SF OF DRAINFIELD = 750 GPD / 1.2 = 750 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH =

(W+2)/(W+1+20)=(3+2)/(3+1+(2x3))=0.5TRENCH LENGTH = 250 5F x 0.5 = 125.00 FEET (USE 3 TRENCHES AT 41.67 L.F.) TRENCH SPACING = 20+W = ((2\*2) + 3) = 7' USE 10'

15T REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS (PERMIT FOR 6 BEDROOMS) LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD APPLICATION RATE = 0.8 EFFECTIVE SIDEWALL BEGINS AT 3 FEET TRENCH DEPTH = 6 FEET TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 3 FEET SF OF DRAINFIELD = 900 GPD / 0.8 = 375 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+(2x3))=0.5TRENCH LENGTH = 375 5F x 0.5 = 187.50 FEET (USE 2 TRENCHES AT 93.75 L.F.) TRENCH SPACING = 20+W = ((2\*2) + 3) = 7' USE 10'

ADDRESS CHART

STREET ADDRESS

1044 THUNDERBIRD DRIVE

TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 3 FEET SF OF DRAINFIELD = 900 GPD / 0.8 = 375 SF

4" PVC INV. INTO

INITIAL TRENCH DETAIL

COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+(2x3))=0.5TRENCH LENGTH = 375 SF x 0.5 = 187.50 FEET (USE 3 TRENCHES AT 62.50 L.F.) TRENCH SPACING = 2D+W = ((2\*2) + 3) = 7' USE 10'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR

4 BEDROOMS (PERMIT FOR 6 BEDROOMS)

LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD

BOTTOM TRENCH = 571.8

BOTTOM TRENCH = 569.9

APPLICATION RATE = 0.8

TRENCH DEPTH = 6 FEET

EFFECTIVE SIDEWALL BEGINS AT 3 FEET

EX. GROUND ABOVE = 575.9

TRENCH 2:

Approved Septic System Plan TRENCH 2:

Howard County Health Department Ex. GROUND ABOVE = 574.2 IN = 571.2

Hank Oswald 3,7,19 BOTTOM TRENCH = 568.2

INV. IN = 572.9

SEPTIC SYSTEM INSTALLATION SITE PLAN

> LOT 35 1044 THUNDERBIRD DRIVE

FAIRLANE FARMS

PHASE TWO ZONED: RC-DEO

TAX MAP NO .: 8 GRID NO .: 2 PARCEL NO .: 8 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND 5CALE: 1"=30" DATE: FEBRUARY 28, 2018 SHEET 1 OF 1