

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: 10/10/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 564021

APPROVAL DATE: 10/31/2018 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 12124 Carroll Mill Court

SUBDIVISION: Woodmark LOT: 63 TAX ID: 03-286746

CONTRACTOR: T & R Plumbing and Heating EMAIL: _____

CONTRACTOR ADDRESS: P.O. Box 57, Lisbon, MD 21765 PHONE: 410-486-7776

PROPERTY OWNER: Justin and Kristen Earp EMAIL: _____

OWNER ADDRESS: 12124 Carroll Mill Court, Ellicott City, MD 21042 PHONE: 410-531-1092

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: MAYER BROTHERS

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

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

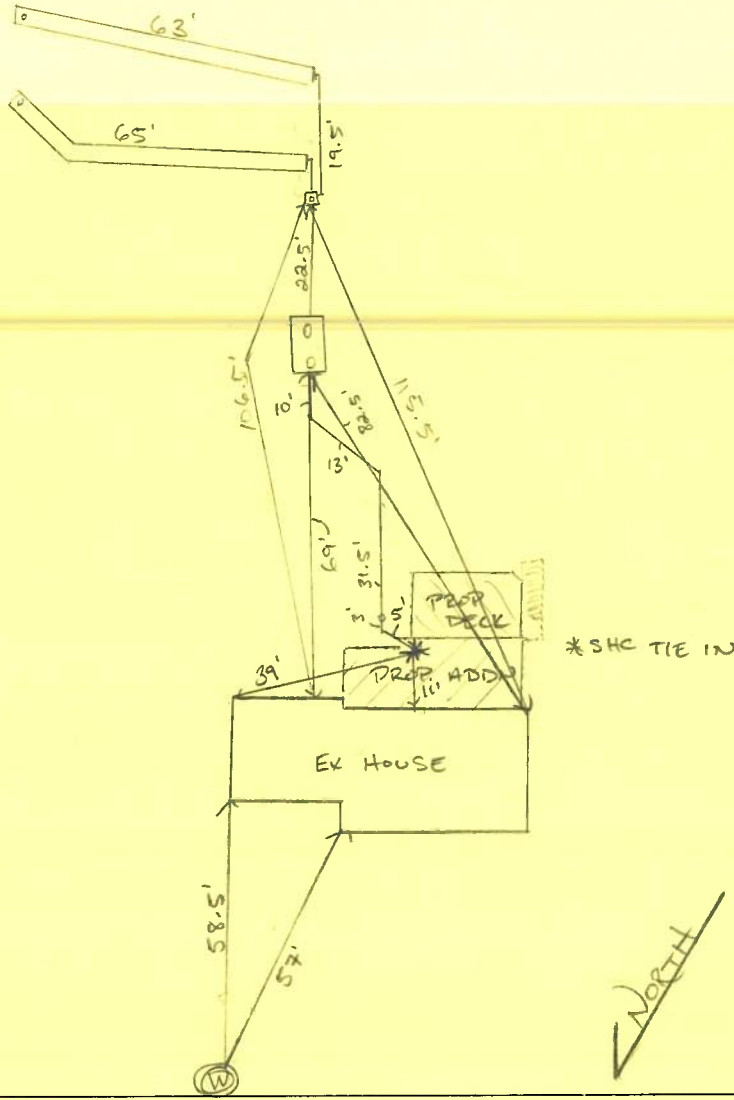
TRENCHES:	LINEAR FEET REQUIRED: <u>128</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Contractor has plan form homeowner. Plans in file are for health <i>IF SL. OVER AB ST., MUST COLLAPSE & FILL W/ STONE ROCK ST. STAKE</i>	

ISSUED BY: Robert Freemon ISSUE DATE: 10/10/18 EXPIRATION DATE: 10/10/19

- 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



ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		128 ft
ABSORPTION AREA		384 ft ² + SIDE WALL
DISTRIBUTION BOX LEVEL		Levelled
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	YES
MANUFACTURER	MAYER RES
CAPACITY	1500 GAL
SEAM LOC	Top (TB)
TANK LID DEPTH	24" - 11"
BAFFLES	YES
BAFFLE FILTER	N/A
MANHOLE LOC	Front/Bar
6" PORT LOC	INLET
WATERTIGHT TEST	
SLOTTED	YES
DATE ON LID	N/A

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:

10/15/2018 LAY OUT - TRENCHES PER PLAN. TANK MOVED DOWN HILL PER OWNERS REQUEST @

INSTALLATION:

10/16/2018 TANK SET. DOWN HILL TANK PLACEMENT OVERDIG EXPOSED EXISTING TRENCH. @ 10/17/2018 TRENCH (UPPER) DUG AND PART OF LOWER TRENCH DUG. STONE DID NOT ARRIVE BY 15:30. SEPTIC TANK SLOT IS NOT TO SPEC. NOTIFIED CONTRACTOR. INFORMED CONTRACTOR OF 4" → 6" INLET BAFFLE. @ 10/18/2018 UPPER TRENCH COMPLETE, LOWER TRENCH DUG. OK TO BACKFILL UPPER TRENCH. @ 10/19/2018 CONTACTED OWNER FOR TANK WAIVER REQUEST PER CONVO W/ D.D. DAVIS. 10/19/18 Inspection made. Tank well slot already cut by Mayer Res contractor. Email sent to M. Davis. Will need something from Mayer Res stating that cut slot out. Need SHC. (KMD)

FINAL INSPECTOR

10/19/18 INSTALLED SHC TIE IN (UNDER PROP ADDN) TO ST. EX ST. COLLAPSED. VERBAL THAT EX DW WAS PUMPED + COLLAPSED. VISUAL ON FILL DIRT. 10/29/2018 RECEIVED TANK MOD. CERTIFICATION. @

DATE OF APPROVAL 10/31/2018



MAYER BROS., INC.
Precast Concrete Products
6264 Race Rd. Elkridge, MD 21075

October 29, 2018

Mr. Robert Freeman
Howard County Health Department

Re: 12124 Carroll Mill Rd.

Mr. Freeman,

This letter is in reference to the septic tank installed at 12124 Carroll Mill Rd on 10/16/18. The tank was a 1500 two compartment Top Tight tank. We have been making these tanks for a watertight project on Kent Island and occasionally have some additional tanks. These tanks have 5000 PSI concrete, Xypex corrosive resistant admixture and are designed for light traffic conditions. The standard opening for these tanks is 12" X 3" which I understand does not meet your current code. The tank was modified to expand the slot to 48" X 2" and that modification will have no structural impact for a non-traffic application.

The increase in PSI over your standard 4000 PSI, the addition of Xypex, the increased Reinforcing and the one piece poured on top make this tank superior over standard tanks.

I will certainly certify that this tank meets or exceeds your current code.

If there are any further questions, please don't hesitate to call me.

Sincerely,

Nancy J. Mayer
President
Mayer Bros., Inc.

PH: 410-796-1434
FX: 410-796-1438

WBE

info@mayerprecast.com
www.mayerprecast.com

Grease Interceptors, HOOT Aerobic Treatment Units, Septic Tanks, Holding Tanks, Bench Barrier, Water Meter Vaults,
Sectional Valve Units, Top Slabs, Curb Heads, Curb Bumpers, Custom Precast Products

Wolf, Kevin

From: Justin Earp <justin.earp@gmail.com>
Sent: Monday, October 22, 2018 1:02 PM
To: Wolf, Kevin; Mark Redman; Kirsten Earp
Cc: Timothy Rollman
Subject: Re: FW: 12124 Carroll Mill Court

Hi Kevin,

I do see that the tank in place was modified. I am attaching a picture that I just took for your reference. What you are telling me is that it was not modified by the manufacturer? I am okay with either route you laid out, provided that if it stays in place it is certified by the manufacturer.

Thank you for keeping me informed.

Best,
Justin

On Mon, Oct 22, 2018 at 12:10 PM Wolf, Kevin <KWolf@howardcountymd.gov> wrote:

Justin,

I have contacted Mayer Bro's to get them to supply us with a letter certifying the tank modifications they had done. Sharon had replied and explained that they did not cut the tank slot. She did however explain that your contractor was going to pull the tank and install another tank from another manufacturer. We have not heard anything from the contractor yet so I am not sure who or what is going on at this point.

From here, if you decide to keep the tank as is, we will need to have either Mayer Bro's certify the modifications or a structural engineer. Obviously, if the tank gets pulled and replaced with another that meets our code, none of the above would apply.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Bureau of Environmental Health

8930 Stanford Blvd.

Columbia, MD 21045

(o) 410-313-2645

(f) 410-313-2648

kwolf@howardcountymd.gov

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From: Sharon King [mailto:sharon@mayerprecast.com]
Sent: Monday, October 22, 2018 11:31 AM
To: Wolf, Kevin
Cc: Nancy Mayer
Subject: RE: 12124 Carroll Mill Court

Good Morning Kevin,

I believe you have been misinformed. No one from Mayer Bros modified the slot in the tank. It is my understanding, the first inspector told the contractor he could modify it to make it meet code.

Now that this tank has been modified, we can't sell it to anyone else.

What are we going to do for this homeowner? The homeowner wants a tank that meets code.

Respectfully,

Sharon King

Mayer Bros., Inc.

410-796-1434

Sharon@mayerprecast.com

From: Wolf, Kevin [<mailto:KWolf@howardcountymd.gov>]

Sent: Monday, October 22, 2018 11:08 AM

To: Sharon King

Cc: Nancy Mayer

Subject: 12124 Carroll Mill Court

Sharon,

Please provide us with something in writing stating that Mayer Bro's came out to the property and modified the slot in tank. The letter must also certify the structural integrity of the tank as well.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Bureau of Environmental Health

8930 Stanford Blvd.

Columbia, MD 21045

(o) 410-313-2645

kwolf@howardcountymd.gov

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From: Freemon, Robert
Sent: Thursday, October 18, 2018 9:28 AM
To: sharon@mayerprecast.com
Cc: Williams, Jeffrey; Wolf, Kevin
Subject: HCHD Septic Tank Specs

Hi Sharon,

Nancy spoke with me about the septic tank issue on Carroll Mill Rd. I have attached the Howard County Code for your reference. The section of code regarding the interior wall of the septic tank is on Page 473, Sec. 3.810 (d) (11). This section of code has been around since 2007-2008 and it matches word for word Anne Arundel Counties Code. Septic tanks that do not meet these specs will not be allowed in Howard County. I have checked the approved septic plan and it shows the center wall having a slot 2" X 4'. If you have any other questions don't hesitate to ask.

Robert "Spencer" Freemon

Howard County Health Department

Freemon, Robert

From: Freemon, Robert
Sent: Thursday, October 18, 2018 9:28 AM
To: 'sharon@mayerprecast.com'
Cc: Williams, Jeffrey; Wolf, Kevin
Subject: HCHD Septic Tank Specs
Attachments: HC CODE.pdf

Hi Sharon,

Nancy spoke with me about the septic tank issue on Carroll Mill Rd. I have attached the Howard County Code for your reference. The section of code regarding the interior wall of the septic tank is on Page 473, Sec. 3.810 (d) (11). This section of code has been around since 2007-2008 and it matches word for word Anne Arundel Counties Code. Septic tanks that do not meet these specs will not be allowed in Howard County. I have checked the approved septic plan and it shows the center wall having a slot 2" X 4'. If you have any other questions don't hesitate to ask.

Robert "Spencer" Freemon
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
Bureau of Environmental Health
Well and Septic Program
Phone: 410-313-6357
Email: rfreemon@howardcountymd.gov
Website: <https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic>

N/F
WILLIAM & SAMANTHA YOUNG
12123 CARROLL MILL CT.
TM 23, GRID 7, PARCEL 69

N/F
BRIAN & MELISSA ELLISON
12202 CARROLL MILL RD.
TM 23, GRID 7, PARCEL 69

N/F
JACK & BARBARA VANDERMEER
12123 CARROLL MILL CT.
TM 23, GRID 7, PARCEL 69

N/F
CARL & EACHEL JEAN BAPTISTE
12120 CARROLL MILL CT.
TM 23, GRID 7, PARCEL 69

N/F
ANTHONY THOMAS & KINA LIMBASIA
12177 ETCHELSON RD.
TM 23, GRID 7, PARCEL 109

GENERAL NOTES

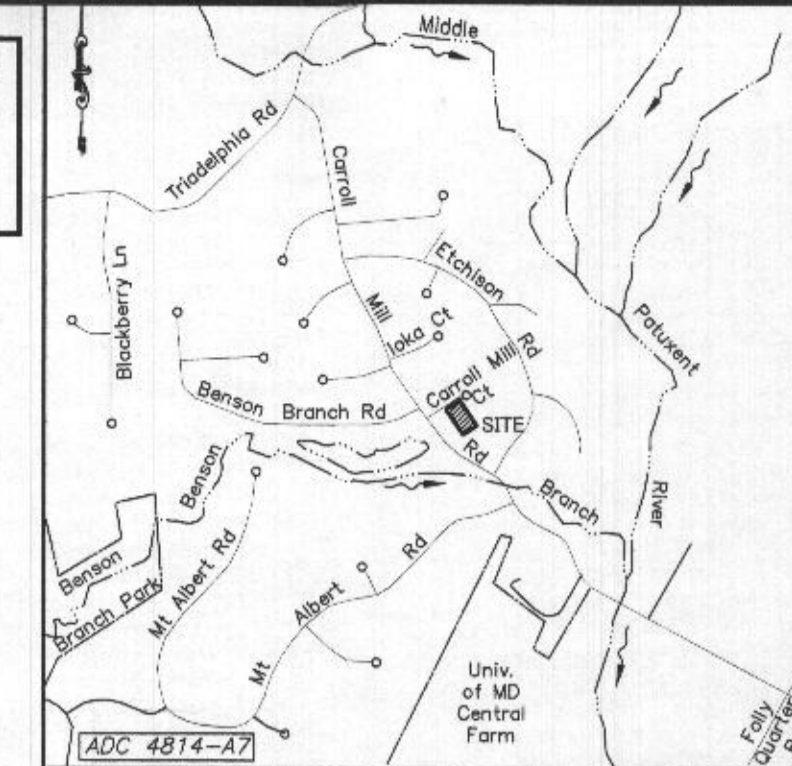
- All construction shall meet the latest edition of the Howard County standards and specifications, or as shown on these plans. The contractor shall consult the engineer should there be discrepancies.
- The existing utility locations are approximate (e.g., SHC). The contractor shall test pit all known existing utilities to verify, size, shape, location, and type prior to performing construction. Any utility damaged due to construction must be repaired immediately at the contractor's expense.
- Should the contractor discover discrepancies between the plans and field conditions, the engineer is to be notified immediately to resolve the situation. If the contractor makes field corrections or adjustments without notifying the engineer, then the contractor assumes all responsibility for those changes.
- The contractor shall notify Miss Utility 1-800-257-7777 and the Howard County Department of Inspection Licenses & Permits five (5) working days before beginning construction.
- Civil Design Services, LC is not responsible for the contractor's utilization of men, materials, equipment, or safety measures in the performance of any work for this project. The contractor assumes all responsibility for performing the work correctly and in conformance with code/specification requirements.
- The property boundary and topo survey was prepared by Shanberger & Lane (Elliott City) in June, 2018, and is based on the NAVD '88. Topography shown outside of the subject property was also supplied by Shanberger & Lane and is from 2013 Howard County LIDAR topo. CDS is not responsible for the boundary and topographic information.
- The SDA shown on this plan is based on the Percolation Certification Plan prepared by Shanberger & Lane (Elliott City) and approved by the HCHD on 7/18/18.
- Property area area is 1.26± Ac.
- Any change to the locations or depths to any septic system components must be approved by the engineer and the Howard County Health Department prior to installation. A revised OSDS plan may be required.
- The maximum earth cover over the septic tank is 3 feet. Greater earth cover will require a "heavy load" bearing tank.
- Use a septic tank from Babylon Vault Co. (New Windsor, MD), or an approved equal.
- The existing well has been field located and is accurately shown.
- All wells and septic systems located within 100' of the property boundary and 200' down gradient of any well sand /or septic systems have been shown as indicated on the percolation certification plan prepared by Shanberger & Lane.
- The second reserve system has a 3' effective depth and begins at a 5 ft depth.
- The contractor shall take precautions to prevent sediment on downstream property. Measures may include placing excavated material on high side of trench and silt fence.
- All Howard County Health Department setbacks shall be maintained. The closest edge of the septic tank to the new addition and deck shall be per the plan (23' and 9', respectively).
- The existing SHC invert at the existing septic tank connection shall be field-located/verified prior to construction. Should the sewer service need to be revised (lowered), the contractor shall notify the engineer in writing with the proposed changes. The invert out at the house addition can be lowered by changing the elevation and location of the upper 45° vertical bend (VB) and maintaining a 2% minimum SHC slope. This may be necessary to service the proposed basement plumbing fixtures.
- The D-box shall have a splash block.
- Maintain 2% minimum sewer pipe slope.

EARP PROPERTY SDA Trench Data				
Trench ID	Length	Ground Elevation	4" Perif. Pipe Invert	Trench Invert (max depth)
I-A	66'	388.5	388.5	381.5
I-B	66'	388.5	388.5	380.5
R1-A	66'	388.4	388.4	381.4
R1-B	66'	388.4	388.4	380.4

HO. CO. #22FM2 ELEV. 402.408
Stamped (brass or aluminum) disc set on top of a concrete column often 1" or 2" below grade.

SOILS TABLE			
SYMBOL	NAME	HSG	Kw
GbB	Gladstone loam 3-8% slopes	A	0.20

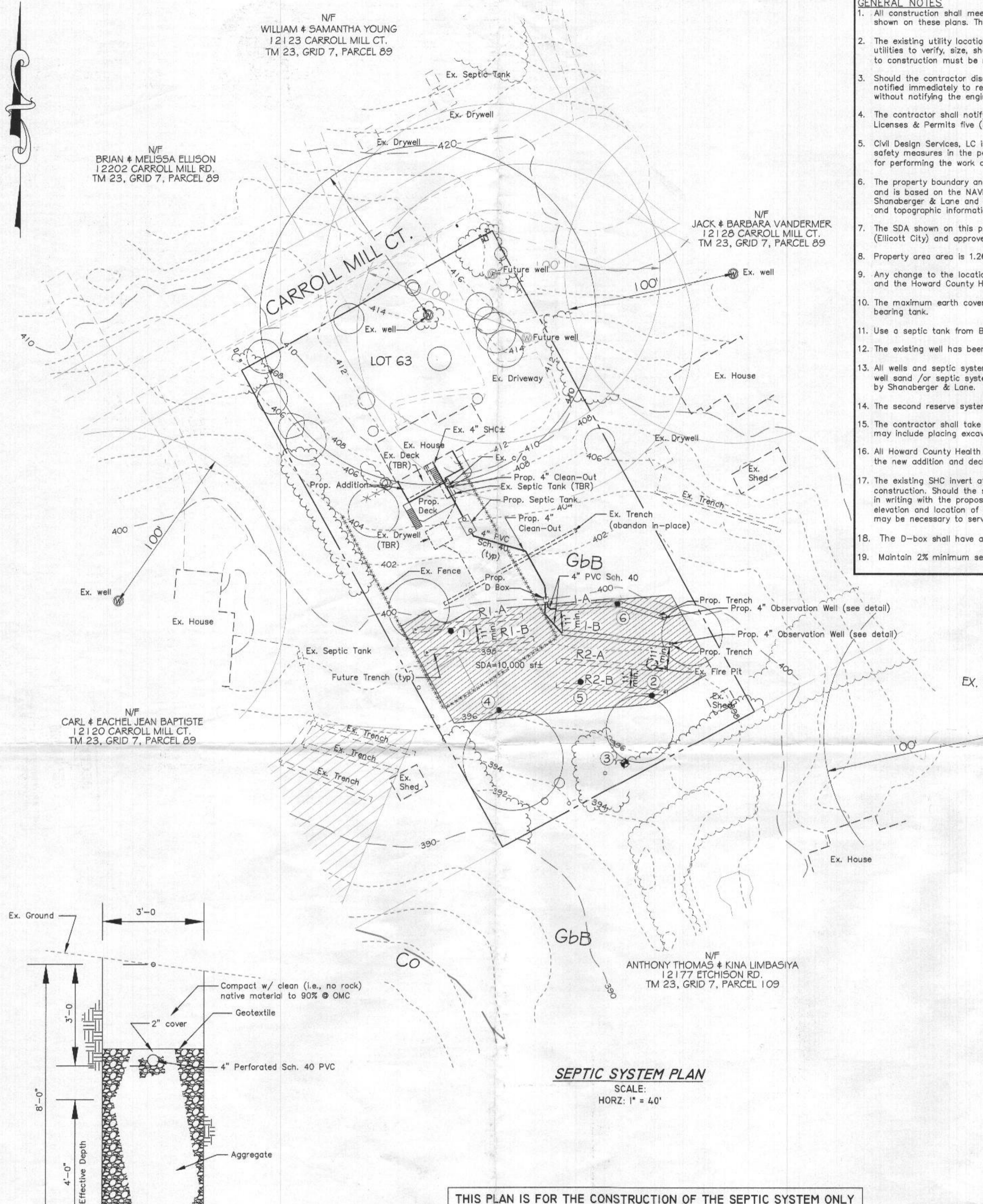
Source: Web Soil Survey (August, 2018)



VICINITY MAP
1" = 2,000'

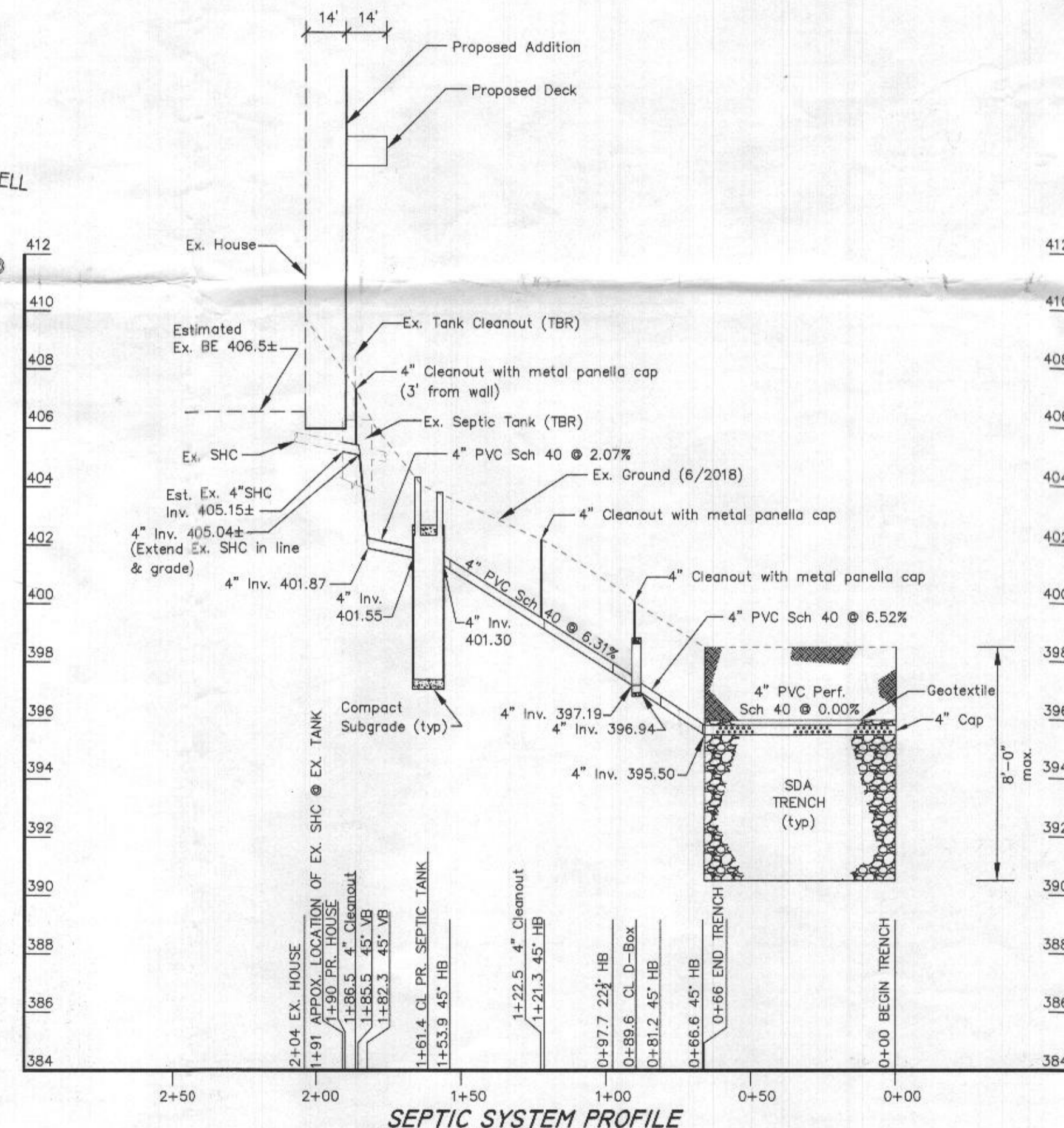
INITIAL SYSTEM	
Number of Bedrooms	5
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	4 ft
Trench Maximum Depth	8 ft
Design Flow	750
Drainage Field Area	937.5
Sidewall Reduction Credit	41.67%
Trench Width	3 ft
Effective Area Depth	4 ft
Required Length Each (2 Trenches)	66 ft

FIRST RESERVE (R1) SYSTEM	
Number of Bedrooms	5
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	4 ft
Trench Maximum Depth	8 ft
Design Flow	750
Drainage Field Area	937.5
Sidewall Reduction Credit	41.67%
Trench Width	3 ft
Effective Area Depth	4 ft
Required Length Each (2 Trenches)	66 ft

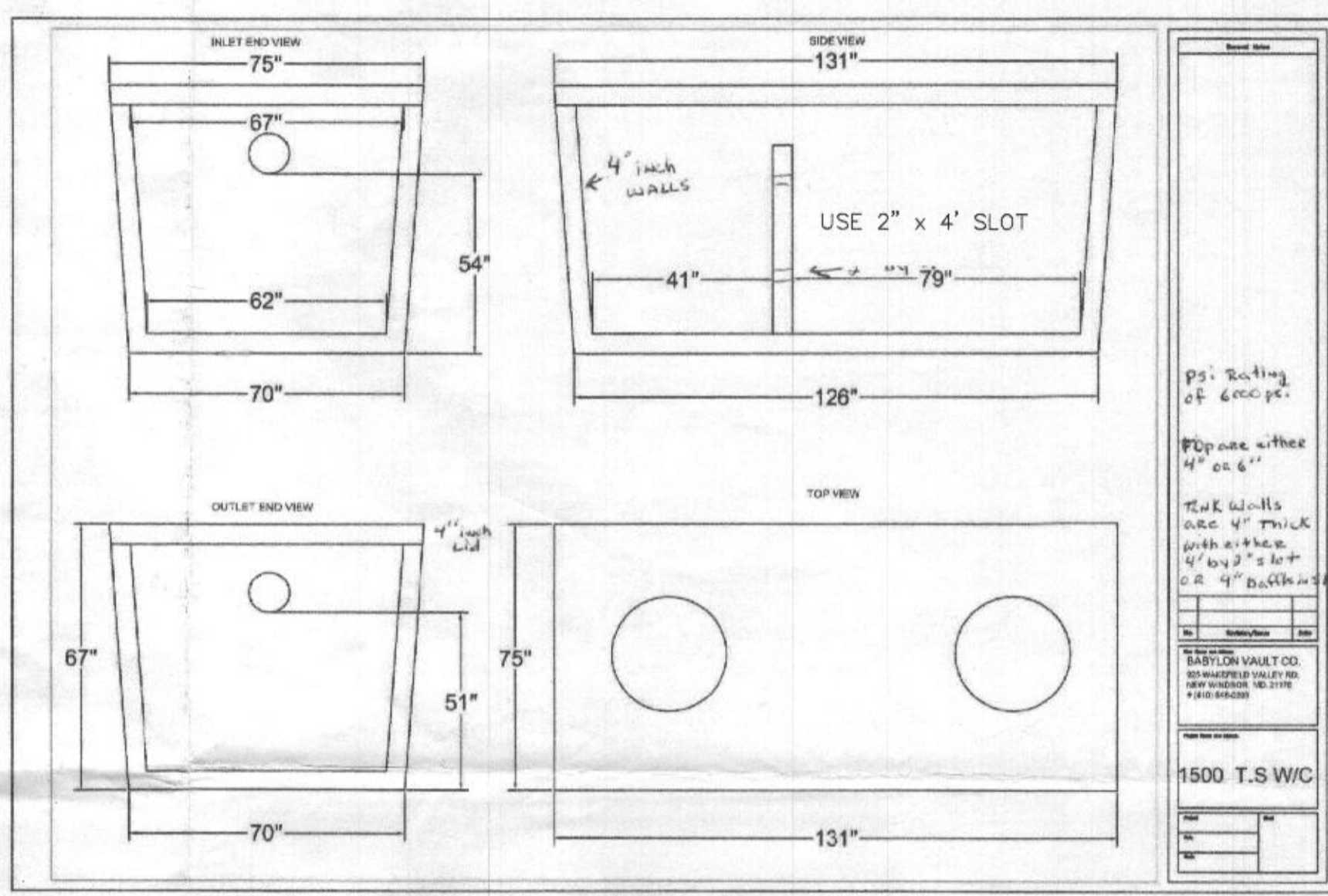


SEPTIC SYSTEM PLAN
SCALE:
HORZ: 1" = 40'

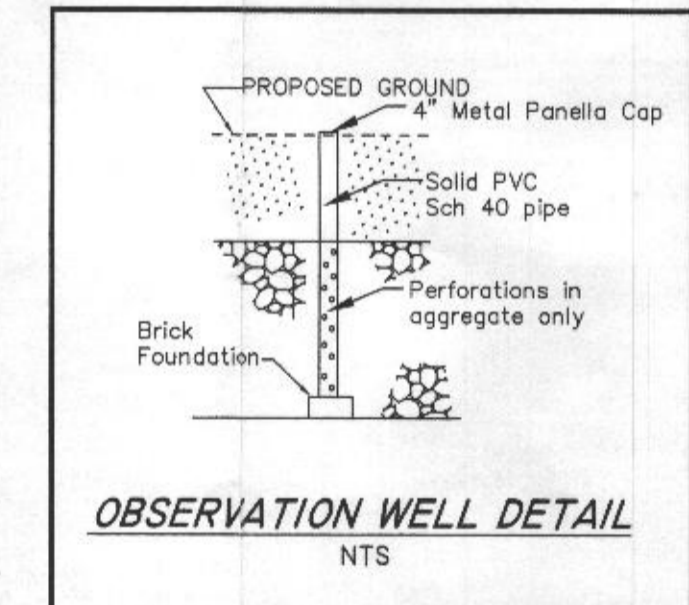
THIS PLAN IS FOR THE CONSTRUCTION OF THE SEPTIC SYSTEM ONLY



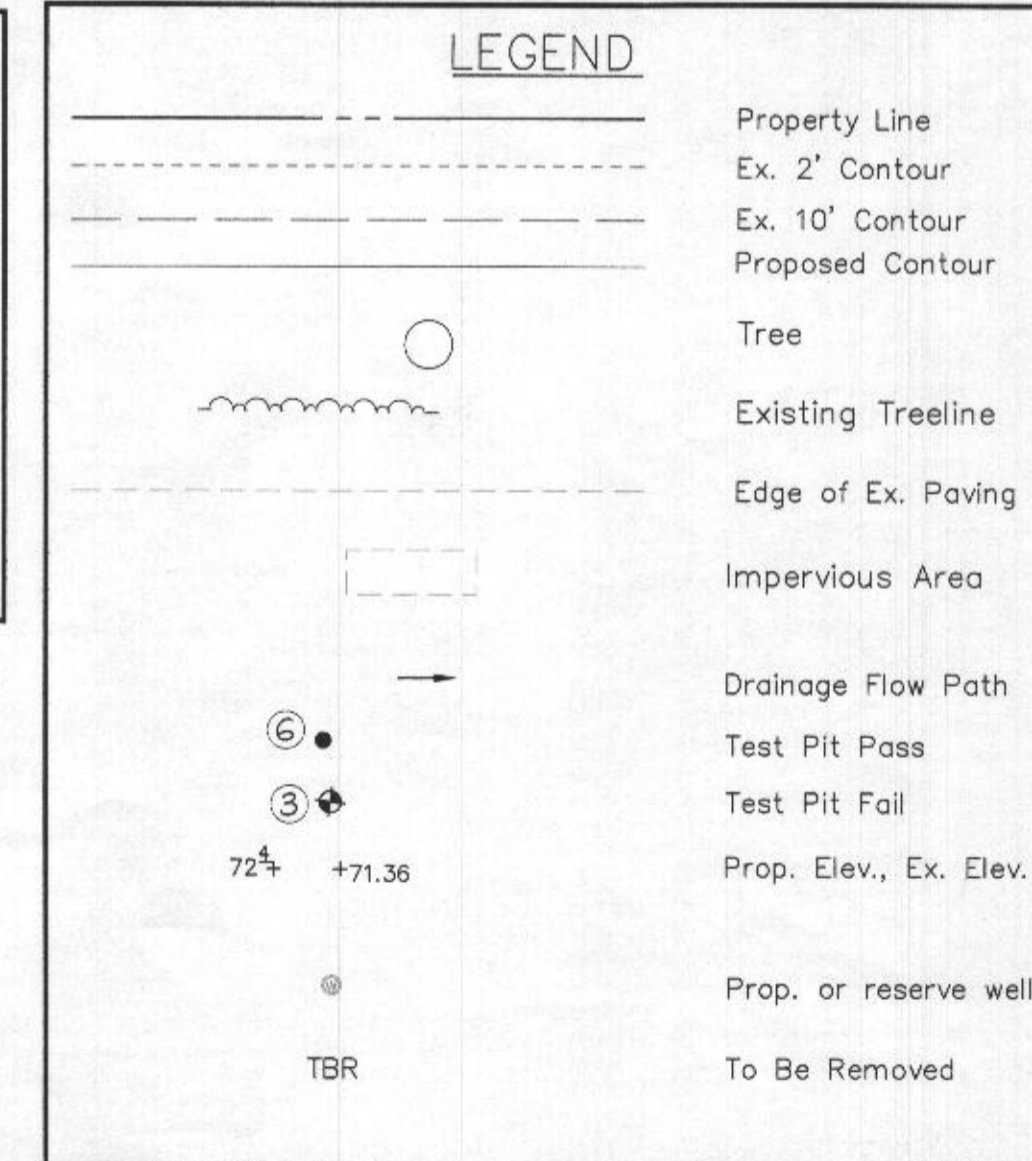
SEPTIC SYSTEM PROFILE
SCALE:
HORZ: 1" = 40'
VERT: 1" = 4'



SEPTIC TANK DETAIL
NTS



OBSERVATION WELL DETAIL
NTS



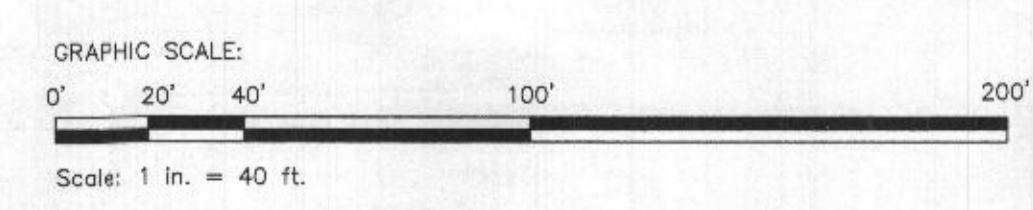
CIVIL DESIGN SERVICES, LC
6123 Holly Ridge Court, Columbia, Maryland 21044
240.755.0380 phone/fax
civildesign@comcast.net



I hereby certify that I prepared this plan and the seal signifies that I am a duly licensed professional engineer under the laws of the State of MD, License No. 15,838 w/expiration December 17, 2019.

Andrew A. Porter
September 4, 2018
ANDREW A. PORTER, P.E. DATE

Approved Septic System Plan
Howard County Health Department
Signature: *Paul J. ...* 9/10/2018
Date



APPROVED PRIVATE ON-SITE DISPOSAL SYSTEM PLAN
HOWARD COUNTY HEALTH DEPARTMENT

Date					
PROJECT	Earp Property (L12394 / F.00023)		SECTION	3	
LOT NO.	83				
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
L15/F.40	E	RR-DEO	23	3rd	603004

On-Site Sewage Disposal System (OSDS) Design Plan

EARP PROPERTY
LOT 63
12124 CARROLL MILL COURT
ELLIOTT CITY, MARYLAND 21042

TAX MAP NO: 0023 PARCEL: 0089 GRID NO.: 0007
Tax ID 14-03-286746
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

September 4, 2018

SHT 1 OF 1