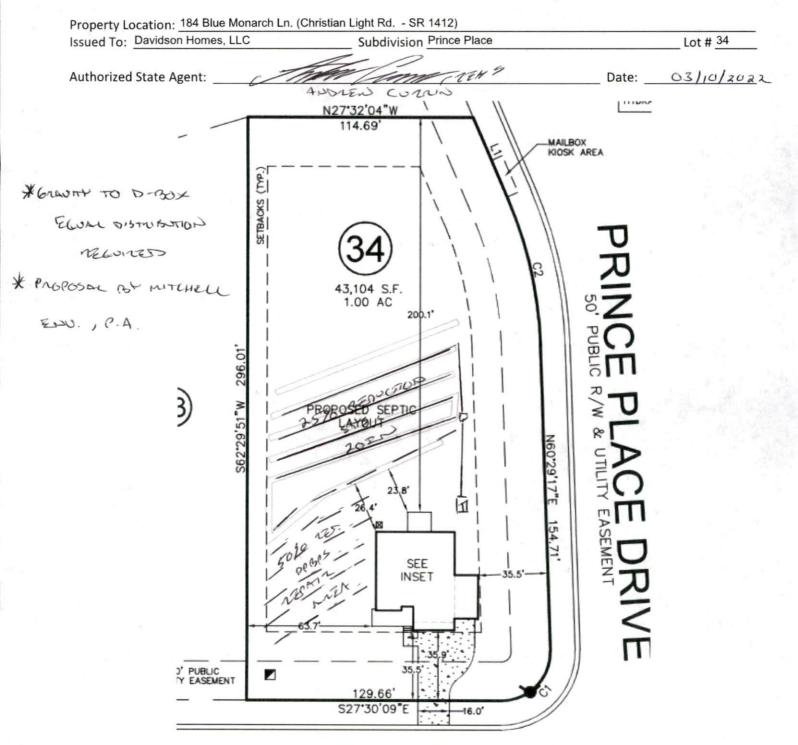
Harnett County Department of Public Health

Improvement Permit

A b	ouilding permit cannot be issued with only an Improvement Permit	n (Christian Light Pd
Water to Davidson Homos II C	PROPERTY LOCATION: 184 Blue Monarch I	Ln. (Christian Light Rd.
ISSUED TO: Davidson Homes, LLC	SUBDIVISION Prince Place	
NEW REPAIR EXPANSION Type of Structure: 54x46 sfd, 4 beds 4.5		Instruction Authorization issuance.
Proposed Wastewater System Type: 25% Reducti		
Projected Daily Flow: 480 GPD	JII SYS.	
Number of bedrooms: 4 Number of Occupa	nts: 8 max	
Basement Yes No	ntstildx	
the state of the s	ed based on final location and elevations of facilities	
Type of Water Supply: Community Public		rmit valid for: X Five years
Permit conditions:		No expiration
1		
Authorized State Agent::	Date: 03/10/2022	
	ees the issuance of other permits. The permit holder is responsible for checking with appropriat	
the Laws and Rules for Sewage Treatment and Disposal and to conditions	anges. The Improvement Permit shall not be affected by a change in ownership of the site. This	s permit is subject to compliance with the provisions of
the Land and holes for senage freatment and disposal and to conditions	or one permit.	
	Construction Authorization	
	Construction Authorization	
	(Required for Building Permit)	
	4, 1955, 1956, 1957, 1958, and 1959 are incorporated by references into this permit and	shall be met. Systems shall be installed in accordance
with the attached system layout.		
ISSUED TO: Davidson Homes, LLC	PROPERTY LOCATION: 184 Blue Mona	arch Ln. (Christian Light R
	SUBDIVISION Prince Place	LOT # 34
Facility Type: 54x46 sfd, 4 beds 4.5 ba		
Basement? Yes No Basement Fixtu		
A CONTRACTOR OF THE CONTRACTOR		astewater Flow: 480 GPD
	(Initial) Wa	astewater Flow: 480 GPD
(See note below, if applicable)	(0)	
	Repair)	
Installation Requirements/Conditions	Number of trenches	9
Septic Tank Size 1000 gallons	0	g: Feet on Center
Pump Tank Sizegallons	Trenches shall be installed on contour at a Soil Cover:	
		soil cover shall not exceed
	(Trench bottoms shall be level to +/-1/4" 36" above	the trench bottom)
	in all directions)	
Pump Requirements:ft. TDH vs	_GPM	inches below pipe
	Aggregate De	pth: NA inches above pipe
Conditions: _ GRAUNY TO D-BOX ELWA	L DISTUBLIEN	inches total
PROPOSITE BY MIT	CHELL ENVIRONENTAL, P.A.	
WATER LINES (INCLUDING IRRIGATION) MILST RI	E 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.	
NO UTILITIES ALLOWED IN INITIAL OR REPAIR DE		
NO OTILITIES ALLOWED IN INITIAL OR RETAIR DI	ANN FIELD AREA.	
**If applicable: 1 understand the system type specified	is different from the type specified on the application. I accept the s	pecifications of this permit.
Owner/Legal Representative Signature:		Date:
This Construction Authorization is subject to revocation if the site plan, pl.	at, or the intended use changes. The Construction Authorization shall not be transferred when t	there is a change in ownership of the site. This
Construction Authorization is subject to compliance with the provisions of	the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.	SEE ATTACHED SITE SKETCH
Authorized State Agent:	11111 Date: 63/1	10/2623
\	Construction Authorization Expiration Date:	3/10/2027
ANOVEW CORRA	construction Authorization Expiration Date.	JIV/ WAT

Harnett County Department of Public Health Site Sketch



BLUE MONARCH LANE

This drawing is for illustrative purposes and regulations.

Mitchell Environmental, P.A.

SEPTIC SYSTEM DESIGN

for

PRINCE PLACE SUBDIVISION- LOT 34

Fuquay-Varina, Harnett County, North Carolina

Submitted to:

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

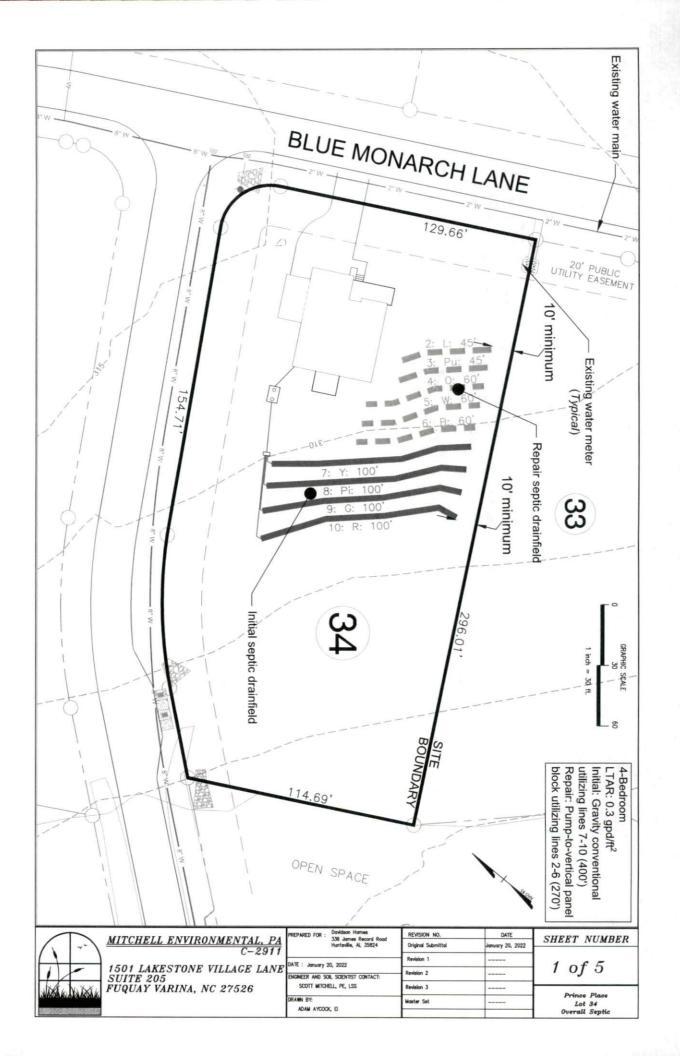
Prepared for:

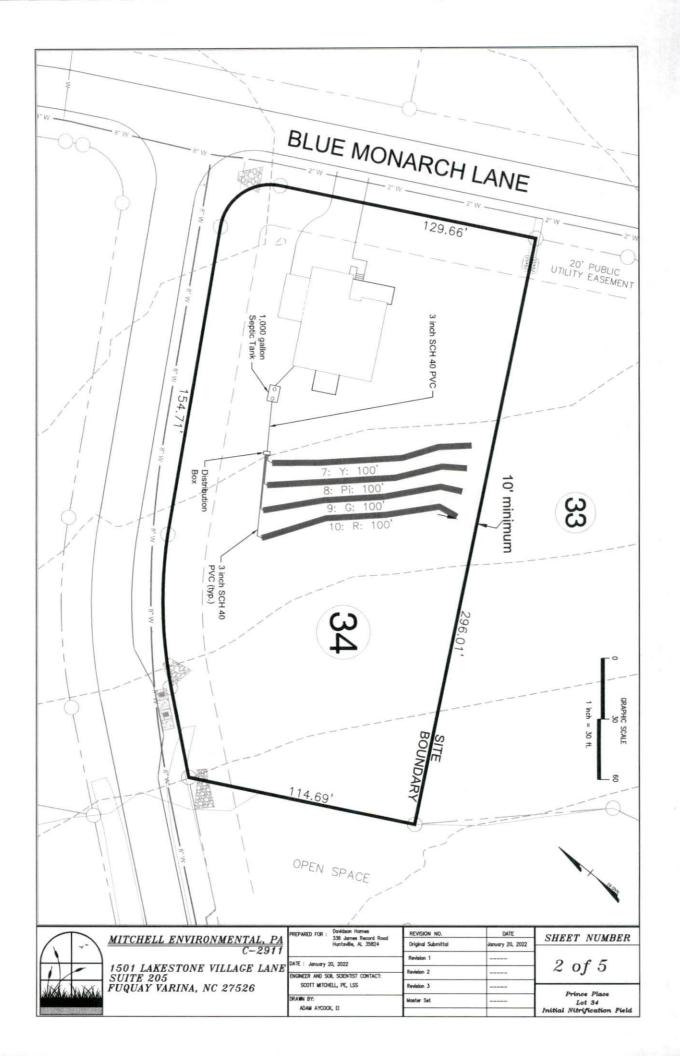
Davidson Homes, LLC 336 James Record Road Huntsville, Alabama 35824

Prepared by:

Scott Mitchell, PE, LSS Adam Aycock, El

DATE: January 20, 2022 PROJECT NO.: 4321





Repair System

PRESSURE MANIFOLD DESIGN

Name: Davidson Homes

P.I.N. #: 0633-86-3963

D#: N/A

Address: Blue Monarch Lane

Subdiv: Prince Place

gal/day

Pump Tank: 1200 gals (min.)

Lot#: 34

of BDR: 4 Daily Flow:

480

L.T.A.R.: 0.300 gal/day/sq.ft

810

Stone Depth: N/A

Number of Taps:

Septic Tank: 1000 gals (min.)

(Panel

5

Length of Trenches:

Varies

ft(See Tap Chart for Details)

Block)

Depth of Trenches:

see Harnett County Permit

Manifold Length:

Sq. Foot:

Manifold Diameter: 4 in sch 80pvc (minimum) Tap Configuration: 6 in spacing

side(s) of manifold 1

Supply Line: length:

Diameter:

2 in sch 40pvc

Friction Loss + Fitting Loss:

5.02

ft

in

ft(supply line length + 70' for fittings in pump tank)

Design Head:

2.0

Elevation Head:

7.66

ft

Vent Hole Size:

3/16

Orifice Coefficient of Discharge:

0.60

Orifice Coefficient of Contraction:

0.62

Orifice Coefficient of Velocity:

0.97

Maximum Head Supplied by Selected Pump(s) at Total Design Flowrate:

20

ft

Orifice / Vent Hole Flowrate:

1.85 gpm Head Loss at Orifice / Vent Hole:

1.27

Total Head: 15.95 ft

Pump to Deliver: 34.14 gals/min at

15.95

ft head

Dosing Volume:

236.93 gals.

Drawdown: 236.93 gals divided by

19 gals/in =

12.47 inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required or equal is required.

A septic tank filter,

Goulds:

Myers:

Possible pumps:

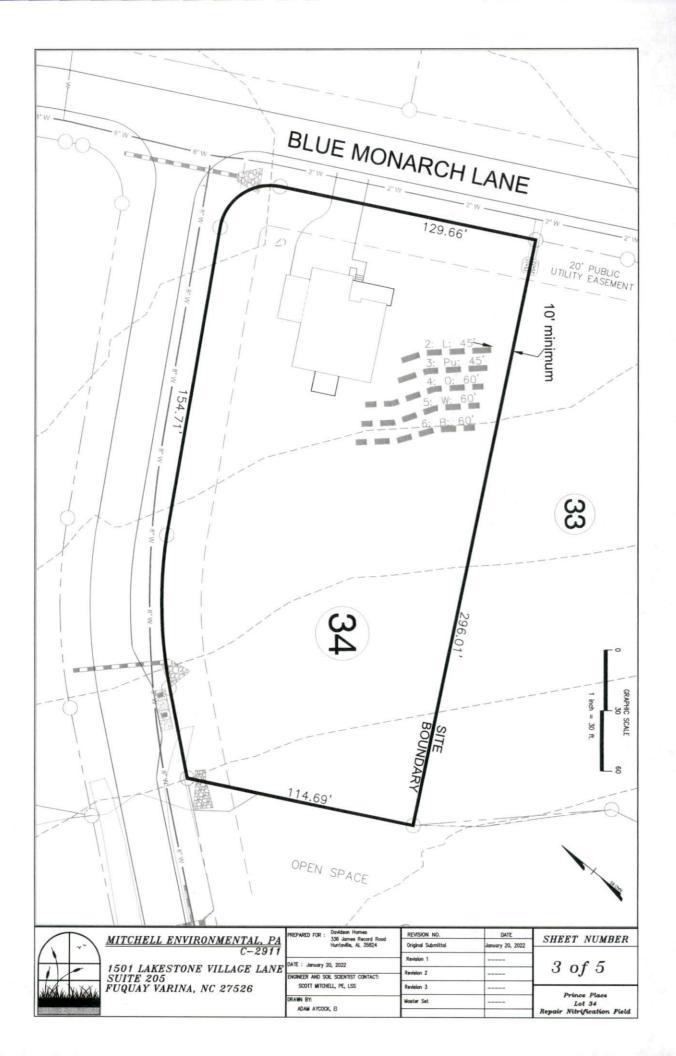
Zoeller: 137

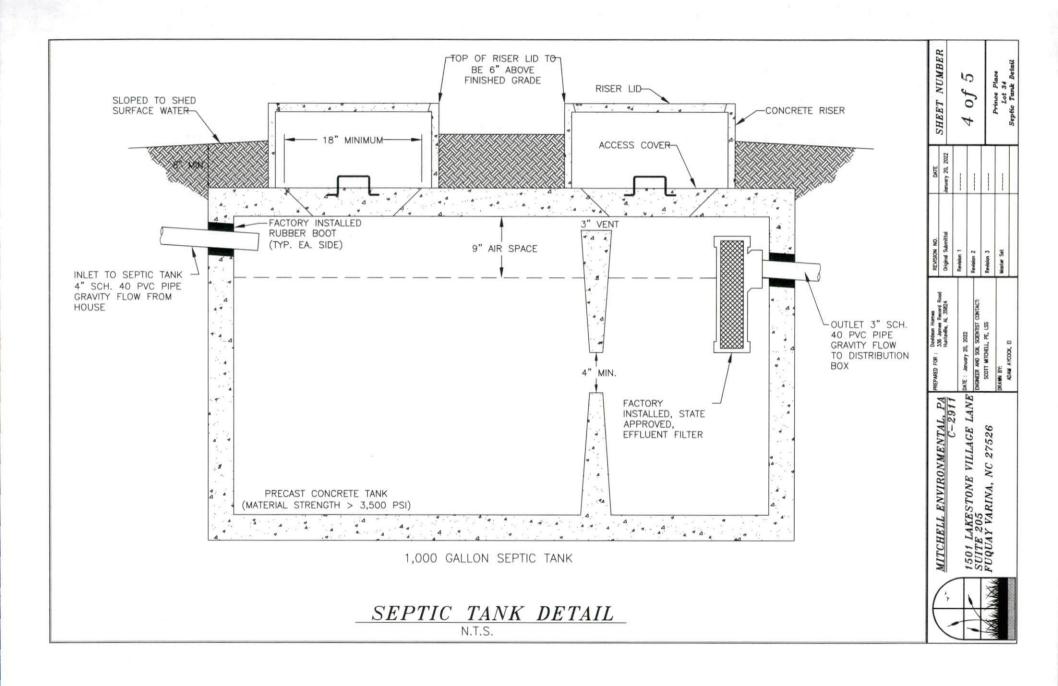
Hydromatic:

Other:

TAP CHART

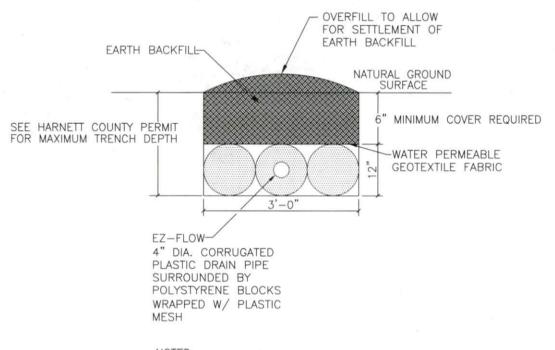
Bench Mark	3.21	is = 100.00	set at	1	Top water meter box li	id	Design Head:	2.0	
Pump tank elev.		5.25	97.96	Pump elev.	92.96		Manifold elev.	100.62	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
2	Lime	3.59	99.62	45	1/2in SCH 80	5.48	81.46	135	0.6034
3	Purple	3.97	99.24	45	1/2in SCH 80	5.48	81.46	135	0.6034
4	Orange	4.49	98.72	60	1/2in SCH 40	7.11	105,69	180	0.5872
5	White	4.90	98.31	60	1/2in SCH 40	7.11	105.69	180	0.5872
6	Blue	5.68	97.53	60	1/2in SCH 40	7.11	105.69	180	0.5872
		total	feet =	270	gal/min =	32,3		LTAR =	0,3000
% of Pipe Vol.		135		Des. Flow	480.00			(Itar + 5%)	0.3150
Dose Volume		236.93		Pump Run=	14.87			(Itar W/ INOV)	0.6000
Dose Pump Tim	е	7.34		Tank Gal/IN	19			(ltar + 5%)	0.6300
Drawdown in In	ches	12.47		Elev. Head	7.66				
Supply Line Ler	igth	140							
Comments:	_								





NITRIFICATION TRENCH DETAIL FOR EZ-FLOW

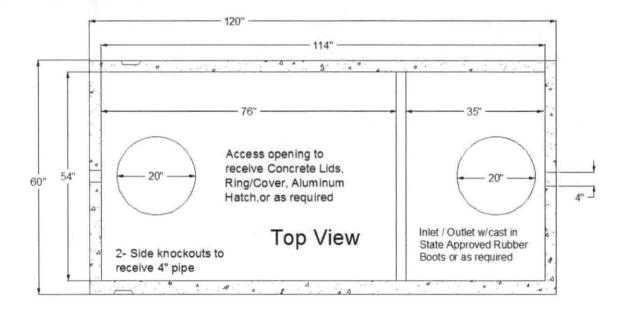
N.T.S.

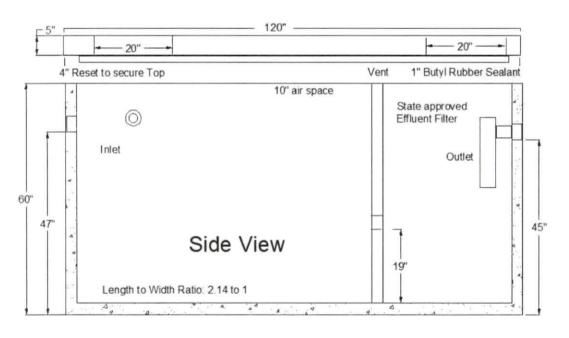


NOTES:

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

NATIONAL DA	PREPARED FOR: Davidson Homes	REVISION NO.	DATE	CHEET
CONMENIAL, FA	MIICHELL ENVIRONMENTAL, PA	Original Submittal	January 20, 2022	SHEEL NUMBER
1167-0	DATE : Journal 20 2000	Revision 1		4
1501 LAKESTONE VILLAGE LANE BIGHER AND SOL SCIENT	ENGNEER AND SOIL SCIENTIST CONTACT:	Revision 2		c fo c
TUQUAY VARINA, NC 27526	SCOTT MITCHELL, PE, LSS	Revision 3		
	DRAWN BY:	Monter Set	-	Prince Place Lot 34
	ADAM AYCOCK, El			Trench Detail





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:

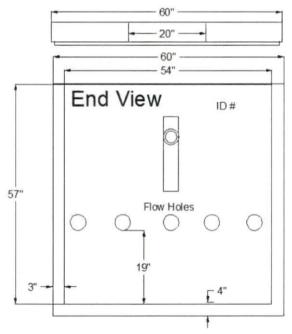


Eddie Garner, President 919-718-5181

121 Stanton Hill Road

Carthage, NC 28327 Fax 919-775-2229

Eddie@garnersseptictanks.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.
- 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 & Lok™



Extend & Lok™ Easily installs into existing tanks.

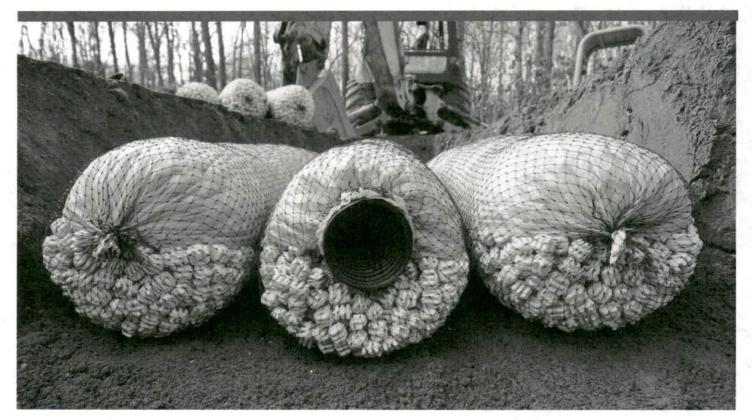


to 110mm Pipe

to SDR 35



GEOSYNTHETIC AGGREGATE TECHNOLOGY



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.



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



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



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



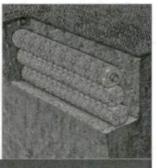
1206H-GEO 1402H-GEO 1303H-GEO 1802H-GEO



1006V-GEO

1202V-GEO

1002V-GEO 1003V-GEO 1004V-GEO



1203V-GEO 12 1204V-GEO 14

1206V-GEO 1402V-GEO

Notes:

- Other systems include 10" and 12" bed systems. Bed size will dictate the number of bundles.
- 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.
- 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.

FZ01 0315AG



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, QuickClut, 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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Property Description:

LOT#34 PRINCE PLACE PH 1 MAP#2021-372

Harnett County GIS

PID: 050633 0026 34

PIN: 0633-86-3963,000

REID:

Subdivision:

Taxable Acreage: 0.960 AC ac Caclulated Acreage: 1 ac Account Number: 1500044883

Owners: MFT DH 1 LLC

Owner Address: 1954 AIRPORT RD STE 208 ATLANTA, GA 30341-4949

Property Address: BLUE MONARCH LN FUQUAY-VARINA, NC 27526

City, State, Zip: FUQUAY-VARINA, NC, 27526

Building Count: 0
Township Code: 08

Fire Tax District: Northwest Harnett

Parcel Building Value: \$
Parcel Outbuilding Value: \$
Parcel Land Value: \$

arou zana vajao . o

Parcel Special Land Value: \$

Total Value: \$

Parcel Deferred Value : \$
Total Assessed Value : \$

Neighborhood: 00821

Actual Year Built:

TotalAcutalAreaHeated: Sq/Ft Sale Month and Year: 9 / 2021

Sale Price: \$650000

Deed Book & Page: 4053-0488

Deed Date: 1632960000000

Plat Book & Page: 2021-372

Instrument Type: WD

Vacant or Improved:

QualifiedCode: A

Transfer or Split: T

Within 1mi of Agriculture District: Yes

Prior Building Value: \$
Prior Outbuilding Value: \$

Prior Land Value: \$

Prior Special Land Value: \$

Prior Deferred Value : \$
Prior Assessed Value : \$

