

Mitchell Environmental, P.A.

SEPTIC SYSTEM DESIGN

for

MAGNOLIA ACRES SUBDIVISION- LOT 4
Fuquay-Varina, Harnett County, North Carolina

Submitted to:

Harnett County Health Department
307 Cornelius Harnett Blvd.
Lillington, NC 27546

Prepared for:

HHHunt Homes
1 Fenton Main Street
Suite 280
Cary, North Carolina 27511

Prepared by:

Adam Aycock, EI

DATE: June 10, 2025

PROJECT NO.: 1823



Harnett County GIS

PID: 050633 0112 26

PIN: 0633-05-8006.000

Account Number: 1500061907

Owner: HHHUNT LOT ACQUISITIONS LLC

Mailing Address: 11237 NUCKOLS RD GLEN ALLEN, VA 23059-5502

Physical Address: MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526 ac

Description: LOT#4 MAGNOLIA ACRES S/D MAP#2023-591

Surveyed/Deeded Acreage: 1.38

Calculated Acreage: 1.38

Deed Date:

Deed Book/Page: 4223 - 0821

Plat(Survey) Book/Page: 2024 - 27

Last Sale: 2024 - 2

Sale Price: \$3349500

Qualified Code: A

Vacant or Improved: V

Transfer of Split: T

Actual Year Built:

Heated Area : SqFt

Building Count : 0

Building Value: \$0

Parcel Outbuilding Value: \$0

Parcel Land Value: 30180

Market Value: \$30180

Deferred Value: \$0

Total Assessed Value: \$30180

Zoning: RA-30 - 1.38 acres (100.0%)

Zoning Jurisdiction: Harnett County

Wetlands: No

FEMA Flood: Minimal Flood Risk

Within 1mi of Agriculture District: Yes

Elementary School: Northwest Harnett Elementary

Middle School: Harnett Central Middle

High School: Harnett Central High

Fire Department: Northwest Harnett

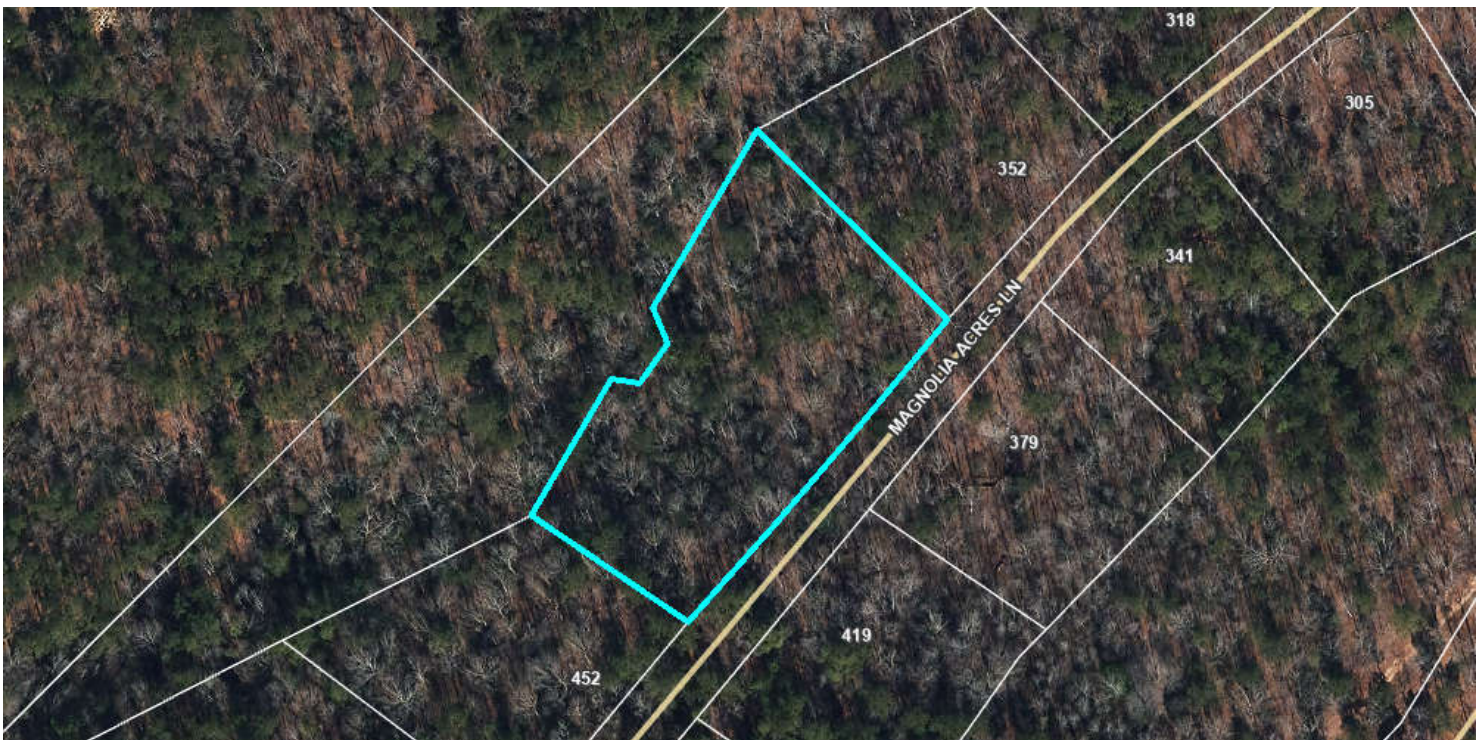
EMS Department: Medic 14

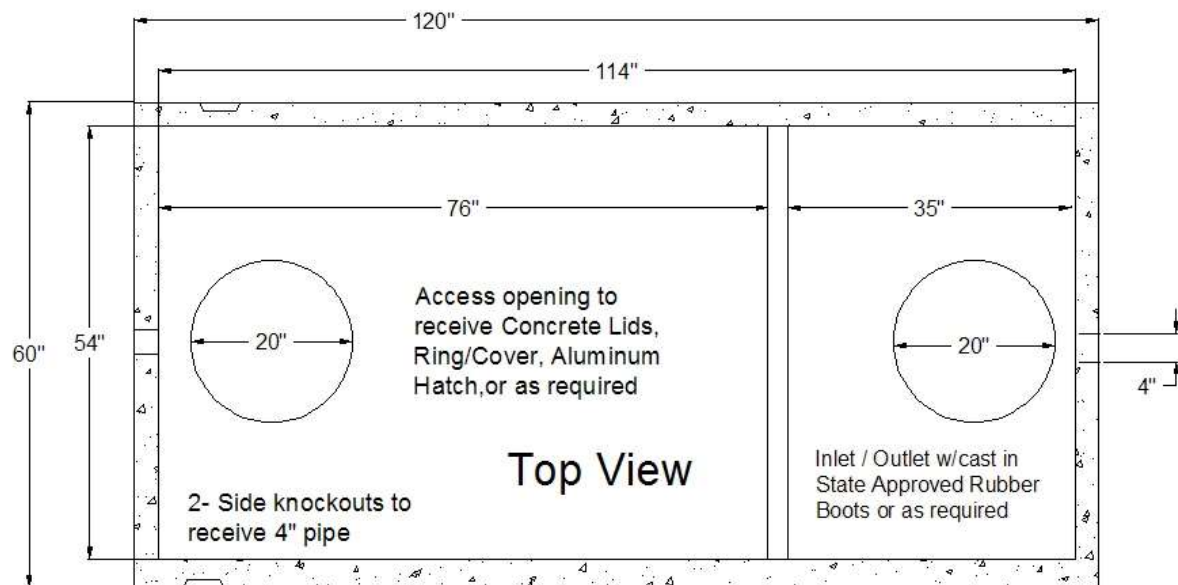
Law Enforcement: Harnett County Sheriff

Voter Precinct: Northwest Harnett

County Commissioner : Duncan Edward Jaggers

School Board Member: John Hairr





STB - 345 - Top Seam

Approval Date: 12 - 09 - 99

Liquid Capacity 1007 Gallons

Non Traffic Rated

Reinforcing Schedule: # 3 Grade 60 Rebar

4500 PSI Concrete w/ State Approved Structural Fiber

Est. Weight: 8,200 lbs.

Manufactured By:

GARNERS
Septic Tanks, Inc.

Eddie Garner, President

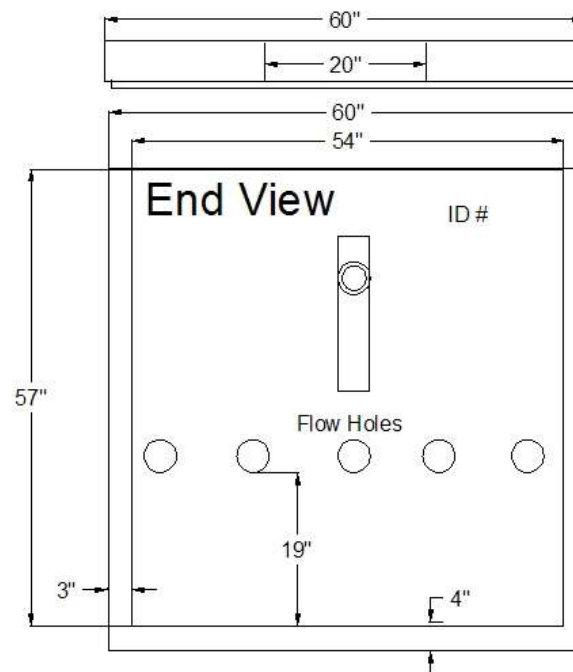
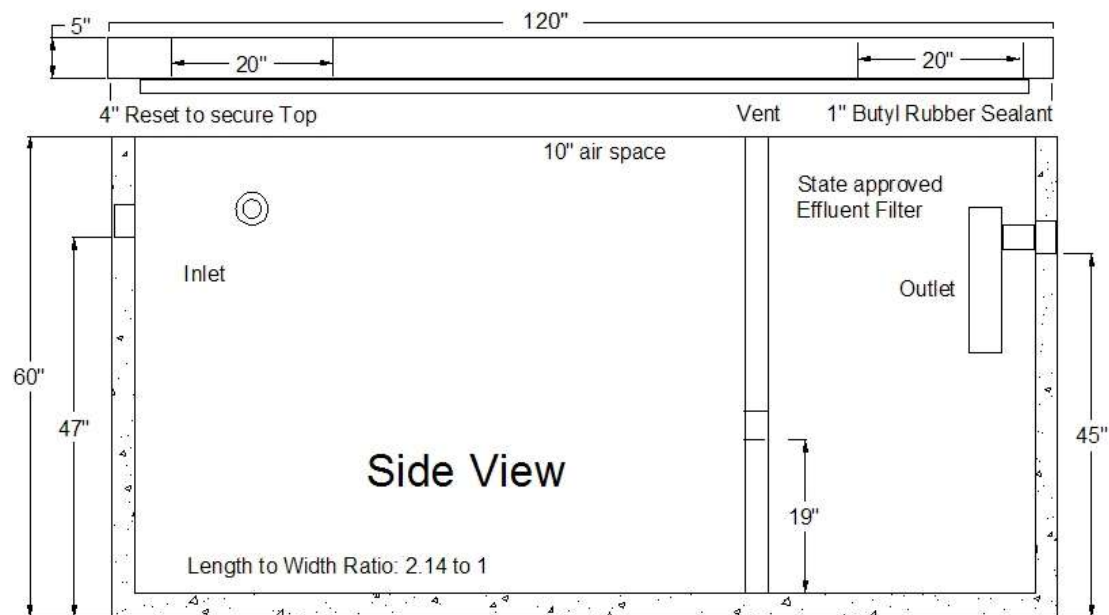
919-718-5181

121 Stanton Hill Road

Carthage, NC 28327

Fax 919-775-2229

Eddie@garnersseptic tanks.com



PL-68 Filter and Tee

PL-68 is much more than just an effluent filter. The housing can also be used as an inlet baffle (tee) or an outlet baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the tee and to keep the solids in the tank.

Features:

- Offers 68 linear feet of 1/16" filter slots, which significantly extends time between cleaning.
- Accepts 3/4" PVC handle.
- Locks in any 360° position when used with PL-68 Tee.
- PL-68 Housing can be used as an inlet or outlet tee.
- Gasket prevents bypass.

PL-68 Installation:

Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

1. Locate the outlet of the septic tank.
2. Remove the tank cover and pump tank if necessary.
3. Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
4. Insert the PL-68 filter into tee.
5. Replace and secure the septic tank cover.

PL-68 Maintenance:

The PL-68 Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

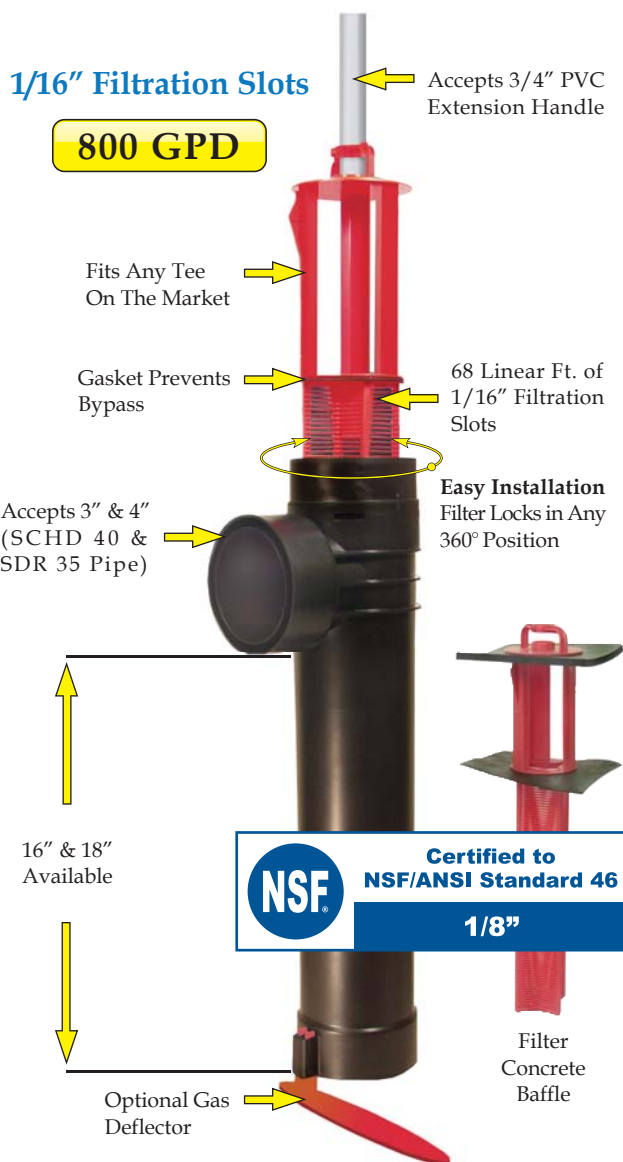
1. Do not use plumbing when filter is removed.
2. Pull PL-68 out of the tee.
3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
4. Insert filter back into tee/housing.

Related Products:

PL-68 Filter Concrete Baffle
Extend & LokTM



Extend & LokTM
Easily installs
into existing tanks.



Spacer Bushing
4" SCHD 40
to SDR 35



Spacer Bushing
4" SCHD 40
to 110mm Pipe



2" Extender



EZflow by Infiltrator is an environmentally friendly replacement to traditional stone and pipe drainfields using an engineered geosynthetic aggregate modular design. The EZflow system is designed to improve infiltration performance by eliminating the fines associated with crushed stone, and reducing compaction and embedment associated with stone. Preassembled units include a 3" or 4" perforated pipe surrounded by aggregate and held in place with a durable high-strength netting. This product comes in easy-to-contour 5' and 10' lengths and in diameters of 7, 8, 9, 10, 12, 13, or 14 inches.

Lightweight expanded polystyrene

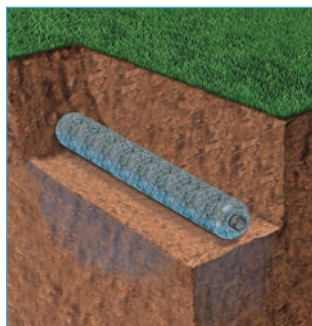
construction offers structural integrity and resists compaction. Engineered flow-channels increase void space creating improved water flow and greater storage.



Compared with stone and pipe, benefits include:

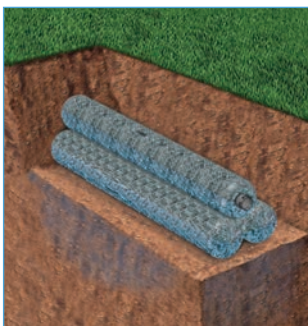
- Always clean and free of fines
- Bundles are quick to install, saving costs on heavy machinery and labor
- Modular construction allows configurations to match trench dimensions for most system shapes and sizes
- Engineered for optimal storage and absorption efficiencies
- Ability to contour along sloped sites and around trees or landscaping
- Lightweight system is perfect for repairs and tight job sites
- Easily hand-carried into position reducing time and labor
- 5' or 10' lengths with simple snap, internal couplers
- Easier cleanup at the job site with the elimination of stone
- Manufactured from recycled materials rather than a mined natural resource
- A wide variety of diameters and configurations to meet any installation professional's needs
- Approved in many jurisdictions with an increased efficiency rating, reducing drainfield size
- Backed by the leader in the onsite wastewater industry

Bundle System Configurations: Available in 7", 8", 9", 10", 12", 13" and 14" diameter bundles.



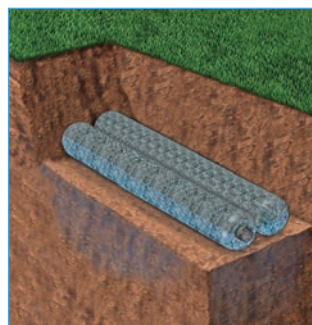
Single Bundle

0701P-GEO 1201P-GEO
0801P-GEO 1401P-GEO
1201P-GEO 1801P-GEO
1001P-GEO



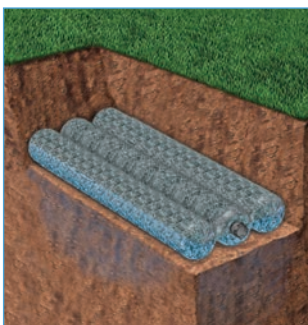
Triangular Bundle

1003T-GEO 1303T-GEO
1203T-GEO 1403T-GEO

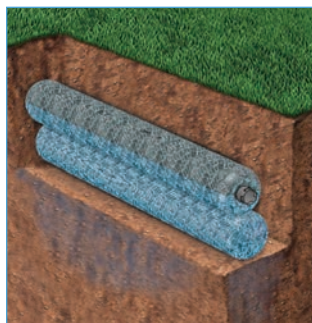


Horizontal Bundles

0705H-GEO 1303H-GEO
0904H-GEO 1202H-GEO
1002H-GEO 1203H-GEO

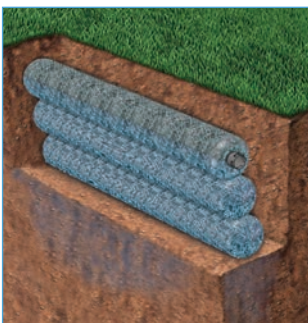


1206H-GEO 1402H-GEO
1303H-GEO 1802H-GEO



Vertical Bundles

1002V-GEO 1006V-GEO 1203V-GEO 1206V-GEO
1003V-GEO 1202V-GEO 1204V-GEO 1402V-GEO
1004V-GEO



Notes:

1. Other systems include 10" and 12" bed systems. Bed size will dictate the number of bundles.
2. System dimensions are dependent upon bundle diameter and configuration.
3. LLP is for "Low Pressure Pipe" in which a pressurized distribution pipe is field installed within the corrugated pipe.
4. Internal pipe and couplings meet the requirements of ASTM F405.
5. Bundles are also available without geotextile between the netting and synthetic aggregate.

INFILTRATOR WATER TECHNOLOGIES STANDARD LIMITED WARRANTY

(a) The structural integrity of each EZflow by Infiltrator expanded polystyrene drainfield system and other accessories manufactured by EZflow by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by EZflow by Infiltrator to be covered by this Limited Warranty. EZflow by Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This Limited Warranty shall be void if any part of the EZflow system is manufactured by anyone other than EZflow by Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.



4 Business Park Road
P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • Fax 860-577-7001
1-800-221-4436
www.infiltratorwater.com

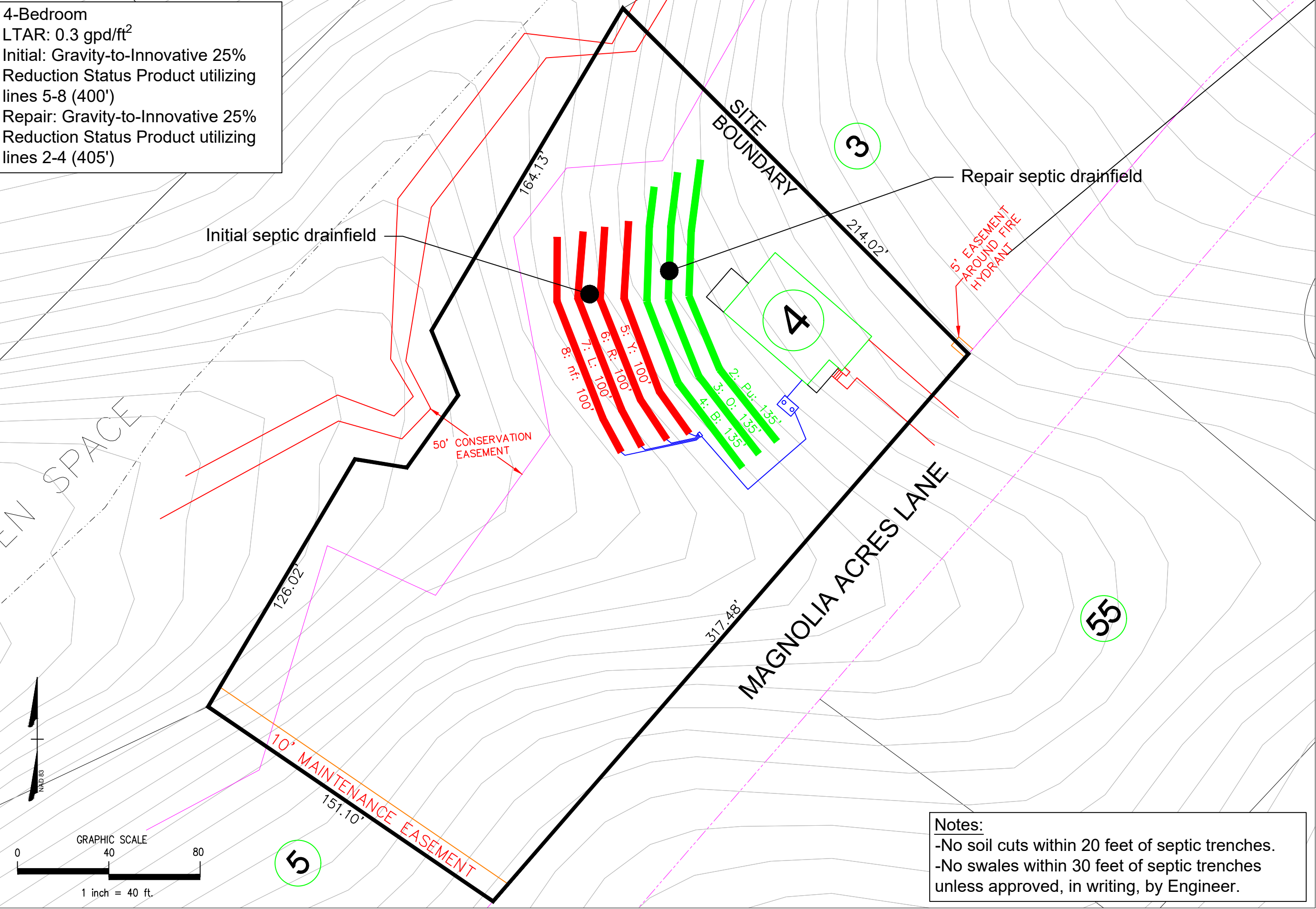
U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies. PolyLok is a trademark of PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.

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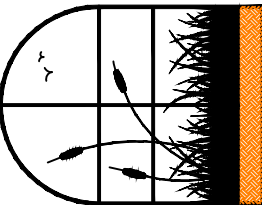
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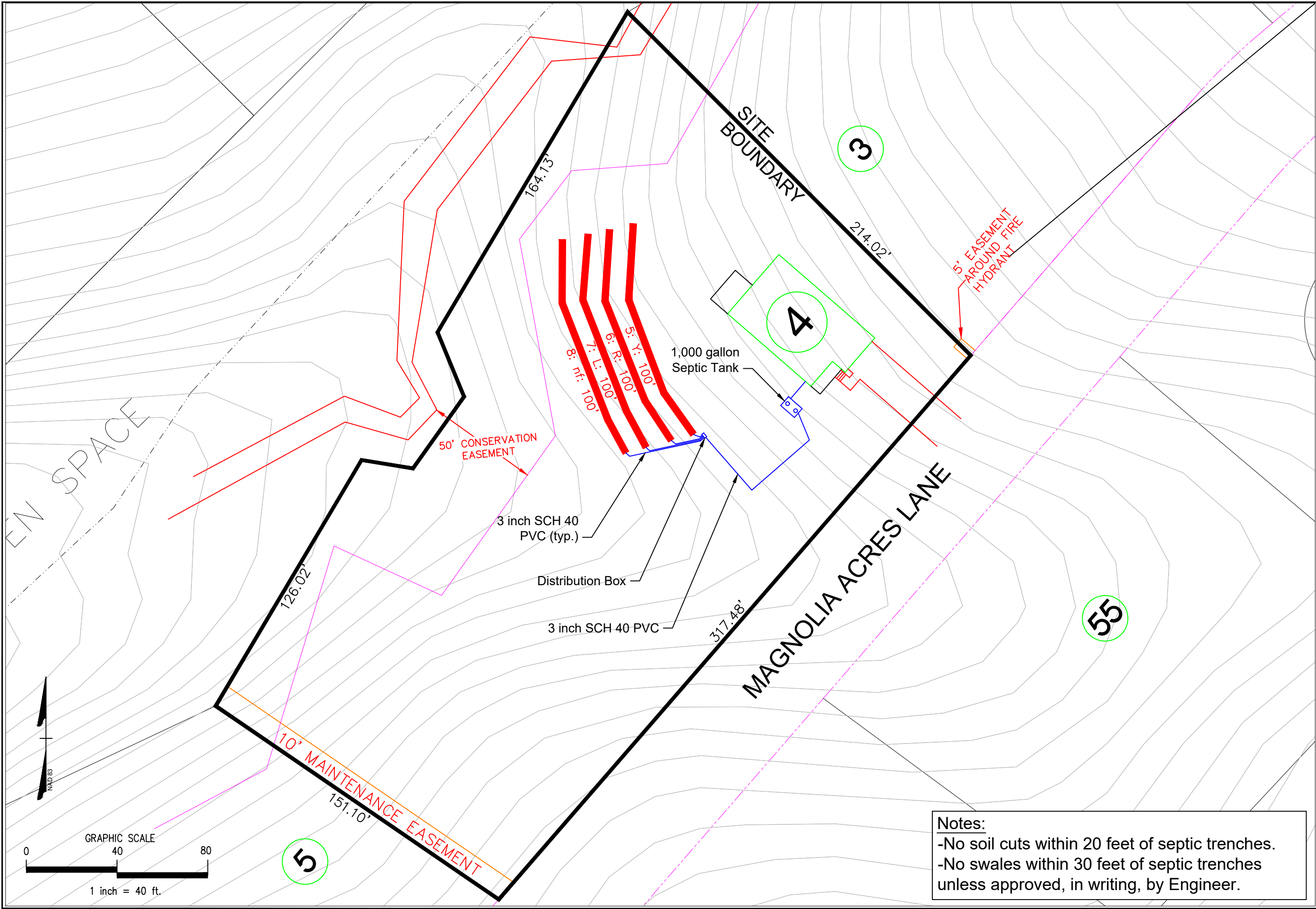
Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

4-Bedroom
LTAR: 0.3 gpd/ft²
Initial: Gravity-to-Innovative 25%
Reduction Status Product utilizing
lines 5-8 (400')
Repair: Gravity-to-Innovative 25%
Reduction Status Product utilizing
lines 2-4 (405')



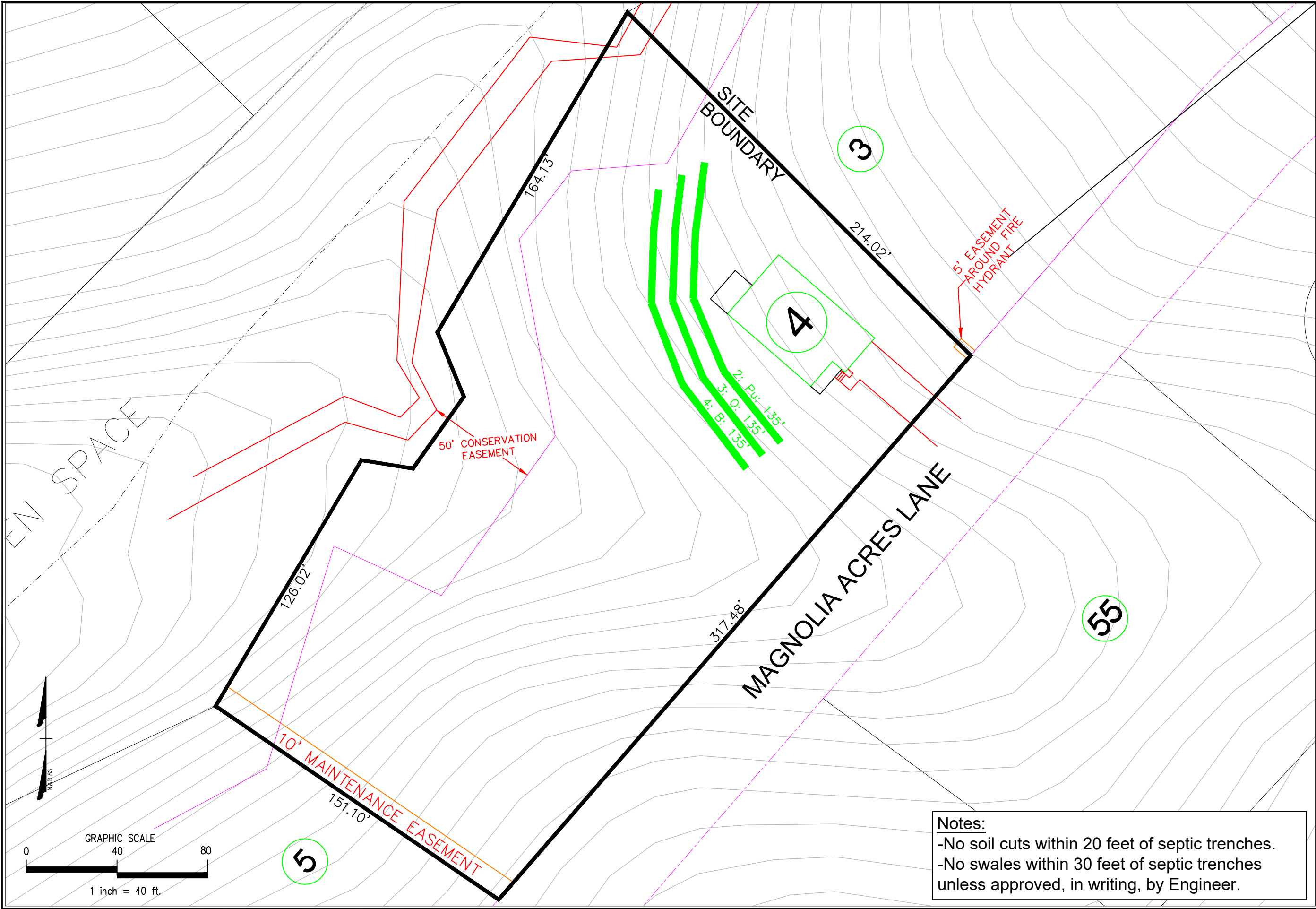
Notes:
-No soil cuts within 20 feet of septic trenches.
-No swales within 30 feet of septic trenches
unless approved, in writing, by Engineer.

	MITCHELL ENVIRONMENTAL, PA C-2917		PREPARED FOR : HHunt Homes 1 Fenton Main Street Suite 280 Cory, NC 27511		REVISION NO. Original Submittal		DATE June 10, 2025		SHEET NUMBER 1 of 5	
	1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526		DATE : June 10, 2025 DESIGNER CONTACT: ADAM AYCOCK, EI DRAWN BY: ADAM AYCOCK, EI		Revision 1 Revision 2 Revision 3 Master Set	Revision 1 Revision 2 Revision 3 Master Set	Revision 1 Revision 2 Revision 3 Master Set	Revision 1 Revision 2 Revision 3 Master Set	Magnolia Acres Lot 4 Overall Septic	




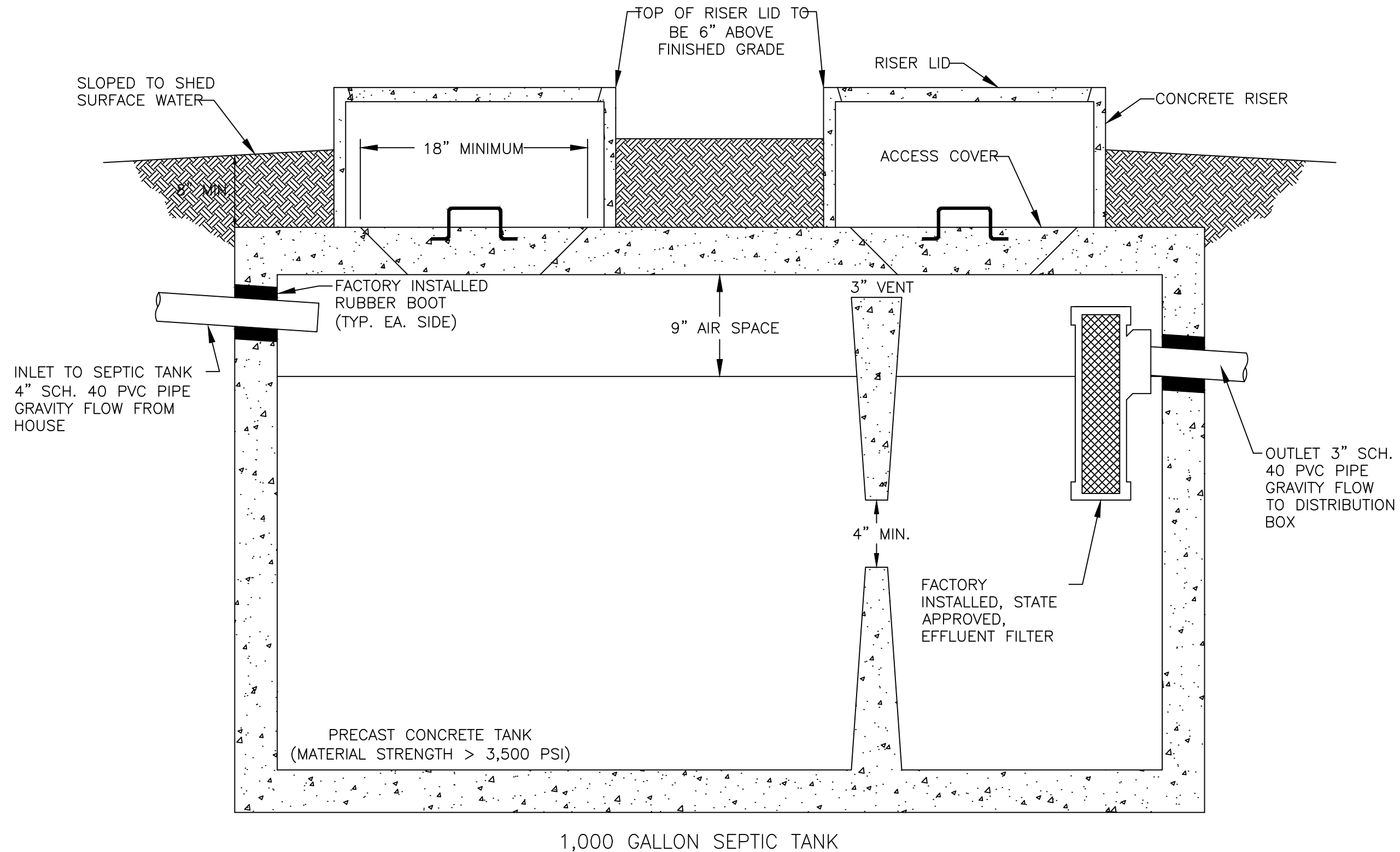
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	MITCHELL ENVIRONMENTAL, PA C-2911			HHunt Homes 1 Fenton Main Street Suite 280 Cory, NC 27511		REVISION NO.	DATE	SHEET NUMBER 2 of 5 Magnolia Acres Lot 4 Initial Nittrification Field
	1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526			DATE : June 10, 2025		Original Submittal	June 10, 2025	
				DESIGNER CONTACT: ADAM AYCOCK, EI		Revision 1	-----	
				DRAWN BY: ADAM AYCOCK, EI		Revision 2	-----	
						Revision 3	-----	
			Master Set	-----				

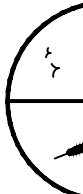


Notes:
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unless approved, in writing, by Engineer.

 <u>MITCHELL ENVIRONMENTAL, PA</u> <u>C-2917</u> 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526	PREPARED FOR : HHunt Homes 1 Fenton Main Street Suite 280 Cary, NC 27511	REVISION NO. Original Submittal	DATE June 10, 2025	<i>SHEET NUMBER</i> <i>3 of 5</i> <i>Magnolia Acres</i> <i>Lot 4</i> <i>Repair Nitrification Field</i>
	DATE : June 10, 2025	Revision 1	----	
	DESIGNER CONTACT: ADAM AYCOCK, EI	Revision 2	----	
	DRAWN BY: ADAM AYCOCK, EI	Revision 3	----	
		Master Set	----	

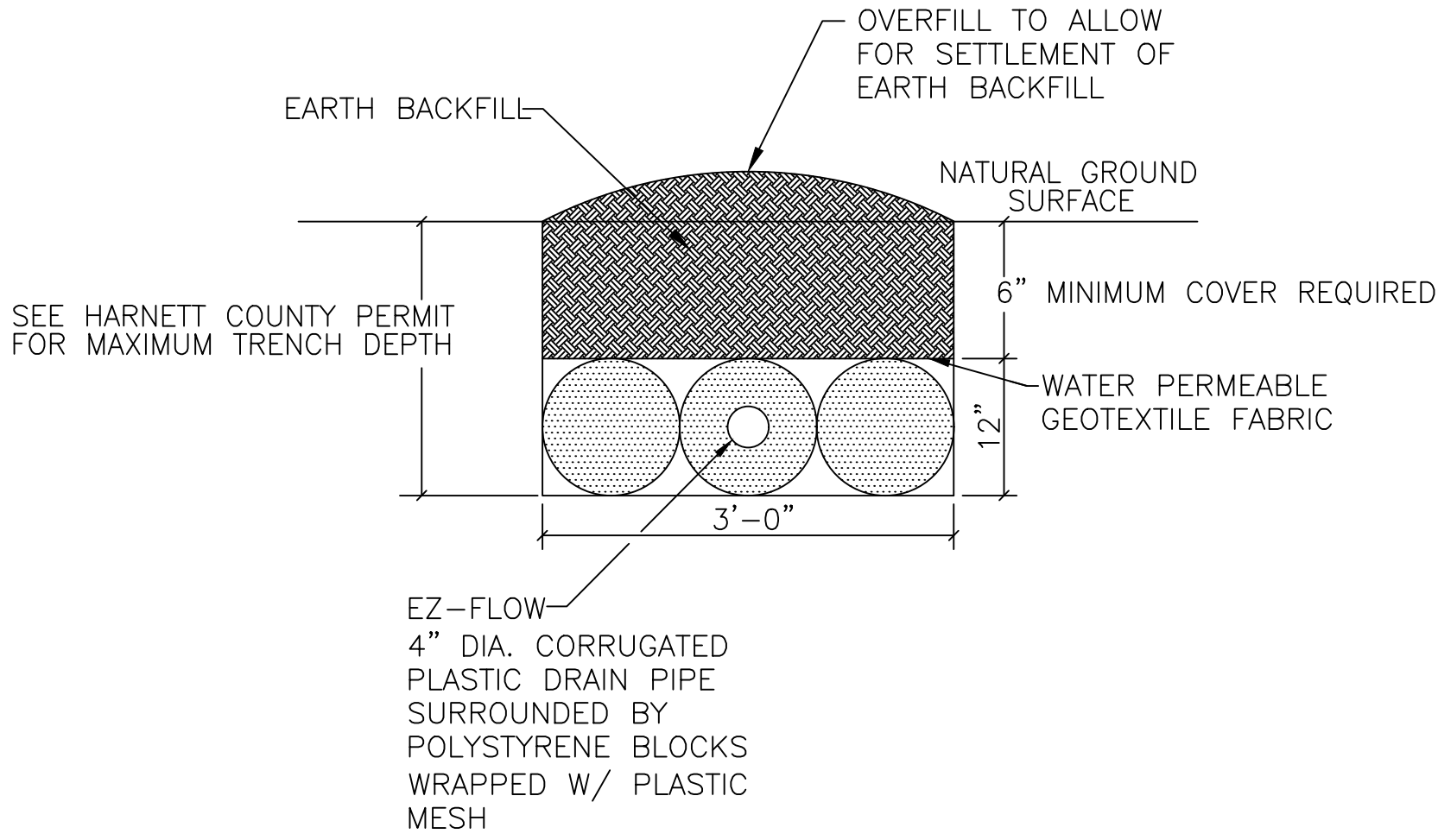


SEPTIC TANK DETAIL N.T.S.

 <u>MITCHELL ENVIRONMENTAL, PA</u> <u>C-2917</u> 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526	PREPARED FOR : HHunt Homes 1 Fenton Main Street Suite 280 Cary, NC 27511		REVISION NO.	DATE	<i>SHEET NUMBER</i> <i>4 of 5</i> <i>Magnolia Acres</i> <i>Lot 4</i> <i>Septic Tank Detail</i>
	DATE : June 10, 2025		Original Submittal	June 10, 2025	
	DESIGNER CONTACT: ADAM AYCOCK, EI		Revision 1	-----	
	DRAWN BY: ADAM AYCOCK, EI		Revision 2	-----	
			Revision 3	-----	
			Master Set	-----	

NITRIFICATION TRENCH
DETAIL FOR EZ-FLOW

N.T.S.



NOTES:

1. PERFORATED CORRUGATED PLASTIC PIPE SHALL MEET REQUIREMENTS OF ASTM D 2729.
2. PIPE SHALL BE LEVEL.
3. ENDCAP SHALL BE PROVIDED AT END OF ALL CORRUGATED PLASTIC PIPE LINES.
4. TRENCH BOTTOM SHALL BE LEVEL.
5. HAND RAKE TRENCH WALLS PRIOR TO PLACEMENT OF TRENCH MEDIA IF SOIL SMEARING IS PRESENT.

	SHEET NUMBER	
	5 of 5	
Magnaolia Acres Lot 4 Trench Detail		
REVISION NO.	DATE	
Original Submittal	June 10, 2025	
Revision 1	---	
Revision 2	---	
Revision 3	---	
Master Set	---	
PREPARED FOR : HHunt Homes 1 Fenton Main Street Suite 280 Cory, NC 27511		
DATE : June 10, 2025		
DESIGNER CONTACT: ADAM AYCOCK, EI		
DRAWN BY: ADAM AYCOCK, EI		
MITCHELL ENVIRONMENTAL, PA C-2911 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526		