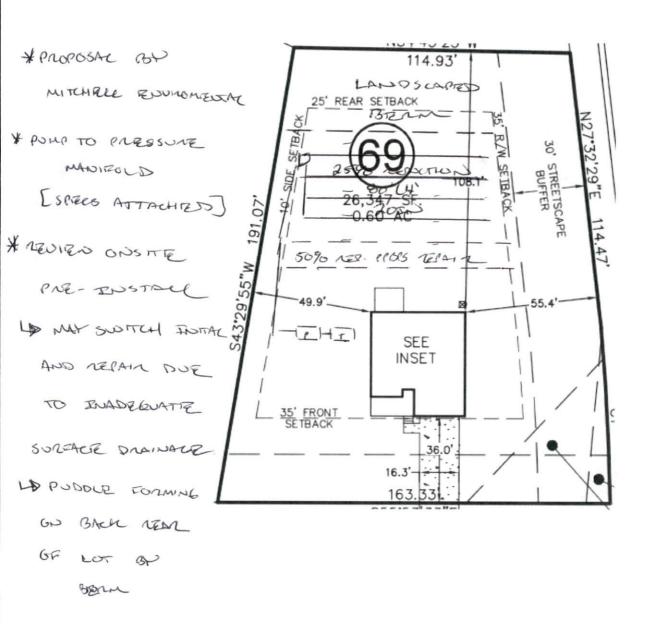
Harnett County Department of Public Health

Improvement Permit

PROPERTY LOCATION: 24 Prince Place Dr. (Christian Light Rd S
ISSUED TO: Davidson Homes, LLC SUBDIVISION Prince Place LOT # 69
NEW REPAIR EXPANSION Site Improvements required prior to Construction Authorization Issuance:
Type of Structure: 39x43 3bed/2.5ba
Proposed Wastewater System Type: 25% Reduction Sys.
Projected Daily Flow: 360 GPD
Number of bedrooms: 3 Number of Occupants: 6 max
Basement Yes X No
Pump Required: Mes No May be required based on final location and elevations of facilities
Type of Water Supply: Community Public Well Distance from well NA feet Permit valid for: Five years
Permit conditions: No expiration
Authorized State Agent: Date: 01/24/2022 SEE ATTACHED SITE SKETCH
Authorized State Agent:: Date: OI/J4/2022 SEE ATTACHED SITE SKETCH The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This
site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of
the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.
Construction Authorization
(Required for Building Permit)
The construction and installation requirements of Rules 1950, 1952, 1954, 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: 24 Prince Place Dr. (Christian Light Rd.
The state of the s
Facility Type: 39x43 3bed/2.5ba New Expansion Repair
Basement? Yes No Basement Fixtures? Yes No
Type of Wastewater System** 25% Reduction System (Initial) Wastewater Flow: 360 GPD
(See note below, if applicable)
25% Reduction System (Repair)
Installation Requirements/Conditions Number of trenches 4
Septic Tank Size 1000 gallons Exact length of each trench 80 feet Trench Spacing: 9 Feet on Center
Pump Tank Size 1000 1200 gallons Trenches shall be installed on contour at a Soil Cover: inches
Maximum Trench Depth of:inches (Maximum soil cover shall not exceed
(Trench bottoms shall be level to $\pm 1/4$ " 36" above the trench bottom)
in all directions)
Pump Requirements:ft. TDH vsGPMinches below pipe
Aggregate Depth: NA inches above pipe
Conditions: Gravity to D-Box Equal Distribution Required NA inches total
WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.
**If applicable: 1 understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.
Owner/Legal Representative Signature: Date:
This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when 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.
Authorized State Agent: Date: 01/24/2022
Authorized State Agent: Date: 01/24/2022 ANSTRUCTION CONSTRUCTION Authorization Expiration Date: 01/24/2027

Harnett County Department of Public Health Site Sketch

Property Location: 24 Prince Place Dr. (Christia	n Light Rd SR 1412)		
Issued To: Davidson Homes, LLC	Subdivision Prince Place		Lot # 69
Authorized State Agent:	ANDREW CUREN	Date: _	01/24/2022



This drawing is for illustrative purposes only. System installation must meet all pertinent laws, rules, and regulations.

Mitchell Environmental, P.A.

SEPTIC SYSTEM DESIGN

for

PRINCE PLACE SUBDIVISION- LOT 69

Fuquay-Varina, Harnett County, North Carolina

Submitted to:

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

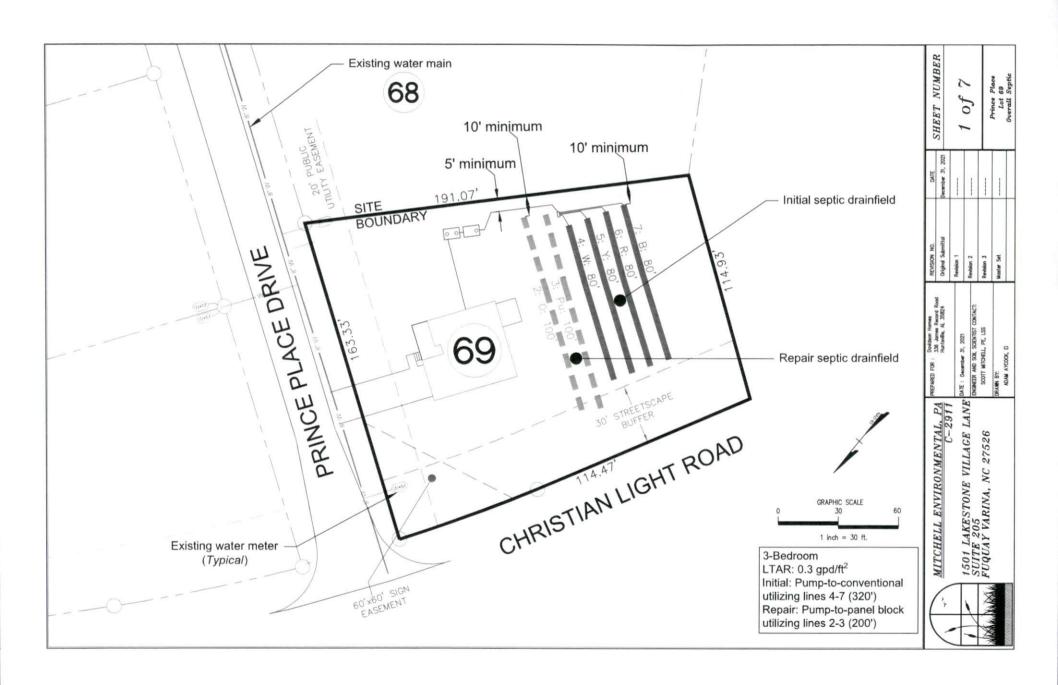
Prepared for:

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

Prepared by:

Scott Mitchell, PE, LSS Adam Aycock, EI

DATE: January 4, 2022 PROJECT NO.: 4321



Initial System

PRESSURE MANIFOLD DESIGN

Name: Davidson Homes

P.I.N. #: 0633-67-7088

D#: N/A

Address: Prince Place Drive

Pump Tank: 1200 gals (min.)

Subdiv: Prince Place

Lot#: <u>69</u>

of BDR: 3 Daily Flow:

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

Sq. Foot:

Stone Depth: N/A

(EZ Flow)

Number of Taps:

Septic Tank: 1000 gals (min.) 4

Length of Trenches:

80

960

ft(See Tap Chart for Details)

Depth of Trenches:

see Harnett County Permit

Manifold Length:

42

Manifold Diameter:

ft

in

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

side(s) of manifold

Supply Line: length:

<u>50</u> ft

Diameter: 2 in sch 40pvc

1

Friction Loss + Fitting Loss:

1.40

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

Design Head:

2.0

Elevation Head:

5.00

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:

22

ft

Orifice / Vent Hole Flowrate:

1.94 gpm

Head Loss at Orifice / Vent Hole:

1.40

ft

Total Head:

9.80

Pump to Deliver: 23.86

gals/min at

9.80

ft head

Dosing Volume:

137.28 gals.

Drawdown:

137.28 gals divided by

19 gals/in =

7.23

inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required A septic tank filter, or equal is required.

Possible pumps:

Hydromatic:

Goulds:

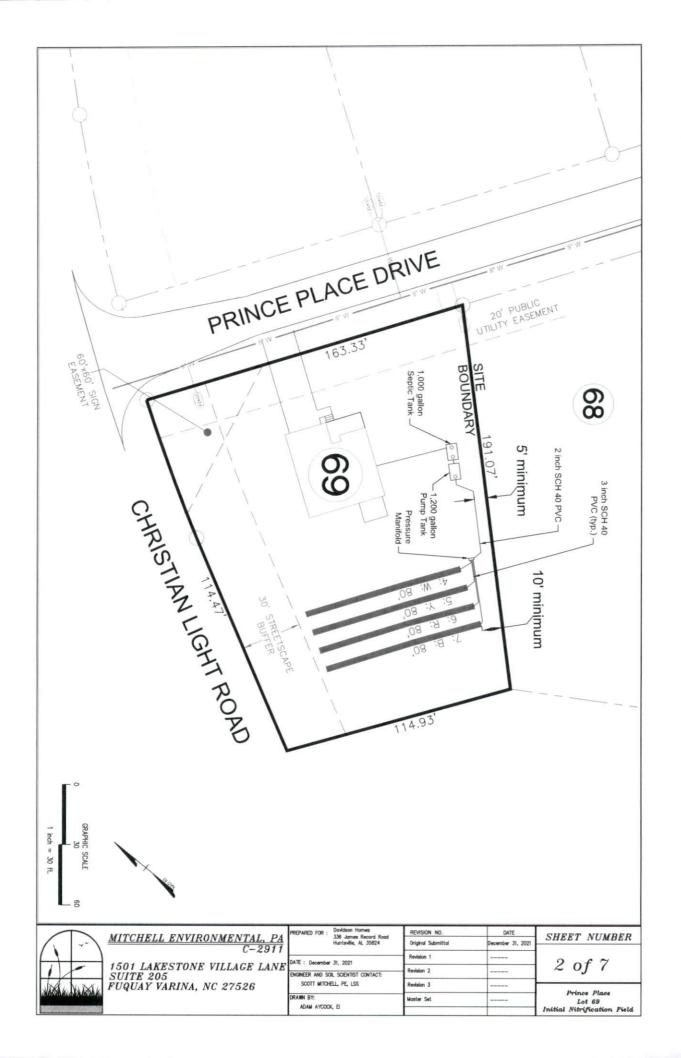
Myers:

Zoeller: 137

Other:

TAP CHART

					(7) (7)				
Bench Mark	4.85	is = 100.00	set at	EG	beside green electr	ic box	Design Head:	2.0	
Pump tank elev.		5	99.85	Pump elev.	94.85		Manifold elev.	99.26	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
4	White	6.09	98.76	80	1/2in SCH 80	5.48	90.00	240	0.3750
5	Yellow	6.17	98.68	80	1/2in SCH 80	5.48	90.00	240	0.3750
6	Red	6.36	98.49	80	1/2in SCH 80	5.48	90.00	240	0.3750
7	Blue	6.41	98.44	80	1/2in SCH 80	5.48	90.00	240	0.3750
		total	feet =	320	gal/min =	21.9		LTAR =	0.3000
% of Pipe Vol.		66		Des. Flow	360.00			(Itar + 5%)	0.3150
Dose Volume		137.28		Pump Run=	16.42			(Itar W/ INOV)	0.4000
Dose Pump Time		6.26		Tank Gal/IN	19			(Itar + 5%)	0.4200
Drawdown in Inch	es	7.23		Elev. Head	4.41				
Supply Line Lengt	h	50							
Comments:									



Repair System

PRESSURE MANIFOLD DESIGN

Name: Davidson Homes

P.I.N. #: 0633-67-7088

D#: N/A

Address: Prince Place Drive

Subdiv: Prince Place

Lot#: 69

of BDR: 3 Daily Flow:

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

Sq. Foot:

Septic Tank: 1000 gals (min.) Pump Tank: 1200 gals (min.)

600

Stone Depth: N/A

Number of Taps:

Length of Trenches: 2

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

100

(Panel

ft(See Tap Chart for Details)

in

Block)

Depth of Trenches: see Harnett County Permit

Manifold Length:

30

side(s) of manifold 1

Supply Line: length: 25 ft

Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss:

1.42

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

Design Head:

2.0 ft **Elevation Head:**

5.11 ft

Vent Hole Size:

3/16 in

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:

22

ft

Orifice / Vent Hole Flowrate:

1.94

gpm

Head Loss at Orifice / Vent Hole:

1.40

Total Head:

9.92 ft

Pump to Deliver:

26.94 gals/min at 9.92

ft head

ft

Dosing Volume:

273.00

gals.

Drawdown: 273.00 gals divided by

19 gals/in =

14.37 inches

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

A septic tank filter.

Hydromatic:

Goulds:

Myers:

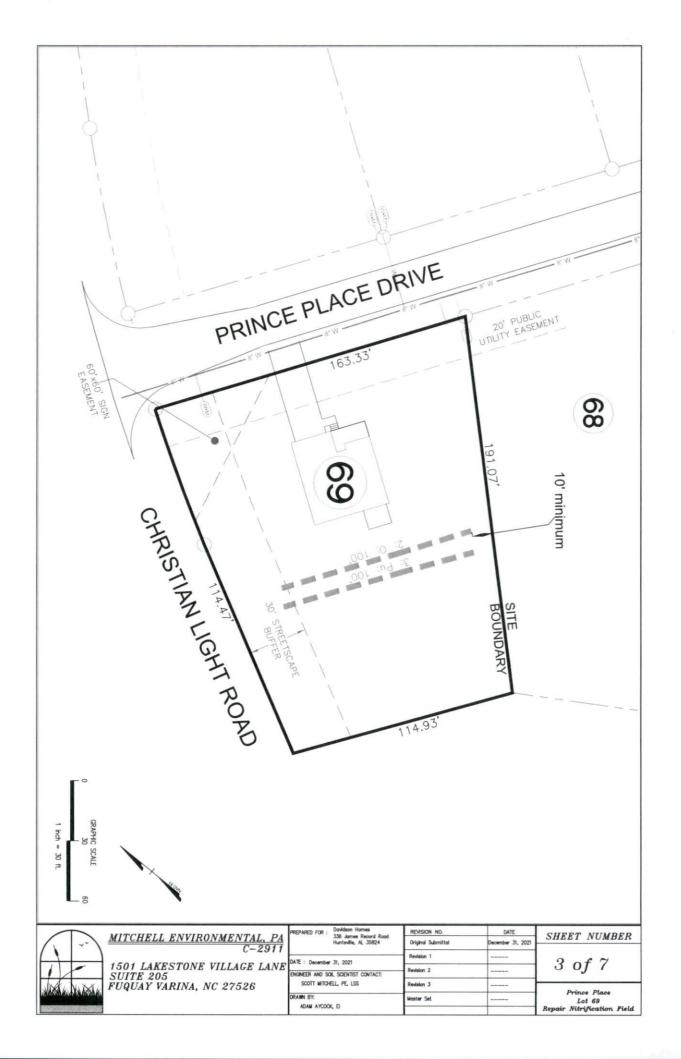
Possible pumps:

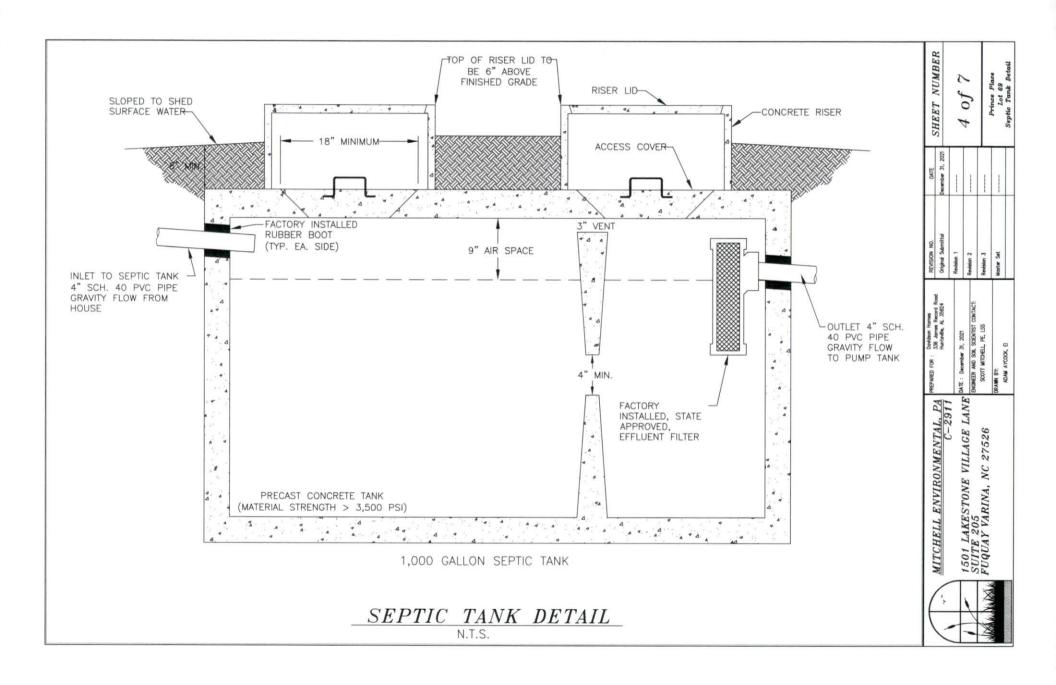
Zoeller: 137

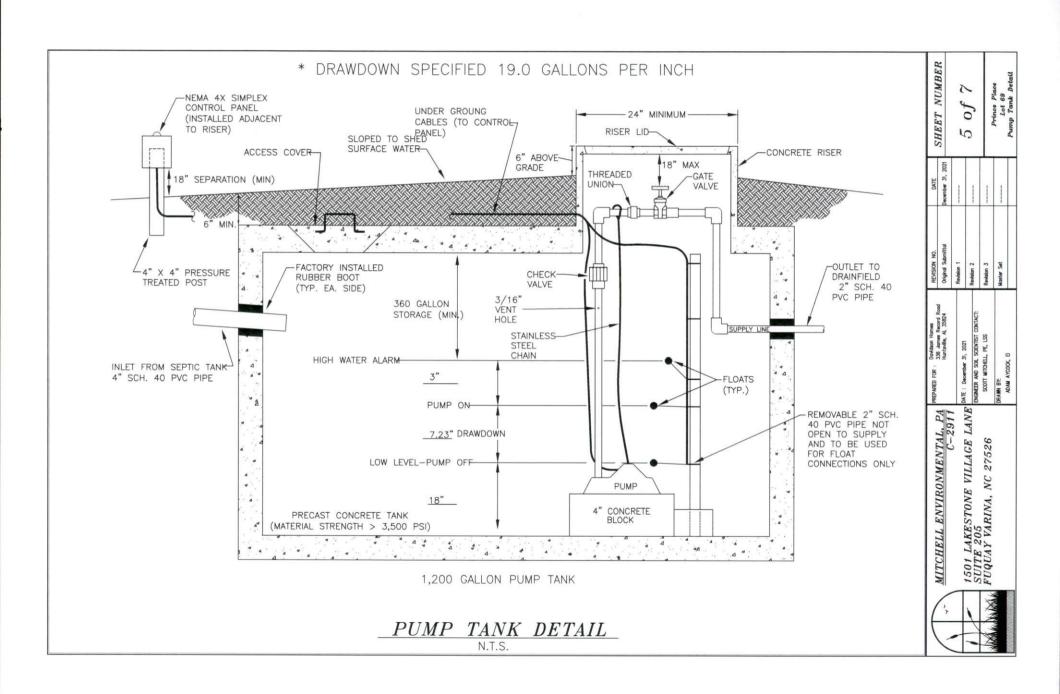
Other:

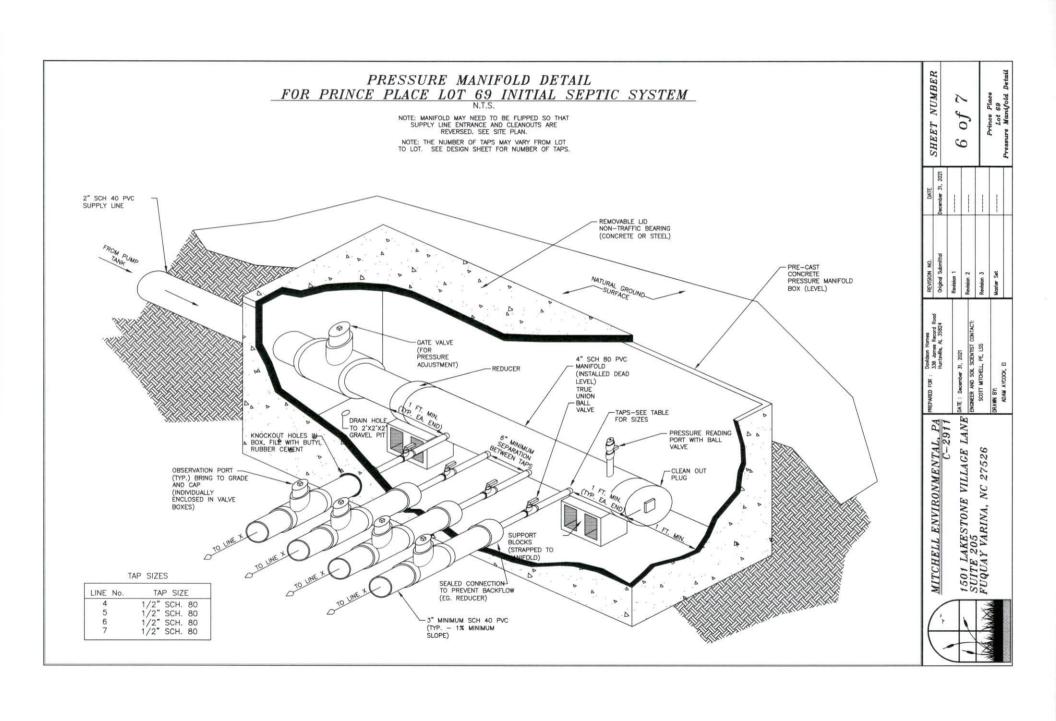
TAP CHART

Bench Mark	4.85	is = 100.00	set at	EG	beside green electr	ic box	Design Head:	2.0	
Pump tank elev.		5	99.85	Pump elev.	94.85		Manifold elev.	99.96	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
2	Orange	5.89	98.96	100	3/4in SCH 40	12.50	180.00	300	0.6000
3	Purple	5.93	98.92	100	3/4in SCH 40	12.50	180.00	300	0.6000
		total	feet =	200	gal/min =	25.0		LTAR =	0.3000
% of Pipe Vol.		210		Des. Flow	360.00			(Itar + 5%)	0.3150
Dose Volume		273.00		Pump Run=	14.40			(Itar W/ INOV)	0.6000
Dose Pump Tim	e	10.92		Tank Gal/IN	19			(Itar + 5%)	0.6300
Drawdown in In-	ches	14.37		Elev. Head	5.11				
Supply Line Ler Comments:	ngth	25							



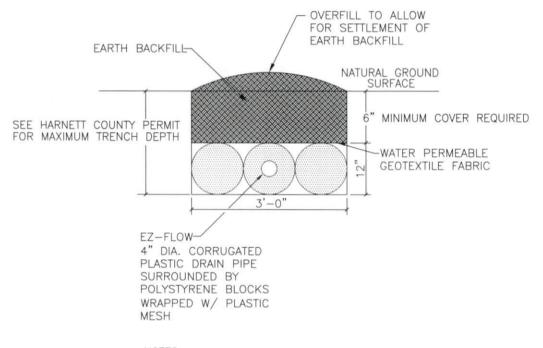






NITRIFICATION TRENCH DETAIL FOR EZ-FLOW

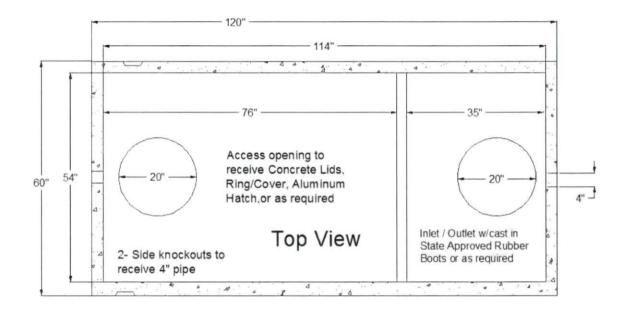
I.T.S.

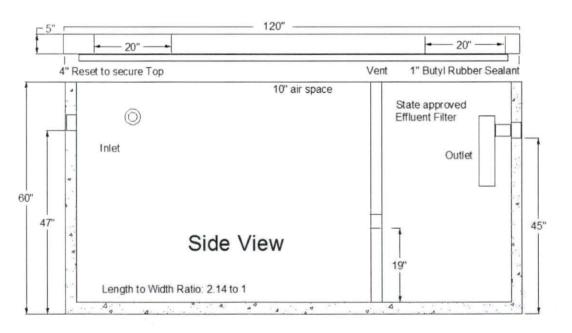


NOTES:

- 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.

MITCHELL ENVIRONMENTAL, PA REPARCH FORMS REMISSION INC. DATE Inchesion 1 Original Stamittal December 31, 2021
EPARED FOR: Doublew Hermes The Company of the Comp
MITCHELL ENVIRONMENTAL, PA C-2917 1501 LAKESTONE VILLACE LANE SUITE 205 FUQUAY VARINA, NC 27526 MARCH BENERAL SOLUTION SOLUTI
MITCHELL ENVIRONMENTAL. PA C-2911 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526





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:

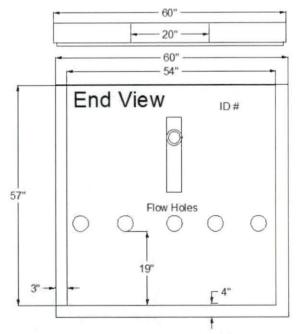


Eddie Garner, President 919-718-5181

121 Stanton Hill Road Carthage, NC 28327

Fax 919-775-2229

Eddie@garnersseptictanks.com





PL-68 Filter and Tee

baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the 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

• Locks in any 360° position when used with PL-68 Tee. · Accepts 3/4" PVC handle. 800 CbD significantly extends time between cleaning. · Offers 68 linear feet of 1/16" filter slots, which 1/16" Filtration Slots Features: and to keep the solids in the tank.

• PL-68 Housing can be used as an inlet or outlet tee.

Gasket prevents bypass.

(GPD). Easily installs in any new or existing 4" outlet tee. Ideal for residential waste flows up to 800 gallons per day PL-68 Installation:

1. Locate the outlet of the septic tank.

4. Insert the PL-68 filter into tee.

3. Glue the filter housing to the outlet pipe, or use a 2. Remove the tank cover and pump tank if necessary.

Polylok Extend & Lok if not enough pipe exists.

5. Replace and secure the septic tank cover.

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

1. Do not use plumbing when filter is removed.

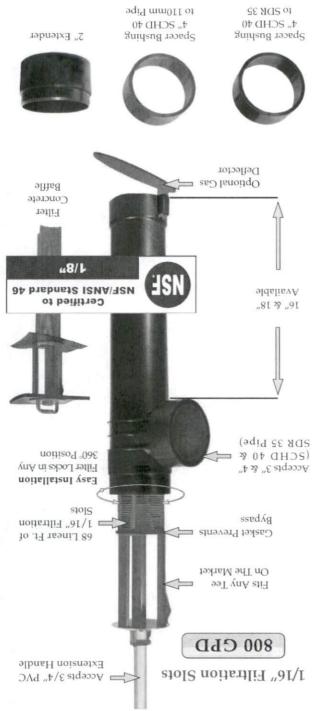
2. Pull PL-68 out of the tee.

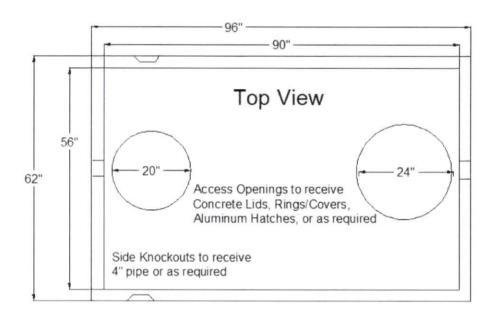
fall back into septic tank. 3. Hose off filter over the septic tank. Make sure all solids

4. Insert filter back into tee/housing.

Extend & LokTM PL-68 Filter Concrete Baffle Related Products:

into existing tanks. Easily installs Extend & Lokin





PT - 213 Top seam

Date: 08-18-93 Non Traffic Rated

Liquid Capacity 1,211 Gallons

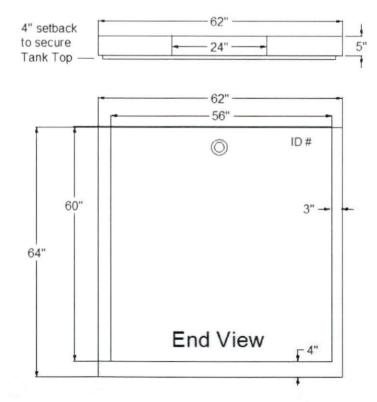
Reinforcing Schedule: #3 Grade 60 Rebar 4500 PSI Concrete w/ State Approved Structural Fiber 2.5 yds. Est. Weight 8,900 lbs. 19 gals. per in.

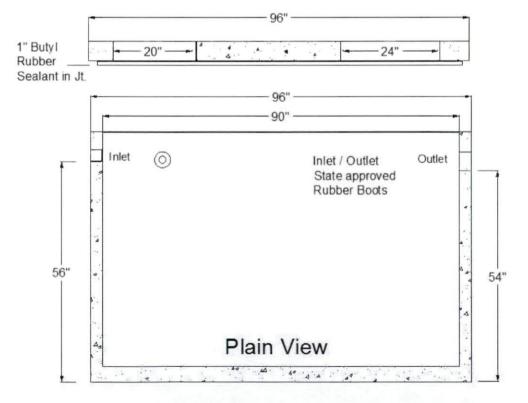
Manufactured By:



Eddie Garner, President 919-718-5181

121 Stanton Hill Road Carthage, NC 28327 Fax 919-775-2229 Eddie@garnersseptictanks.com





INSTALLER FRIENDLY SERIES® - IFS Single Phase Simplex (Demand/TD)

Single phase, simplex demand dose or timed dose, float controlled system for pump control and system monitoring.

The IFS simplex control panel is designed to control one 120, 208, 240 VAC single phase pump in water and sewage installations.

The IFS control panel features an easy-to-use touch pad with display on the inner door for programming and system monitoring.

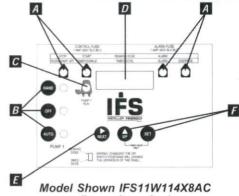
The panel configuration can be easily converted in the field to either a timed dose or demand dose.

TOUCH PAD FEATURES

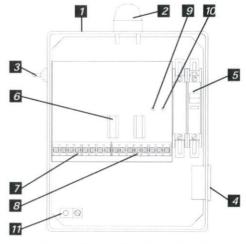
- Float Indicators illuminate when floats are activated. Alarm will activate if a float operates out of sequence.
- HOA (Hand-Off-Automatic) Buttons control pump mode with indication. Hand mode defaults to Automatic when stop level or redundant off level is reached.
- C. Pump Run Indicator illuminates when pump is called to run.
- D. LED Display shows system information including: mode, pump elapsed time (hh:mm), events (cycles), alarm counter, float error count, timed dose override counter (timed dose only), and ON/OFF times (timed dose only).
- NEXT Push Button toggles display.
- UP and SET Push Buttons set pump ON/OFF times (timed dose only).

PANEL COMPONENTS

- Enclosure base measures 10 X 8 X 4 inches (25.4 X 20.32 X 10.16 cm), NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use). Note: Options, voltage, and amp range selected may change enclosure size and component layout.
- 2. Red Alarm Beacon provides 360° visual check of alarm condition.
- Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
- Alarm Horn provides audio warning of alarm condition (83 to 85 decibel
- Circuit Breaker (optional) provides pump disconnect and branch circuit protection.
- Power Relay controls pump by switching electrical lines. Definate purpose contactor used when pump full load amps are above 15.
- 7. Float Connection Terminal Block
- Incoming Control/Alarm Power & Pump Terminal Block
- Control Power Indicator/Fuse indicator light illuminates if control power is present in panel. Alarm will activate if control fuse is blown.
- 10. Alarm Power Indicator/Fuse indicator light illuminates if alarm power is present in panel.
- 11. Ground Lug
- NOTE: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel on enclosure cover



(Inner door view)



Model Shown IFS11W114X8AC (Inside view)

Reg. Cdn Pat. & TM Off

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes: Demand Dose - three 20' SJE MilliAmpMaster™ control switches Timed Dose - two 20' SJE MilliAmpMaster™ control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty LISTED



US

PO Box 1708, Detroit Lakes, MN 56502 1-888-DIAL-SJE • 1-218-847-1317 1-218-847-4617 Fax

email: sje@sjerhombus.com www.sjerhombus.com

	IFS 2 1 W Note Note 4 H 8AC, 10E, 10F	5A
MOE	DEL IFS MODELTYPE	
X	1 = SPLX TIMED DOSE (includes option 8AC standard) 2 = SPLX DEMAND DOSE (includes option 8AC standard)	
V	ALARMPACKAGE ————————————————————————————————————	
V	W = NEMA4X	
	STARTING DEVICE ————————————————————————————————————	
	PUMP FULL LOAD AMPS 0 = 0-7 FLA 1 = 7-15 FLA 2 = 15-20 FLA	
X	PUMP DISCONNECTS 0 = no pump disconnect 4 = circuit breaker 120 VAC (must select starting device option 9) 120/208/240 VAC (must select starting device option 1)	
X	SWITCH APPLICATIONS H = floats (Timed dose = low level and alarm / Demand dose = stop, start, and alarm) (select 17 option) X = no float timed dose demand Dose Note: Pump down applications only.	
	OPTIONS Listed below —	
		1

<u>Note:</u> Starting device, pump full load amps, cord length, and float type to be selected by installer and their electrician upon selection of pump.

If additional features are required, call the factory for a quote on an Engineered Custom control panel.

	CODE DESCRIPTION 1J Duo alarm inputs 3A Alarm flasher 3B Manual reset alarm 4A Redundant off (select option 4D if floats are required) Demand Dose Timed Dose 4D Redundant off float 6A Auxiliary alarm contacts, form C 8AC Display board includes: ETM counter, events (cycles) counter, alarm counter, and override counter (timed dose only). (Included as standard.) 10E Lockable latch - NEMA 4X 10F Lightning arrestor (must select pump circuit breaker, control and alarm power combined) 10K Anti-condensation heater 11C NEMA 1 remote alarm panel (must select option 6A)	11D X 15A 16A 16B 16C 17C 17D 17G 17H 17J 17J	NEMA 4X remote alarm panel (must select option 6A) Control / Alarm circuit breaker 10' cord in lieu of 20' (per float) 15' cord in lieu of 20' (per float) 30' cord in lieu of 20' (per float) 40' cord in lieu of 20' (per float) Sensor Float® / internally weighted ▲ (per float) Sensor Float® / externally weighted ▲ (per float) MilliAmpMaster™/ pipe clamp ♠ (per float) MilliAmpMaster™/ externally weighted ♠ (per float) Sensor Float® / pipe clamp ♠ (per float) Timer override option with float (timed dose only) Mechanically-activated ♠ Mercury-activated	
SA	MPLE			
	MODEL IFS 1 1 W 9 1 Model Type Alarm Package Enclosure Rating Starting Device Pump Full Load Amps Pump Disconnects Switch Application Options: Display, Lockable Latch, SJE MilliAmpMaster"/pipe clamp	4 H	8 <i>AC</i> 10E17 <i>G</i>	

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



SECTION: 2.15.060

FM2782 1016

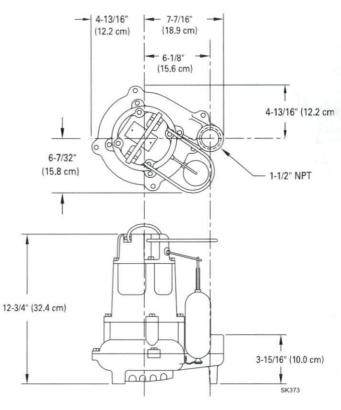
Supersedes 0916

TECHNICAL DATA SHEET FLOW-MATE SERIES

Models 137, 139 Effluent / Dewatering Pumps

PRODUCT SPECIFICATIONS

	Horse Power	1/2
	Voltage	115 - 460
~	Phase	1 or 3 Ph
MOTOR	Hertz	60 Hz
0	RPM	1750
Σ	Туре	Split phase or 3 phase
	Insulation	Class B
	Amps	1.4 - 10.7
	Operation	Automatic or nonautomatic
	Auto On/Off Points	10" (25.4 cm) / 2-3/4" (7 cm)
	Discharge Size	1-1/2" NPT
	Solids Handling	5/8" (15 mm) spherical solids
4	Cord Length	10' (3 m) automatic, 15' (5 m) nonautomatic
PUMP	Cord Type	UL listed, neoprene cord
4	Max. Head	26' (8 m)
	Max. Flow Rate	93 GPM (352 LPM)
	Max. Operating Temp.	130° F (54° C) [extra duty 140°F (60°C)]
	Cooling	Oil filled
	Motor Protection	Auto reset thermal overload (1 Ph)
	Motor Housing	Cast iron (137) or bronze (139)
	Pump Housing	Cast iron (137) or bronze (139)
10	Base	Cast iron (137) or bronze (139)
-	Upper Bearing	Sleeve bearing
₹	Lower Bearing	Sleeve bearing
E	Mechanical Seals	Carbon and ceramic
MATERIALS	Impeller Type	Non-clogging vortex
	Impeller	Cast iron or bronze
	Hardware	Stainless steel
	Motor Shaft	AISI 1215 cold rolled steel
	Gasket	Neoprene



NOTE: See model comparison chart for specific details.



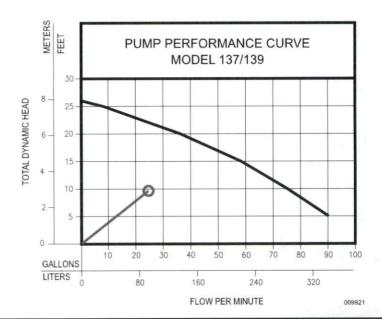






TOTAL DYNAMIC HEAD FLOW PER MINUTE

МС	DDEL	137	7/139							
Feet	Meters	Gal.	Liters							
5	5 1.5		340							
10	10 3.0		284							
15	15 4.6		220							
20	20 6.1		136							
25 7.6		8 30								
Shut-o	off Head:	26 ft.	(8.0m)							



Model	MODEL COMPARISON										CERTIFICA- TIONS		
	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs	Kg	Simplex	Duplex	CSA	UL
M137	Single	Auto	115	1	10.7	1/2	60	47	21	1	4	Y	Υ
N137	Single	Non	115	1	10.7	1/2	60	46	21	2 or 3	2 or 4	Υ	Υ
BN137	Single	Auto	115	1	10.7	1/2	60	48	22	**	4	Υ	Υ
D137	Single	Auto	230	1	5.8	1/2	60	47	21	1	4	Y	Υ
E137	Single	Non	230	1	5.8	1/2	60	48	22	2 or 3	4	Y	Υ
* H137	Single	Auto	200	1	6.2	1/2	60	48	22	1	4	Y	N
* I137	Single	Non	200	1	6.2	1/2	60	48	22	3	4	Y	N
* J137	Single	Non	200	3	2.6	1/2	60	46	21	3	4	Υ	Υ
* F137	Single	Non	230	3	2.6	1/2	60	48	22	3	4	Y	Υ
* G137	Single	Non	460	3	1.4	1/2	60	48	22	3	4	N	Ν
BE137	Single	Auto	230	1	5.8	1/2	60	48	22	**		Y	Υ
M139	Single	Auto	115	1	10.7	1/2	60	51	23	1	4	Υ	Υ
N139	Single	Non	115	1	10.7	1/2	60	51	23	2 or 3	2 or 4	Y	Υ
D139	Single	Auto	230	1	5.8	1/2	60	47	21	1	4	Υ	Y
E139	Single	Non	230	1	5.8	1/2	60	48	22	2 or 3	4	Y	Υ
*H139	Single	Auto	200	1	6.2	1/2	60	48	22	1	4	Y	N
*1139	Single	Non	200	1	6.2	1/2	60	48	22	3	4	Y	N
*J139	Single	Non	200	3	2.6	1/2	60	50	23	3	4	Υ	Υ
*F139	Single	Non	230	3	2.6	1/2	60	48	22	3	4	Υ	Y
*G139	Single	Non	460	3	1.4	1/2	60	48	22	3	4	N	N

^{*} No molded plug

SELECTION GUIDE

- 1. Integral float-operated mechanical switch, no external control required.
- 2. For automatic, use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
- 3. See FM1228 for correct model of simplex control panel.
- 4. See FM0712 for correct model of duplex control panel or FM1663 for a residential alternator system.

▲ CAUTION All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

^{**} Single piggyback switch included

BE and BN models include a piggyback variable level pump switch.



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

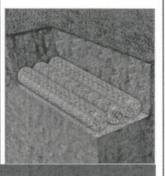


1003T-GEO 1303T-GEO 1203T-GEO 1403T-GEO





1203H-GEO

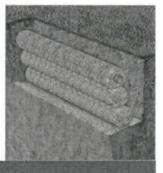


1206H-GEO 1402H-GEO 1303H-GEO 1802H-GEO



1002H-GEC

1002V-GEO 1006V-GEO 1003V-GEO 1202V-GEO 1004V-GEO



1203V-GEO 1206V-GEO 1204V-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.

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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-Riib is a trademark of PieX Inc.