

**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)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 11/13/17

**ONSITE SEWAGE DISPOSAL SYSTEM**

P 562331

APPROVAL DATE: 12/4/17 **DEC**

**PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 13775 Frederick Road

SUBDIVISION: Renfro Property

LOT: 4

TAX ID: \_\_\_\_\_

CONTRACTOR: Fogle's Septic Clean Inc.

EMAIL: kim@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784

PHONE: 410-795-5670

PROPERTY OWNER: Kelly Renfro

EMAIL: \_\_\_\_\_

OWNER ADDRESS: 13765 Frederick Road, West Friendship, MD 21794

PHONE: 301-847-8408

SEPTIC TANK SIZE (GALLONS): 1000 1500

TANK MANUFACTURER: \_\_\_\_\_

PUMP MODEL: \_\_\_\_\_

PUMP SIZE \_\_\_\_\_

PUMP TANK CAPACITY: \_\_\_\_\_

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 3

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>118</u>	INLET DEPTH: <u>3.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Use 2 x 59' trenches	

ISSUED BY: Hank Oswald

ISSUE DATE: 11/13/17

EXPIRATION DATE: 11/13/18

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 DOWNGRADE 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

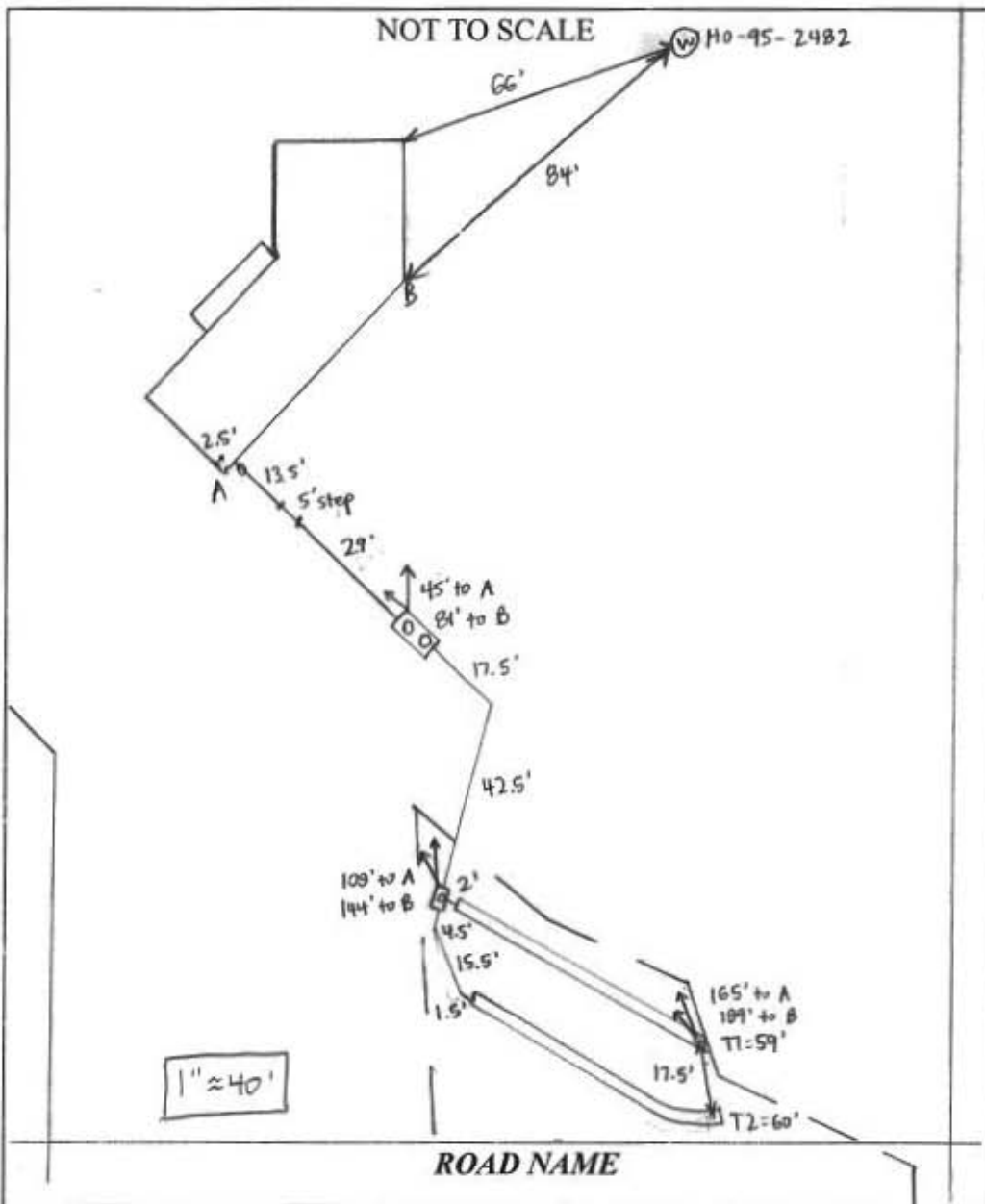
ELECTRICAL PERMIT ISSUED E N/A

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	3.5'	8
NUMBER OF TRENCHES	2	
TOTAL LENGTH	119'	
ABSORPTION AREA	357' + SIDEWALL	
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	1.5-2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	10-8-17
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	

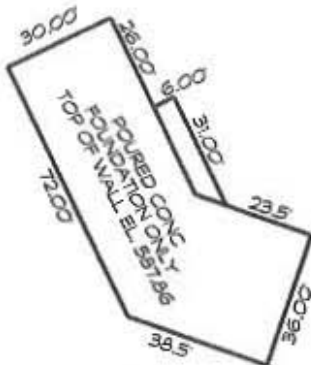
**PRE-CONSTRUCTION:**

12/1/17 Met Fogle's on site for layout. SDA corner stakes present. Shot contour + laid out 2x59' trenches on contour. Set tank ~ halfway between house + SDA. Fogle's to set a 1500-gal tank (not 1000-gal) per their contract. (SC)

**INSTALLATION:** 12/1/17 House connection made. Tank set + pipe laid from house to tank (SC)

12/4/17 T2 complete + left open for inspection. 3' wide, 3-3.5' to stone. Fogle's digging T1 and using laser transit to check depths. 3' wide, 8' deep D-box installed + pipe laid from tank to D-box. (SC) 12/4/17 T1 dug, Fogle's adding stone. Levelled speed levelers in D-box. Line from house to tank bedded with stone (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 12/4/17

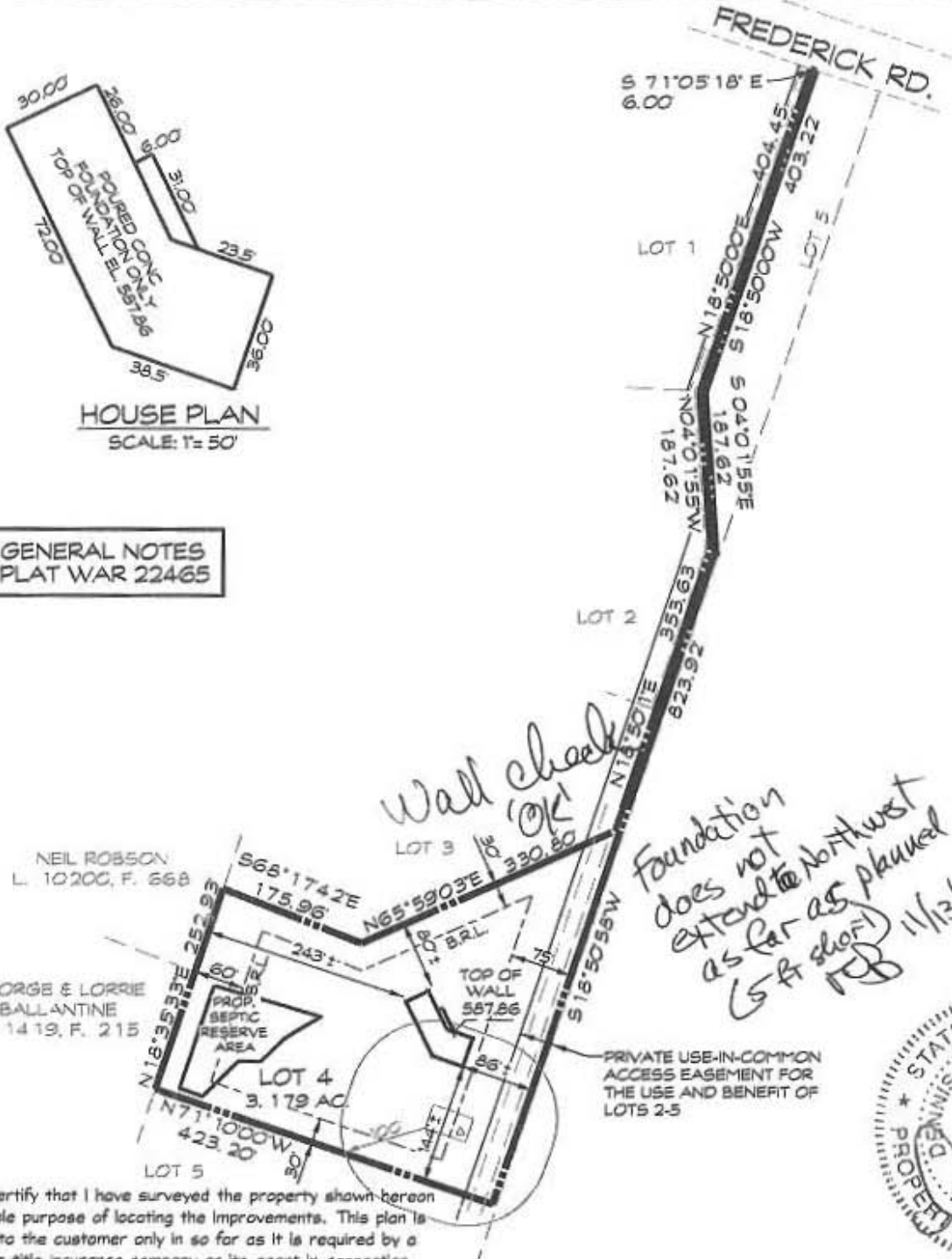


**HOUSE PLAN**  
SCALE: 1" = 50'

FOR GENERAL NOTES  
SEE PLAT WAR 22465



FREDERICK RD.  
S 71°05'18" E 6.00



I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only in so far as it is required by a lender or a title insurance company or its agent in connection with Contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1) unless otherwise noted.

**PLAN**  
SCALE: 1" = 200'  
**FOUNDATION CERTIFICATION**  
**LOT 4**  
**RENFRO PROPERTY**

13775 FREDERICK ROAD \* WAR PLAT NO. 22466  
TAX MAP 15 \* GRID: 1 \* PARCEL: 178  
3rd ELECTION DISTRICT \* HOWARD COUNTY, MD  
PLAT WAR 22465-22466

By: *Dennis E. Meckley* 9/19/17 Date:  
Dennis E. Meckley Property Line Surveyor No. 10844  
License expires March 29, 2018

A licensed Maryland Surveyor either personally prepared this Foundation Certification or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.03, .06 AND .12)  
My license expires March 29, 2018.



439 East Main Street Westminster, MD 21157-5539  
(410) 848-1790 FAX (410) 848-1791

DRAWN BY:	JLW
DESIGN BY:	
REVIEW BY:	DEM
DATE:	09-14-17
SCALE:	AS SHOWN
JOB NO:	2017052
SHEET:	1 OF 1

## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Monday, May 01, 2017 3:29 PM  
**To:** lalexander@clsimail.com  
**Subject:** Renfro Property\_13775 Frederick Road\_OSDS Plan

Hi Linda:

The OSDS Plan for 13775 Frederick Road has been reviewed with the following comments;

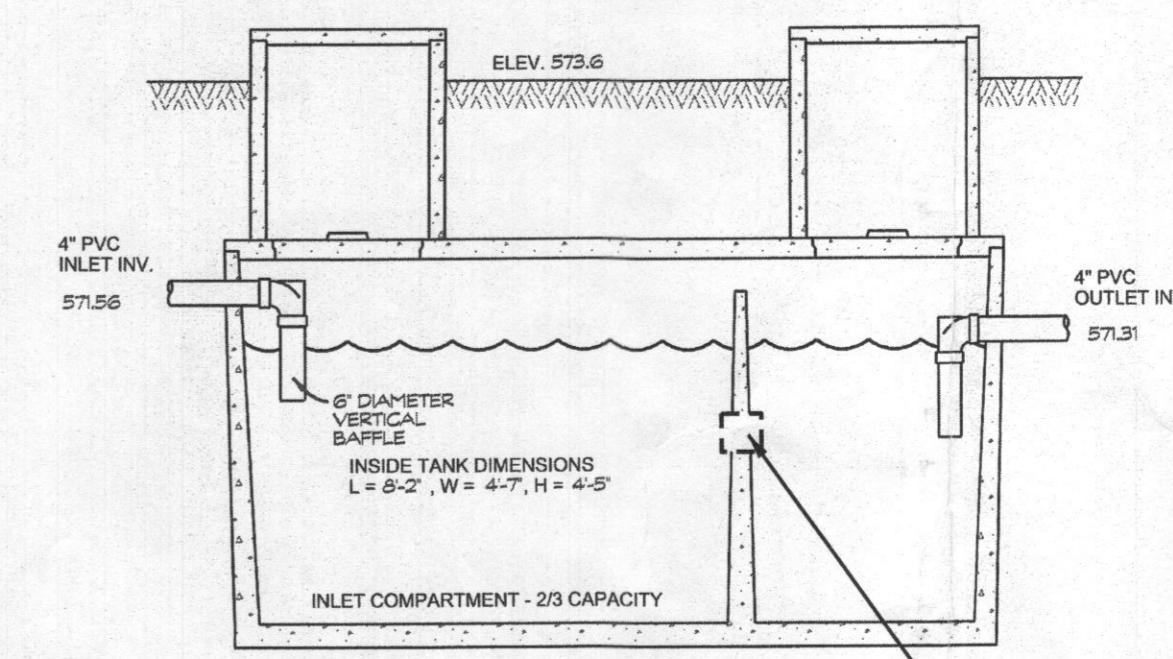
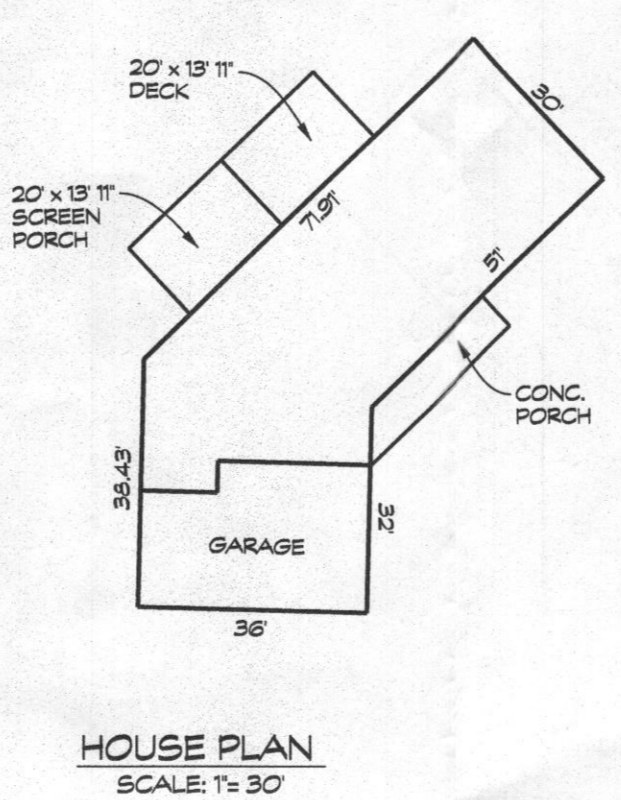
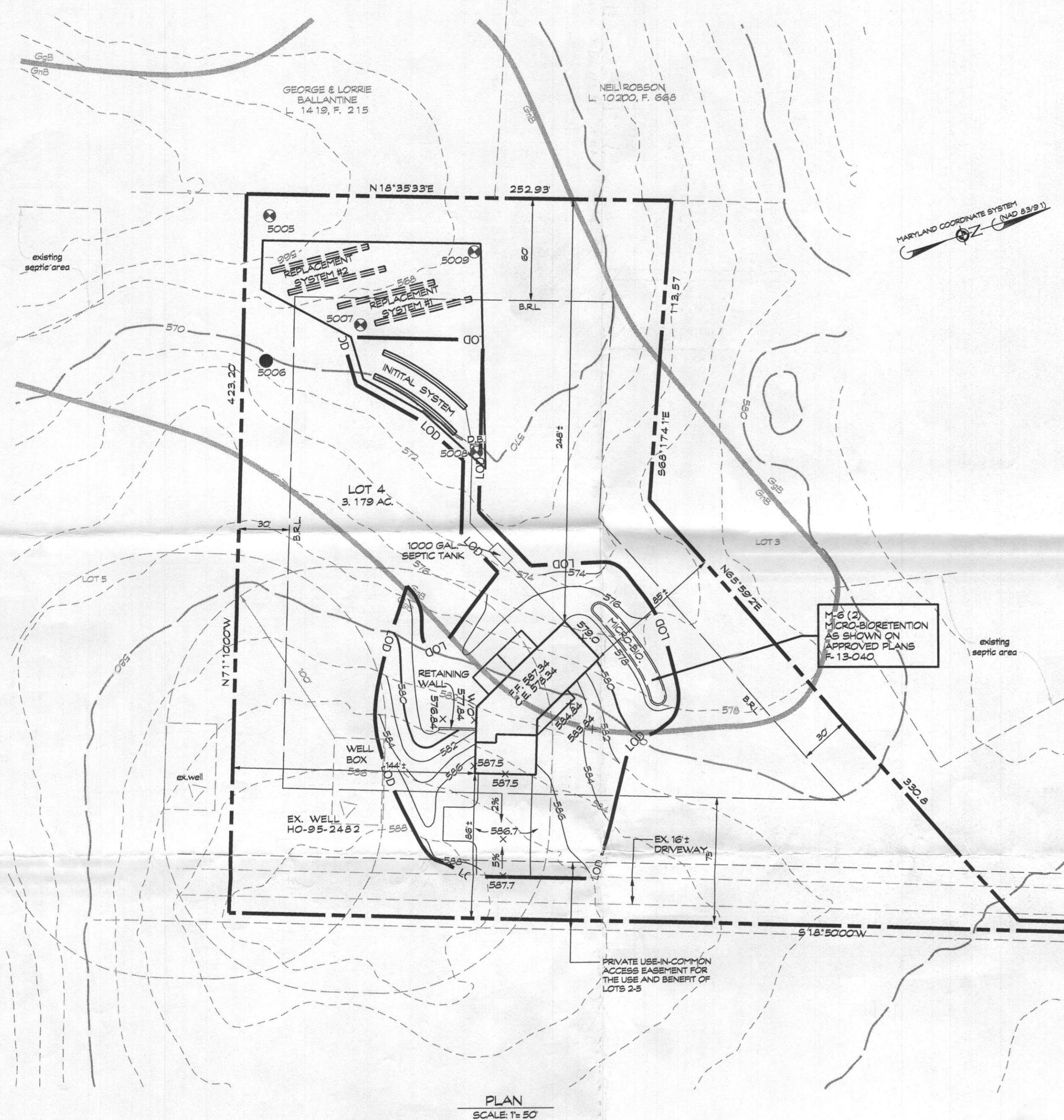
- 1.) If the sewer line drop is greater than 5 %, it must slow down to 2%, last 5 feet to tank.
- 2.) Add septic tank specs to plan.

Thanks,

Hank

Hank Oswald, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
410.313.2648 (Fax)

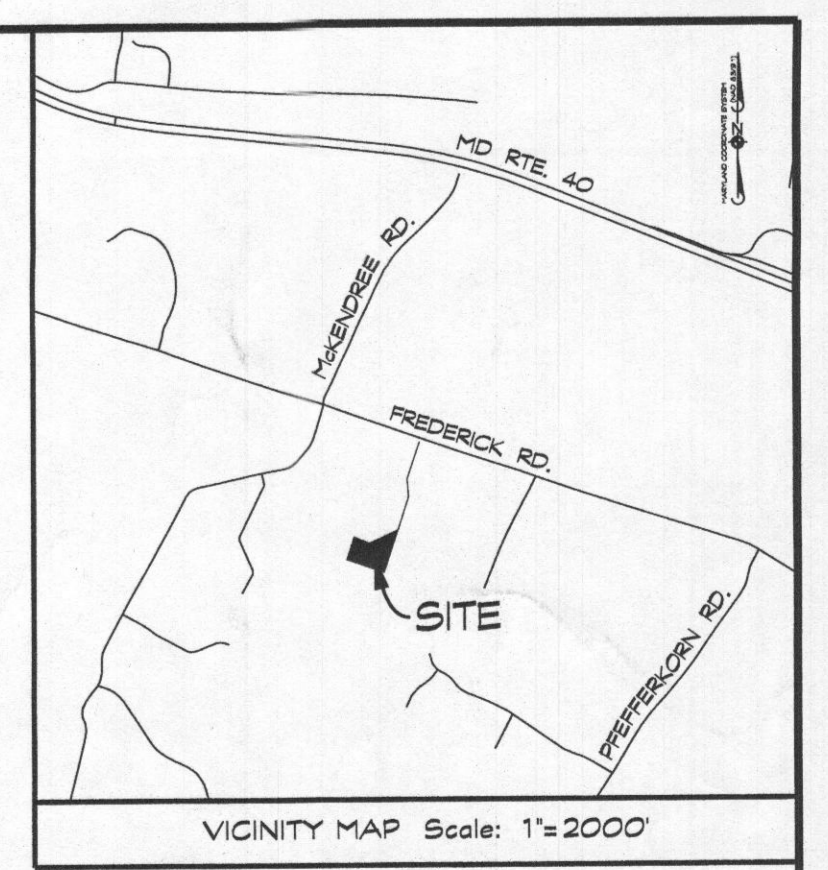




NOTE: THE SEPTIC TANK RISERS TO TERMINATE AT LEAST 6" ABOVE FINAL GRADE.

**TOP SEAM 1000 GAL SEPTIC TANK**  
(NOT TO SCALE)

NOTE: SLOT IS 2" HIGH BY 4" LONG IN CENTER OF LIQUID DEPTH



PLAN  
SCALE: 1/50

TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	570.0	566.5	562.0
2	569.5	566.0	561.5

- LEGEND**
- ▲ EXISTING WELL LOCATION
  - ChP SOIL LINES
  - MCD
  - DENOTES TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA = 10,053 S.F. FOR THE PURPOSE OF LOT 4 SINGLE FAMILY RESIDENCE
  - DENOTES FLOW DIRECTION
  - SF DENOTES SILT FENCE
  - SSF DENOTES SUPER SILT FENCE
  - LOI DENOTES LIMIT OF DISTURBANCE
  - STABILIZED CONSTRUCTION ENTRANCE
  - EXISTING TREELINE
  - PROPOSED TREELINE
  - NON-ROOFTOP DISCONNECT
  - APPROVED PERCOLATION TESTS
  - FAILED PERCOLATION TESTS

**GENERAL NOTES**

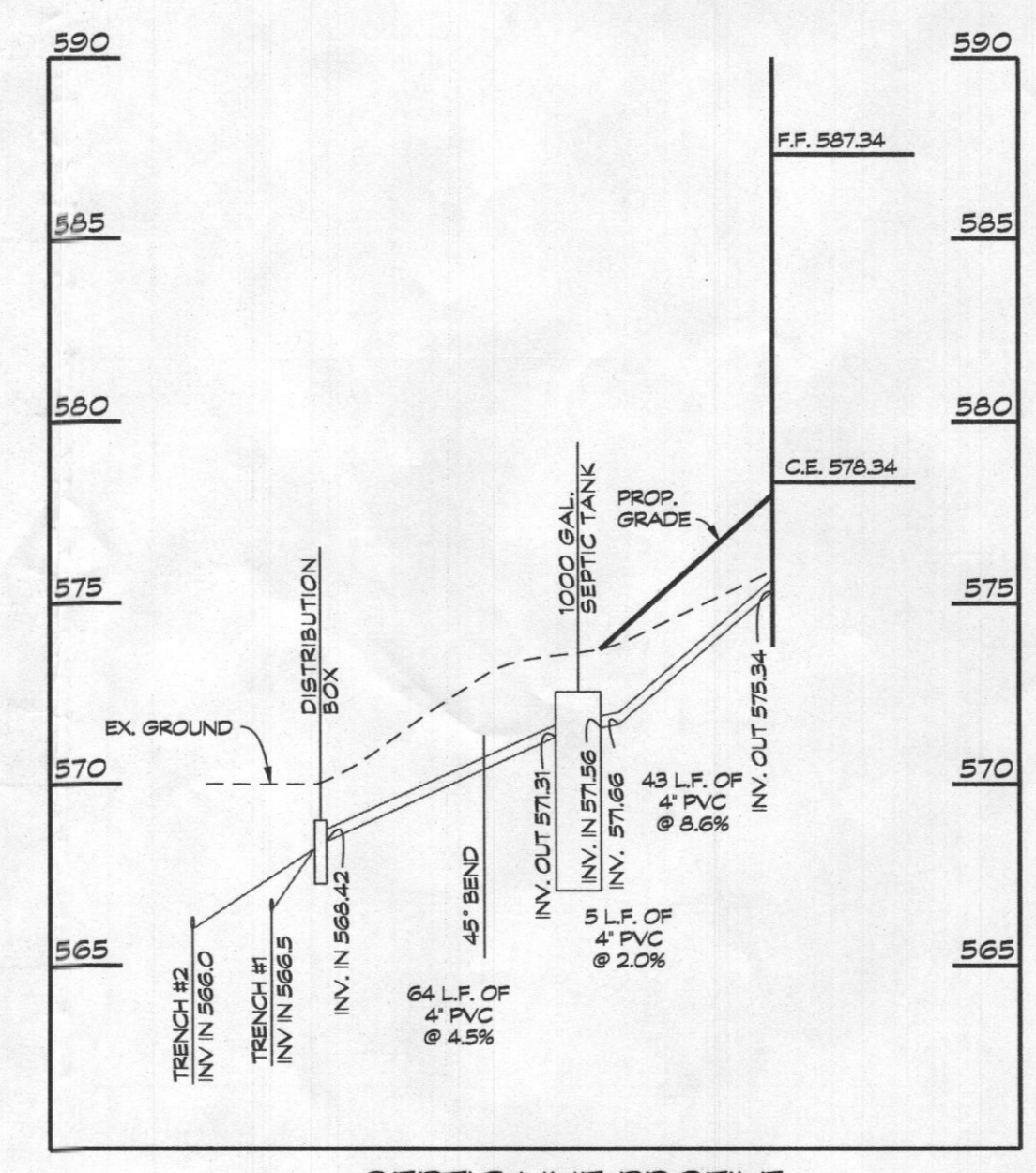
- THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY MICRO-BIORETENTION AND NON-ROOFTOP DISCONNECT.
- THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.

**SEPTIC SYSTEM TRENCH DESIGN:**

PROPOSED NUMBER OF BEDROOMS = 3  
 INITIAL SYSTEM'S APPLICATION RATE = 0.8 DESIGN FLOW: 120 GALS x 3 BEDROOMS = 450 GAL/DAY  
 450 GAL/DAY / 0.8 GAL / DAY/SQ. FT. = 562.5 SQ. FT.  
 562.5 SQ. FT. / 3 FT. = 187.5 USE 188 LF. OF TRENCH  
 188 LF. x 0.625 = 117.5 LF. USE 118 LF. OF TRENCH  
 INITIAL SYSTEM'S USE 2 - 59 LF. OF TRENCH  
 REPLACEMENT SYSTEMS 1 & 2 USE 2 - 59 LF. OF TRENCH

**PLAN 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.
- TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELK RIDGE, MD 410-796-1434
- BASEMENT IS SHOWN AS FINISHED WITH NO BEDROOMS.
- TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELK RIDGE, MD 410-796-1434
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



SEPTIC LINE PROFILE  
SCALE: HORIZ. 1/50  
VERT. 1/5

Approved Septic System Plan  
 Howard County Health Department  
 Name: William Oswald Date: 5/2/17  
 Signature Date

**ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**

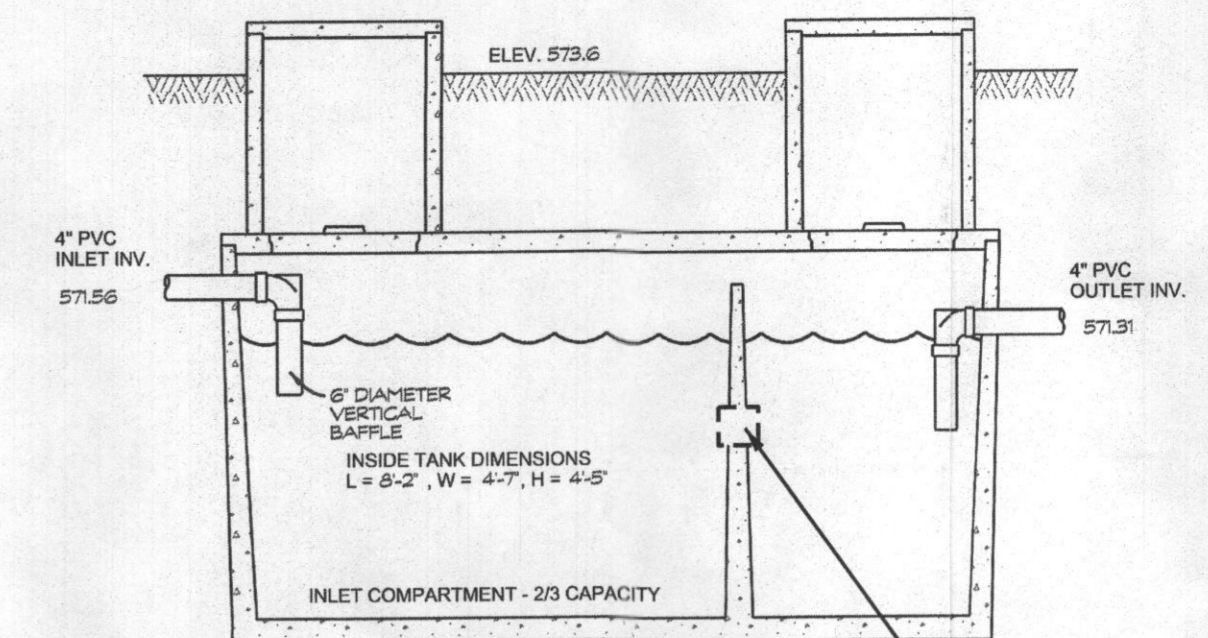
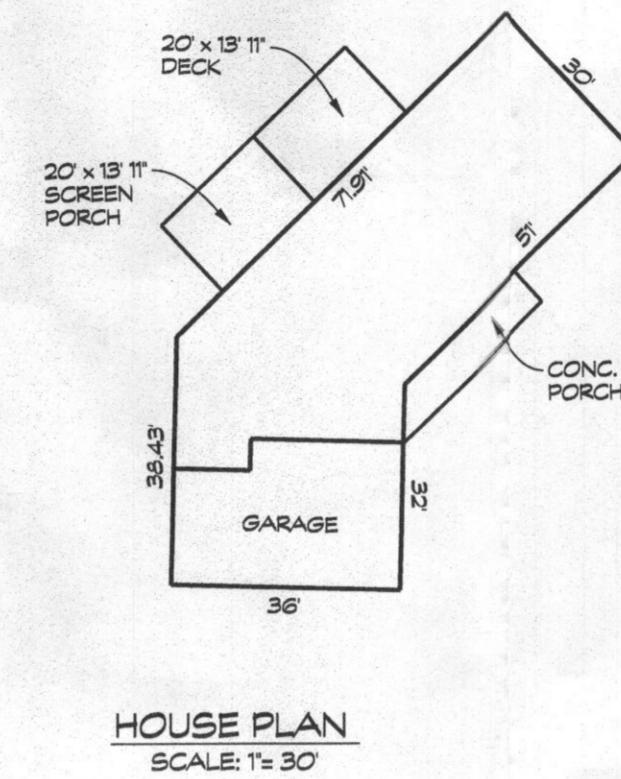
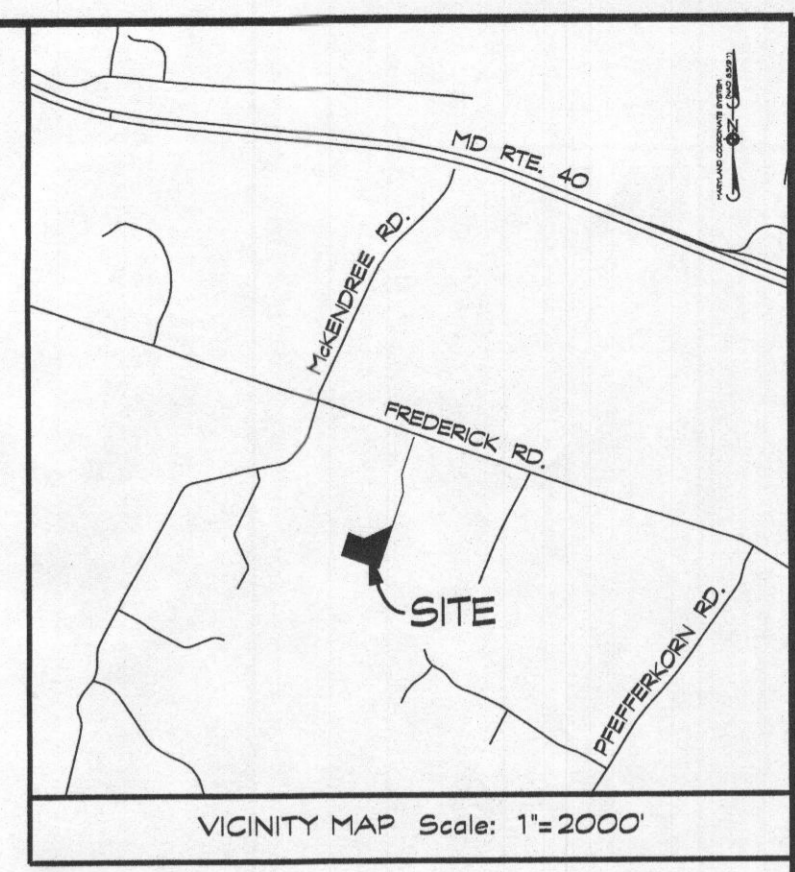
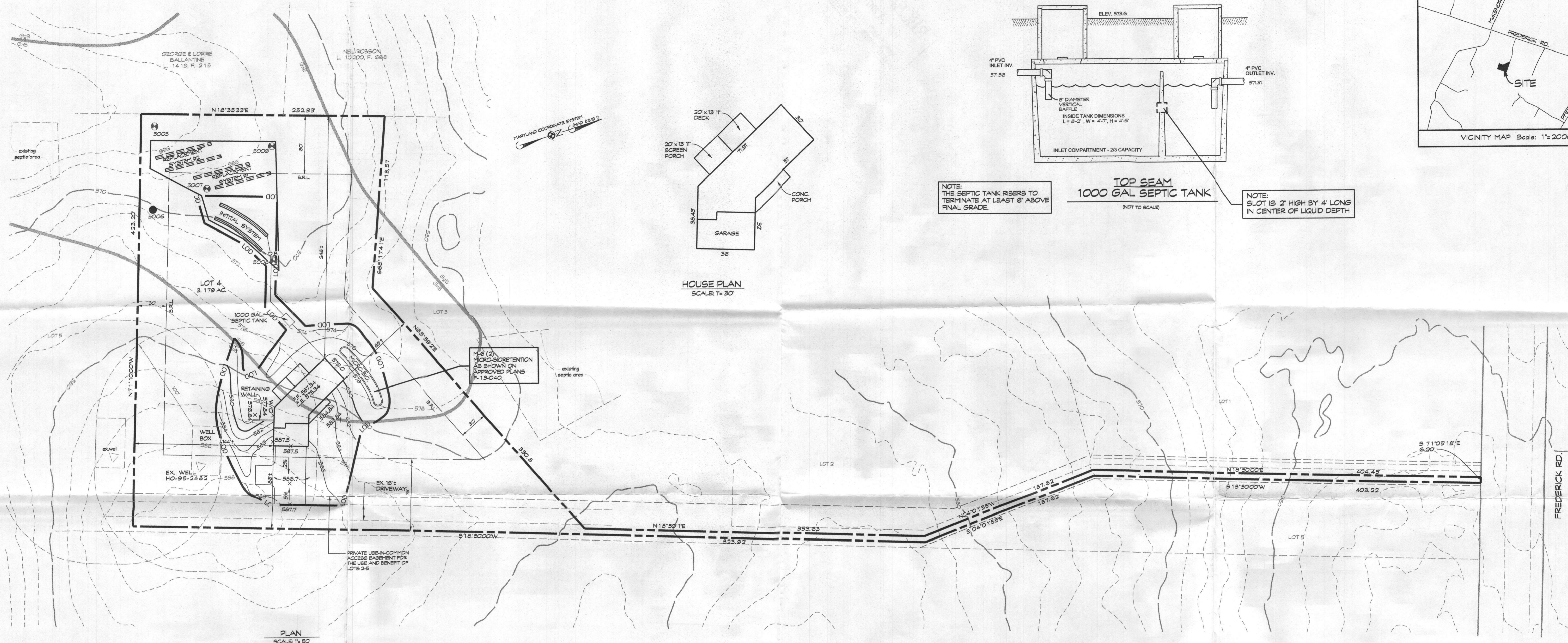
**RENFRO PROPERTY**

13775 FREDERICK ROAD • WAR PLAT NO. 22466  
 TAX MAP 15 • GRID: 1 • PARCEL: 178  
 3rd ELECTION DISTRICT • HOWARD COUNTY, MD

**CLSI**  
 Engineers • Surveyors  
 Land Planning & Environmental Consultants  
 www.clsi-civileng.com

439 East Main Street Westminster, MD 21157-5539  
 (410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM
5/2/17	ADD SEPTIC TANK DETAIL, REV SEPTIC PROFILE PER HD COMMENTS	Designed By: LDA
		Reviewed By:
		Date: APRIL, 2017
		Scale: AS SHOWN
		Job No.: 2017052
		Sheet: 1 OF 1



NOTE: THE SEPTIC TANK RISERS TO TERMINATE AT LEAST 6" ABOVE FINAL GRADE.

**TOP SEAM 1000 GAL SEPTIC TANK**  
(NOT TO SCALE)

NOTE: SLOT IS 2" HIGH BY 4" LONG IN CENTER OF LIQUID DEPTH.

PLAN  
SCALE: 1"=50'

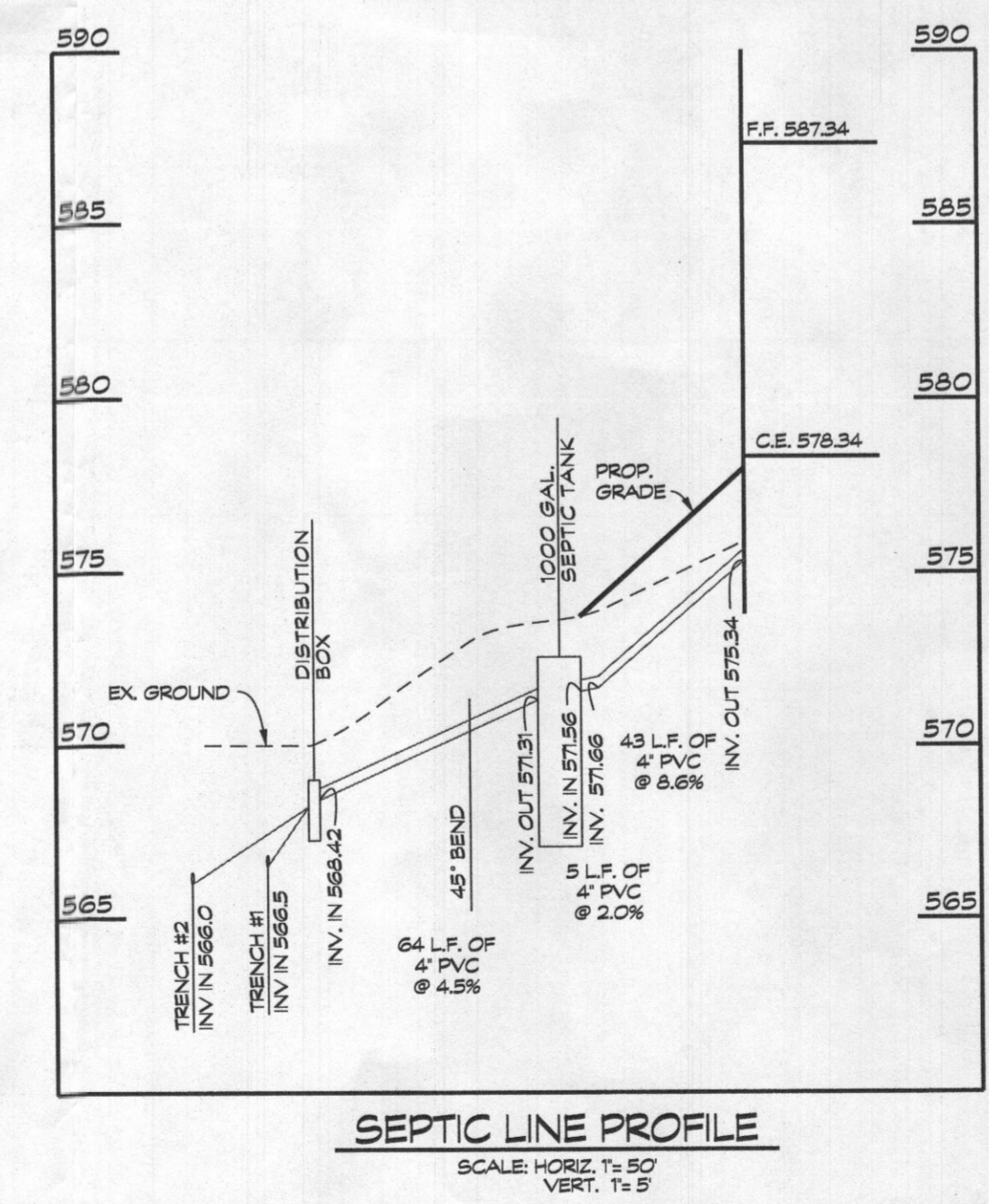
TRENCH CHART

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2	569.5	566.0	561.5

- LEGEND**
- ▲ EXISTING WELL LOCATION
  - GH# SOLI LINES
  - MCD
  - [Hatched Box] DENOTES - TOTAL PROPOSED SEPTIC RESERVE BASEMENT AREA = 10,053 S.F. FOR THE PURPOSE OF LOT 4 SINGLE FAMILY RESIDENCE
  - DENOTES FLOW DIRECTION
  - SF DENOTES SILT FENCE
  - SSF DENOTES SUPER SILT FENCE
  - LOI DENOTES LIMIT OF DISTURBANCE
  - [Box with 'X'] STABILIZED CONSTRUCTION ENTRANCE
  - ~ EXISTING TREBLINE
  - ~ PROPOSED TREBLINE
  - [Box with 'X'] NON-ROOFTOP DISCONNECT
  - ⊗ APPROVED PERCOLATION TESTS
  - FAILED PERCOLATION TESTS

- GENERAL NOTES**
- THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY MICRO-BIORETENTION AND NON-ROOFTOP DISCONNECT.
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450 GAL/DAY / 0.8 GAL./DAY/SQ. FT. = 562.5 SQ. FT.  
159 LF. x 0.625 = 117.8 LF. USE 118 LF. OF TRENCH  
INITIAL SYSTEM  
USE 2 - 59 LF. OF TRENCH  
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- 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 WELL (TAG # HO-95-248-2) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
  - BASEMENT IS SHOWN AS FINISHED WITH NO BEDROOMS.
  - TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELK RIDGE, MD 4 10-798-1434
  - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



SEPTIC LINE PROFILE  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

Approved Septic System Plan  
Howard County Health Department  
Hank Oswald 5/3/17  
Signature Date

ONSITE SEWAGE DISPOSAL  
SYSTEM DESIGN PLAN

**RENPRO PROPERTY**

13775 FREDERICK ROAD • WAR PLAT NO. 22466  
TAX MAP 15 • GRID: 1 • PARCEL: 178  
3rd ELECTION DISTRICT • HOWARD COUNTY, MD



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(410) 848-1790 FAX (410) 848-1791

Linda D. Alexander  
5/3/17  
QUALIFIED PROFESSIONAL

Date	Revisions	Drawn By: BM1
5/2/17	ADD SEPTIC TANK DETAIL, REV SEPTIC PROFILE PER HO COMMENTS	Designed By: LDA
		Reviewed By:
		Date: APRIL 2017
		Scale: AS SHOWN
		Job No.: 2017052
		Sheet: 1 OF 1