

**Subsurface Wastewater Disposal System Design Packet** 

BRIARWOOD BLUFF LOT 28 64 Pine Vista Way

Sanford NC 27332 PIN: 9588-75-0293

3/31/25

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# PAC-ONE, PLLC

\_\_\_\_\_

## **Subsurface Wastewater Disposal System Design Packet**

Date: 3/31/25

Proposed for a:

3 -bedroom residential dwelling

Located at:

#### **64 PINE VISTA WAY SANFORD NC 27332**

**DESIGNED BY:** 

**Steve Bristow** 

920 Garner Rd, Selma NC 27576

Email: stevebristow57@gmail.com

Phone: (919)906-4737

#### Session Law 2022-11 (S372) Introduction Letter

This information contained within this packet concerns a soils and subsurface wastewater evaluation conducted by:

#### Stephen W. Bristow (LSS#1167) of Permit Acquisition Company – One, PLLC

for the property hereafter described as:

#### **64 PINE VISTA WAY SANFORD NC 27332**

at the behest	of:				
Owner Print:	Smith Do	ouglas Ho	mes		
Owner Signa	ture:	Wil	I Smith		
Owner's Repr	esentative	(if any):	Will Smith		
Date:	3/31/	25			
	<del></del>		<b>1</b> 6		

The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S 130A-335(a2) and (a3).

The plans or evaluations attached to this application are to be used to issue a Construction Authorization Permit in accordance with G.S. 130A-335 (a2), (a5), and (a6).

The LSS Evaluation is being submitted pursuant to, and meets the requirements, of G.S. 130A-335(a2).





**ROY COOPER • Governor** 

KODY H. KINSLEY • Secretary

MARK BENTON • Chief Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

#### **Application for Services**

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submitted in accordance with G.S. 130A-335(a2), (a3), and (a5). [hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for:  (a2) Improvement Permit (a2) Construction Author	ization (a2) Repair/Construction Authorization
If applying for a Construction Authorization, please indicate desire  Accepted Conventional Innovative Other	d system type(s):
■ New Construction	iring Permit Requested (plat provided, defined in G.S.130A-334(7a)
Applicant: Smith Douglas Homes	<sub>Owner:</sub> Smith Douglas Homes
Mailing Address: 3412 Apex Peakway	Mailing Address: 3412 Apex Peakway
	Willing Address.
City: Apex	City: Apex
City:         Apex           State:         NC           Zip:         27502	State: NC Zip: 27502
Phone #:	Phone #:
Email:	Email:
Liliali.	Lilidii.
If the answer to any of the following questions is "yes", applican	at must attach supporting documentation.
Yes No Does the site contain any jurisdictional v	
I = = = ::	d on the site other than domestic sewage?
Yes No Is the site subject to approval by any otl	
Yes No Are there any easements or right of way	
I understand that the documentation and fees, as required in G.s are to be used to issue an Improvement Permit and/or Construct I understand that authorized county and state officials are grant conduct necessary inspections to determine compliance with ap the application for an Improvements Permit and/or Construction then the Improvement Permit and Construction Authorization s	tion Authorization pursuant to G.S. 130A-335(a2),(a3), and (a5). ed right of entry to the property indicated on this application to policable laws and rules. <i>I understand that if the information in an Authorization is falsified, changed, or the site is altered, shall become invalid.</i>
Applicant Signature:	Date: 3/31/25
Owner's Signature:	Date:

NCDHHS/DPH/EHS/OSWP Revised January 2024

Permit/File #:	



**ROY COOPER •** Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Chief Deputy Secretary for Health

**SUSAN KANSAGRA** • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authorization	Fee \$
	IMPROVEM	ENT PERMIT FOR G.S. 130A-335	(a2)
County: Harnett			
PIN/Lot Identifier: 958	38-75-0293		
Issued To: Smith Do			
Property Location: 64	PINE VISTA WAY SAN	FORD NC 27332	
Subdivision (if applicable	BRIARWOOD BLUFF	Lot #: LOT 28	Block: Section:
LSS Report Provided: Ye			
If yes, name and license	number of LSS: Stephen W Bri	istow # 1167	
New 🔳		System Relocation	Change of Use
Facility Type: SFD			
Number of bedrooms:	$\frac{3}{2}$ Number of Occupants: $\frac{6}{2}$	Other:	
Design Wastewater Stre		High Strength Industria	
		Proposed LTAR (Initial): <u>.40</u> Pr	
Proposed Wastewater S	ystem Type*: IIIb	(Initial) Pump Req	uired: Yes No May be required
Proposed Wastewater S	ystem Type*: IIIb	(Repair) Pump Req	uired: 🔳 Yes 🗌 No 🔲 May be required
*Please include system o	classification for proposed wastew	ater system types in accordance with Rule	.1301 Table XXXII
Effluent Standard:	DSE HSE NSF/ANSI 40	☐ TS-I ☐ TS-II ☐ RCW	
Saprolite System (Initial)	: ☐ Yes ■ No Saprolite	System (Repair): 🗌 Yes 🔳 No	
Fill System (Initial): Y	es 🔳 No If yes, specify: 🗌 Nev	v 🔲 Existing (when adding more than 6	inches of fill to system area provide a fill plan)
Fill System (Repair):	Yes ■ No If yes, specify: ☐ Ne	w 🔲 Existing (when adding more than 6	inches of fill to system area provide a fill plan)
Usable Depth to LC (Initi	ial) <sup>x</sup> : <u>48</u>	Usable Depth to LC (Repair) $^{x}$ :	× Limiting Condition
			Measured on the downhill side of the trench
Artificial Drainage Requi	red: 🗌 Yes 🔳 No If yes, please	e specify details:	
Type of Water Supply:	Private well Public well	Shared well • Municipal Supply	☐ Spring         ☐ Other:
Drainfield location meet	s requirements of Rule .0508: Yes	No Drainfield location meets r	requirements of Rule .0601: Yes 🔳 No 🗌
Permit valid for: Five	years [site plan submitted pursua	nt to GS 130A-334(13a)] No expiration	n [plat submitted pursuant to GS 130A-334(7a)
Chamber product is spec	<i>i</i>	-919-906-4737 product can be used as a direct replacement. any State approved 1000g concrete tanks can b	e used as a direct replacement for the 1060
Licensed Soil Scientist Pr	rint Name: Steve Bristow #1167		To SUIL NO
Licensed Soil Scientist Si	gnature: _ Sten Bister		Date: 3/31/25



Permit/File #:
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## This Section for Local Health Department Use Only

Initial submittal received	d: Date	by 	
G.S. 130A-335(a3) states the following:			
When an applicant for an Improvement Permit submits to a local health of department, the common form developed by the Department, and a soil of within five business days of receiving the application, conduct a complete Permit includes all of the required components. If the local health depart shall notify the applicant of the components needed to complete the Improvement to cure the deficiencies in the Improvement Permit. The local is complete within five business days after the local health department react within any period set out in this subsection, the applicant may treat the common form for use as the Improvement Permit.	evaluation pursuant to subse ness review of the submittal ment determines that the Im rovement Permit. The applic health department shall ma ceives the additional inform	ection (a2) of this section, the local heal I. A determination of completeness mea provement Permit is incomplete, the loc ant may submit additional information like a final determination as to whether ation from the applicant. If the local hea	th department shall, ins that the Improvement cal health department to the local health the Improvement Permit alth department fails to
The review for completeness of this Improvement Permit of Permit is determined to be:	was conducted in acco	rdance with G.S. 130A-335(a3).	This Improvement
☐ Incomplete (If box is checked, information in this secti	on is required.)		
The following items are missing:			
9/3// 13	1 6	121	
Copies of this were sent to the LSS and the Applicant on	Date		
State Authorized Agent:		Date:	
☐ Complete			
State Authorized Agent:		Date:	
This Improvement Permit is issued pursuant to G.S. 130A attached here. The issuance of this permit in no way gua for checking with appropriate governing bodies in meeting blat, or the intended use changes. The Improvement Permit is subject to compliance with the provisions of 150. The Department, the Department's authorized agents, an any liabilities, duties, and responsibilities imposed by state evaluations, submittals, or actions from a licensed soil scientification.	rantees the issuance of their requirements. mit shall not be affect A NCAC 18E and to the odd the local health deptute or in common lavientist or licensed geometric controls.	of other permits. The permit had This permit is subject to revocate ed by a change in ownership of e conditions of this permit. eartments shall be discharged as w from any claim arising out of	older is responsible ation if the site plan, if the site. This and released from or attributed to

\*See attached site sketch\*



Permit/File #:
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## **Re-submittal of Improvement Permit**

ı				$\neg$
	LHD USE ONLY: This IP resubmittal received:	Date	by	
The following it	tems are being resubmitted pursuant to G.S. 130A-335	(a3) for issuance	of the Improvement Permit:	
	THE STA	ATF O	All the second	
is accurate and	hereby attest that Scientist (Print Name) complete to the best of my knowledge and that the polar laws, regulations, rules, and ordinances.		required to be included with ement Permit meets all applic	
Signature	e of Licensed Soil Scientist		Date	
LHD Follow-u	The section below is for Local Health Department use on the completeness Review of Improvement Pe		items noted as missing above.	
	completeness of this Improvement Permit re-submitta ermit is determined to be:	al was conducted	in accordance with G.S. 130/	4-335(a3). This
	(If box is checked, information in this section is requirems are missing:	red.)		
Copies of this w	ere sent to the LSS and the Applicant on			
	Date d Agent:		Date:	
☐ Complete				
State Authorized	d Agent:		Date:	



Permit/File #:
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#### CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County: Harnett			Pre-Construction Conference Required: Yes ■ No □	
PIN/Lot Identifier: 9588-75-0293		293		
Issued To: Sm	ith Douglas H	lomes		
			ANFORD NC 27332	
AOWE/PE Plans,	/Evaluations Provid	ed: Yes 🔳 No 🗌	If yes, name and license number of AOWE/PE: Steve Bristow # 100	12E
Facility Type: S	FD			
Number of bedr	ooms: 3 Nu	mber of Occupants	s: <u>6</u> Other:	
■ New	☐ Expansion	Repair	System Relocation Change of Use	
Basement?	Yes	■ No	Basement Fixtures?	
Crawl Space?	Yes	■ No	Slab Foundation? ■ Yes	
Type of Wastew	rater System* <u>IIIb</u>		(Initial) <u>IIIb</u>	(Repair)
		n for proposed was	stewater system types in accordance with Rule .1301 Table XXXII	
Design Daily Flo	w: <u>360</u>	GPD W	Vastewater Strength: Domestic High Strength Industri	ial Process WW
	.4-120 Section 53, E covide engineering o		Utilizing Low-flow Fixtures and Low-flow Technologies?	
Effluent Standar	rd: 🔳 DSE 🔲 I	HSE NSF/ANS	SI 40 TS-I TS-II RCW	
Type of Water S	upply: 🔲 Private w	vell Public we	ell 🔲 Shared well 🔳 Municipal Supply 🔲 Spring 🔲 Other:	
Installation Req	uirements/Condition	<u>ons</u>		
Septic Tank Size	. 1060 gallor	ns Total Trench/E	Bed Length: 270 feet Trench/Bed Spacing: 9 feet on center	
Trench/Bed Wid	Ith: 36 inche	es LTAR: .40	gpd/ft <sup>2</sup> Usable Depth to LC (Initial) <sup>x</sup> : 48 x <b>Li</b> i	miting condition
Soil Cover: 6/21	_inches Slope	Corrected Maximu	um Trench/Bed Depth‡: <u>33</u> inches * Measured on the downhill sid	le of the trench
Pump Tank Size	(if applicable): 10	60 gallons	Requires more than 1 pump?  Yes No	
Pump Requirem	ents: 11.24 ft. TD	H vs. 27.4 GPM	Grease Trap Size (if applicable): gallons	
Distribution Met	thod: 🗌 Serial	D-Box or Paralle	el ■ Pressure Manifold(s) □ LPP □ Other:	
Artificial Drainag	ge Required: Yes	No ■ If yes, p	please specify details:	
Legal Agreemen	nts (If the answer is	"Yes" to any type o	of legal agreements, please attach a copy of the agreement.)	
Multi-party Agre	eement Required [.0	0204(g)]:	■ No Declaration of Restrictive Covenants: Yes	■ No
			t Required [.0301(b)]: Yes 🔳 No	
Management Er	ntity Required: 🔲	Yes 🔳 No Minir	mum O&M Requirements:	
Permit condit				
	meeting to change that is specified by this p		tion-919-906-4737 Flow product can be used as a direct replacement.	
The 1060 Infiltrat	<u>`</u>		ver, any State approved 1000g concrete tanks can be used as a direct replacement f	or the 1060
Infiltrator tanks.				
The requiremen	SHE OF LEA NICAC 101	E are incorporated	I by reference into this permit and shall be met. Systems shall be installed	d in accordance

with the attached site sketch. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance Certification Number 10012E with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

AOWE/PE Print Name: Steve Bristow 10012E Date: \_3/31/25

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

\*See attached site sketch\*



Permit/File #:	Permit/File #:	
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## This Section for Local Health Department Use Only

	Initial submittal received:	<u>-</u>	by
		Date	Initials
G.S. 130A-335(a5) states the fol	•		
Improvement Permit and Construction A Department, and any necessary signed a engineer or a person certified pursuant department shall, within five business of the Construction Authorization or Improduction of the components needed to additional information to the local health Authorization. The local health department fails to act within any perior apply for the building permit for the produthorization by the local health department fails to act within the produthorization by the local health departicensed engineer submitting the evaluation and the produthorization or Improvement Permit and engineer, the local health department sengineer, the local health department sengineer.	Authorization application together, the part sealed plans or evaluations conduct to Article 5 of Chapter 90A of the Generally of receiving the application, conduct vement Permit and Construction Authorization or Improvement Permit and Corcomplete the Construction Authorization hadepartment to cure the deficiencies in ent shall make a final determination as siness days after the local health depart diect upon the decision of completeness of ment or if the local health department for if the local health department for or the decision of completeness of the local health department for cause.	ermit fee charged by the ed by a person licensed pal Statutes as an Authoriz a completeness review of ization includes all of the istruction Authorization in or Improvement Permit the Construction Author to whether the Gallure to if the Construction Author the Construction Author the Construction Author the Construction Author is the Construction Author the Construction Author is the Construction Author is the Local health Upon written request of Authorization or Improve	rization together, submits a Construction Authorization, or an a local health department, the common form developed by the sursuant to Chapter 89C of the General Statutes as a licensed seed On-Site Wastewater Evaluator, the local health of the submittal. A determination of completeness means that a required components. If the local health department is incomplete, the local health department shall notify the and Construction Authorization. The applicant may submit sization or Improvement Permit and Construction from Authorization or Improvement Permit and Construction act as a determination of completeness. The applicant may prization or Improvement Permit and Construction interest days. The Authorized On-Site Wastewater Evaluator or the department revoke or suspend the Construction of the Authorized On-Site Wastewater Evaluator or licensed ement Permit and Construction pursuant to G.S.
The review for completeness of	this Construction Authorization	was conducted in a	ccordance with G.S. 130A-335(a5). This
Construction Authorization is de	etermined to be:		
☐ Incomplete (If box is checke	ed, information in this section is	required.)	
The following items are missing			
Copies of this were sent to the	AOWE/PE and the Applicant on	Date	MY / Q / B
State Authorized Agent:			Date:
70	(The Persons		
☐ Complete			
State Authorized Agent:	W XV	4 12 17	Date of Issuance:
attached here. This Construction Construction Authorization shat to compliance with the provision The Department, the Department, the Department in the Judgment in the General Statutes as a license Authorized On-Site Wastewate agents, and the local health depobligations under State law or	In Authorization is subject to re Il not be affected by a change in ons of the Laws and Rules for Se ent's authorized agents, and the onsibilities imposed by statute of tion conference findings, submited ed engineer or a person certifier r Evaluator in GS 130A-335(a2),	vocation if the site of ownership of the ewage Treatment are local health departor in common law frittals, or actions from the department to Article (a5), and (a7). The and bear liability for the operations permits of the common spermits of the common specific	using the signed and sealed plans or evaluations plan, plat, or the intended use changes. The site. This Construction Authorization is subject and Disposal and to the conditions of this permit.  It ments shall be discharged and released from rom any claim arising out of or attributed to an a person licensed pursuant to Chapter 89C of the 5 of Chapter 90A of the General Statutes as an Department, the Department's authorized or their actions and evaluations and other ait pursuant to GS 130A-337.
construction Authorization Exp			



Permit/File #:	
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#### **Re-submittal of Construction Authorization**

	LHD USE ONLY: This CA resubmittal received:		by		
The following in	tems are being resubmitted pursuant to G.S. 130A-335	Date 5(a5) for issuance	of the Constr	Initials ruction Authorization	on:
	THE STA	ATE	M		
is accurate and	hereby attest that nsite Wastewater Evaluator (Print Name) complete to the best of my knowledge and that the pand local laws, regulations, rules, and ordinances.				
Signatur	re of Authorized On-Site Wastewater Evaluator		Date		
LHD Follow-u	The section below is for Local Health Department use up Completeness Review of Construction Au		items noted as	s missing above.	
	completeness of this Construction Authorization re-su on Authorization is determined to be:	ıbmittal was conc	ducted in acco	ordance with G.S. 1	.30A-335(a5).
☐ Incomplete (	(If box is checked, information in this section is require	ed.)			
The following it	ems are missing:				
	QUAN	V AIDE	49		
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date	<u> </u>		
State Authorize	d Agent:		D	Oate:	
☐ Complete					
State Authorize	ed Agent:		D	oate:	



Permit/File #:
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#### ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL



Permit #:
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#### **Re-submittal of Construction Authorization**

	LHD USE ONLY: T	This CA resubmittal received: _	Date	by Initials	
The following i	tems are being resubn	nitted pursuant to G.S. 130A-33	35(a5) for issuance of	of the Construction Authoriz	zation:
is accurate and		of my knowledge and that the ions, rules, and ordinances.		equired to be included with	
Signatui	re of Authorized On-Site Wo	astewater Evaluator		Date	
I HD Follow-i		is for Local Health Department us  Review of Construction A		ems noted as missing above.	
The review for	01 54 1	Construction Authorization re-s		ucted in accordance with G.	S. 130A-335(a5).
☐ Incomplete	(If box is checked, info	ormation in this section is requ	ired.)		
The following it	ems are missing:				
		SSE OUA	M VIDER	19	
Copies of this w	vere sent to the AOW	E/PE and the Applicant on	Date	-	
State Authorize	d Agent:			Date:	
☐ Complete					
State Authorize	ed Agent:			Date:	

	Page	1	of	
PROPERTY ID #:	9588-75-0293			
COUNTY:	Harnett			

# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM (Complete all fields in full)

DWNER: Smith Douglas Homes DATE EVALUATED: 3/20/25											
ADDRESS: 3214 Apex Peakway Dr. Apex, NC, 27539  PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.0400): 360 gpd PROPERTY SIZE: .645ac											
LOCATION OF SITE: 64 Pine Vista Way Sanford NC Briarwood Bluff S/D Lot 28 PROPERTY RECORDED: yes											
WATER SUPPLY: ☑Public ☐Single Family Well ☐Shared Well ☐Spring ☐ Other WATER SUPPLY SETBACK: na									a		
EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Domestic High Strength IPWW											
P R O F I			SOIL MO	RPHOL	OGY	OTHE	R PROFII	LE FACTO	ORS		
L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	.0503 STRUCTURE/ TEXTURE	CONSI	0503 STENCE/ RALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
	Ridge Top	30	GR/SL	VFR/NS	NP/SEXP	10YR 4/4	48+			Suitable	.72in
İ	2%	48	SBK/SCL	FR/SS/	SP/SEXP	5YR4/6				.45	
1											
	Ridge Top	6	GR/SL	VFR/NS	NP/SEXP	10YR 2/2	48+			Suitable	.72in
	2%	15	GR/SL	VFR/NS/NP/SEXP		10YR 4/4				.40	
2		46	SBK/SCL	FR/SS/SP/SEXP		5YR4/6					
		48	SBK/SCL	FR/SS/	SP/SEXP	5YR 4/6 w/					
			· -			Cr 2 Drain Mottles					
	Ridge Top	16	GR/SL	VFR/NS	S/NP/SEXP	10YR4/4	48+			Suitable	.72in
	Ridge Top 2%	48	SBK/SCL	FR/SS/	SP/SEXP	7.5YR4/6				.40	
3											
											-
4											
<b> </b>											
				1				l	l .		
	ESCRIPTION	INITIAL SYS		YSTEM						=	
	le Space (.0508)	YES	YES		SITE CLAS	SIFICATION (	.0509):	<u>.</u>	50I	500	
System Site LT	Type(s)	.40	.40		OTHER(S)	ED BY: Stephen V PRESENT:	IN SISSOW LSS 116	<u>"</u> //	3/3/3		
Maximu	ım Trench Depth	33	33		( )			([	<b>三(6)</b>		
	ents: MTD Controlled by Pr		e mottles at 46in					//			
OF MORTE CR											
Sten Butan											
	Men Pular										

#### **LEGEND**

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)		MINERALOGY/ CONSISTENCE		
CC (Concave slope)		S (Sand)		0.6 - 0.8		MOIST	WET	SG (Single grain)	
CV (Convex Slope)	ı	LS (Loamy sand)	0.8 - 1.2	0.5 -0.7	0.4 -0.6	Lo (Loose)	NS (Non-sticky)	M (Massive)	
D (Drainage way)	п	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6		VFR (Very friable)	SS (Slightly sticky)	GR (Granular)	
FP (Flood plain)		L (Loam)				FR (Friable)	S (Sticky)	SBK (Subangular blocky)	
FS (Foot slope)		SiL (Silt loam)		0.1 - 0.3		FI (Firm)	VS (Very sticky)	ABK (Angular blocky)	
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)	
L (Linear Slope)	Ш	CL (Clay loam)	0.3 - 0.6		0.15 - 0.3	EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)	
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)		
R (Ridge/summit)		Si (Silt)		None			VP (Very plastic)		
S (Shoulder slope)		SC (Sandy clay)				SEXP (Slightly	SEXP (Slightly expansive)		
T (Terrace)	IV	SiC (Silty clay)	0.1 - 0.4		0.05 - 0.2	EXP (Exp	ansive)		
TS (Toe Slope)		C (Clay)						,	
		O (Organic)	None						

HORIZON DEPTH In inches below natural soil surface DEPTH OF FILL In inches from land surface

RESTRICTIVE HORIZON Thickness and depth from land surface

SAPROLITE

S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

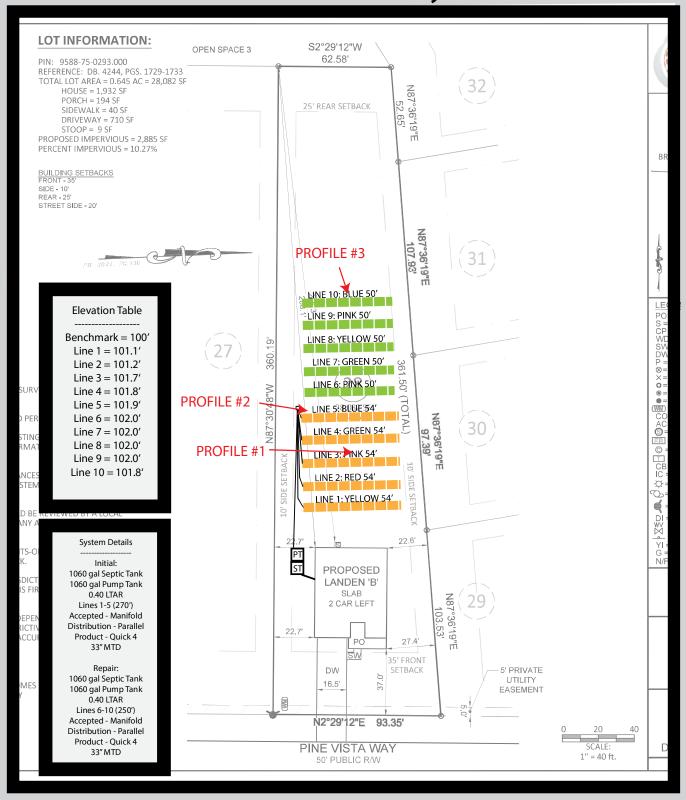
Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation SOIL WETNESS

CLASSIFICATION S (Suitable) or U (Unsuitable)

CATION	S (Suitable	e) or U (Unsur now profile loc	table) <b>ations and ot</b>	her site f	eatures	(dimer	nsions, r	eferei	ice or	benchi	nark, a	nd N	orth)				
									_						$\dashv$	$\dashv$	
					+				-		+				-	+	-
									-						-	-	
					-						-				_	_	
					+						+					_	
					+				-		+				+	+	_
					-						+				-	+	-
					+				_	_	-				_	_	_
																_	

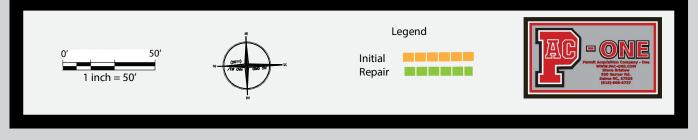
NCDHHS/DPH/EHS/OSWP Revised January 2024

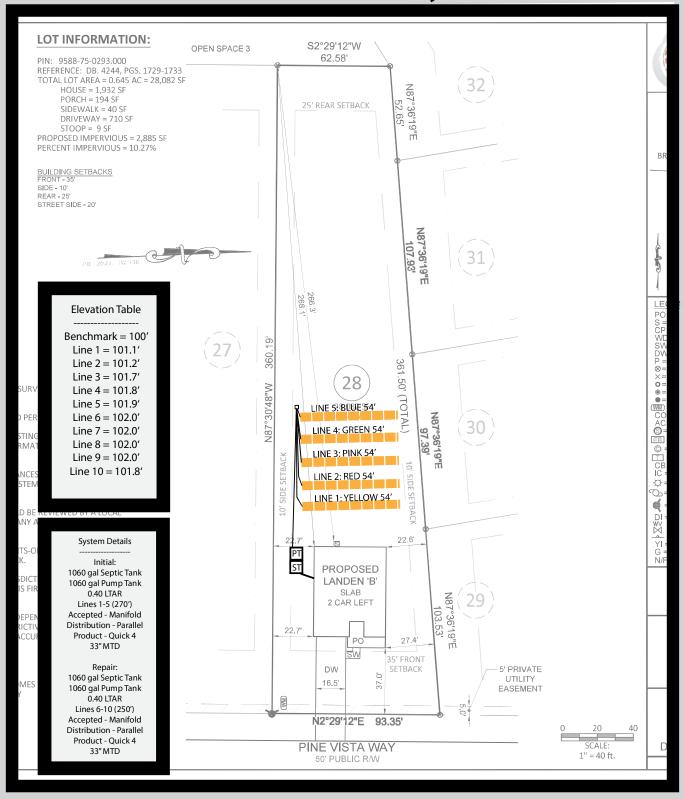
<sup>\*</sup> Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.
\*\*Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

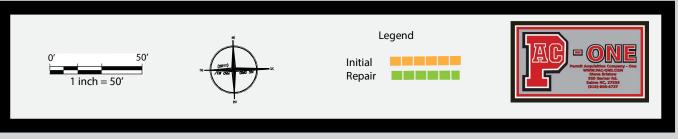


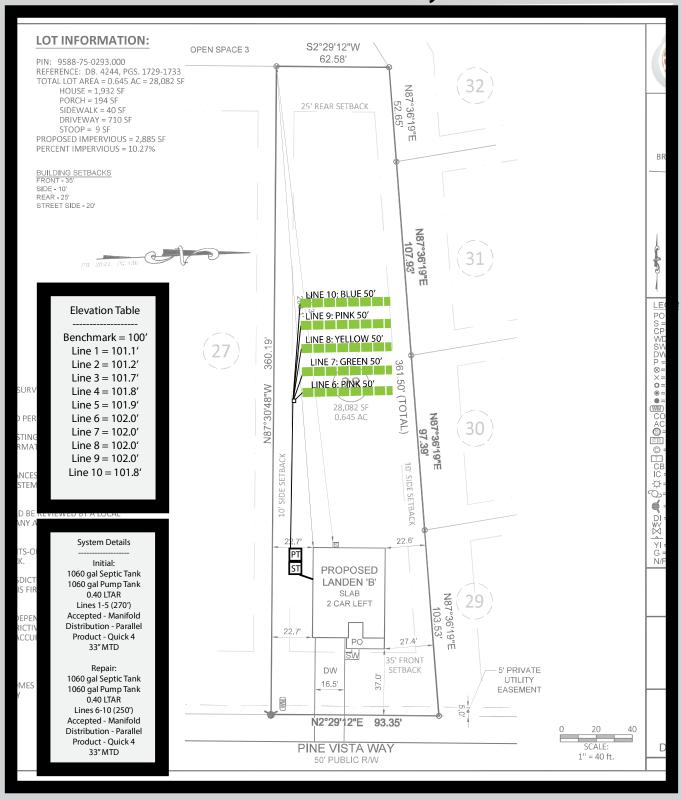














# System Overview ☑ Initial □ Repair

Briarwood Bluff Lot 28

	<b>~</b> · · ·
Design	· Criteria

Number of Bedrooms	3	_
Design Flow	360	gal/day
Soil L.T.A.R.	.40	gal/day/sq ft

#### **System Details**

Trench Depth	33	inches
Total Trench Length	270	feet
Manifold Length	48	inches
Manifold Diameter	4in s	ch 80pvc
Supply Line Length	40	feet
Design Head	2.0	feet
Elevation Head	7.3	feet
Total Design Head	11.24	feet
Dose Volume	123	gallons
% Pipe Volume	70	
Drawdown	6.1	inches
Pump Run Time	13.14	minutes

#### **System Components**

Trench Product	Chamber
Septic Tank	1060 gal
Pump Tank	1060 gal
Effluent Filter	Polylok PL-68 (or approved equivalent)
Effluent Pump	Zoeller Dose Mate Model 151/152/153 (or approved equivalent)
Control Panel	SJE Rhombus Model 112 panel (or approved equivalent)

#### **RESIDENTIAL PRESSURE MANIFOLD DESIGN**

Permit # Briarwood Bluff Lot 28

# of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.4000 gal/day/sq.ft

Number of Taps:  $\underline{5}$  Length of Trenches:  $\underline{270}$  ft(See Tap Chart for Details)

Depth of Trenches: 33 in Manifold Length: 48 in

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

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

Friction Loss + Fitting Loss: 1.94 ft(supply line length + 70' for fittings in pump tank)

Design Head:  $\underline{2}$  ft Elevation Head:  $\underline{7.30}$  ft

Total Head: 11.24 ft Pump to Deliver: 27.40 gals/min at 11.24 ft head

Dosing Volume: <u>123</u> gals,

Drawdown: 123 gals divided by  $\underline{20}$  gals/in =  $\underline{6.1}$  inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

**TAP CHART** 

Benchmark	4.8	is = 100.00	set at Lot 29/30 b	ack corner			Design Head:	2			
Pump tank elev.		5	99.80	Pump elev.	94.80		Manifold elev.	102.10			
			<b>F</b> 1	1	1			4		# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
1	Yellow	3.70	101.10	54	1/2in SCH 80	5.48	72.00	162	0.4444		
2	Red	3.60	101.20	54	1/2in SCH 80	5.48	72.00	162	0.4444		
3	Pink	3.10	101.70	54	1/2in SCH 80	5.48	72.00	162	0.4444		
4	Green	3.00	101.80	54	1/2in SCH 80	5.48	72.00	162	0.4444		
5	Blue	2.90	101.90	54	1/2in SCH 80	5.48	72.00	162	0.4444		
			104.80			0	0.00	0	#DIV/0!		
			104.80			0	0.00	0	#DIV/0!		
			104.80			0	0.00	0	#DIV/0!		
			104.80			0	0.00	0	#DIV/0!		
			104.80			0	0.00	0	#DIV/0!		
			Total Feet =	270	gal/min =	27.40		LTAR =	0.4000		
			Feet Required =	225	Velocity =	2.62		(Itar + 5%)	0.4200		
Total # of Panels (P	PBPS)			Des. Flow	360			(Itar w/25% red)	0.5333		
% of Dose Vol.		70		Pump Run=	13.14			(Itar + 5%)	0.5600		
Dose Volume		123		Tank Gal/IN	20						
Dose Pump Time		4.48		Elev. Head	7.30						
Drawdown in Inche	s	6.1									
Comments:											

# System Overview ☐ Initial ☐ Repair

Briarwood Bluff Lot 28

**Design Criteria** 

Number of Bedrooms	3	_
Design Flow	360	gal/day
Soil L.T.A.R.	0.40	gal/day/sq ft

**System Details** 

otom botano		
Trench Depth	33	inches
Total Trench Length	250	feet
Manifold Length	48	inches
Manifold Diameter	4in s	ch 80pvc
Supply Line Length	80	feet
Design Head	2.0	feet
Elevation Head	8.2	feet
Total Design Head	12.85	feet
Dose Volume	114	gallons
% Pipe Volume	70	
Drawdown	5.7	inches
Pump Run Time	13.14	minutes

#### **System Components**

Trench Product	Chamber
Septic Tank	1060 gal
Pump Tank	1060 gal
Effluent Filter	Polylok PL-68 (or approved equivalent)
Effluent Pump	Zoeller Dose Mate Model 151/152/153 (or approved equivalent)
Control Panel	SJE Rhombus Model 112 panel (or approved equivalent)

#### PRESSURE MANIFOLD DESIGN - REPAIR SYSTEM

# of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.4000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 750 System Type: Accepted or 1060

Number of Taps:  $\underline{5}$  Length of Trenches:  $\underline{250}$  ft(See Tap Chart for Details)

Depth of Trenches: 33 in Manifold Length: 48 in

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

Supply Line: length: 80 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.65 ft(supply line length + 70' for fittings in pump tank)

Design Head:  $\underline{2}$  ft Elevation Head:  $\underline{8.20}$  ft

Total Head: 12.85 ft Pump to Deliver: 27.40 gals/min at 12.85 ft head

Dosing Volume:  $\underline{114}$  gals,

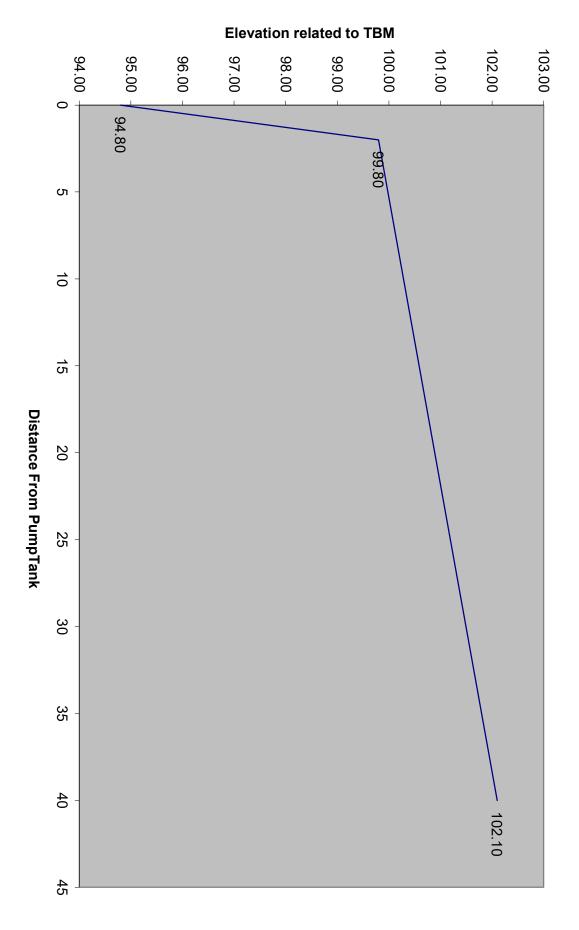
Drawdown: 114 gals divided by  $\underline{20}$  gals/in =  $\underline{5.7}$  inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

#### **TAP CHART**

Benchmark	4.8	is = 100.00	set at Lot 29/30 b	ack corner			Design Head:	2			Change in
Pump tank elev.		<u>5</u>	99.80	Pump elev.	94.80		Manifold elev.	103.00		# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
6	Pink	2.80	102.00	50	1/2in SCH 80	5.48	72.00	150	0.4800		
7	Green	2.80	102.00	50	1/2in SCH 80	5.48	72.00	150	0.4800		
8	Yellow	2.80	102.00	50	1/2in SCH 80	5.48	72.00	150	0.4800		
9	Pink	2.80	102.00	50	1/2in SCH 80	5.48	72.00	150	0.4800		
10	Blue	3.00	101.80	50	1/2in SCH 80	5.48	72.00	150	0.4800		
			104.80			0	0.00	0	#DIV/0!		
			104.80			0	0.00	0	#DIV/0!		
			104.80			0	0.00	0	#DIV/0!		
			104.80			0	0.00	0	#DIV/0!		
			104.80			0	0.00	0	#DIV/0!		
			Total Feet =	250	gal/min =	27.40		LTAR =	0.4000		
			Feet Required =	225	Velocity =	2.62		(Itar + 5%)	0.4200		
Total # of Panels	(PPBPS)			Des. Flow	<u>360</u>			(Itar w/25% red)	0.5333		
% of Dose Vol.		70		Pump Run=	13.14			(Itar + 5%)	0.5600		
Dose Volume		114		Tank Gal/IN	<u>20</u>						
Dose Pump Time		4.15		Elev. Head	8.20						
Drawdown in Inch	nes	5.7									
Comments:											







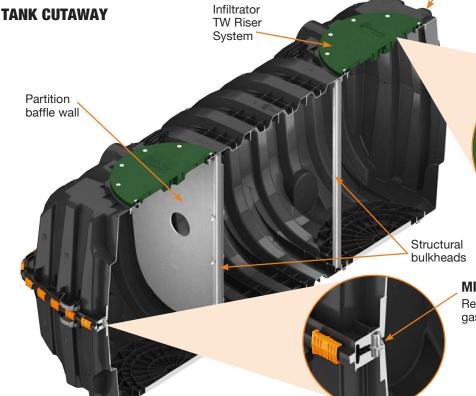


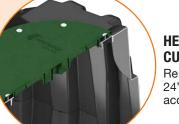


The Infiltrator IM-1060 is a lightweight strong and durable septic tank. This watertight tank design is offered with Infiltrator's line of custom-fit risers and heavy-duty lids. Infiltrator injection molded tanks provide a revolutionary improvement in plastic septic tank design, offering long-term exceptional strength and watertightness.

#### **Features & Benefits**

- Strong injection molded polypropylene construction
- Lightweight plastic construction and inboard lifting lugs allow for easy delivery and handling
- Integral heavy-duty green lids that interconnect with TW<sup>™</sup> risers and pipe riser solutions
- Structurally reinforced access ports eliminate distortion during installation and pump-outs
- Reinforced structural ribbing and fiberglass bulkheads offer additional strength
- Can be installed with 6" to 48" of cover
- Can be pumped dry during pump-outs
- Suitable for use as a septic tank, pump tank, or rainwater (non-potable) tank
- No special water filling requirements are necessary
- The tank may be backfilled with suitable native soil. See installation instructions for guidance.





# HEAVY DUTY LID CUTAWAY

Reinforced 24" structural access port

#### **MID-SEAM CUTAWAY**

Inlet Side

Reinforced water tight mid-seam gasketed connection



Protecting the Environment with **Innovative Wastewater Treatment Solutions** 

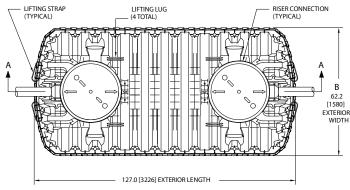
#### **IM-1060 General Specifications and Illustrations**

The IM-1060 is an injection molded two piece mid-seam plastic tank. The IM-1060 injection molded plastic design allows for a mid-seam joint that has precise dimensions for accepting an engineered EPDM gasket. Infiltrator's gasket design utilizes technology from the water industry to deliver proven means of maintaining a watertight seal. The two-piece design is permanently fastened using a series of non-corrosive plastic alignment dowels and locking seam clips. The IM-1060 is assembled and sold through a network of certified Infiltrator distributors.

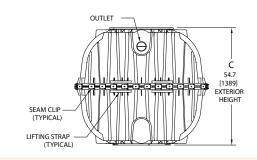
Must be backfilled and installed in accordance with Infiltrator Water Technologies, Infiltrator IM-Series Septic Tank General Installation Instructions and for shallow ground water conditions reference the Infiltrator IM-Series Tank Buoyancy Control Guidance.

Please visit www.infiltratorwater.com/images/pdf/ ManualsGuides/TANK01.pdf for the latest information.

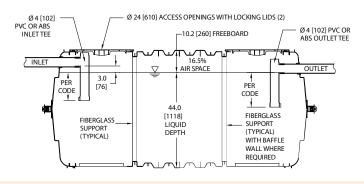
IM-1060	
Working Capacity	1094 gal (4141 L)
Total Capacity	1287 gal (4872 L)
Airspace	16.5%
Length	127" (3226 mm)
Width	62.2" (1580 mm)
Length-to-Width Ratio	2.3 to 1
Height	54.7" (1389 mm)
Liquid Level	44" (1118 mm)
Invert Drop	3" (76 mm)
Fiberglass Supports	2
Compartments	1 or 2
Maximum Burial Depth	48" (1219 mm)
Minimum Burial Depth	6" (152 mm)
Maximum Pipe Diameter	6" (152 mm)
Weight	320 lbs (145 kg)



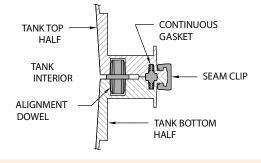
#### **TOP VIEW**



#### **END VIEW**



#### **SIDE VIEW**



#### **MID-HEIGHT SEAM SECTION**



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

1-800-221-4436 www.infiltratorswater.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, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.

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



**SECTION: 2.15.080** FM2784 1017 Supersedes 0315

# TECHNICAL DATA SHEET

## **DOSE-MATE SERIES**

Models 151, 152, 153 Effluent Pumps

#### **PRODUCT SPECIFICATIONS**

	Horse Power	1/3 (151), 4/10 (152), 1/2 (153)			
	Voltage	115 or 230			
Œ	Phase	1 Ph			
MOTOR	Hertz	60 Hz			
	RPM	3450			
	Туре	Permanent split capacitor			
	Insulation	Class B			
	Amps	3.0 - 10.5			
	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	CordType	UL listed power cord			
)	Max. Head	44' (13.4 m)			
	Max. Flow Rate	77 GPM (291 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			
Ŋ	Base	Plastic or cast iron			
AL	Upper Bearing	Sleeve bearing			
R	Lower Bearing	Ball bearing			
Щ	Mechanical Seals	Carbon and ceramic			
MATERIALS	Impeller Type	Non-clogging vortex			
_	Impeller	Engineered thermoplastic			
	Hardware	Stainless steel			
	Motor Shaft	AISI 1215 steel			
	Gasket	Neoprene			

NOTE: The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles or dosing timers with nonautomatic pumps.

NOTE: See model comparison chart for specific details.

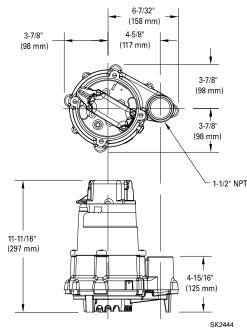
# C US Tested to UL Standard UL778 and Certified to CSA Standard CSA22.2 No. 108



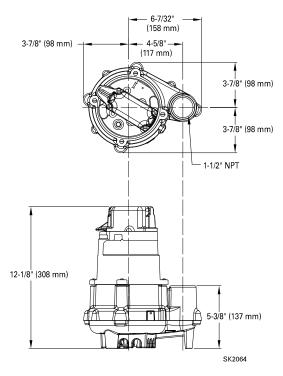




#### **MODEL 151**

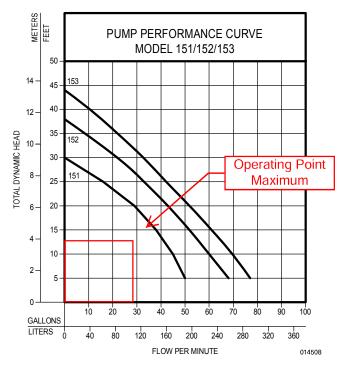


#### **MODELS 152 & 153**



# TOTAL DYNAMIC HEAD FLOW PER MINUTE

MODEL			151	1:	52	153		
Feet	Meters	Gal.	Liters	Gal.	Liters	Gal.	Liters	
5	1.5	50	189	69	261	77	291	
10	3.0	45	170	61	231	70	265	
15	4.6	38	144	53	201	61	231	
20	6.1	29	110	44	167	52	197	
25	7.6	16	61	34	129	42	159	
30	9.1			23	87	33	125	
35	10.7					22	85	
40	12.2					11	42	
Shut-o	Shut-off Head: 30 ft. (9.1m) 38 ft. (11.6m) 44 ft. (		13.4m)					



N/II - I	MODEL COMPARISON											
Model	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs	Kg	Simplex	Duplex	
N151	Single	Non	115	1	6.0	1/3	60	32	15	1	2 or 3	
E151	Single	Non	230	1	3.0	1/3	60	32	15	1	2 or 3	
BN151	Single	Auto	115	1	6.0	1/3	60	33	15	*	2 or 3	
BE151	Single	Auto	230	1	3.0	1/3	60	33	15	*	2 or 3	
N152	Single	Non	115	1	8.5	4/10	60	37	17	1	2 or 3	
E152	Single	Non	230	1	4.3	4/10	60	37	17	1	2 or 3	
BN152	Single	Auto	115	1	8.5	4/10	60	39	18	*	2 or 3	
BE152	Single	Non	230	1	4.3	4/10	60	39	18	*	2 or 3	
N153	Single	Non	115	1	10.5	1/2	60	37	17			
BN153	Single	Auto	115	1	10.5	1/2	60	39	18	*	2 or 3	
E153	Single	Non	230	1	5.3	1/2	60	37	17	1	2 or 3	
BE153	Single	Non	230	1	5.3	1/2	60	39	18	*	2 or 3	

<sup>\*</sup>BN and BE models include a 20' (6 m) piggyback variable level pump switch. Additional cord lengths are available in 25' (8 m) and 35' (11 m). 50' (15 m) cords are available for 230 V units only.

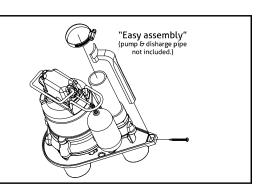
NOTE: Model 151 has a plastic base. Models 152 & 153 have a cast iron base.

#### **SELECTION GUIDE**

- 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 1½" 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).



#### 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:**

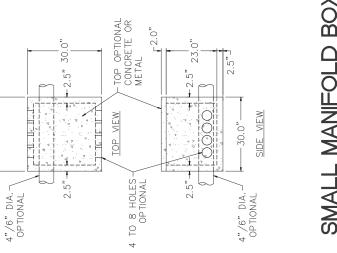
PL-68 Filter Concrete Baffle Extend & Lok<sup>TM</sup>



Extend & Lok™
Easily installs
into existing tanks.

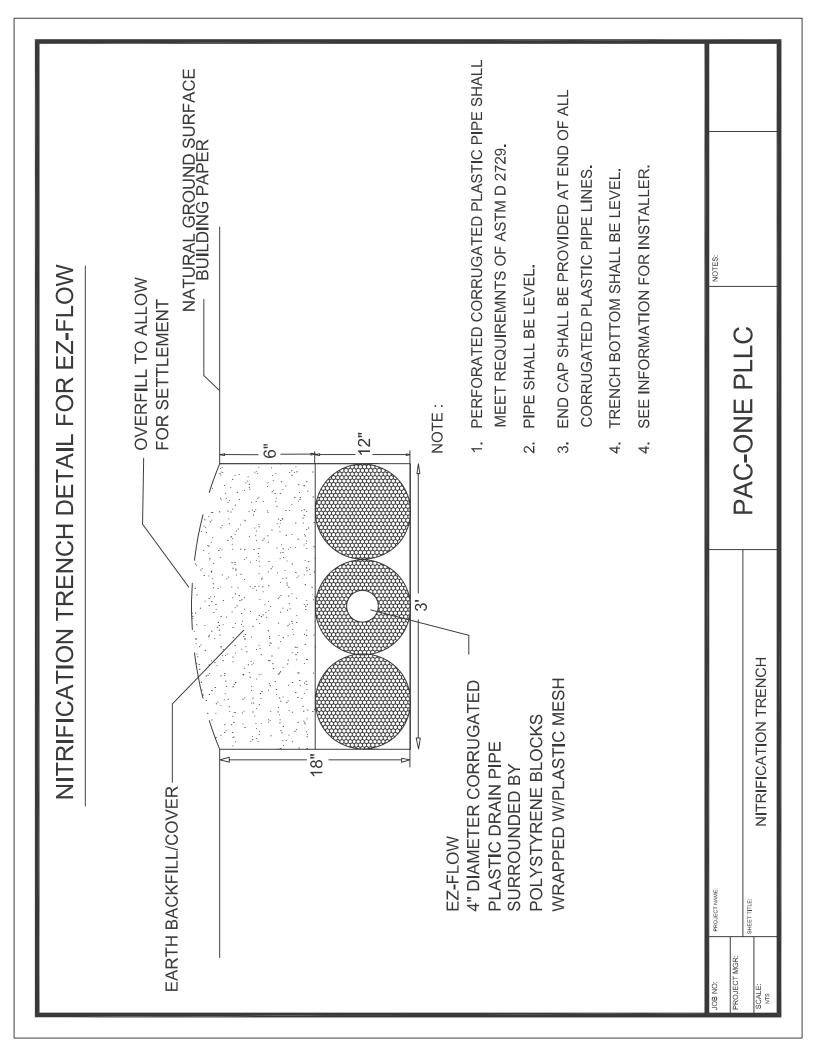


1.10.1				linstaller•gmail.com
l îo l		Master Set		
SHEET NUMBER		Revision 3	COBY BRANTEY	€443-673-0443
		Revision 2	CONTACT:	Office 252-478-3721
MANIFOLD BOX			DATE: April 11, 2014	Zebulon, NC 27597
TTAMS		Revision 1	Zepnjou' NC 3/297	37 Pine Ridge Rd.
	April 11, 2014	Original Submittal	57 Pine Ridge Rd.	SNOS % ATTINUM BIAVO
BRANTLEY TANK MODEL	JTAQ	REVISION NO.	PREPARED FOR: David Brantley & Sons	SHOS VALIBITION UNIVE



-30.0"-

# SMALL MANIFOLD BOX



# **MODEL 112 Control Panel**

#### Single phase, simplex motor contactor control.

The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.

#### PANEL COMPONENTS

- Enclosure measures 8 x 8 x 4 inches (20.32 X 20.32 X 10.16 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
  - \* Options selected may increase enclosure size and change component layout.
- 2. Magnetic Motor Contactor controls pump by switching electrical lines.
- 3. HOA Switch for manual pump control (mounted on circuit board).
- 4. Green Pump Run Indicator Light (mounted on circuit board).
- 5. Float Switch Terminal Block (mounted on circuit board).
- 6. Alarm and Control Fuses (mounted on circuit board).
- 7. Alarm and Control Power Indicators (mounted on circuit board).
- 8. Ground Lug
- Circuit Breaker (optional) provides pump disconnect and branch circuit protection.

#### **STANDARD ALARM PACKAGE**

- Red Alarm Beacon provides 360° visual check of alarm condition.
   Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
- **11. Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating)

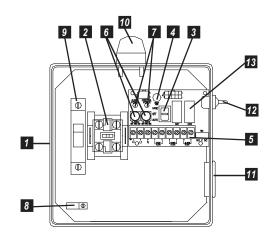
Note: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn.

- 12. 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 has been cleared.
- 13. Horn Silence Relay (mounted on circuit board).

**NOTE:** other options available.

#### **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 three 20' SJE SignalMaster® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



Model Shown 1121W914X





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

	112		1	\ \[\bar{v}\]	V	] [	9		1		4	H	I	8A,	8C,3A,	,10E,	] 15A
	MODEL	_ 1 <sup>·</sup>	12							_							_
	ALARMPAC																
	0 = select o 1 = alarm p					/silenc	  - switch	fuse	red ligh	ıt horr	& float)						
	ENCLOSUR	_		CS (CSI/1		SHELLC		, luse	, realign	11, 11011							
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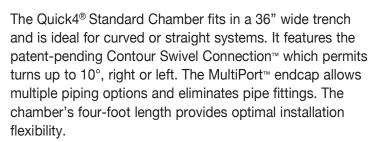




# The Quick4® Standard Chamber



# Quick4 Standard with MultiPort EndCap



#### **Chamber Benefits:**

- Advanced contouring connections swivel up to 10°, right or left
- · Latching mechanism allows for quick installation
- · Four-foot chambers are easy to handle and install
- The Quick4 Standard Chamber supports wheel loads of 16,000 lbs/axle with only 12" of cover
- Certified by the International Association of Plumbing and Mechanical Officials (IAPMO)



## **MultiPort Endcap Benefits:**

- · Tear-out seals on inlet ports provide a tight fit to the pipe
- Eight molded-in inlets/outlets allow for maximum piping flexibility
- Eliminates pipe fittings
- · Fits on either end of the Quick4 Standard Chamber



#### Quick4® Series

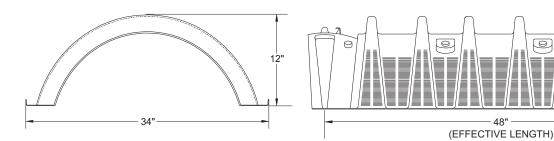
Because installations are faster with Quick4 chambers, you save on heavy equipment operation and labor.

APPROVED in	

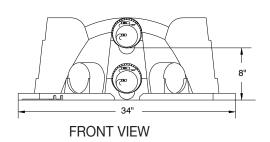


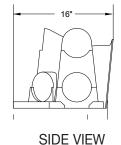
#### **Quick4 Standard Chamber**

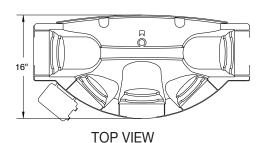




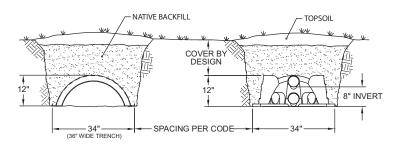
#### MultiPort EndCap







#### Typical Trench View -



Quick4® Standard Cham	Quick4® Standard Chamber Specifications				
Size	34"W x 53"L x 12"H (864 mm x 1346 mm x 305 mm)				
Effective Length	48" (1219 mm)				
Louver Height	8" (203 mm)				
Storage Capacity	43 gal (163 L)				
Invert Height	8" (203 mm)				



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

## INFILTRATOR WATER TECHNOLOGIES, LLC ("INFILTRATOR") Infiltrator Water Technologies, LLC STANDARD LIMITED Drainfield WARRANTY

(a) The structural integrity of each chamber, endcap, EZflow expanded polystyrene and/or other accessory manufactured 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 Infiltrator to be covered by this Limited Warranty. 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 chamber system is manufactured by anyone other than 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.

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.

Q25 0816

#### INFORMATION FOR THE CONTRACTOR

The permit should be read very carefully prior to bidding. The following are details that must be considered by the contractor prior to and during installation:

- Tanks shall be approved by NCDHHS and certification supplied by the manufacturer.
- The installer shall be responsible to the owner for placement of the tanks and to ensure that final grades are returned to the original grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement without damage or displacement of pipe or fittings.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy-bodied PVC pipe glue applied to weld all joints.
- Where required by the regulating County Health Department, post installation inspections by the Engineer or his representative must be scheduled **5 week days** in advance.
- Trenches shall be carefully excavated so the bottom is level **for the entire length and width of the trench**. If the trench bottom level needs adjusting after excavation it **must** be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over-excavated during initial trenching. All fine grading within the trench will be done by hand with a shovel. No loose material will be left in the trench.
- All pipe openings in the tanks shall be properly filled with press boot seal. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent settlement.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation.
- Elevations at pin flag locations should be checked by the contractor prior to beginning trench excavation.
- Pump tank riser shall be 6" above grade, control panel shall be 18" above grade.
- -Septic tank shall have specified effluent filter or approved equivalent.

#### **System Specifics:**

- System uses Quick 4 Chamber drain line. EZ Flow can be used as direct replacement and any concrete state
- Repair uses Quick 4 Chamber drain line. approved 1000g tanks can be used as direct replacements.

# Miscellaneous errors and omissions

Markel has over 35 years of experience providing miscellaneous errors and omissions insurance. Our leadership has a wealth of knowledge and expertise in protecting small business owners from litigation stemming from actual or perceived negligence. Our underwriting team has crafted policies that fit your specific needs, while our seasoned, in-house claims professionals will help you successfully navigate a loss or claim should you need their assistance.

#### Reporting new professional liability claims

New Claims can be reported in writing by website, email, fax, or regular mail. Please refer to your specific policy for all relevant reporting requirements.

To report a new claim, visit markelinsurance.com/file-a-claim and select "BOP/Miscellaneous errors and omissions/Workers compensation" from the drop down. You can also email newclaims@markelcorp.com and include the following:

- Policy number
- Insured and claimant names with contact details
- Date of loss
- Location and description of loss
- All pertinent documentation available (incident report, police report, witness information, photos, etc.)

#### **General claims questions**

For information about an already reported Professional Liability claim, email: markelclaims@markelcorp.com, or contact your assigned claim examiner directly.

Additional contact information:

(800) 362-7535 or (800) 3 MARKEL (855) 662-7535 or (855) 6 MARKEL Markel Claims Department, P.O. Box 2009,

Glen Allen, VA 23058-2009

While your policy is primarily designed to protect against a variety of professional errors and omissions claims, it may also provide protection for other specific exposures such as pollution claims, disciplinary proceedings, third party discrimination claims, subpoena and public relations expenses, among others. Contact your agent for more information, or if you have reported a Claim, your assigned examiner.

#### Risk management and loss prevention

Policyholders have access to loss control and risk management resources that can assist in a better understanding of potential hazards within their operation and ways to reduce claims.

Here's a sample of the many services available:

- Exposure assessments
- Loss analysis tools
- Safety videos
- Safety training materials
- Regulatory program guidance

# Designed Protection® for professional service providers and associations – professional service providers hotline

Our panel of Risk Management experts is available to discuss general risk management related concerns and questions. Please visit **markelcorp.com/riskmanagement** and under "Designed Protection®" click "Click here," enter your policy number, then select "Professional Service Providers Hotline" to access our panel of experts.

Visit our website at:

#### markelinsurance.com/risk-management-home.

For more information about any of Markel's loss control services, contact us at (888) 500-3344 or email losscontrol@markelcorp.com.

For more information about our programs, risk management articles, and FAQs, please visit **markelinsurance.com**. To pay your bill or view policy documents, please visit **portal.markelinsurance.com**.





#### **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY) 11/26/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

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PRO	DUCE	R		. ,		CONTAC NAME:	CT Angela :	Sensenig			
Wade Associates, LLC					PHONE (252) 631 - 5269 FAX (252) 649-2443						
250 Pollock St.				(A/C, No, Ext): (252) (A/C, No): (252) (							
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INSU	IRED								Insurance Company		10844
Per	mit	Acquistion Company One,	PLLC	;		INSURE					
920	) Ga	rner Rd				INSURE					
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Se	Lma	NC 275	76			INSURE					
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	X	COMMERCIAL GENERAL LIABILITY							EACH OCCURRENCE DAMAGE TO RENTED	\$	1,000,000
A	-	CLAIMS-MADE X OCCUR					44 /00 /	44 /00 /	PREMISES (Ea occurrence)	\$	100,000
					SSEP0476240AEM		11/22/2024	11/22/2025	MED EXP (Any one person)	\$	10,000
	H	J							PERSONAL & ADV INJURY	\$	1,000,000
	GEN X	N'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	2,000,000
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		ANY AUTO ALL OWNED SCHEDULED							BODILY INJURY (Per accident)	\$	
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В	OFFI	ICER/MEMBER EXCLUDED?	N/A		69KOUB-5N24039-7-24		11/14/2024	11/14/2025	E.L. DISEASE - EA EMPLOYEE	\$	500,000
-	If ves	s, describe under CRIPTION OF OPERATIONS below			osnood one roos / Er		12,21,2021	11,11,1010	E.L. DISEASE - POLICY LIMIT	\$	500,000
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A	Er	rors & Omissions			SSEP0476240AEM		11/22/2024	11/22/2025	Each Occurrence		\$1,000,000
									General Aggregate		\$2,000,000
DES	DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)										
CE	RTIF	ICATE HOLDER				CANO	ELLATION				
	Smith Douglas Homes 3412 Apex Peakway				THE	EXPIRATION D	ATE THEREOF	SCRIBED POLICIES BE CAN F, NOTICE WILL BE DELIVER Y PROVISIONS.		D BEFORE	
		мреж, NC 27502				AUTHO	RIZED REPRESEN	ITATIVE			
		ı				N Whi	tsett/RAC	HEL	N. Real h	D_	_



#### MARKEL INSURANCE COMPANY

10275 West Higgins Road, Suite 750 Rosemont, IL 60018 (800) 431-1270

#### **INSURANCE POLICY**

Coverage afforded by this policy is provided by the Company (Insurer) and named in the Declarations.

In **Witness Whereof**, the company (insurer) has caused this policy to be executed and attested and countersigned by a duly authorized representative of the company (insurer) identified in the Declarations.

1

Kathleen anne Sturgeon	Bup W. Nakes

MJIL 1000 06 10 Page 1 of 1



#### MARKEL INSURANCE COMPANY

# NOTICE TO POLICYHOLDERS CLAIM REPORTING

Please immediately report a new claim under this policy to:

#### newclaims@markel.com

For general claims inquiries after a claim has been reported, please email:

#### markelclaims@markel.com

In order for us to expedite the handling of your claim and quickly refer it to the appropriate party, please have the following information available:

- Claim number (or report as new)
- Your name, contact information and position with the Named Insured
- Date of loss
- Policy number and insured name
- Details of loss

Our address and additional contact information are as follows:

Markel Claims
P.O. Box 2009
Glen Allen, VA 23058-2009
Phone: 800-362-7535 (800) 3MARKEL
Fax: 855-662-7535 (855) 6MARKEL

Markel understands the importance of having knowledgeable claims professionals prepared to answer your questions with personal attention and expertise. With claims professionals located across four times zones, you are sure to find the claims assistance you need -- when you need it.

PLEASE REFER TO THE POLICY FOR ANY NOTICE AND REPORTING PROVISIONS AND DUTIES IN THE EVENT OF LOSS OR DAMAGE TO COVERED PROPERTY.

MPIL 1074 07 14 Page 1 of 1



#### MARKEL INSURANCE COMPANY

# U.S. TREASURY DEPARTMENT'S OFFICE OF FOREIGN ASSETS CONTROL ("OFAC") ADVISORY NOTICE TO POLICYHOLDERS

No coverage is provided by this Policyholder Notice nor can it be construed to replace any provisions of your policy. You should read your policy and review your Declarations page for complete information on the coverages you are provided.

This Notice provides information concerning possible impact on your insurance coverage due to directives issued by OFAC. Please read this Notice carefully.

The Office of Foreign Assets Control (OFAC) administers and enforces sanctions policy, based on Presidential declarations of "national emergency". OFAC has identified and listed numerous:

- · Foreign agents;
- Front organizations;
- Terrorists;
- · Terrorist organizations; and
- Narcotics traffickers;

as "Specially Designated Nationals and Blocked Persons". This list can be located on the United States Treasury's web site – https://www.treasury.gov/ofac.

In accordance with OFAC regulations, if it is determined that you or any other insured, or any person or entity claiming the benefits of this insurance has violated U.S. sanctions law or is a Specially Designated National and Blocked Person, as identified by OFAC, this insurance will be considered a blocked or frozen contract and all provisions of this insurance are immediately subject to OFAC. When an insurance policy is considered to be such a blocked or frozen contract, no payments nor premium refunds may be made without authorization from OFAC. Other limitations on the premiums and payments also apply.

#### **Markel Insurance Company**



#### PROFESSIONAL LIABILITY INSURANCE DECLARATIONS

Claims Made and Reported Coverage: The coverage afforded by this policy is limited to liability for only those Claims that are first made against the Insured during the Policy Period or the Extended Reporting Period, if exercised, and reported to Markel Insurance Company during the Policy Period or the Extended Reporting Period, if exercised, or within 60 days after the expiration of the Policy Period or the Extended Reporting Period, if exercised.

**Notice:** This policy contains provisions that reduce the Limits of Liability stated in the policy by the costs of legal defense and permit legal defense costs to be applied against the deductible, unless the policy is amended by endorsement. Please read the policy carefully.

POLICY NUMBER: MEO1642-05 RENEWAL OF POLICY: MEO1642-04

NAMED INSURED: Permit Acquisition Company-One LLC

BUSINESS ADDRESS: 920 Garner Road

Selma, NC 27576

POLICY PERIOD: From 11/22/2023 to 11/22/2024

12:01 A.M. Standard Time at address of Insured stated above.

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS POLICY, THE COMPANY AGREES WITH THE NAMED INSURED TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY.

1. PROFESSIONAL SERVICES: soil science

2. LIMITS OF LIABILITY

**Professional Liability Coverage** 

Α.	Each Claim:	\$2,000,000
B.	Policy Aggregate:	\$2,000,000

#### **Additional Payments**

A.	Contingent Bodily Injury And Property Damage	\$100,000
В.	Pollution	\$10,000
C.	Pre-Claim Assistance Expenses	\$20,000
D.	Sexual Abuse	\$10,000
E.	Third Party Discrimination	\$25,000

#### **Supplementary Payments**

A. Disciplinary Proceeding	\$25,000 per Policy Period
----------------------------	----------------------------

В.	Loss Of Earnings And Expense Reimbursement	\$10,000
C.	Public Relations Expenses	\$5,000
D.	Subpoena And Record Request Assistance	\$5,000

#### **Producer Number, Name and Mailing Address**

98496

Wade Associates, LLC. - New Bern

PO Box 1209

Davidson, NC, 28036

MDST 1000 07 17 Page 1 of 2

3. DEDUCTIBLE

 A. Each Claim:
 \$1,000

 B. Aggregate:
 \$3,000

**4. RETROACTIVE DATE:** 11/22/2019

5. PREMIUM RATE: Flat PREMIUM BASE: Flat

6. PREMIUM FOR POLICY PERIOD

Minimum: \$560
Deposit: \$560
Adjusted Annual Premium: \$560

- 7. PREMIUM PERCENTAGE FOR EXTENDED REPORTING PERIOD: ADDITIONAL PERIOD:
- 8. FORMS AND ENDORSEMENTS ATTACHED AT POLICY INCEPTION:

See MDIL 1001 attached.

These declarations, together with the Coverage Form and any Endorsement(s), complete the above numbered policy.

Countersigned: 08/30/2023 (Date)	
	By: John K Clark
	Authorized Representative Signature

MDST 1000 07 17 Page 2 of 2