

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: 6/10/2022 ONSITE SEWAGE DISPOSAL SYSTEM P 571588

APPROVAL DATE: 08/15/2022 PERMIT: CONSTRUCTION A

PROPERTY ADDRESS: 1847 DAVIS BRANCH ROAD, WOODSTOCK, MD 21163

SUBDIVISION: MYRTUE PROPERTY LOT: 12 TAX ID: 03-352447

CONTRACTOR: FARM AND HOME EXCAVATING, INC. EMAIL:

CONTRACTOR ADDRESS: 901 DRIVER ROAD, MARRIOTTSVILLE, MD 21104 PHONE: (410)442-2139

PROPERTY OWNER: SONSHINE MD LP EMAIL: nbontempi@keystonecustomhomes

OWNER ADDRESS: 227 GRANITE RUN ROAD, LANCASTER, PA 17601 PHONE: (717)469-9060

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

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

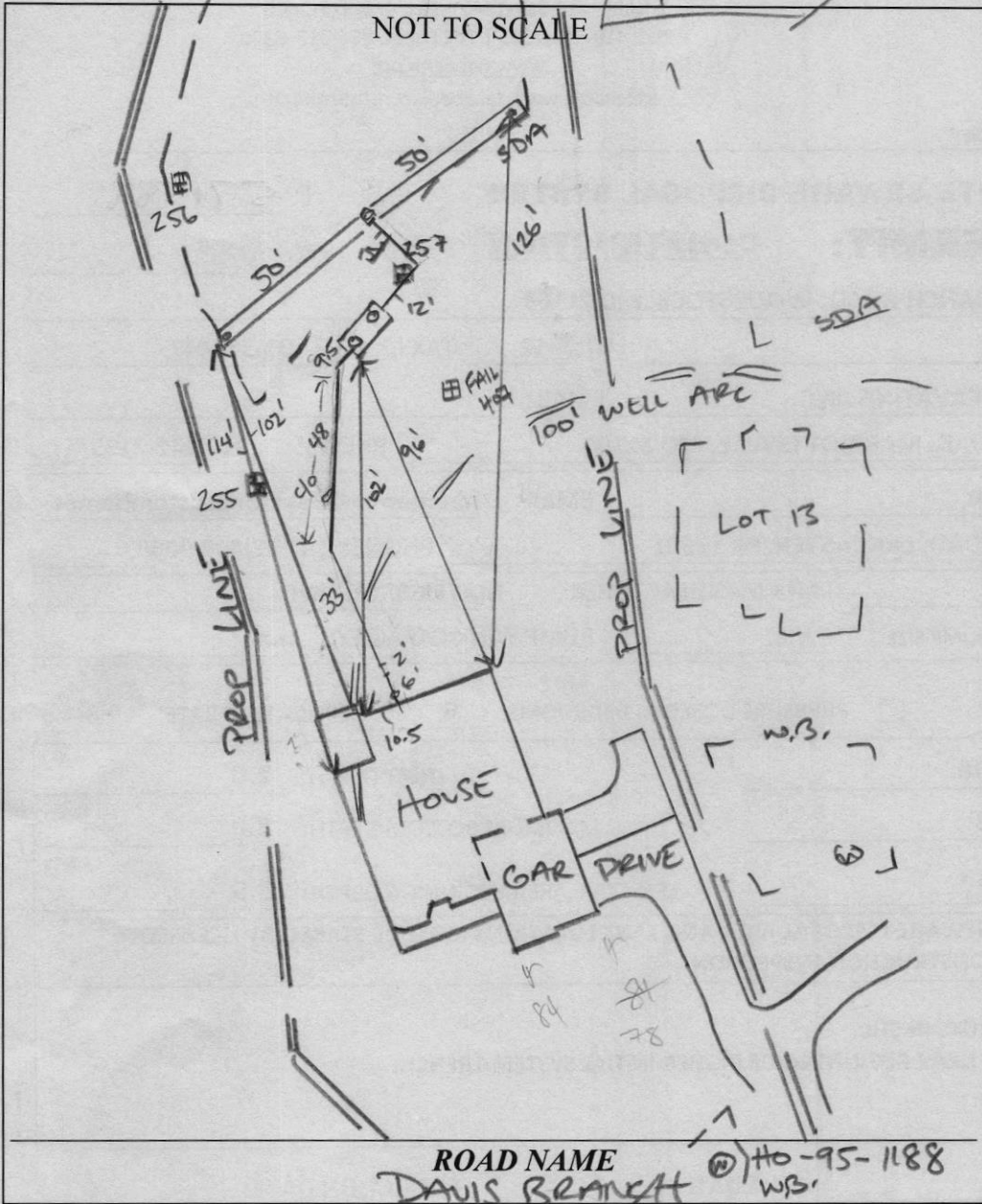
DISTRIBUTION SYSTEM: [X] GRAVITY [ ] PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required: 96, Inlet depth: 2.0, etc.)

ISSUED BY: R BRICKER ISSUE DATE: EXPIRATION DATE:

- 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
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.



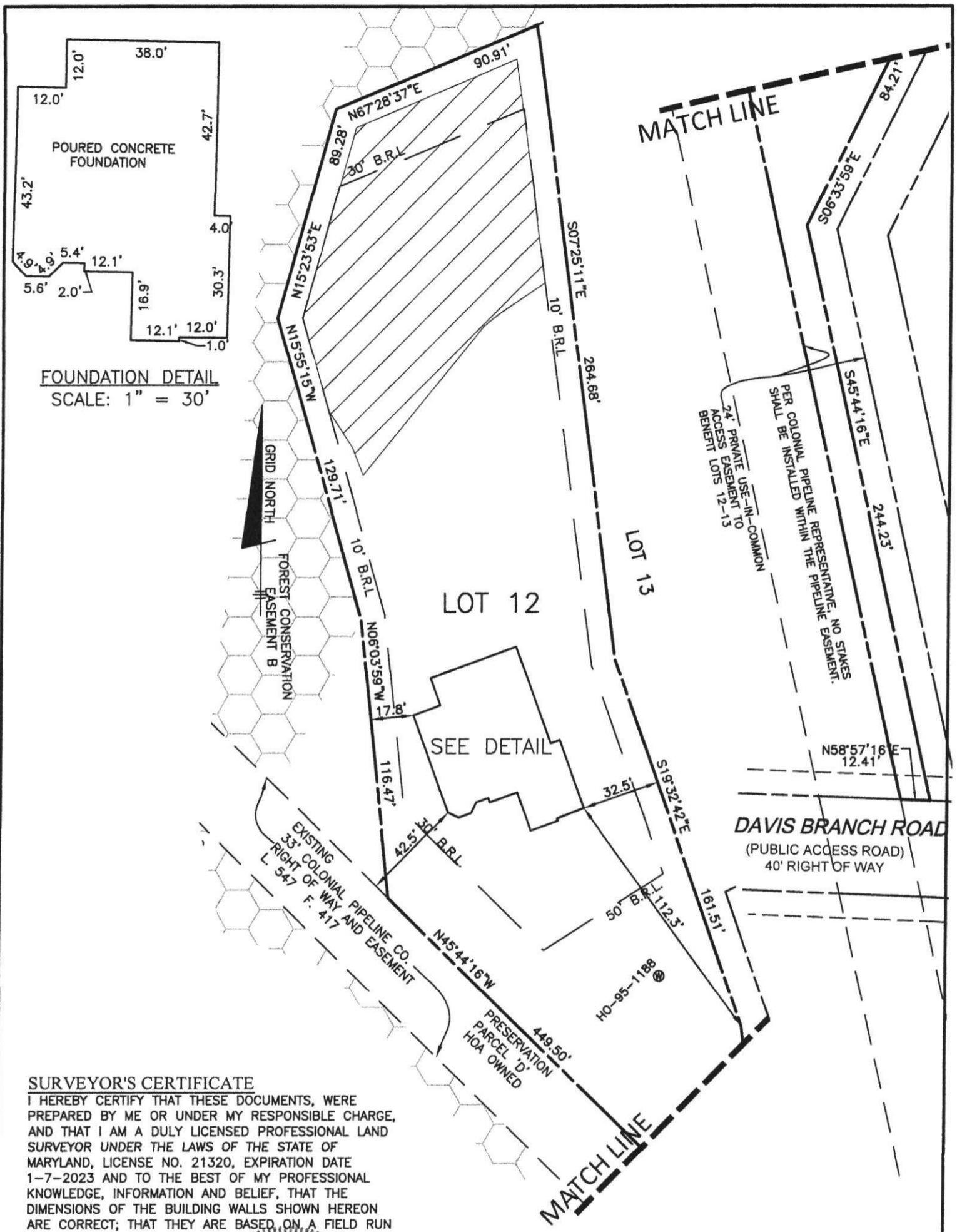
TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		100 F
ABSORPTION AREA		300 SF + 4.5' SIDE MANHOLE
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		CONC-
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYDIN
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	3.5'-1'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	06/23/2022
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION: 08/03/2022 LAID OUT 2x50' TRS ON CONTOUR. TANK LOCATION OK

INSTALLATION: 08/15/2022 SHC, SL, TANK SET, D BOX SET, LEVELLED W/ SPEED LEVELS; TRS COMPLETE.

FINAL INSPECTOR [Signature] DATE OF APPROVAL 08/15/2022



**FOUNDATION DETAIL**  
SCALE: 1" = 30'

**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 04/14/2022.

*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.**

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-6105 ▲ (F) 410-465-6644

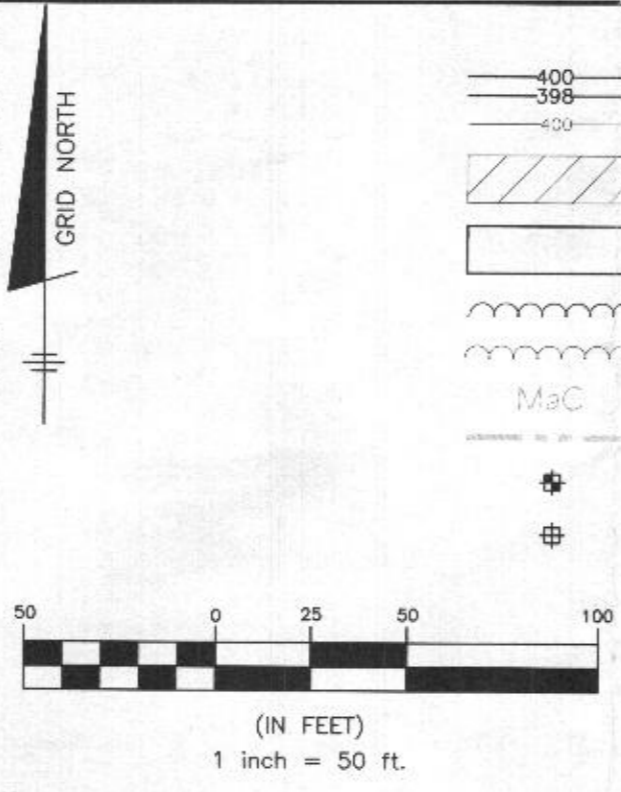
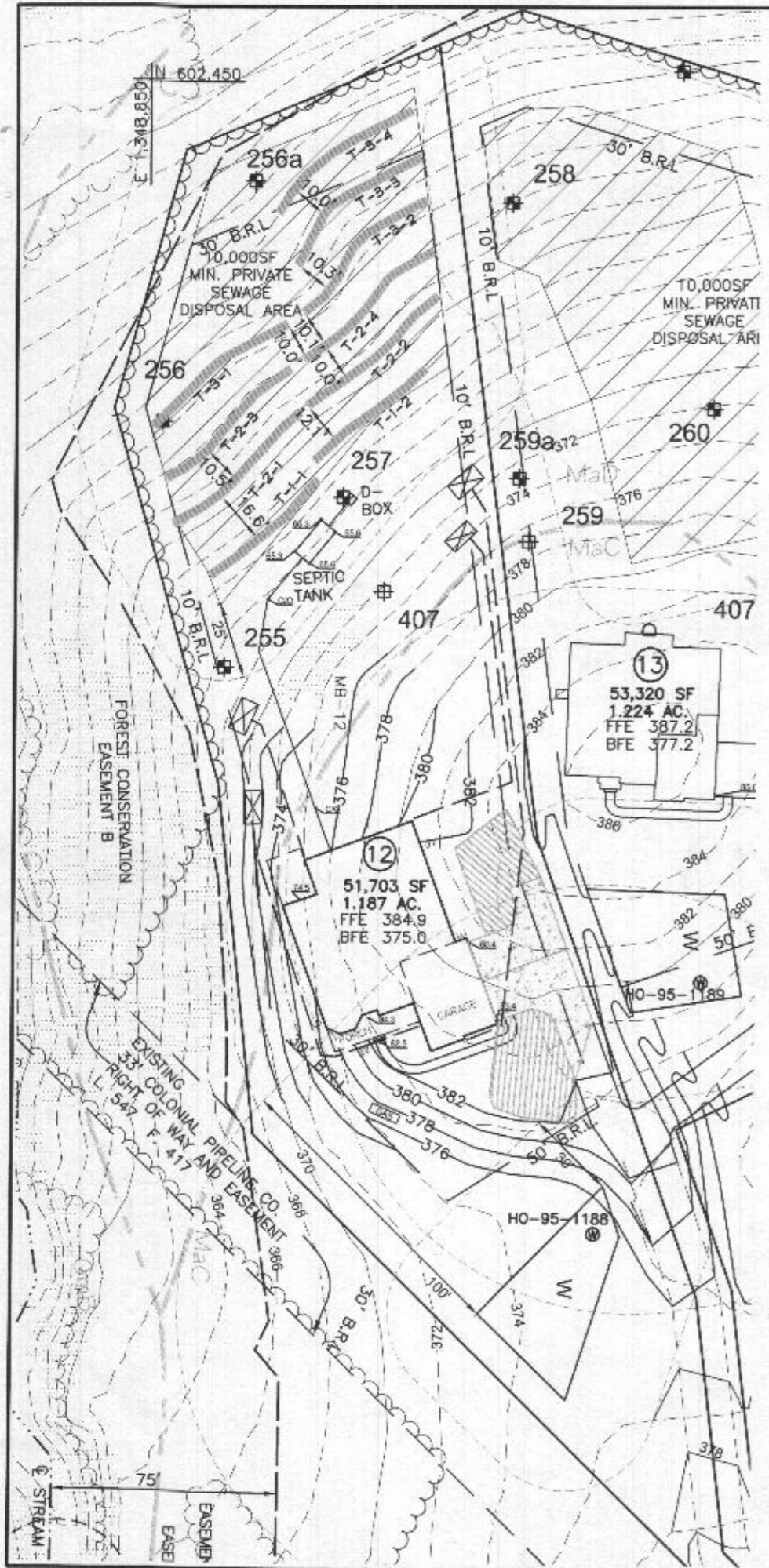
WWW.BEI-CIVILENGINEERING.COM

TOP OF FOUNDATION WALL = 382.9'  
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

*Wall Check*  
*OK*  
*MLC 6/10/2022*

**WALL CHECK**  
**MYRTUE PROPERTY**  
**PLAT No. 23868**  
**LOT No. 12**  
**1847 DAVIS BRANCH ROAD**

3rd ELECTION DISTRICT  
FIELD OBS. BY ML  
COMP. BY EWF  
DRAWN BY EWF  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' DATE: 04/14/2022



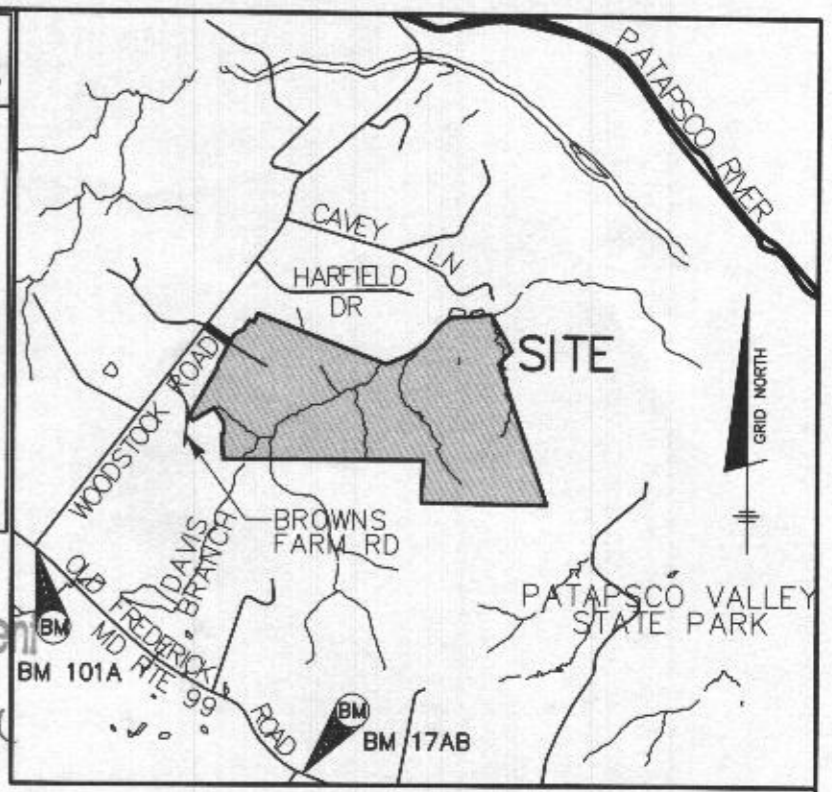
**LEGEND**

- 400, 398, 400: PROPOSED CONTOURS
- EXISTING CONTOURS
- 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'

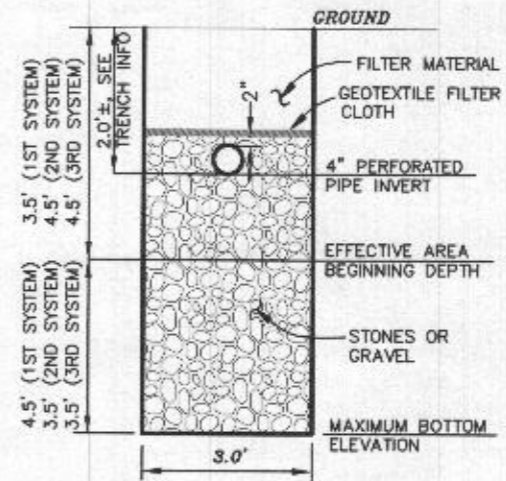
Ho. Co. STATION 101A  
 STAMPED DISC SET ON TOP OF CONCRETE COLUMN  
 NORTHING: 565347.937'  
 EASTING: 1319266.269'  
 ELEVATION: 588.708'



*Approved Septic System Plan  
 Howard County Health Department  
 2000-gal Septic Tank  
 to Gravity Distribution  
 for 6-Bedroom SFD  
 Builder 8/30/2021  
 Date*

**GENERAL NOTES**

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR MYRTUE PROPERTY, PLAT NUMBER 23868. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREA, ALL EASEMENTS AND CONDITIONS.
2. THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-1188) 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 FLOWN BY VIRGINIA RESOURCE MAPPING, INC. DATED FEBRUARY 2003 AND SUPPLEMENTED WITH FIELD SURVEY BY DMW, INC. DATED 2005.
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.
9. ANY ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
10. THE SEPTIC TANK WILL BE A 2000 GALLON TWO COMPARTMENT TANK.
11. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
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.



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.



AAM-BEI

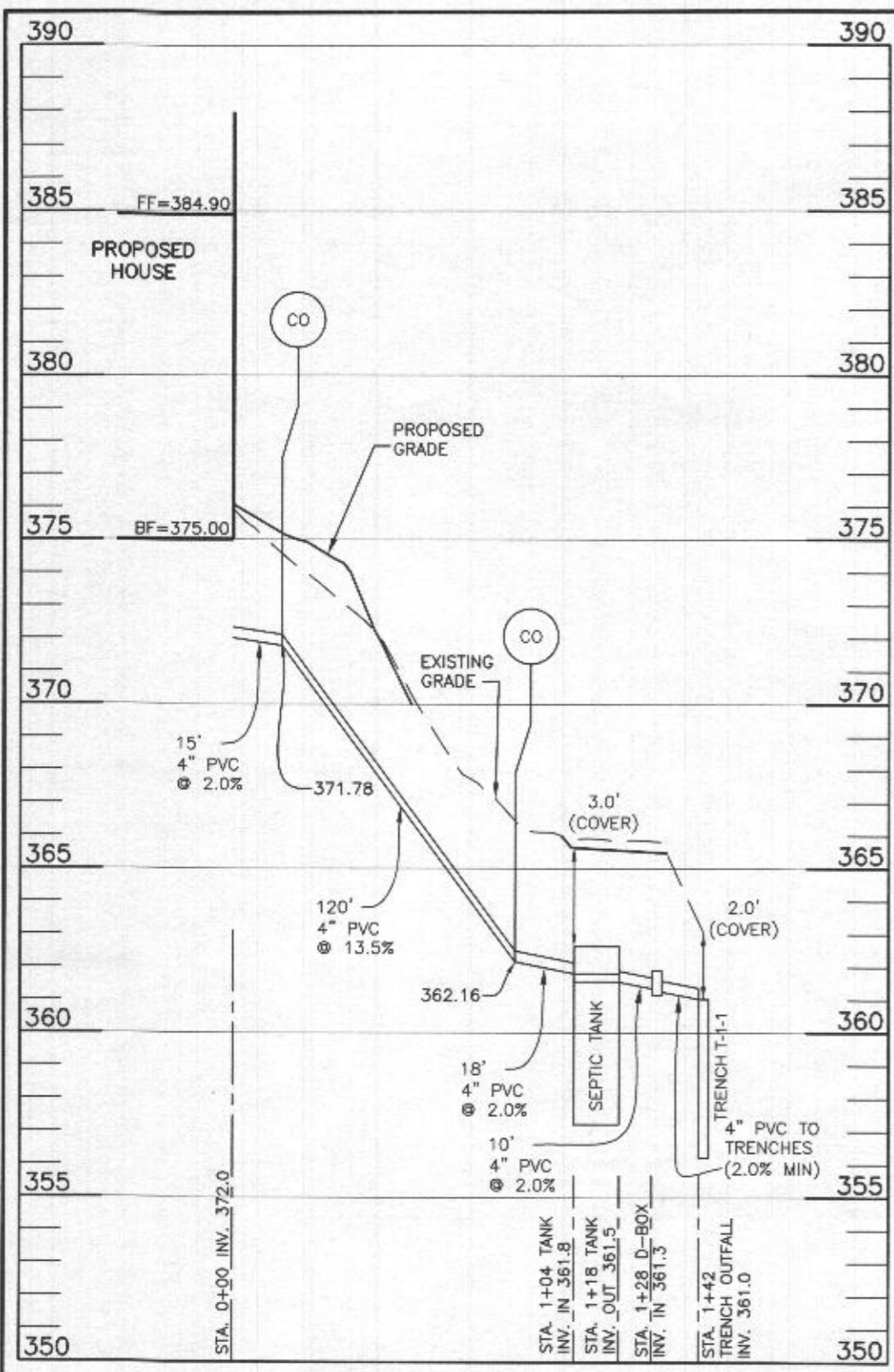
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**PLAN VIEW**  
1" = 50'

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

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS • LAND SURVEYORS • PLANNERS  
 8480 BALTIMORE NATIONAL PIKE • SUITE 315  
 ELLICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 • (F) 410-465-6844  
 WWW.BEI-CIVILENGINEERING.COM

PROJECT: <b>MYRTUE PROPERTY LOT 12</b>	
LOCATION: TAX MAP: 10, GRID: 24, PARCEL: 225, ZONED: RC-DEO 1847 DAVIS BRANCH RD. WOODSTOCK, MD 21163 6TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID 352447	
TITLE: <b>ONSITE SEWAGE DISPOSAL PLAN</b>	
HOUSE TYPE: <b>CUSTOM - KEYSTONE HOMES</b>	
DATE: JULY, 2021	PROJECT NO. 2099
SCALE: AS SHOWN	DRAWING 1 OF 2



SEWER OUTFALL LOT 12  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

HEALTH DEPARTMENT SPEC SHEET INFORMATION - Lot 12			
System	Application Rate	Effective Depth	Bottom Depth
1st System	1.2	3.5	8.0
2nd system	0.6	4.5	8.0
3rd System	0.6	4.5	8.0

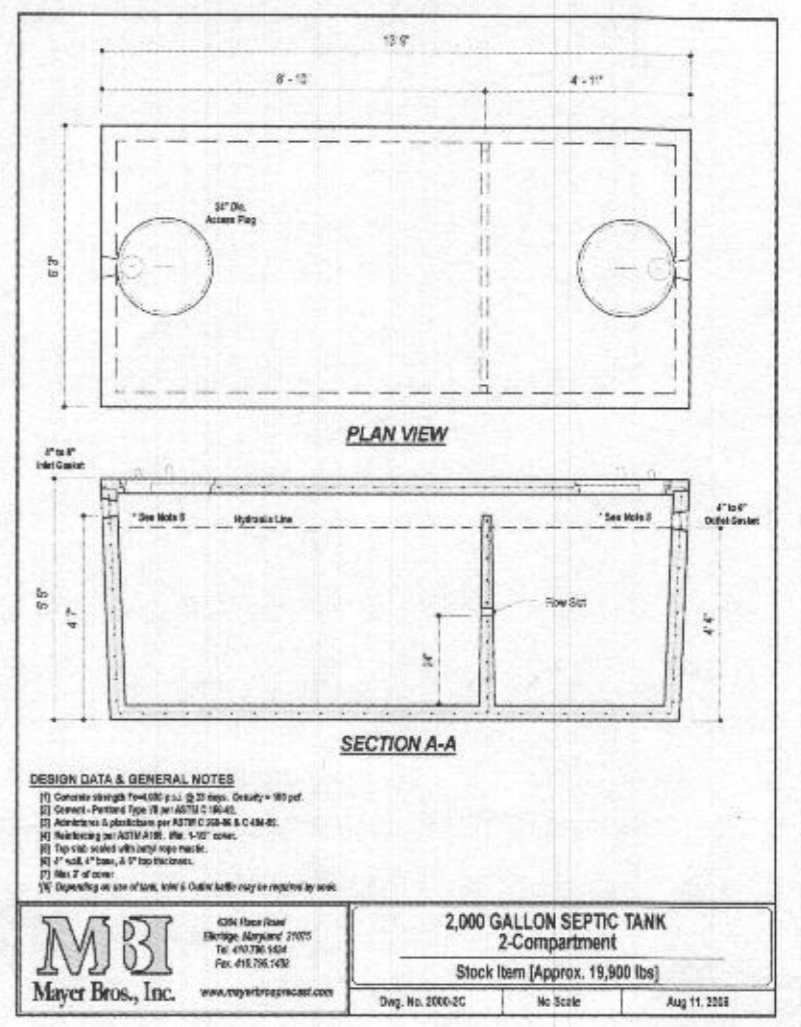
INITIAL SYSTEM		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.5	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.38	
Trench width	3	ft
Effective Area Depth	4.5	ft
Trench Spacing	12	ft
Linear Length of trench Required	96	lf

1ST REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	4.5	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	1500	sf
Sidewall Reduction Credit	0.45	
Trench width	3	ft
Effective Area Depth	3.5	ft
Trench Spacing	10	ft
Linear Length of trench Required	227	lf

2ND REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	0.6	gpd/sf
Effective Area Beginning Depth	4.5	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	1500	sf
Sidewall Reduction Credit	0.45	
Trench width	3	ft
Effective Area Depth	3.5	ft
Trench Spacing	10	ft
Linear Length of trench Required	227	lf

SEPTIC INVERT CHART - Lot 12	
INV @ HOUSE	376.0
GROUND @ HOUSE	372.0
INV IN SEPTIC TANK	361.8
INV OUT SEPTIC TANK	361.5
TOP OF SEPTIC TANK	362.6
GROUND OVER SEPTIC TANK	365.6
INV IN DIST BOX	361.3
INV OUT DIST BOX	361.2
GROUND AT DIST BOX	365.5

TRENCH DESIGN - Lot 12			
INITIAL SYSTEM			
T-1-1	LENGTH	48.1 ft	T-1-2
	GROUND ELEVATION	363.0	GROUND ELEVATION 362.0
	INVERT ELEVATION	361.0	INVERT ELEVATION 360.0
	MAX BOTTOM ELEVATION	355.0	MAX BOTTOM ELEVATION 354.0
1ST REPLACEMENT SYSTEM			
T-2-1	LENGTH	56.9 ft	T-2-2
	GROUND ELEVATION	359.0	GROUND ELEVATION 358.9
	INVERT ELEVATION	357.0	INVERT ELEVATION 356.9
	MAX BOTTOM ELEVATION	351.0	MAX BOTTOM ELEVATION 350.9
T-2-3	LENGTH	56.9 ft	T-2-4
	GROUND ELEVATION	356.4	GROUND ELEVATION 356.2
	INVERT ELEVATION	354.4	INVERT ELEVATION 354.2
	MAX BOTTOM ELEVATION	348.4	MAX BOTTOM ELEVATION 348.2
2ND REPLACEMENT SYSTEM			
T-3-1	LENGTH	56.9 ft	T-3-2
	GROUND ELEVATION	353.3	GROUND ELEVATION 353.3
	INVERT ELEVATION	351.3	INVERT ELEVATION 351.3
	MAX BOTTOM ELEVATION	345.3	MAX BOTTOM ELEVATION 345.3
T-3-3	LENGTH	56.9 ft	T-3-4
	GROUND ELEVATION	350.6	GROUND ELEVATION 347.9
	INVERT ELEVATION	348.6	INVERT ELEVATION 345.9
	MAX BOTTOM ELEVATION	342.6	MAX BOTTOM ELEVATION 339.9



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

AAM-BEI  
2021.08.12 12:58:24 -04'00

*Handwritten note:*  
How to install 2000-gal. septic tank  
to Gravity Distribution  
for 6-Bed room SFD  
R. Bialer 8/30/2021  
Date

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

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TITLE:	ONSITE SEWAGE DISPOSAL PLAN		
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SCALE:	AS SHOWN	DRAWING	2 OF 2