Mitchell Environmental, P.A.

SEPTIC SYSTEM DESIGN

for

MAGNOLIA ACRES SUBDIVISION- LOT 8

Fuquay-Varina, Harnett County, North Carolina

Submitted to:

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

Prepared for:

HHHunt Homes 1401 Sunday Drive Suite 109 Raleigh, North Carolina 27607

Prepared by:

Adam Aycock, El

DATE: April 23, 2024 PROJECT NO.: 1823

PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes P.I.N. #: 0633-04-1225 D #: N/A

Address: Magnolia Acres Lane Subdiv: Magnolia Acres Lot#:

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: <u>0.300</u> gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1000 gals (min.) Sq. Foot: 1215 Stone Depth: N/A (EZ Flow)

Number of Taps: Length of Trenches: ft(See Tap Chart for Details) 4 **Varies**

Depth of Trenches: Manifold Length: see Harnett County permit 42 in

Manifold Diameter: Tap Configuration: 6 in spacing side(s) of manifold 4 in sch 80pvc (minimum) <u>1</u>

Supply Line: length: 200 ft Diameter: 2 in sch 40pvc

<u>4.58</u> Friction Loss + Fitting Loss: ft(supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft **Elevation Head:** 23.65 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: 40 ft

Orifice / Vent Hole Flowrate: Head Loss at Orifice / Vent Hole: 2.62 gpm 2.54 ft

Total Head: gals/min at 32.77 ft Pump to Deliver: 29.43 32.77 ft head

Dosing Volume: 173.75 gals.

Comments:

173.75 gals divided by gals/in = 9.65 inches Drawdown:

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

A septic tank filter, or equal is required.

Possible pumps: Hydromatic: Goulds: Myers: Other:

Zoeller: 140

TAP CHART

Bench Mark	0.00	is = 100.00	set at				Design Head:	2.0	
Pump tank elev.		19	81.00	Pump elev.	76.00		Manifold elev.	99.65	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1 & 2	nf & R	1.35	98.65	110	1/2in SCH 40	7.11	127.30	330	0.3857
3	Pink	3.95	96.05	80	1/2in SCH 80	5.48	98.11	240	0.4088
4	Red	5.32	94.68	105	1/2in SCH 40	7.11	127.30	315	0.4041
5	Yellow	7.50	92.50	110	1/2in SCH 40	7.11	127.30	330	0.3857
·		total	feet =	405	gal/min =	26.8		LTAR =	0.3000
% of Pipe Vol.		66		Des. Flow	480.00			(Itar + 5%)	0.3150
Dose Volume		173.75		Pump Run=	17.90			(Itar W/ Innov.)	0.4000
Dose Pump Time	•	6.48		Tank Gal/IN	18			(Itar + 5%)	0.4200
Drawdown in Inc	hes	9.65		Elev. Head	23.65				
Supply Line Leng	gth	200							

PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes **P.I.N. #:** 0633-04-1225 **D #:** N/A

Address: Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 8

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1000 gals (min.) Sq. Foot: 804 Stone Depth: N/A (Horizontal

Number of Taps: 4 Length of Trenches: 67 ft(See Tap Chart for Details) Panel Block)

Depth of Trenches: see Harnett County permit Manifold Length: 42 in

Manifold Diameter: 4 in sch 80pvc (minimum) Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 120 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.22 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft Elevation Head: 15.65 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: 42 ft

Orifice / Vent Hole Flowrate: 2.69 gpm Head Loss at Orifice / Vent Hole: 2.67 ft

Total Head: $\underline{22.54}$ ft Pump to Deliver: $\underline{24.61}$ gals/min at $\underline{22.54}$ ft head

Dosing Volume: 252.59 gals.

Drawdown: 252.59 gals divided by gals/in = $\frac{14.03}{}$ inches

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

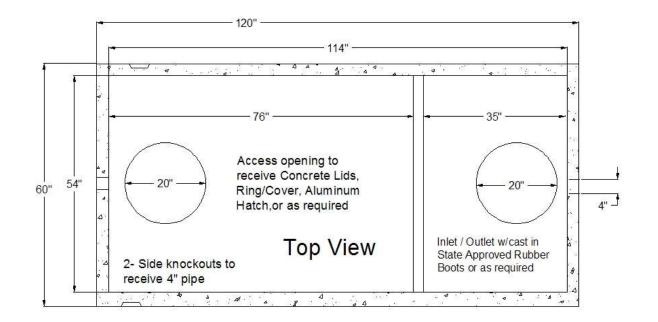
A septic tank filter, or equal is required.

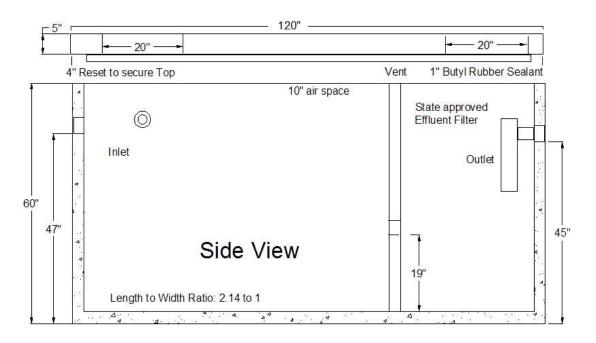
Possible pumps: Hydromatic: Goulds: Myers: Zoeller: 140 Other:

TAP CHART

Bench Mark	0.00	is = 100.00	set at				Design Head:	2.0	
Pump tank elev.		19	81.00	Pump elev.	76.00		Manifold elev.	91.65	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
6	Green	9.35	90.65	67	1/2in SCH 80	5.48	120.00	201	0.5970
7	Blue	11.45	88.55	67	1/2in SCH 80	5.48	120.00	201	0.5970
8	nf	13.55	86.45	67	1/2in SCH 80	5.48	120.00	201	0.5970
9	nf	15.60	84.40	67	1/2in SCH 80	5.48	120.00	201	0.5970
		total	feet =	268	gal/min =	21.9		LTAR =	0.3000
% of Pipe Vol.		145		Des. Flow	480.00			(Itar + 5%)	0.3150
Dose Volume		252.59		Pump Run=	21.90			(Itar W/ HPB)	0.6000
Dose Pump Time)	11.52		Tank Gal/IN	18			(Itar + 5%)	0.6300
Drawdown in Inc	hes	14.03		Elev. Head	15.65				
Supply Line Len	gth	120							

Comments: Lines 6-9 require 15 panels each, totaling 60 panels for the system.





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:

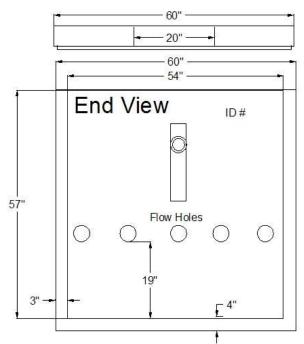


Eddie Garner, President 919-718-5181

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.

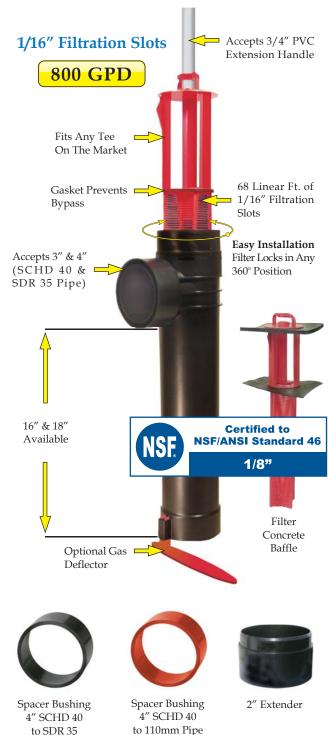
- 1. Do not use plumbing when filter is removed.
- 2. Pull PL-68 out of the tee.
- 3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
- 4. Insert filter back into tee/housing.

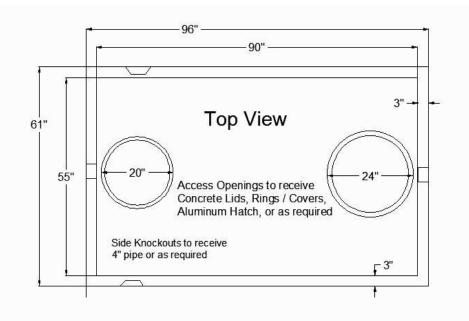
Related Products:

PL-68 Filter Concrete Baffle Extend & Lok $^{\text{TM}}$



Extend & LokTM
Easily installs
into existing tanks.





PT - 214

Date: 12-16-93 Non Traffic Rated

Liquid Capacity 1,028 Gallons

18 gals. per inch

Reinforcing Schedule: # 3 Grade 60 Rebar 4500 PSI Concrete w/ State Approved Structural Fiber

2 yds. Est Weight 8200 lbs

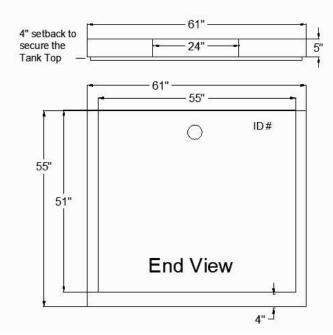
Manufactured By:

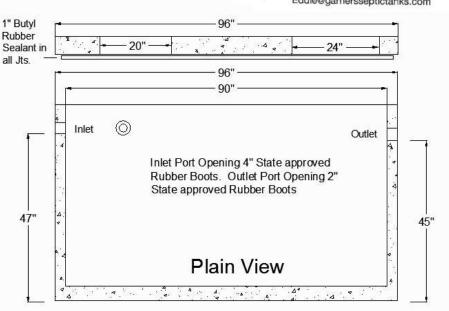


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ge, NC 28327 Fax 919-775-2229 Eddie@garnersseptictanks.com





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.

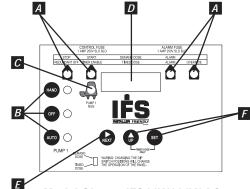
TOUCH PAD FEATURES

- A. Float Indicators illuminate when floats are activated. Alarm will activate if a float operates out of sequence.
- B. 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).
- E. NEXT Push Button toggles display.
- F. UP and SET Push Buttons set pump ON/OFF times (timed dose only).

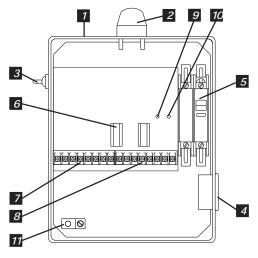
PANEL COMPONENTS

- 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.
- **4. Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
- Circuit Breaker (optional) provides pump disconnect and branch circuit protection.
- **6. 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
- 8. Incoming Control/Alarm Power & Pump Terminal Block
- 9. Control Power Indicator/Fuse indicator light illuminates if control power is present in panel. Alarm will activate if control fuse is blown.
- 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



Model Shown IFS11W114X8AC (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





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 15A
MODEL IFS
MODELTYPE ——
1 = SPLX TIMED DOSE (includes option 8AC standard) 2 = SPLX DEMAND DOSE (includes option 8AC standard)
ALARM PACKAGE
ENCLOSURE RATING ————————————————————————————————————
W = NEMA4X
STARTINGDEVICE ————————————————————————————————————
1 = 120/208/240 VAC
9 = 120 VAC
PUMP FULL LOAD AMPS —
1 = 7-15 FLA
2 = 15-20 FLA
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)
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 —
Note: Starting device, pump full load amps, cord length, and float type to be selected

<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		DESCRIPTION
\vdash	1 J Duo alarm inputs		NEMA 4X remote alarm panel
<u> </u>	3A Alarm flasher	[TT]	(must select option 6A)
	3B Manual reset alarm		Control / Alarm circuit breaker
	4A Redundant off (select option 4D if floats are required)		10' cord in lieu of 20' (per float)
	Demand Dose	16B	15' cord in lieu of 20' (per float)
_	Timed Dose	16C	30' cord in lieu of 20' (per float)
	4D Redundant off float	16D	40' cord in lieu of 20' (per float)
	6A Auxiliary alarm contacts, form C	17C	Sensor Float [®] / internally weighted ▲ (per float)
V	8AC Display board includes: ETM counter, events (cycles)	17D	Sensor Float [®] / externally weighted ▲ (per float)
	counter, alarm counter, and override counter (timed dose	17G	MilliAmpMaster™/ pipe clamp ● (per float)
	only). (Included as standard.)	17H	MilliAmpMaster™/ externally weighted ● (per float)
\mathbf{X}	10E Lockable latch - NEMA 4X	17J	Sensor Float [®] / pipe clamp ▲ (per float)
\mathbf{X}	10F Lightning arrestor (must select pump circuit breaker,	18A	Timer override option with float (timed dose only)
	control and alarm power combined)		
	10K Anti-condensation heater		■ Mechanically-activated
	11C NEMA 1 remote alarm panel		
	(must select option 6A)		
	,		
SZ	AMPLE		
0,			
	MODEL IFS 1 1 W 9 1	4	8 <i>AC</i> 10E17 <i>G</i>
	Model Type — T	\top	·
	Alarm Package —		
	Enclosure Rating————		
	Starting Device —		
	Pump Piggennests		
	Pump Disconnects — Switch Application — Switch Appl		
	Oniton Application		

Options: Display, Lockable Latch,-SJE MilliAmpMaster™/pipe clamp Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



SECTION: 2.15.070 FM2783 0617 Supersedes 0417

TECHNICAL DATA SHEET

FLOW-MATE SERIES

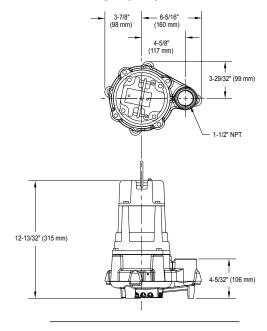
Models 140/4140, 145/4145 Effluent / Dewatering Pumps

PRODUCT SPECIFICATIONS

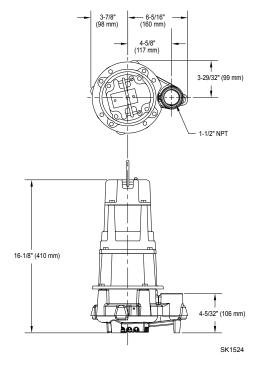
	Horse Power	3/4 - 1
	Voltage	115 or 230
~	Phase	1 Ph
2	Hertz	60 Hz
MOTOR	RPM	3450
≥	Туре	Permanent split capacitor
	Insulation	Class B
	Amps	6.0 - 13.0
	Operation	Automatic or nonautomatic
	Discharge Size	1-1/2" NPT
	Solids Handling	1/2" (12 mm), 3/4" (19 mm) spherical solids
	Cord Length	20' (6 m)
PUMP	Cord Type	UL listed, neoprene cord
<u>></u>	Max. Head	50' (15.2 m) or 74' (22.6 m)
	Max. Flow Rate	86 GPM (326 LPM) or 61 GPM (232 LPM)
	Max. Operating Temp.	130 °F (54 °C)
	Cooling	Oil filled
	Motor Protection	Auto reset thermal overload
	Сар	Cast iron
	Motor Housing	Cast iron
	Pump Housing	Cast iron
10	Base	Cast iron
ַבַ י	Upper Bearing	Sleeve bearing
₹	Lower Bearing	Ball bearing
H	Mechanical Seals	Carbon and ceramic
MATERIALS	Impeller Type	Single vane (145) or non-clogging vortex (140)
	Impeller	Engineered thermoplastic
	Hardware	Stainless steel
	Motor Shaft	JIS S45C steel
	Gasket	Neoprene

NOTE: See model comparison chart for specific details.

SINGLE SEAL



DOUBLE SEAL





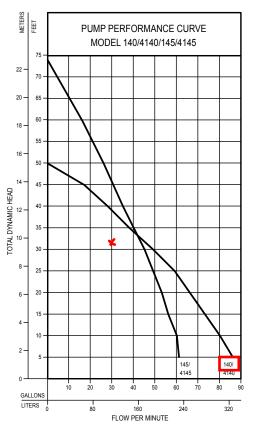






TOTAL DYNAMIC HEAD FLOW PER MINUTE

MO	DEL	140/-	4140	145/-	4145	
Feet	Meters	Gal.	Liters	Gal.	Liters	
5	1.5	86	326	61	232	
10	3.0	80	303	60	228	
15	4.6	73	276	56	213	
20	6.1	66	250	53	201	
25	7.6	59	223	49	186	
30	9.1	49	185	45	171	
40	12.2	28	106	35	133	
50	15.2			26	99	
60	18.3	-	-	16	61	
Shut-off Head:		50 ft.(<i>1</i>	15.2m)	74 ft.(22.6m)		



150090

MODEL COMPARISON Model Seal Mode Volts Ph Amps HP Hz Lbs Kg Simplex **Duplex** N140 Single Non 115 12.0 60 46 21 1 or 2 3 21 E140 Single Non 230 1 6.0 60 46 1 or 2 3 BN140 115 1 12.0 60 47 21 Single Auto BE140 Auto 47 21 Single 230 1 6.0 60 E145 Single Non 230 1 6.0 3/4 60 46 21 1 or 2 3 N145 Single Non 115 13.0 3/4 60 46 21 1 or 2 3 BN145 Single Auto 115 13.0 3/4 60 48 22 N4140 115 Double Non 1 60 65 29 E4140 Non 230 60 65 29 Double 1 6.0 1 1 or 2 3 BN4140 Double Auto 115 1 12.0 1 60 66 30 ---BE4140 Double Auto 230 1 6.0 1 60 66 30 ---N4145 Double Non 115 1 13.0 3/4 60 64 29 1 or 2 3 BN4145 Double Auto 115 13.0 3/4 60 64 29

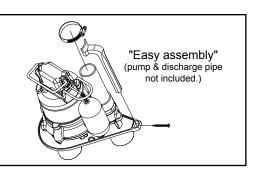
BN and BE models include a 20' (6 m) piggyback variable level pump switch. Additional cord lengths are available in 15' (5 m), 25' (8 m), 35' (11 m) and 50' (15 m). 50' (15 m) cord length is for 230 V only.

SELECTION GUIDE

- 1. For automatic, use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
- 2. See FM1228 for correct model of simplex control panel.
- 3. See FM0712 for correct model of duplex control panel.

OPTIONAL PUMP STAND P/N 10-2421

- Reduces potential clogging by debris
- · Replaces rocks or bricks under the pump
- Made of durable, noncorrosive ABS
- Raises pump 2" (5 cm) off bottom of basin
- Provides the ability to raise intake by adding sections of 1-1/2" or 2" (DN40 or DN50) PVC piping
- Attaches securely to pump
- Accommodates sump, dewatering and effluent applications NOTE: Make sure float is free from obstruction.



▲ 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.



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.

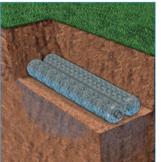
Single Bundle

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



1402H-GEO

1802H-GEO

1206H-GEO 1303H-GEO



Vertical Bundles

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



1203V-GEO 1206V-GEO 1204V-GEO 1402V-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
- 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 aggregrate.

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

(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.

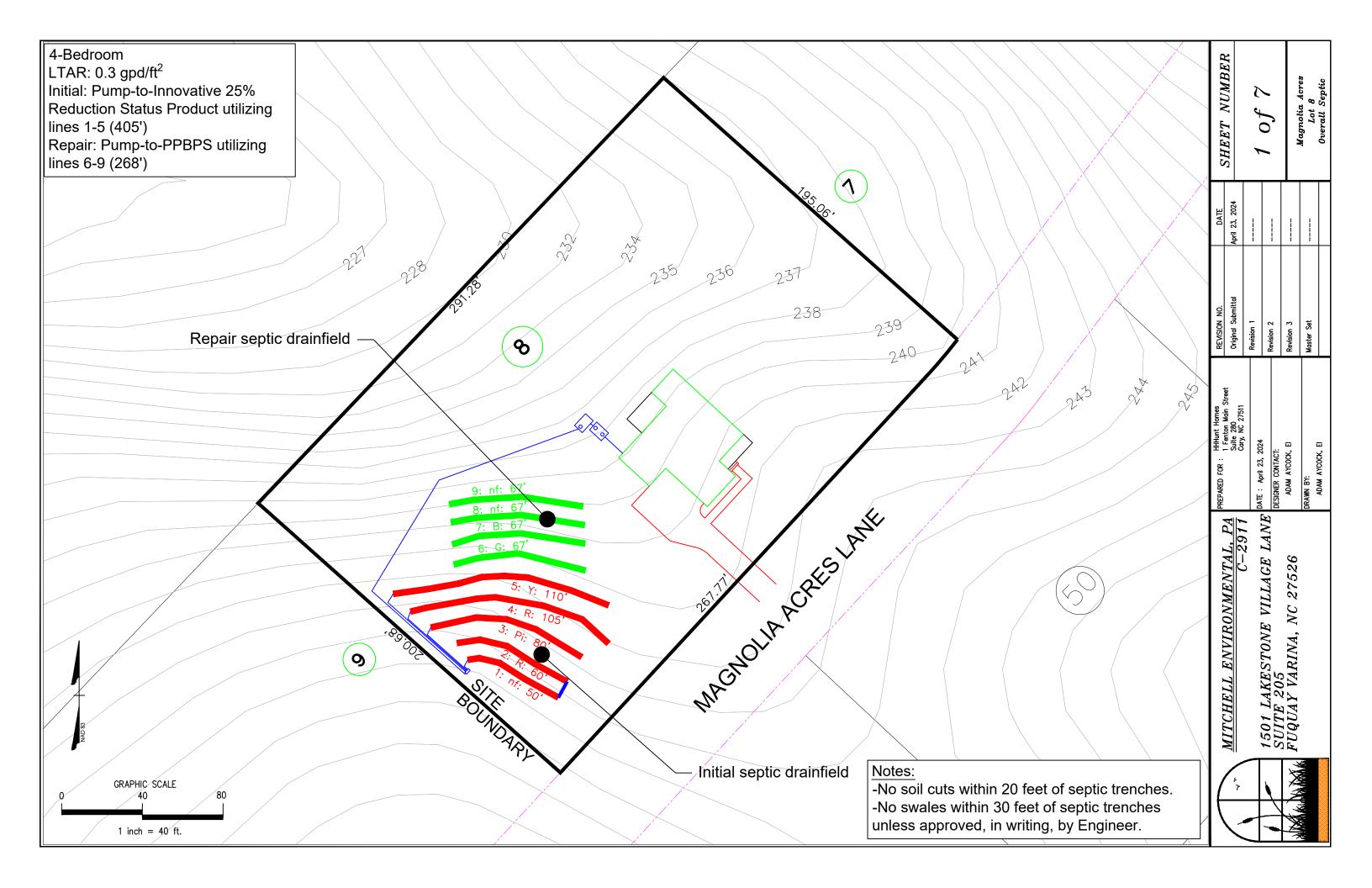
The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of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

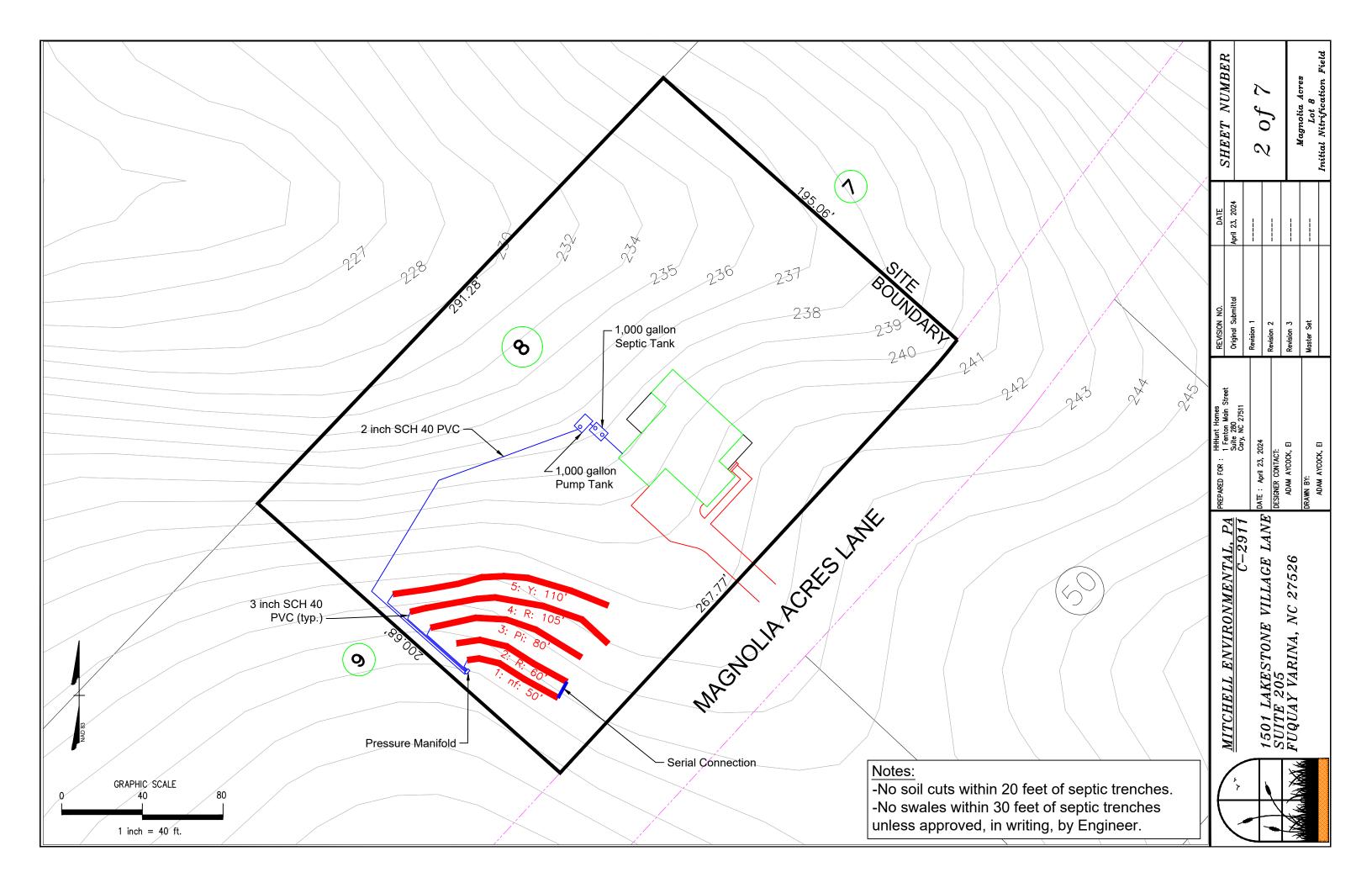


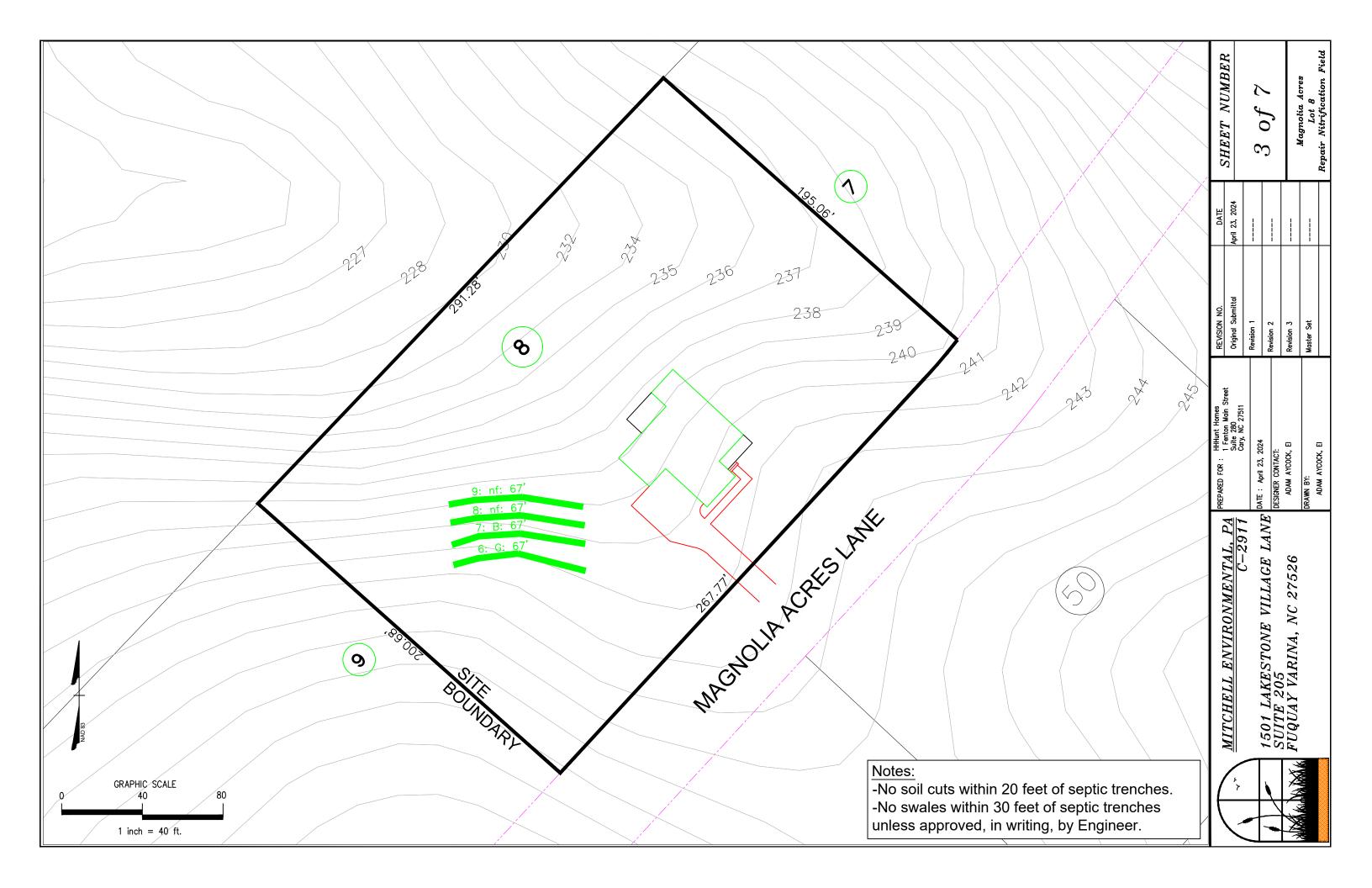
4 Business Park Road P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 • Fax 860-577-7001 1-800-221-4436

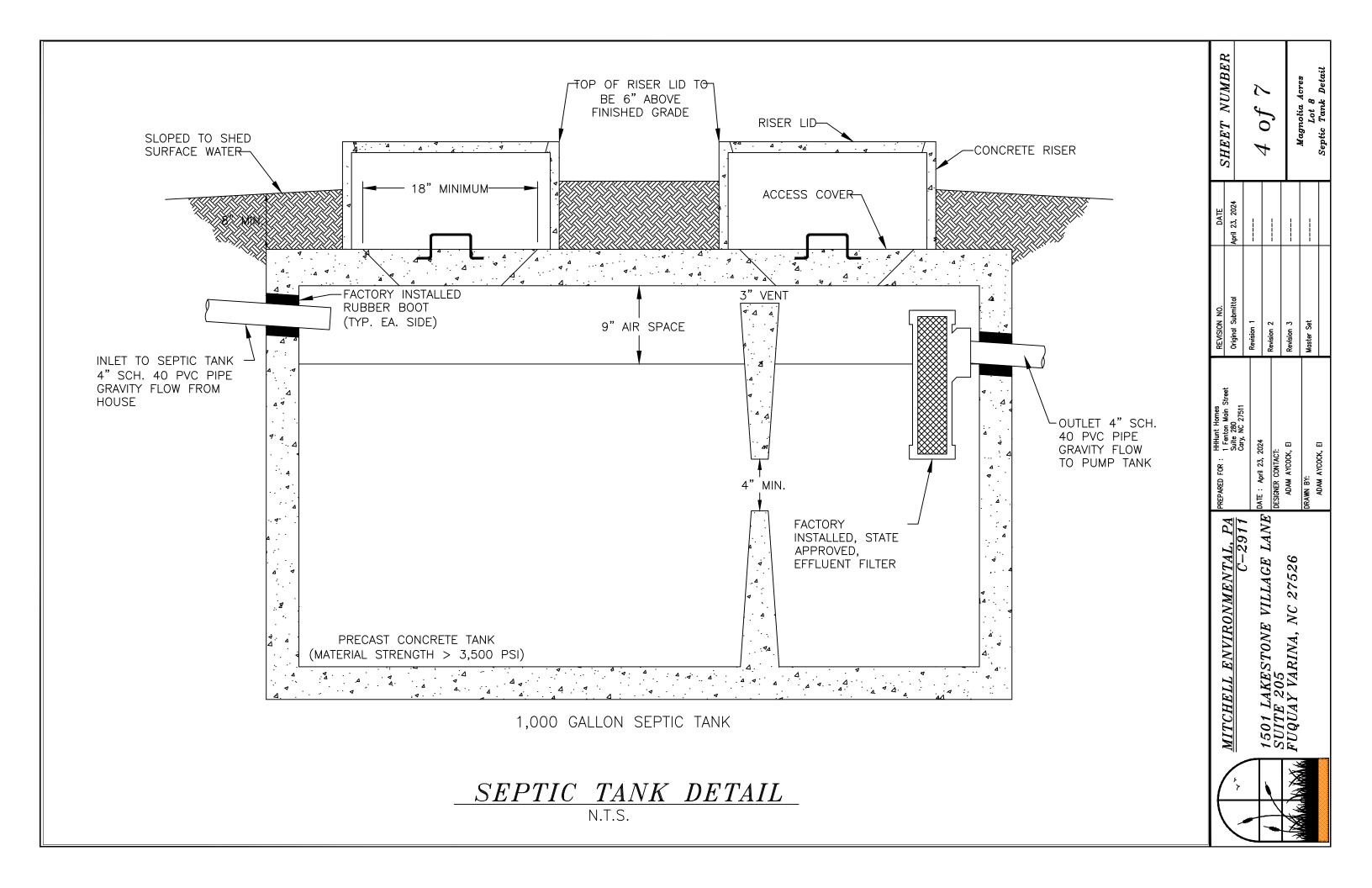
www.infiltratorwater.com

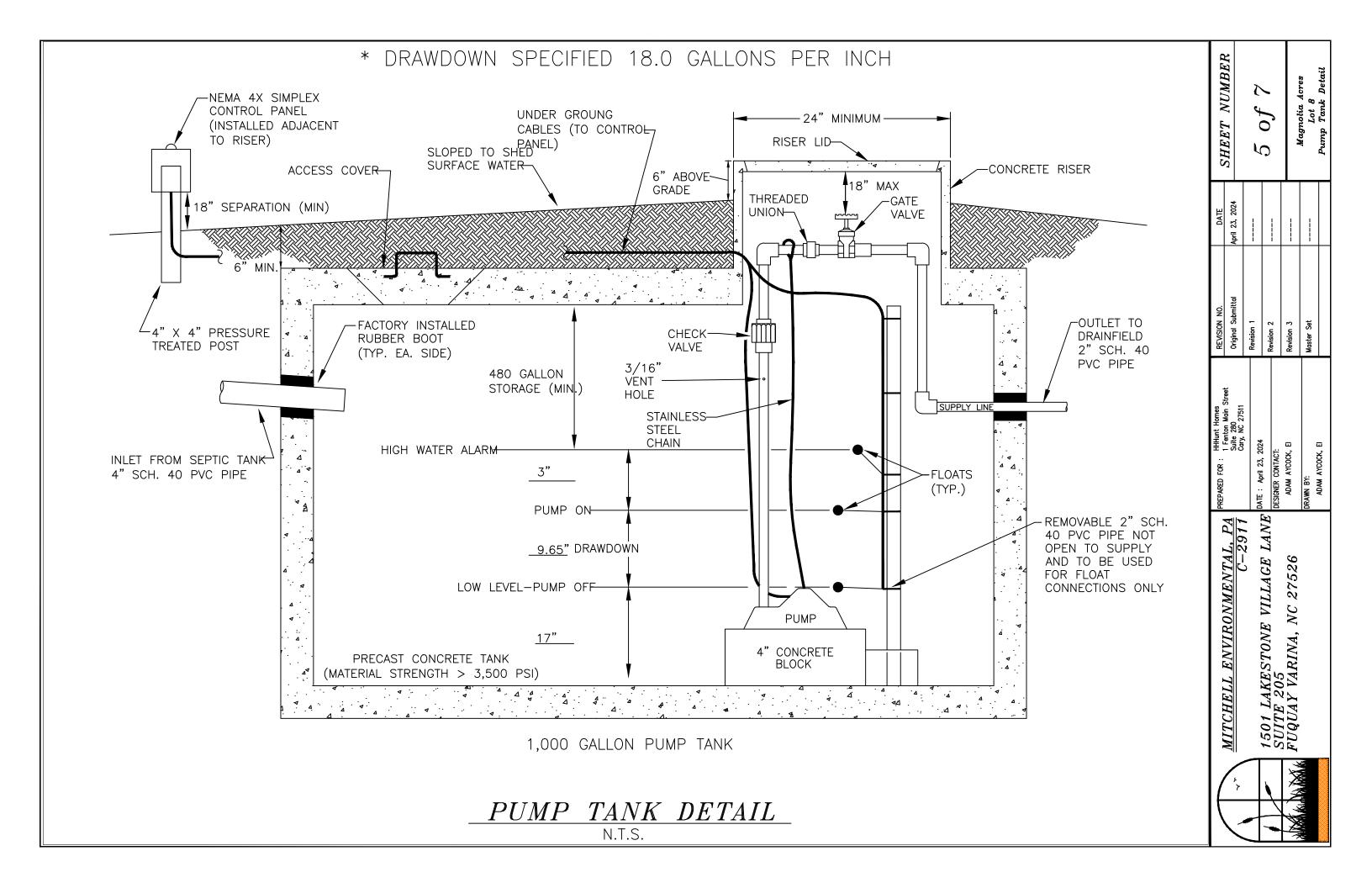
U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator 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.











PRESSURE MANIFOLD DETAIL FOR MAGNOLIA ACRES LOT 8 INITIAL SEPTIC SYSTEM N.T.S.

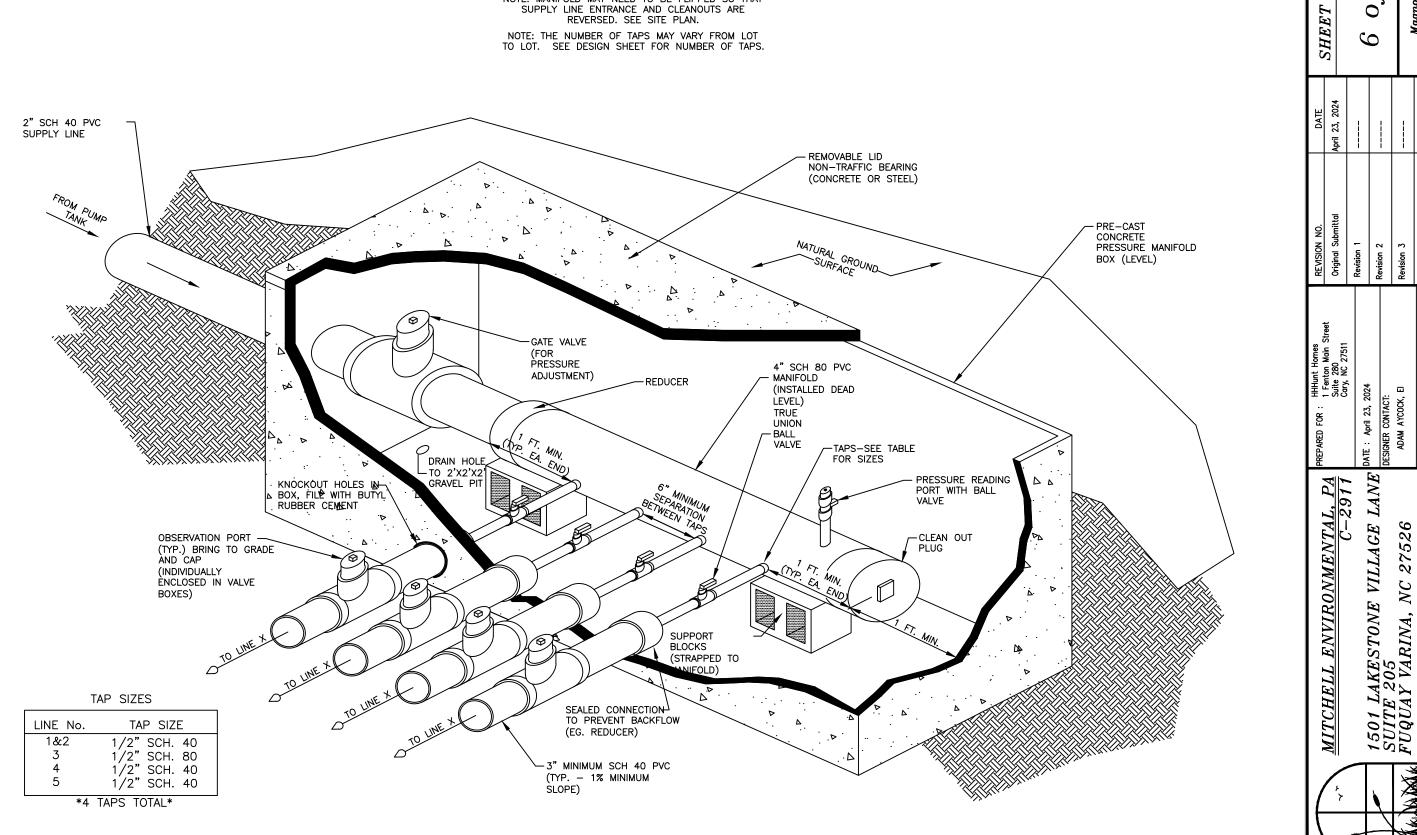
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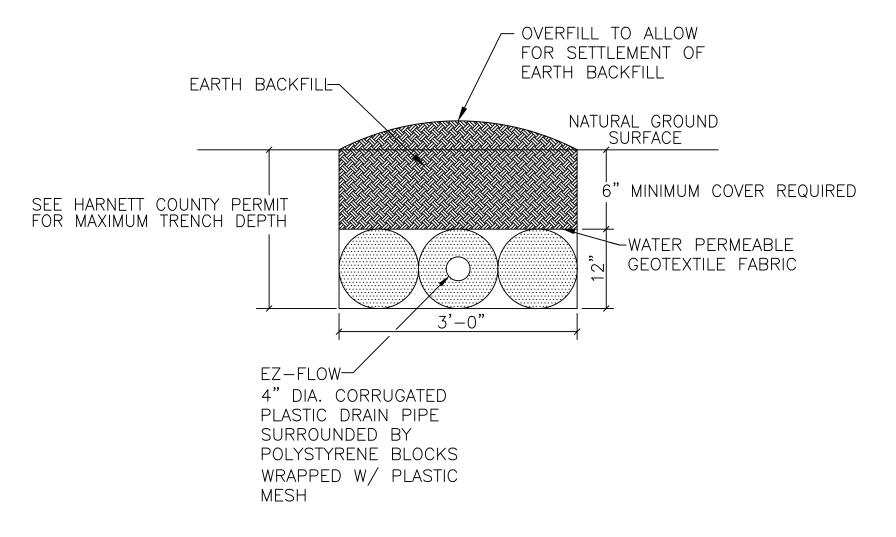
NOTE: MANIFOLD MAY NEED TO BE FLIPPED SO THAT SUPPLY LINE ENTRANCE AND CLEANOUTS ARE REVERSED. SEE SITE PLAN.

NOTE: THE NUMBER OF TAPS MAY VARY FROM LOT TO LOT. SEE DESIGN SHEET FOR NUMBER OF TAPS.



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.

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	\\ \\	MITCHELL ENVIRONMENTAL, PA	Surfe 280	Original Submittal	April 23, 2024	SHEEL WUMBER	
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4			DATE : April 23, 2024	Revision 1		7 40 7	
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1	ŽŽ	FUQUAY VARINA, NC 27526	ADAM AYCOCK, El	Revision 3			
W. (1)	OF CAMPONIA		DRAWN BY:	Master Set		magriotia Acres Lot 8	
			ADAM AYCOCK, EI			Trench Detail	