

1900 South Main Street, Suite 110, Wake Forest, NC 27587 Office Number: 919-569-6704

Acknowledgment of Subsurface wastewater evaluation and septic design by Central Carolina Soil Consulting, PLLC. for <u>Honeycutt Hills, Lot 5 (PIN: 0663-60-9960)</u> for issuance of an IP and CA.

For Improvement Permit (IP) issuance:

"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)."

For Construction Authorization (CA) issuance:

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

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance G.S. 130A-335(a2), (a3), (a5) and (a6).

7.31.23

Owner:

DRB Group

Owner's representative:

Date:



Permit #:

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:	Harnett
PIN/Lot Identifier:	0663-60-9960
Issued To:	DRB Homes
Property Location:	95 Shelby Meadow Lane, Angier, NC 27501 (Honeycutt Hills, Lot 5)
	luations Provided: Yes 🖌 No 🗌 If yes, name and license number of AOWE/PE: Jason Hall, AOWE #10004E
Facility Type:	Single Family, 4-Bedroom
✓ New	Expansion Repair System Relocation Change of Use
	Yes 🖌 No Basement Fixtures? 🗌 Yes 🗌 No
Type of Wastewater	System* IIIB, pressure manifold (accepted) (Initial) IIIB, pressure manifold (accepted) (Repair)
*Please include syst	em classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Daily Flow: _	480 GPD Wastewater Strength: 🗸 domestic 🗌 high strength 🗌 industrial process
	20 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? 🗌 Yes 🛛 🖌 No e engineering documentation)
Installation Require	nents/Conditions
Septic Tank Size:	1200 gallons Total Trench/Bed Length: 390 feet Trench/Bed Spacing: 9 feet on center
Trench/Bed Width:	36 inches LTAR 0.325 gpd/ft ²
Additional Soil Cove	r: inches Slope Corrected Maximum Trench/Bed Depth [‡] : inches <i>* Measured on the downhill side of the trend</i>
Aggregate Depth:	
Pump Tank Size (if a	oplicable): <u>1200</u> gallons Requires more than 1 pump? 🗌 Yes 🖌 No
Pump Requirements	: <u>22.64</u> ft. TDH vs. <u>42.89</u> GPM Grease Trap Size (if applicable): <u>n/a</u> gallons
Distribution Method	: 🗌 Serial 🔲 D-Box or Parallel 🗹 Pressure Manifold(s) 🗌 LPP 🗌 Other:
Artificial Drainage R	equired: Yes 🗌 No 🖌 If yes, please specify details:
Legal Agreements (f the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreem	ent Required [.1937(h)]: 🗌 Yes 🛛 🖌 No
Easement, Right-of-	Nay, or Encroachment Agreement Required [.1938(j)]: 🔲 Yes 📈 No
Declaration of Restr	ctive Covenants: 🔲 Yes 🖌 No
Pre-Construction Co	nference Required: Yes 🔲 No 🗹
Conditions:	VA SE OLIANA NIDER /S
	ACTUM -
The construction an	d installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference
into this permit and	shall be met. Systems shall be installed in accordance with the attached system layout.
AOWE/PE Print Nan	e: Jason Hall Expiration Date: 12/31/2023
AOWE/PE Signature	Date: 07/28/2023
_	This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).
	ALL
	TE VAS
	See attached site sketch
0 0 1204 225/-0	
G.S. 130A-335(a2	Common Form 4 V.2023.07



Permit #:

This Section for Local Health Department Use Only

Date

Initial submittal received: ______ by

Initials

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This

Construction Authorization is determined to be:

Incomplete (If box is checked, information in this section is r	required.)		
The following items are missing:			
0 2 22/11	- 6-3		
Copies of this were sent to the AOWE/PE and the Applicant on _			
	Date		
State Authorized Agent:	1 1 2 2 2	Date:	
	- 62 O.W		
Complete			
State Authorized Agent:	LIZYT	Date of Issuance:	

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. 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 with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date:

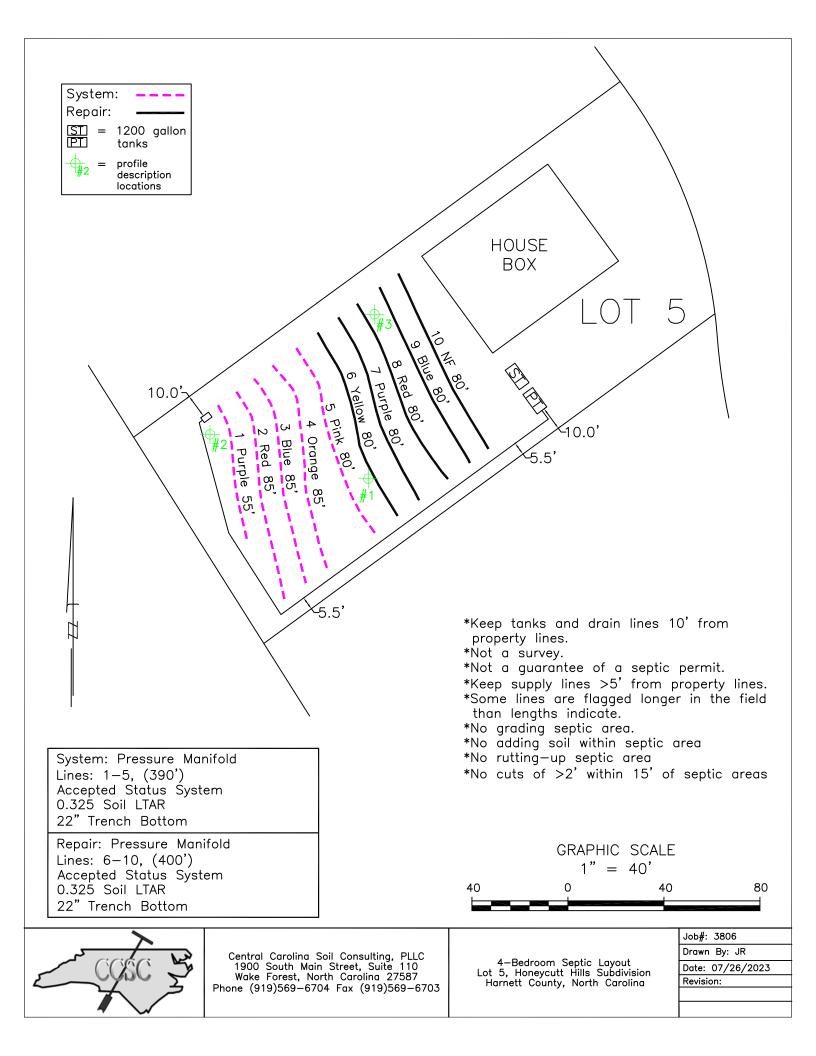
See attached site sketch



Permit #:

Re-submittal of Construction Authorization

	LHD USE ONLY: This CA resubmittal received:		by		
	_	Date		Initials	
The following i	tems are being resubmitted pursuant to G.S. 130A-335	(a5) for issuance	of the Constru	uction Authorizat	ion:
		A T D	5		
1	hereby attest that	the information	required to b	e included with t	his re-submittal
is accurate and	nsite Wastewater Evaluator (Print Name) complete to the best of my knowledge and that the p and local laws, regulations, rules, and ordinances.				
Signatu	re of Authorized On-Site Wastewater Evaluator		Date		
	The section below is for Local Health Department use	after submittal of	items noted a	s missing above.	
LHD Follow-	up Completeness Review of Construction Au			Z	
	completeness of this Construction Authorization re-su on Authorization is determined to be:	bmittal was cond	ducted in acco	ordance with G.S.	130A-335(a5).
Incomplete	(If box is checked, information in this section is require	ed.)			
The following it	tems are missing:				
	ALLO JOSE OLIAN	A VIDER	18		
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date			
State Authorize	ed Agent:		_ [Date:	
Complete					
State Authorize	ed Agent:			Date:	



Pressure Manifold Septic System Design

for

Honeycutt Hills Subdivision, Lot 5 Harnett County, North Carolina

Designed by:

James Rice Central Carolina Soil Consulting, PLLC Wake Forest, North Carolina

07/28/2023

Honeycutt Hills Subdivision, Lot 5 Contact Information

Client: DRB Homes Attn: Kerry Buckner Street Address: 3000 RDU Center Drive, Suite 202 Morrisville, NC 27560 Phone: 919-604-9746 Email: <u>kbuckner@drbgroup.com</u>

Designer: Central Carolina Soil Consulting, PLLC Attn: Jason Hall Designed By: James Rice Street Address: 1900 South Main Street, Suite 110 Wake Forest, NC 27587 Office Phone: 919-569-6704 Cell Phone: 910-740-3226 Fax: 919-569-5703 Email: jrice@centralcarolinasoil.com

Honeycutt Hills Subdivision, Lot 5 Layout/Design Specifications

Facility Type: # of Bedrooms: Daily Flow: L.T.A.R.:	4 480	iily Home gal/day gal/day/sq.ft
Trench Depth: Trench Width: Stone Depth:	36	
Manifold Length: Manifold Diameter: Supply Line Length: Supply Line Diameter: Supply Line Volume:	4 235 2	in sch 80pvc
Friction Loss + Fitting Loss: Design Head:	2	ft(supply line length + 70' for fittings in pump tank) ft
Elevation Head: Total Head:		
Pump: Septic Tank Effluent Filter: Septic Tank:	.75 9.68 4.43 SJE Rhombus M (or approved eq Zoeller M140 FI	in @ 19.65 gal/in Mins Model112 control panel juivalent) ow-Mate (or approved equivalent) esidential effluent filter (or alent) gallon

Honeycutt Hills, Lot 5 Initial System TAP CHART

Bench Mark	κ;	is = 100.00	Location of	BM:				Elevation Head:	8.30
Pump tank	elev.	4.80	95.20	Pump elev.	89.80			Manifold elevation:	98.10
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Purple	2.90	97.10	55	1/2in SCH 80	5.48	61.33	165	0.3717
2	Red	3.00	97.00	85	3/4 in SCH 80	10.1	113.03	255	0.4433
3	Blue	3.20	96.80	85	3/4 in SCH 80	10.1	113.03	255	0.4433
4	Orange	3.40	96.60	85	3/4 in SCH 80	10.1	113.03	255	0.4433
5	Pink	3.70	96.30	80	1/2in SCH 40	7.11	79.57	240	0.3315

	total	feet =	390	gal/min =	42.89	LTAR =	0.3250
						<u>LTAR + %5</u>	0.3413
% of Dose Vol.	75		Des. Flow	480		(Itar W/ INOV)	0.4333
Dose Volume	190.13		Pump Run=	11.19		(Itar W/ INOV + 5%)	0.4550
Dose Pump Time	4.43		Tank Gal/IN	19.65			
Drawdown in Inches	9.68						

Honeycutt Hills, Lot 5 Repair System TAP CHART

Bench Mark	:	is = 100.00	Location of	BM:				Elevation Head:	7.40
Pump tank e	elev.	4.80	95.20	Pump elev.	89.80			Manifold elevation:	97.20
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
6	Yellow	3.80	96.20	80	1/2in SCH 40	7.11	96.00	240	0.4000
7	Purple	3.90	96.10	80	1/2in SCH 40	7.11	96.00	240	0.4000
8	Red	4.00	96.00	80	1/2in SCH 40	7.11	96.00	240	0.4000
9	Blue	4.20	95.80	80	1/2in SCH 40	7.11	96.00	240	0.4000
10	NF	4.30	95.70	80	1/2in SCH 40	7.11	96.00	240	0.4000

	total	feet =	400	gal/min =	35.55	LTAR =	0.3000
						<u>LTAR + %5</u>	0.3150
% of Dose Vol.	75		Des. Flow	480		(Itar W/ INOV)	0.4000
Dose Volume	195.00		Pump Run=	13.50		(Itar W/ INOV + 5%)	0.4200
Dose Pump Time	5.49		Tank Gal/IN	19.65			
Drawdown in Inches	9.92						

MODEL 112 Control Panel

Single phase, simplex motor contactor control.

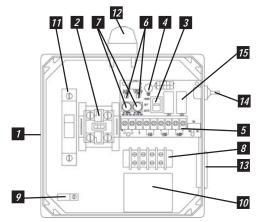
The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, 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 flanges 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. Pump Input Power and Pump Connection Terminal Block
- 9. Ground Lug
- 10. Terminal Block Installation Label
- **11. Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.



Model Shown 1121W914X

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.
- Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
 Note: NEMA 1 style utilizes an internally

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

- 14. 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.
- **15. 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' Sensor Float[®] control switches
- Complete with step-by-step installation instructions



Three-year limited warranty



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		W		1	2	2] [4		Η		3A,8	8A,8C,15A
	MODEL	11	12											_		
				olormoo												
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	ENCLOSUR	-							Ĭ		Í					
x	I = Indoor, I W = Weathe				gineerec	Ithermo	 plastic)									
	STARTING		_													
X	1 = magnet 9 = magnet	ic mot	orcon	tactor 12		IOV										
	PUMP FULI 0 = 0-7 FLA		DAM	PS —												
	1 = 7-15 FL	A.														
x	2 = 15-20 F 3 = 20-30 F															
	PUMP DISC		CTS													
	0 = no pum	p disco	onnect	t												
x	1 = pull-out							ion O ob								
<u> </u>	4 = circuit b	reake)/208/24						above	1					
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	X = no floats WITH alar		kade													
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Trusted. Tested. Tough.®

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



SECTION: 2.15.070 FM2783 0419 Supersedes 0617

TECHNICAL DATA SHEET FLOW-MATE SERIES

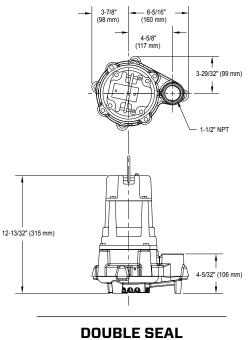
Models 140/4140, 145/4145 Effluent / Dewatering Pumps

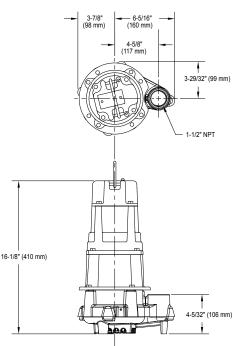
PRODUCT SPECIFICATIONS

	Horse Power	3/4 - 1
	Voltage	115 or 230
~	Phase	1 Ph
0F	Hertz	60 Hz
Ĕ		
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
<u>م</u>	Cord Length	20' (6 m)
PUMP	Cord Type	UL listed, neoprene cord
D D	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
	Base	Cast iron
L S	Upper Bearing	Sleeve bearing
A A	Lower Bearing	Ball bearing
Ë	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





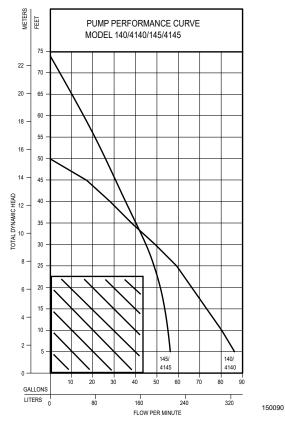
SK1524



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TOTAL DYNAMIC HEAD FLOW PER MINUTE

MOI	DEL	140/	145/4145		
Feet	Meters	Gal.	Liters	Gal.	Liters
5	1.5	86	326	56	212
10	3.0	80	303	55	208
15	4.6	73	276	53	200
20	6.1	66	250	51	193
25	7.6	59	223	48	182
30	9.1	49	185	45	170
40	12.2	28	106	35	132
50	15.2			26	98
60	18.3			16	61



						MODEL	COMPAR	ISON			
Model	Seal N		Volts	Ph	Amps	HP	Hz	Lbs	Kg	Simplex	Duplex
N140	Single	Non	115	1	12.0	1	60	46	21	1 or 2	3
E140	Single	Non	230	1	6.0	1	60	46	21	1 or 2	3
BN140	Single	Auto	115	1	12.0	1	60	47	21	*	
BE140	Single	Auto	230	1	6.0	1	60	47	21	*	
E145	Single	Non	230	1	6.0	3/4	60	46	21	1 or 2	3
N145	Single	Non	115	1	13.0	3/4	60	46	21	1 or 2	3
BN145	Single	Auto	115	1	13.0	3/4	60	48	22	*	
N4140	Double	Non	115	1	12.0	1	60	65	29	*	
E4140	Double	Non	230	1	6.0	1	60	65	29	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	1	13.0	3/4	60	64	29	*	

* Single piggyback switch included.

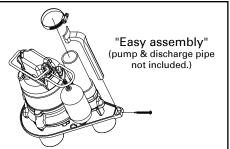
BN and BE models include a 20' (6 m) piggyback variable level pump switch. Additional cord lengths are available in 15' (5 m), 25' (8 m), 35' (11 m) and 50' (15 m). 50' (15 m) cord length is for 230 V only.

SELECTION GUIDE

- 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
- (DN40 or DN50) PVC piping
- Attaches securely to pump
- Accommodates sump, dewatering and effluent applications
 NOTE: Make and figure from a bateriation
- NOTE: Make sure float is free from obstruction.



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).

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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:

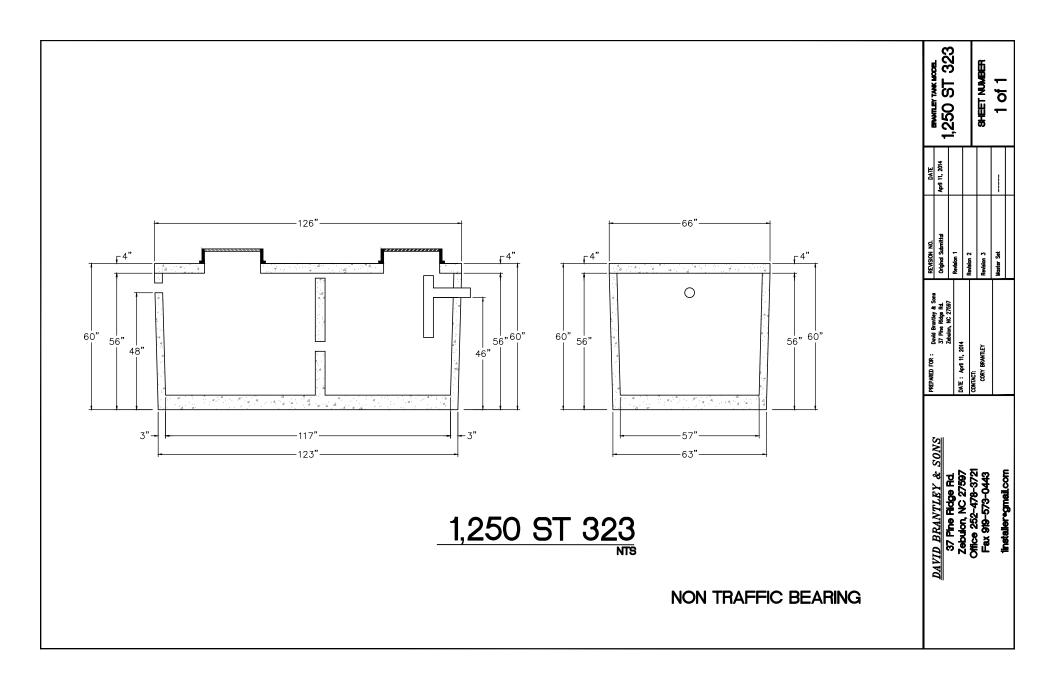
PL-68 Filter Concrete Baffle Extend & Lok™

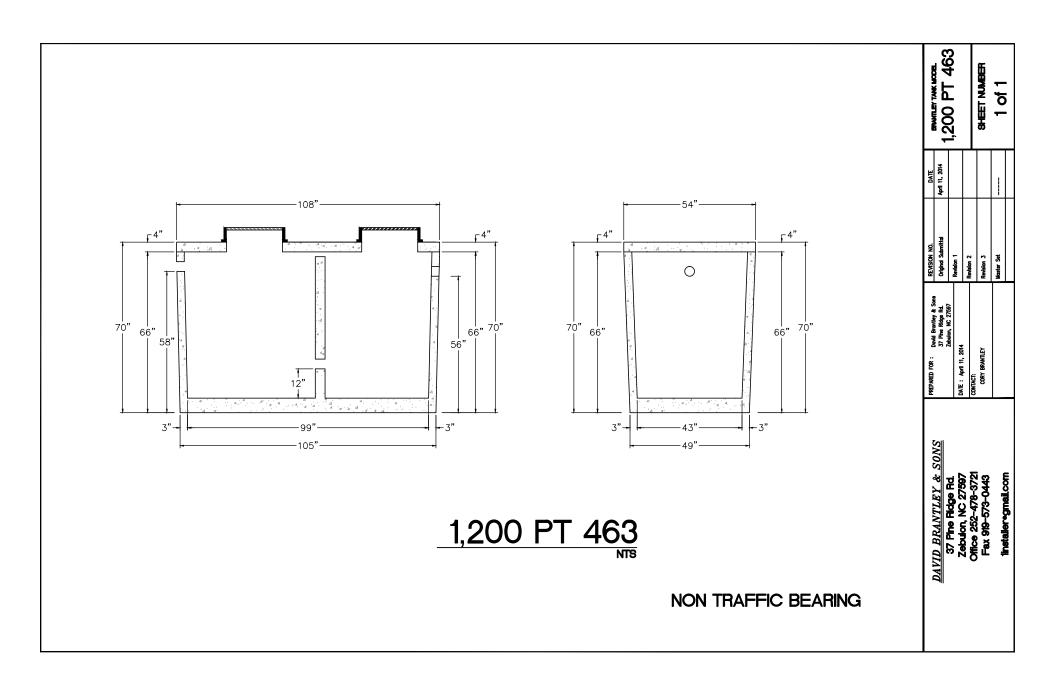


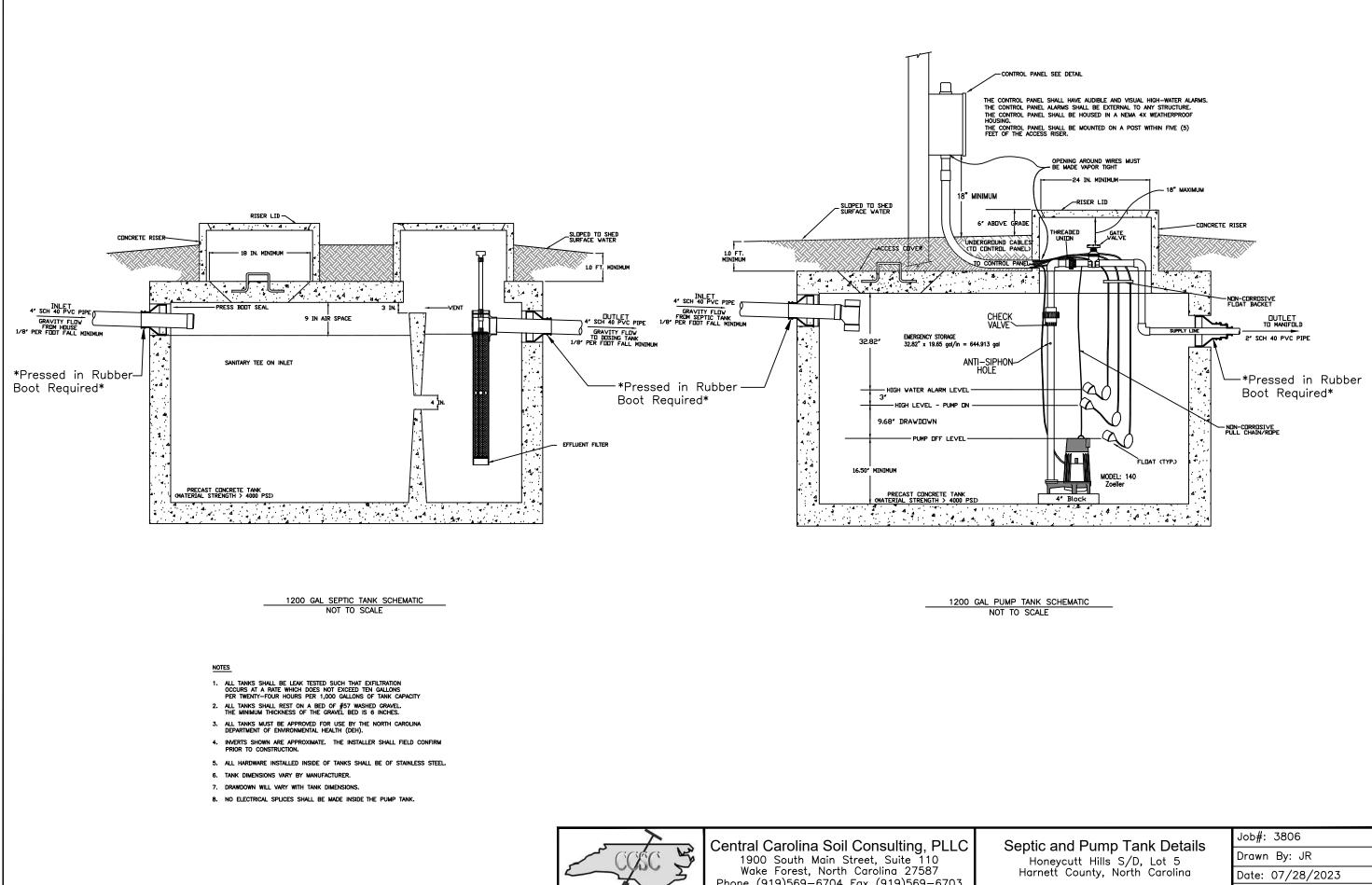
Extend & Lok[™] Easily installs into existing tanks.



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