

**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: 11-30-22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 572710

APPROVAL DATE: 2/16/23 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 1910 DAVIS BRANCH ROAD, WOODSTOCK, MD 21163

SUBDIVISION: MYRTUE PROPERTY LOT: 31 TAX ID: 03-352668

CONTRACTOR: FARM AND HOME EXCAVATION EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

PROPERTY OWNER: SONSHINE MD LP EMAIL: \_\_\_\_\_

OWNER ADDRESS: 227 GRANITE RUN ROAD, LANCASTER, PA 17601 PHONE: \_\_\_\_\_

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: MAYER BROS., INC.

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>188</u>	INLET DEPTH: <u>*3.0</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>5.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	TRENCH T-1-1 HAS AN INVERT IN AT 3 FEET DEPTH WHILE TRENCHES T-1-2, T-1-3 AND T-1-4 HAVE INLET INVERTS AT 2 FEET DEPTH INSTALL AT LEAST THREE CLEANOUTS IN SHC.	

ISSUED BY: R BRICKER rb ISSUE DATE: 12/15/22 EXPIRATION DATE: 11-30-23 12/15/23

- 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.**

NOT TO SCALE

See separate  
Sheet

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	3'-2'	8"
NUMBER OF TRENCHES		4
TOTAL LENGTH		187'
ABSORPTION AREA		561 ft <sup>2</sup>
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		CONC.
DISTRIBUTION BOX PORT		YES

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	~2'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	11/18/2022

**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:**

12/12/22 - No tag on well. Onsite w/ contractor for layout. Length between trench was longer than 10'. Septic tank & SDA staked. Couldn't layout trenches because distances did not match plan. T<sub>3,4</sub> called for 47' but stakes did not allow for that length. Contractor would like to reline tank & d box lot. (SP)

12/18/22 - Spoke to contractor - fill must be removed and the plan needs to be red lined for the proposal to relocate the tank. (RB) 1/18/23 - laid out 4 trenches according to plan and

**INSTALLATION:**

12/30/2022 tank set. she installed. SL INSTALLED (P)

2/3/23 - Farm & Home onsite for inspection, finishing last trench. T<sub>1</sub> invert at 3' per plan. T<sub>2&3</sub> invert at 2' per plan. T<sub>4</sub> invert at 2.5'. trench width 3' per plan. Very cold outside, could not level d-box, will call in for reinspection. (SP)

2/16/23 - Contractor onsite to level d-box. D-box successfully leveled. Contractor also removing fill during inspection. (SP)

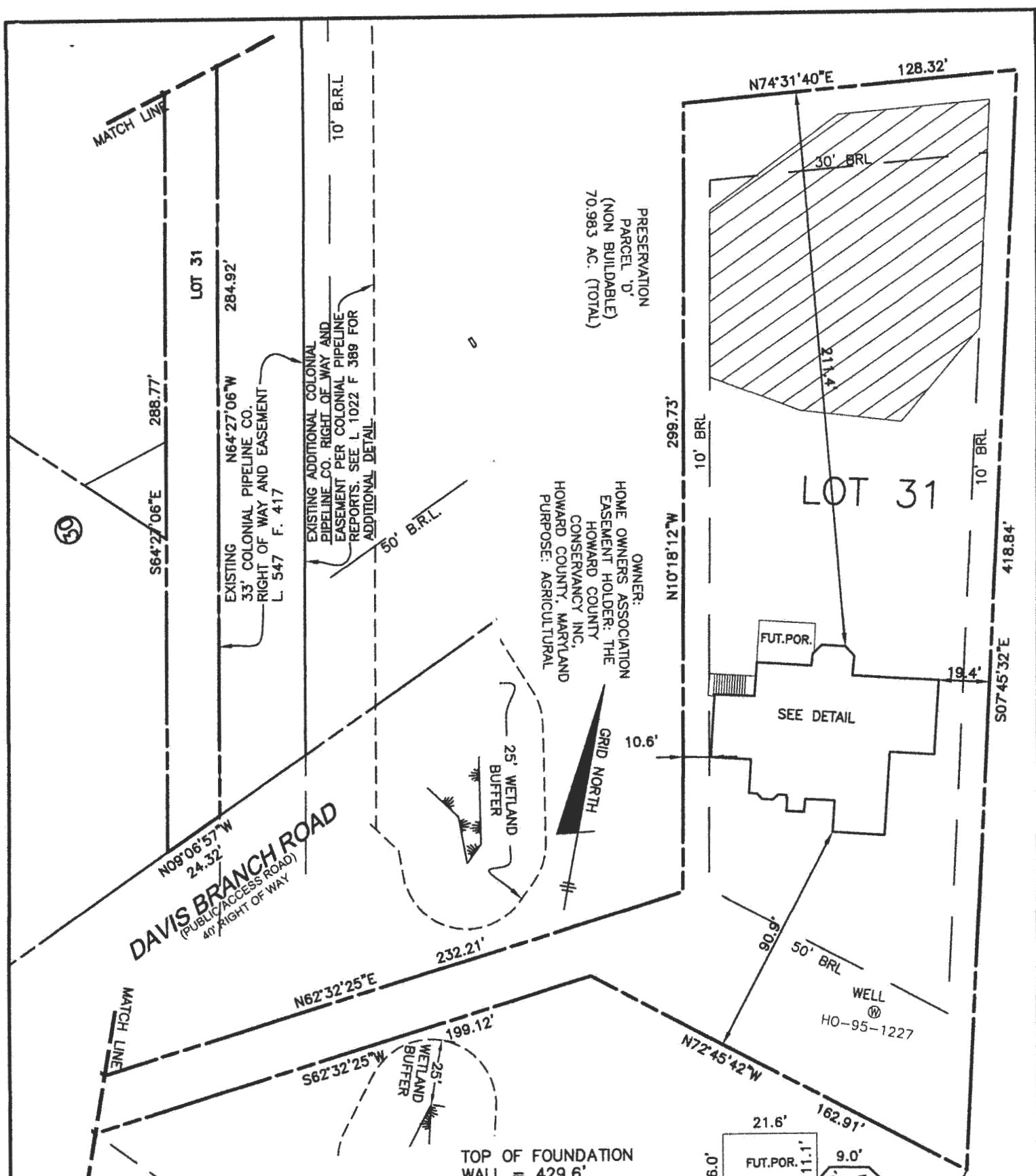
FINAL INSPECTOR

Shepauru Page

DATE OF APPROVAL

2/16/23





**SURVEYOR'S CERTIFICATE**  
 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. 21320, EXPIRATION DATE 1-7-2023 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 08/24/2022.

TOP OF FOUNDATION WALL = 429.6'  
 OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

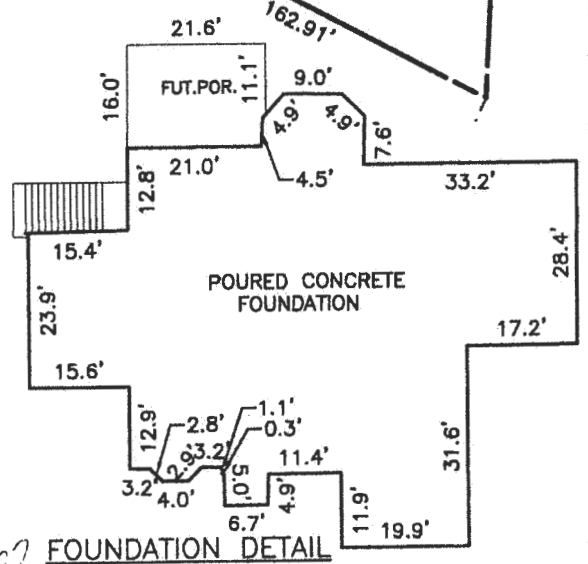
*Donald A. Mason*  
 DONALD A. MASON  
 PROFESSIONAL LAND SURVEYOR  
 MARYLAND REG. No. 21320

FEMA FIRM No. 24027C0080D  
 ZONE: X  
 DATED: 11/06/2013

**BENCHMARK**  
 ENGINEERS LAND SURVEYORS PLANNERS  
**ENGINEERING, INC.**

3300 N. RIDGE RD. SUITE 140 ELICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 (F) 410-465-6644  
 WWW.BEI-CMLEENGINEERING.COM

*wall check OK compared to 09/05. 9/8 12/5/22*



FOUNDATION DETAIL  
 SCALE: 1" = 30'

**WALL CHECK**  
**MYRTUE PROPERTY**  
**PLAT No. 23866**  
**LOT No. 31**

1910 DAVIS BRANCH ROAD

3rd ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FIELD OBS. BY PJ  
 COMP. BY EWF  
 DRAWN BY EWF SCALE: 1" = 50' DATE: 08/24/2022

*WS-SF APP-22-00296*

# HOME LAND LABS



235279 Due Date: 03/01/2023  
Client: Barlow Well

Is the sample for a public water system?  Yes  No

Phone: (443) 505-8375 Email: lab@homelandhealthyhomes.com

9106 Philadelphia Road, Suite 106  
Rosedale, MD 21237  
MD Lab # 353

108 Old Solomons Island Road, Suite L2  
Annapolis, MD 21401  
MD Lab # 106

3430 Rockefeller Court  
Waldorf, MD 20602  
MD Lab # 139

Client Name: Barlow Well Drilling

Email Address: Misom@mbwd.us

Phone Number: 410-838-6910

Property Address: 1910 DAVIS Branch Rd  
Woodstock MD  
Lot 31

### Field Collection Information

Sampler Name: Steve Duklewik

Sampler ID #: 3091SD

Date Sampled: 3-2-23 Time Sampled: 7:45 AM

Well Tag Number: HO-95-1227

Field pH: N/A

Field Chlorine (mg/L): NONE

Sand: NONE

Clarity: Clear

### Well Casing and Cap Condition

Well Type:  Drilled  Well Pit  Below Grade  Artesian  Hand Dug  N/A  Other: \_\_\_\_\_

Height Above Grade: <u>1 Foot</u>	Cap Type: <u>two piece PVC</u>	Casing: <u>PVC</u>	Conduit: <u>PVC</u>
Sample Point: <u>PSI tank</u>	Water Conditioning: <u>NONE</u>		

### Requested Testing: (Please check all that apply)

- Potability (Bacteria, Nitrate + Nitrite, Turbidity)
- FHA/VA (Bacteria, Nitrate + Nitrite, Nitrite, Turbidity, Lead, Iron)
- Bacteria  Chlorides  Total Dissolved Solids
- Lead  Hardness  Copper
- Nitrate + Nitrite  Arsenic  VOCs
- Iron  Cadmium  Other: PH
- Turbidity  Gross Alpha  Other: SAND

List rush samples below  
"Refer to table for rush turnaround times and fees"

\_\_\_\_\_

\_\_\_\_\_

### Release Signatures

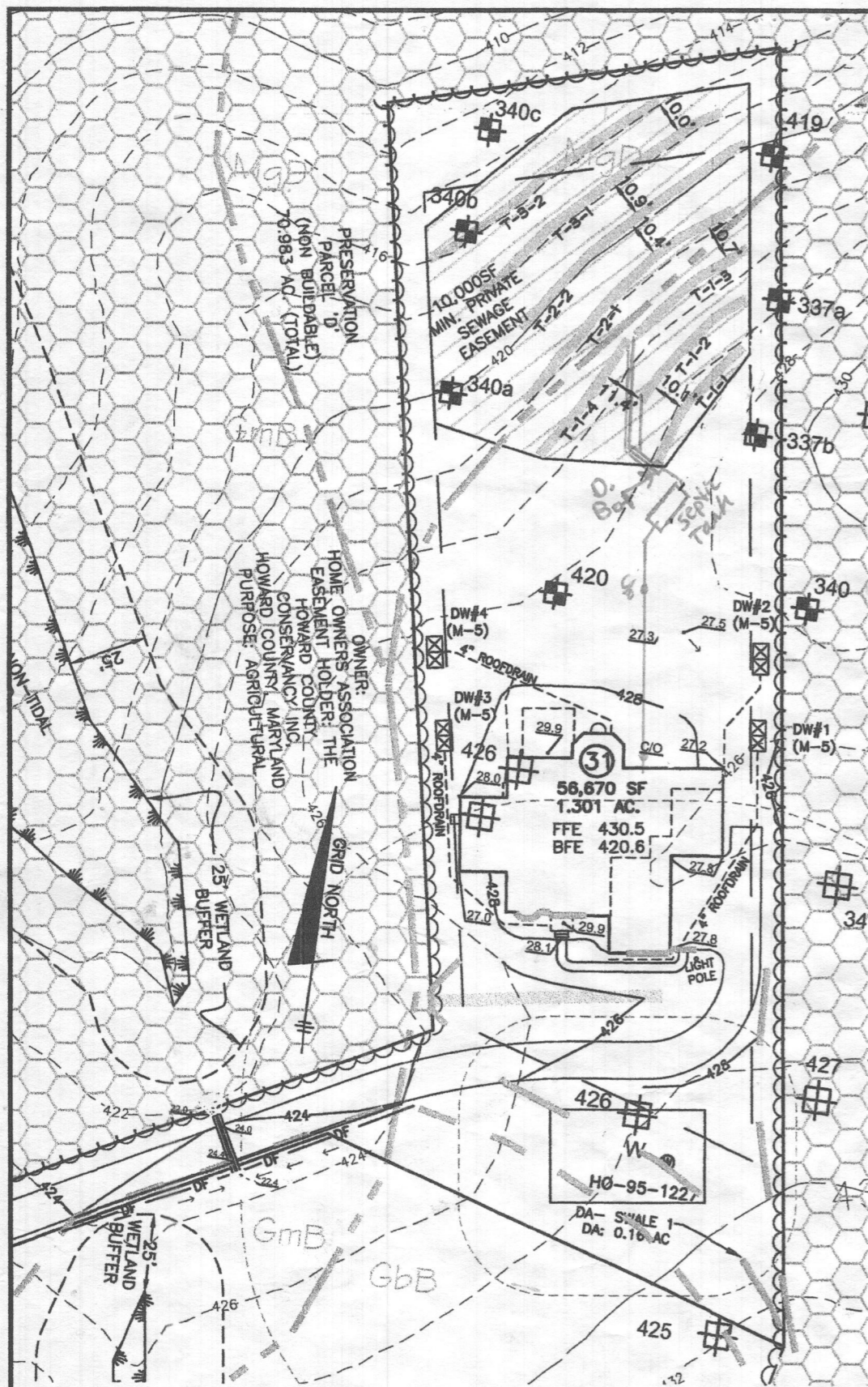
Released By: [Signature] Date/Time: 3-2-23 10:13

Released By: [Signature] Date/Time: 3/3/23 7:57 AM

Released By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received in lab by: [Signature] Date/Time: 3/3/23 7:57 AM

Jim 3/2/23 @ 10:15 AM



**PLAN VIEW**  
1" = 50'

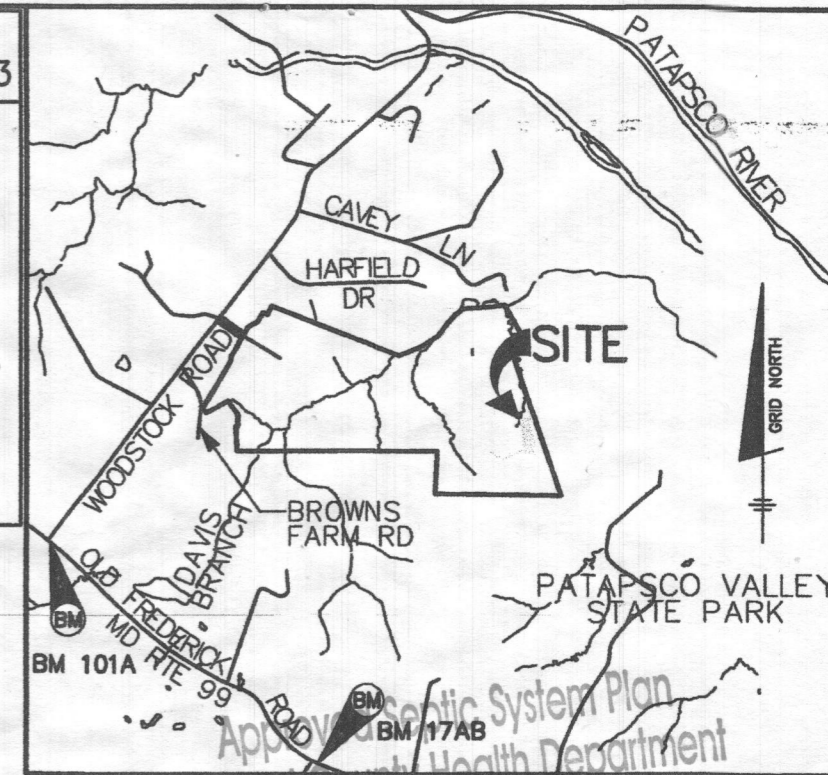
**LEGEND**

- 400 PROPOSED CONTOURS
- 398 EXISTING CONTOURS
- 400 EXISTING PRIVATE SEWAGE DISPOSAL AREA
- EXISTING WELL BOX
- PROPOSED TREELINE
- EXISTING TREELINE
- SOILS MAP SYMBOL
- SOILS DELINEATION LINE
- PERC TEST PASSED
- PERC TEST FAILED

**BENCHMARK INFORMATION NAD83**

Ho. Co. STATION 17AB  
STAMPED DISC SET ON TOP OF CONCRETE COLUMN  
NORTHING: 564468.943'  
EASTING: 1318257.375'  
ELEVATION: 561.105'

Ho. Co. STATION 101A  
STAMPED DISC SET ON TOP OF CONCRETE COLUMN  
NORTHING: 565347.937'  
EASTING: 1319266.269'  
ELEVATION: 588.708'



**VICINITY MAP**

SCALE: 1" = 2000'

**GENERAL NOTES**

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR MYRTUE PROPERTY, PLAT NUMBER 23866. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREA, ALL EASEMENTS AND CONDITIONS.
2. THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-1227) HAS BEEN FIELD LOCATED BY DAFT, McCUNE WALKER, INC. AND IS SHOWN IN ACCORDANCE WITH THEIR SURVEY.
3. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
4. TOPOGRAPHY SHOWN WAS FIELD SURVEYED BY BENCHMARK ENGINEERING, INC. IN OCTOBER, 2021.
5. SEDIMENT AND EROSION CONTROLS WILL BE SUBMITTED BY HOWARD SOILS CONSERVATION DISTRICT AS A CUSTOM GRADING PLAN.
6. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED BUILDING PERMIT AND CUSTOM GRADING PLANS.
7. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. ANY CHANGES 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.
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12. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS/OR SEPTIC SYSTEM HAVE BEEN SHOWN.

\* Revised Tank and Dist. Box Location to allow Install 12/19/22

Approved Septic System Plan  
Howard County Health Department

11/22/2021 Date  
g.s. Signature

12/22/22 Date

Professional Certification. 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. 28376, Expiration Date: 01-01-2023.

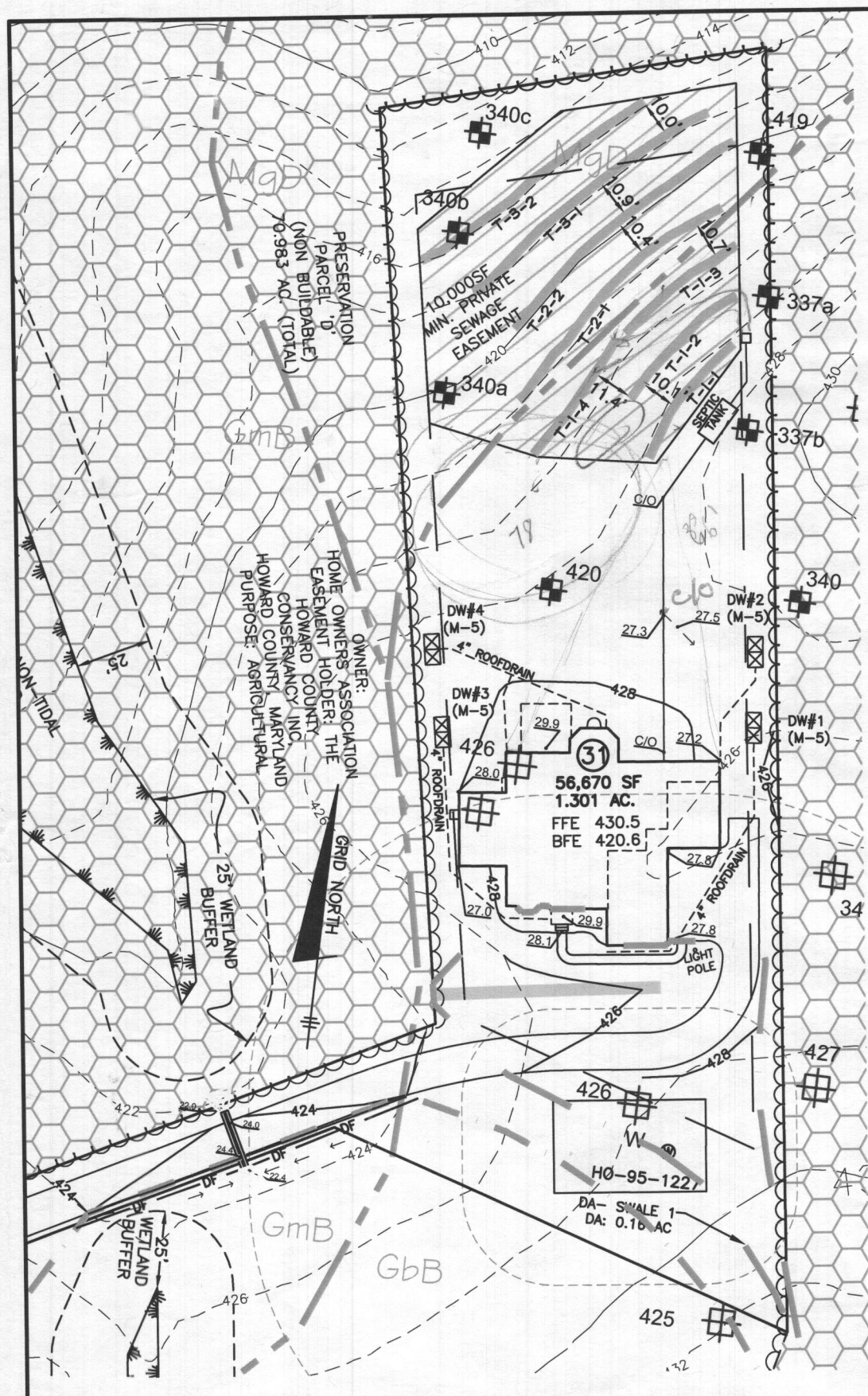
STATE OF MARYLAND  
ALICE A. MILLER  
No. 28376  
PROFESSIONAL ENGINEER

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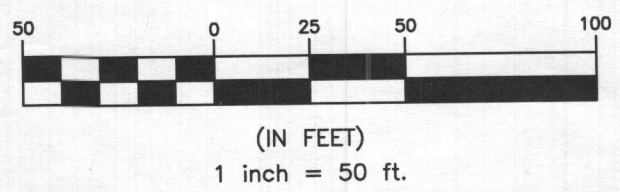
**BUILDER:**  
KEYSTONE CUSTOM HOMES, INC.  
227 GRANITE RUN DR.  
SUITE 100  
LANCASTER, PA 17601  
717-464-9060

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
ENGINEERING, INC.  
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-6105 ▲ (F) 410-465-6644  
WWW.BEI-CVLENGINEERING.COM

PROJECT:	MYRTUE PROPERTY LOT 31	
LOCATION:	TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1910 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352668	
TITLE:	ONSITE SEWAGE DISPOSAL PLAN	
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES	
DATE:	OCTOBER, 2021	PROJECT NO. 2099
SCALE:	AS SHOWN	DRAWING 1 OF 2



**PLAN VIEW**  
1" = 50'



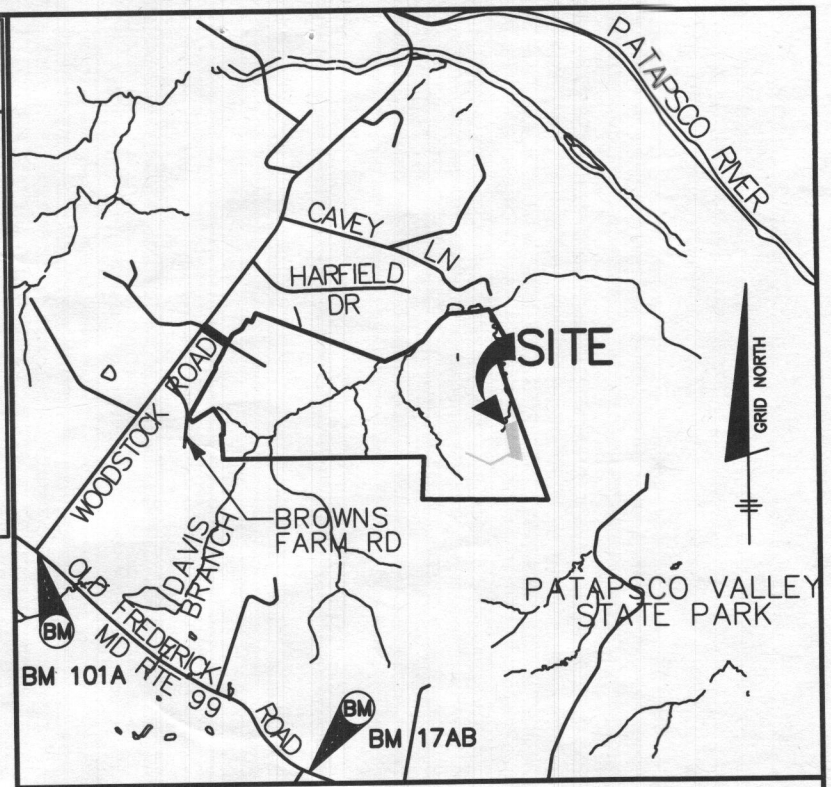
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Approved Septic System Plan  
 Howard County Health Department  
 Signature: *Alice A. Miller*  
 Date: 11/22/2021

Professional Certification. 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. 28376, Expiration Date: 01-01-2023.



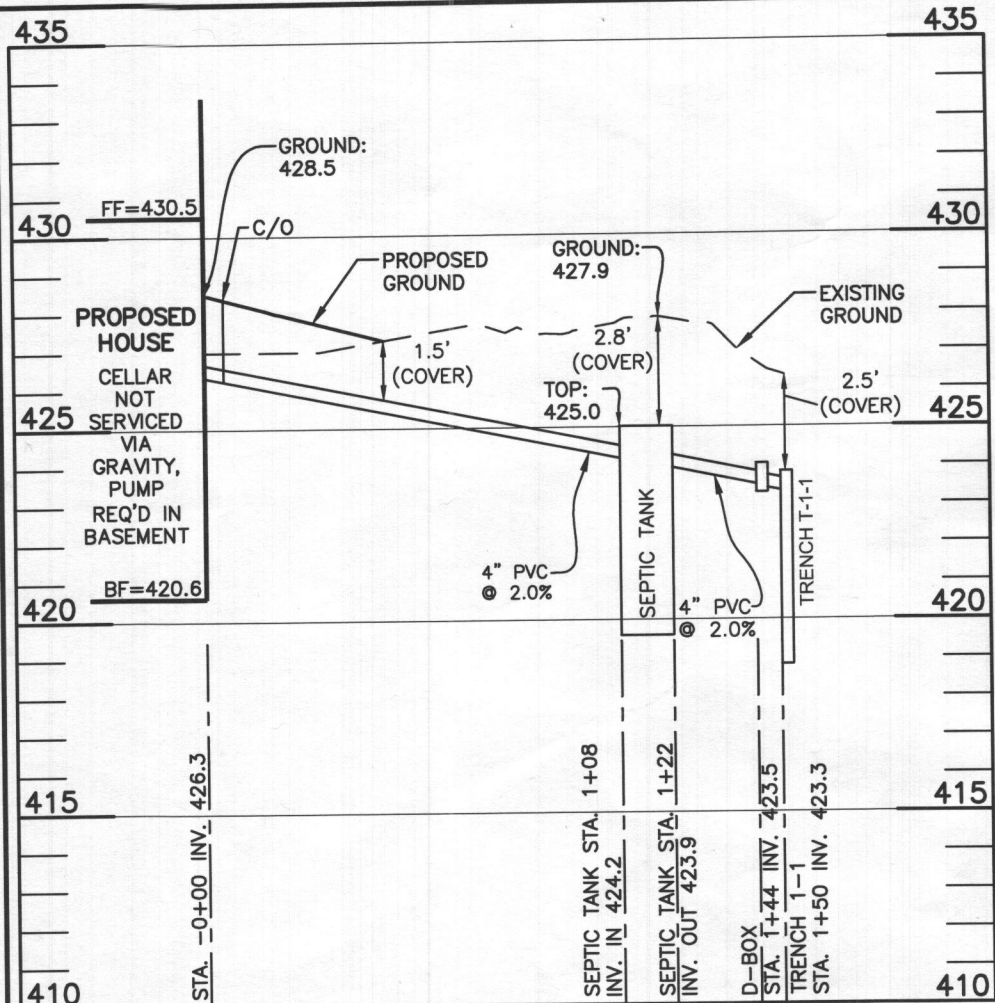
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**BUILDER:**  
KEYSTONE CUSTOM HOMES, INC.  
227 GRANITE RUN DR.  
SUITE 100  
LANCASTER, PA 17601  
717-464-9060

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WWW.BEI-CIVILENGINEERING.COM

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TITLE: <b>ONSITE SEWAGE DISPOSAL PLAN</b>	
HOUSE TYPE: <b>CUSTOM - KEYSTONE HOMES</b>	
DATE: <b>OCTOBER, 2021</b>	PROJECT NO. <b>2099</b>
SCALE: <b>AS SHOWN</b>	DRAWING <u>1</u> OF <u>2</u>



**LOT 31 SEWER PROFILE**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

INITIAL SYSTEM			
Number of Bedrooms	6		
Application Rate	0.8	gpd/sf	
Effective Area Beginning Depth	5.0	ft	
Bottom Max Depth	8.0	ft	
Design Flow	900	gpd	
Drainage Field square footage	1125	sf	
Sidewall Reduction Credit	0.50		
Trench width	3	ft	
Effective Area Depth	3	ft	
Trench Spacing	10	ft	
Linear Length of trench Required	188	lf	

1ST REPLACEMENT SYSTEM			
Number of Bedrooms	6		
Application Rate	0.8	gpd/sf	
Effective Area Beginning Depth	5.0	ft	
Bottom Max Depth	8.0	ft	
Design Flow	900	gpd	
Drainage Field square footage	1125	sf	
Sidewall Reduction Credit	0.50		
Trench width	3	ft	
Effective Area Depth	3	ft	
Trench Spacing	10	ft	
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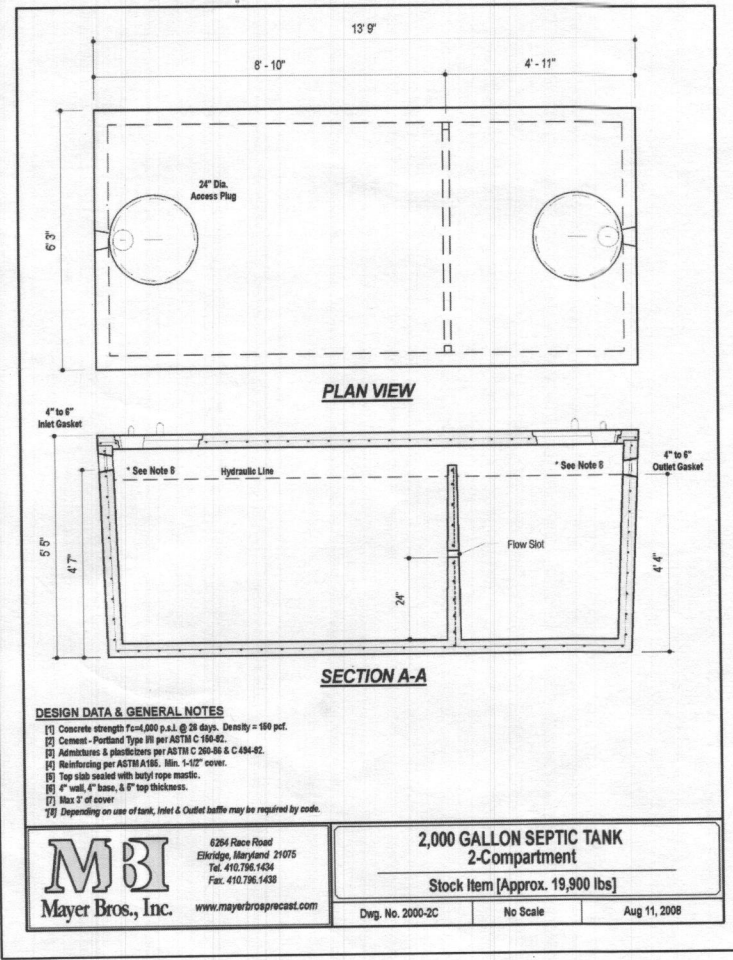
2ND REPLACEMENT SYSTEM			
Number of Bedrooms	6		
Application Rate	0.8	gpd/sf	
Effective Area Beginning Depth	5.0	ft	
Bottom Max Depth	8.0	ft	
Design Flow	900	gpd	
Drainage Field square footage	1125	sf	
Sidewall Reduction Credit	0.50		
Trench width	3	ft	
Effective Area Depth	3	ft	
Trench Spacing	10	ft	
Linear Length of trench Required	188	lf	

TRENCH DESIGN - Lot 31			
INITIAL SYSTEM		INITIAL SYSTEM	
T-1-1	LENGTH 46.9 ft	T-1-2	LENGTH 46.9 ft
	GROUND ELEVATION 426.3		GROUND ELEVATION 424.9
	INVERT ELEVATION 423.3		INVERT ELEVATION 422.9
	MAX BOTTOM ELEVATION 418.3		MAX BOTTOM ELEVATION 416.9
T-1-3	LENGTH 46.9 ft	T-1-4	LENGTH 46.9 ft
	GROUND ELEVATION 423.5		GROUND ELEVATION 423.4
	INVERT ELEVATION 421.5		INVERT ELEVATION 421.4
	MAX BOTTOM ELEVATION 415.5		MAX BOTTOM ELEVATION 415.4

1ST REPLACEMENT SYSTEM			
T-2-1	LENGTH 93.8 ft	T-2-2	LENGTH 93.8 ft
	GROUND ELEVATION 421.9		GROUND ELEVATION 419.9
	INVERT ELEVATION 419.9		INVERT ELEVATION 417.9
	MAX BOTTOM ELEVATION 413.9		MAX BOTTOM ELEVATION 411.9

2ND REPLACEMENT SYSTEM			
T-3-1	LENGTH 97.5 ft	T-3-2	LENGTH 90 ft
	GROUND ELEVATION 417.9		GROUND ELEVATION 415.9
	INVERT ELEVATION 415.9		INVERT ELEVATION 413.9
	MAX BOTTOM ELEVATION 409.9		MAX BOTTOM ELEVATION 407.9

SEPTIC INVERT CHART - Lot 31	
INV @ HOUSE	426.3
GROUND @ HOUSE	428.5
INV IN SEPTIC TANK	424.2
INV OUT SEPTIC TANK	424.0
TOP OF SEPTIC TANK	425.0
GROUND OVER SEPTIC TANK	427.9
INV IN DIST BOX	423.5
INV OUT DIST BOX	423.4
GROUND AT DIST BOX	426.6



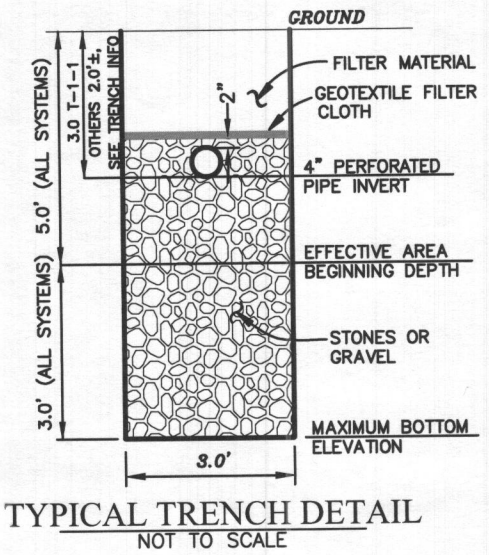
**DESIGN DATA & GENERAL NOTES**  
 [1] Concrete strength F<sub>c</sub>=4,000 p.s.i., @ 28 days. Density = 150 pcf.  
 [2] Cement - Portland Type III per ASTM C 150-82.  
 [3] Admixtures & plasticizers per ASTM C 266-86 & C 494-82.  
 [4] Reinforcing per ASTM A 195. Min. 1-1/2" cover.  
 [5] Top slab sealed with butyl rope mastic.  
 [6] 1" wall, 4" base, 2" top thickness.  
 [7] Max 3" of cover.  
 [8] Depending on use of tank, Inlet & Outlet baffles may be required by code.

**2,000 GALLON SEPTIC TANK**  
2-Compartment  
Stock Item [Approx. 19,900 lbs]  
Dwg. No. 2000-2C No Scale Aug 11, 2008



6284 Race Road  
Elkridge, Maryland 21075  
Tel. 410.796.1434  
Fax. 410.796.1438  
www.mayerbrosprecast.com

HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 31			
System	Application Rate	Effective Depth	Bottom Depth
1st System	0.8	5.0	8.0
2nd system	0.8	5.0	8.0
3rd System	0.8	5.0	8.0



Approved Septic System Plan  
Howard County Health Department  
2000-gallon Septic Tank  
to Gravity Distribution  
for 6-Bedroom residence  
*R. Buehler* 1/22/2021  
Signature Date

Professional Certification. 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. 28376, Expiration Date: 01-01-2023.



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**BUILDER:**  
KEYSTONE CUSTOM HOMES, INC.  
227 GRANITE RUN DR.  
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8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-6105 ▲ (F) 410-465-6644  
WWW.BEI-CMLENGINEERING.COM

PROJECT:	MYRTUE PROPERTY LOT 31		
LOCATION:	TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1910 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352668		
TITLE:	ONSITE SEWAGE DISPOSAL PLAN		
HOUSE TYPE:	CUSTOM - KEYSTONE HOMES		
DATE:	OCTOBER, 2021	PROJECT NO.	2099
SCALE:	AS SHOWN	DRAWING	2 OF 2