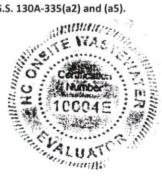


Permit #	:

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

County: Harnett
PIN/Lot Identifier:0643-36-3130
ssued To: J Douglas Contracting
Property Location:172 Hook Drive, Fuquay-Varina, NC 27526 (Cotton Farms Subdivision, Lot 8)
AOWE/PE Plans/Evaluations Provided: Yes 🗸 No 🗌 If yes, name and license number of AOWE/PE: Jason Hall, AOWE #10004E
Facility Type:3-Bedroom, Single Family
✓ New
Basement? ☐ Yes ☐ No Basement Fixtures? ☐ Yes ☑ No
Type of Wastewater System*IIIB, Pressure Manifold (LPC)(Initial)IIIB, Pressure Manifold (PPBPS)(Repair
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Daily Flow:360
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? $\square$ Yes $\checkmark$ No (if yes, please provide engineering documentation)
Installation Requirements/Conditions
Septic Tank Size:1000 gallons Total Trench/Bed Length:440 feet Trench/Bed Spacing:9 feet on center
Trench/Bed Width:36inches LTAR0.275gpd/ft²
Soil Cover: 8 inches Slope Corrected Maximum Trench/Bed Depth <sup>‡</sup> : 8 inches * Measured on the downhill side of the trench
Aggregate Depth: N/A inches above pipe N/A inches below pipe N/A inches total
Pump Tank Size (if applicable):
Pump Requirements: 23.10 ft. TDH vs. 37.41 GPM Grease Trap Size (if applicable): gallons
Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) D-P Other:
Artificial Drainage Required: Yes No V If yes, please specify details:
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement Required [.1937(h)]: ☐ Yes
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: Yes 🕢 No
Declaration of Restrictive Covenants: Yes 🗸 No
Pre-Construction Conference Required: Yes No 🗸
Conditions: 8" of additional soil cover needed over the Initial System
Quick4 Plus, Standard Low Profile Chembers for the Initial System
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference nto this permit and shall be met. Systems shall be installed in accordance with the attached system layout.
AOWE/PE Print Name: Jason Hall Expiration Date: 12/31/2023
07/14/2022
AOWE/PE Signature: Date:
inis Activity is submitted is pursuant to and meets the requirements of old, 130A-333(as) and (a3).

\*See attached site sketch\*





#### Central Carolina Soil Consulting, PLLC 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 <a href="Cotton Farms">Cotton Farms</a>, Lot 8 (PIN: 0643-36-3130), for issuance of an IP and CA.

For Improvement Permit (IP) issuance:

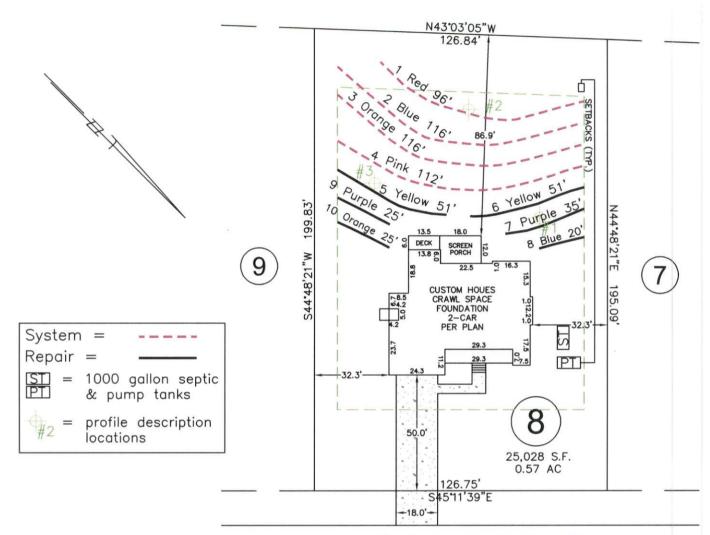
"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

For Construction Authorization (CA) issuance:

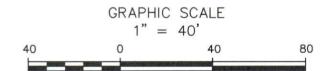
"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5) and (a6)."

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).

N/F R.I. JOHNSON FAMILY LIMITED PARTNERSHIP DB 1048 PG 246



- \*Keep tanks and drain lines 10' from property lines.
- \*Not a survey.
- \*Not a guarantee of a septic permit.
- \*Keep supply lines >5' from property lines.
- \*Some lines are flagged longer in the field than lengths indicate.
- \*No grading septic area.
- \*No adding soil within septic area
- \*No rutting-up septic area
- \*No cuts of >2' within 15' of septic areas



# HOOK DRIVE

50' PUBLIC R/W & UTILITY

System: Pressure Manifold

Lines: 1-4, (440')

Low Profile Chambers System (Quick4+)

0.275 Soil LTAR

8" Trench Bottom with 8" of cover

Repair: Pressure Manifold

Lines: 5-10, (207')

T&J Panel Block System (Horizontal)

0.3 Soil LTAR

14" Trench Bottom with 8" of cover



Central Carolina Soil Consulting, PLLC 1900 South Main Street, Suite 110 Wake Forest, North Carolina 27587 Phone (919)569-6704 Fax (919)569-6703

3-Bedroom Septic Layout Lot 8, Cotton Farms Subdivision Harnett County, North Carolina Job#: 4609
Drawn By: JR
Date: 07/10/2023
Revision:

#### Pressure Manifold Septic System Design

for

Cotton Farms S/D, Lot 8 Harnett County, North Carolina

Designed by:

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

# Cotton Farms S/D, Lot 8 Contact Information

Client: J Douglas Contracting

Attn: Ronnie Adams

Street Address:

Phone: 919-868-3114

Email: ronnie@jdouglascontracting.com

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

#### Cotton Farms S/D, Lot 8 Layout/Design Specifications

Facility Type:

Single Family Home

# of Bedrooms:

3

Daily Flow:

360 gal/day

L.T.A.R.:

0.275 gal/day/sq.ft

Trench Depth:

8 in with 8" of additional cover

Trench Width:

36 in

Stone Depth:

**EZ-FLOW** in

Manifold Length:

42 in

Manifold Diameter:

4 in sch 80pvc

Supply Line Length:

140 ft

Supply Line Diameter:

2 in sch 40pvc

Supply Line Volume:

24.36 gallons

Friction Loss + Fitting Loss:

6.60 ft(supply line length + 70' for fittings

in pump tank)

Design Head:

2 ft

Elevation Head:

14.50 ft

Total Head:

23.10 ft

Dose Volume:

188.76 gals

% of Pipe Vol.

0.66

Drawdown:

9.44 in @ 20.0 gal/in

Pump Run Time:

5.05 Mins

Control Panel: SJE Rhombus Model112 control panel

(or approved equivalent)

Pump: Zoeller: Model 140 (or approved equivalent

Septic Tank Effluent Filter: Polylok PL-68 residential effluent filter (or

approved equivalent)

Septic Tank: Brantley 1,000 Gallon ST

Pump Tank: Brantley 1,000 Gallon PT

#### Sheet1

# Cotton Farms, Lot 8 TAP CHART

Bench Mar	k	is = 100.00	Location of	f BM				Elevation Head	14.50
Pump tank	elev.	10.5	89.50	Pump elev.	84.10	1	Manifold ele	ev.	98.60
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Red	2.40	97.60	96	1/2in SCH 40	7.11	68.42	288	0.2376
2	Blue	3.00	97.00	116	3/4in SCH 80	10.1	97.19	348	0.2793
3	Orange	3.60	96.40	116	3/4in SCH 80	10.1	97.19	348	0.2793
4	Pink	4.20	95.80	112	3/4in SCH 80	10.1	97.19	336	0.2893

	total	feet =	440	gal/min =	37.41	<u>LTAR =</u> <u>LTAR + %5</u>	0.2750 0.2888
% of Dose Vol.	66		Des. Flow	360			
Dose Volume	188.76		Pump Run=	9.62			
Dose Pump Time	5.05		Tank Gal/IN	20			
Drawdown in Inches	9.44						

# Cotton Farms, Lot 8 T&J Panel Block Repair, TAP CHART

Bench Mar	k	is = 100.00	Location of	BM				<b>Elevation Head</b>	12.30		
Pump tank	elev.	10.5	89.50	Pump elev.	84.10	0	Manifold ele	v.	96.40		Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Panels (in)
5	Yellow	4.60	95.40	51	1/2in SCH 80	5.48	90.00	153	0.5882	12	4.6
6	Yellow	4.60	95.40	51	1/2in SCH 80	5.48	90.00	153	0.5882	12	4.6
7 & 8	Purp/Blue	5.10	94.90	55	1/2in SCH 80	5.48	90.00	165	0.5455	13	4.4
9 & 10	Purp/Oran	5.50	94.50	50	1/2in SCH 80	5.48	90.00	150	0.6000	12	3.7

	total	feet = 207	gal/min =	21.92	Total Number		49 Horizontal
					LTAR =	0.3000	
% of Dose Vol.	0	Des. Flow	360		LTAR + %5	0.3150	
Dose Volume	245.00	Pump Run=	16.42		(Itar W/ INOV)	0.6000	
<b>Dose Pump Time</b>	11.18	Tank Gal/IN	20		(Itar W/ INOV + 5%	0.6300	
Drawdown in Inches	12.25						

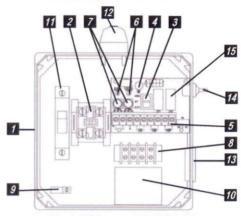
## **MODEL 112 Control Panel**

#### 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).
- Green Pump Run Indicator Light (mounted on circuit board).
- 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
- 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

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.
- 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 LISTED





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

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

112 1 W 1	2 H 3A,8A,8C,15A						
MODEL 112							
ALARMPACKAGE — 0 = select options or no alarm package							
v = select options or no alarm package  1 = alarm package (includes test/normal/silence switch, fuse, red light, horn & float)							
ENCLOSURE RATING ————————————————————————————————————							
X W = Weatherproof, NEMA 4X (engineered thermoplastic) STARTING DEVICE							
x 1 = magnetic motor contactor 120/208/240V 9 = magnetic motor contactor 120V only							
PUMP FULL LOAD AMPS	_						
1 = 7-15 FLA							
X 2 = 15-20 FLA 3 = 20-30 FLA							
PUMP DISCONNECTS—							
0 = no pump disconnect 1 = pull-out with safety deadfront in a 10"x8" enclosure							
4 = circuit breaker 120V (select STARTING DEVICE option 9 a 120/208/240V (select STARTING DEVICE	above) option 1 above)						
FLOAT SWITCH APPLICATION  X H or L = pump down or pump up							
X = no floats							
WITH alarm package WITHOUT alarm package							
OPTIONS Listed below-							
	or more of the ★ options, or one ★★ option , upsize fee would apply.						
If additional features are required, ca SJE-Rhombus Pro-Line or Engi							
CODE DESCRIPTION	CODE DESCRIPTION						
1A Red beacon only / no audio (must select 1E if floats included)	11C NEMA 1 alarm panel must select option 6A 11D NEMA 4X alarm panel must select option 6A						
1C Horn only / no visual	★★14B Main disconnect (rotary style, mounted through door)						
(must select 1E if floats included)  1E Alarm float	non-fused  ★★□ 0-20 FLA (total of both pumps)						
on Alain lastici	** 20-30 FLA (total of both pumps)						
★ 3B Manual alarm reset  ★ 4A Low level cutout	15A Control / alarm circuit breaker  Does not include the circuit board as in standard.						
(select option 4D if floats included)	16A 10' cord in lieu of 20' (per float)						
★ 4B Red low-level indicator & alarm     (must select 4A also)	16B 15' cord in lieu of 20' (per float) 16C 30' cord in lieu of 20' (per float)						
4D Low-level float	16D 40' cord in lieu of 20' (per float)						
★ 5A Thermal cutout/heat sensor auto	17A SJE SignalMaster® / mounting strap • (per float)						
reset (for pumps w/thermal switch leads)  **5E Seal failure circuit & red indicator (2 wire)	17B SJE SignalMaster® / externally weighted ● (per float)  17C Sensor Float® / internally weighted ▲ (per float)						
6A Auxiliary alarm contact, form C type	17D Sensor Float® / externally weighted ▲ (per float)						
X * 8A Elapsed time meter	17E Sensor Float® Mini / pipe clamp ▲ (per float)  17F Sensor Float® Mini / externally weighted ▲ (per float)						
★★9_APump overload	107 704 77 110 111 11 11 11 11 11 11 11 11 11 11 1						
specify amperage after number 9 followed by letter "A".	door mounted 19U HOA (Hand/Off/Automatic) switch and pump run light through						
Example: 912A = 12 amp pump.	door mounted						
** 25-30 FLA	19X Door mounted pump run indicator						
10E Lockable latch - NEMA 4X 10E Lockable latch - NEMA 1	21A SJE PumpMaster® in lieu of on/off switches ● 21B SJE PumpMaster® Plus in lieu of on/off switches ●						
■ ★10F Lightning arrester	21C Super Single® in lieu of on/off switches ▲						
★10K Anti-condensation heater	21D Double Float® in lieu of on/off switches ▲  Mechanically-activated ▲ Mercury-activated						
SAMPLE -							
MODEL 112 1 W 9 1 4	H 3A 8A						
Alarm Package ————————————————————————————————————							
Starting Device Pump Full Load Amps							
Pump Disconnect—							
Float Switch Application — Options: Flasher, Elapsed Time Meter———————————————————————————————————							

#### 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

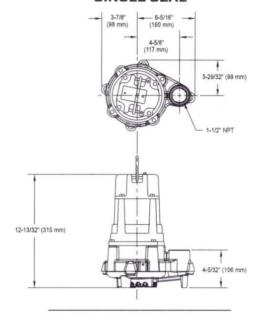
Models 140/4140, 145/4145 Effluent / Dewatering Pumps

#### PRODUCT SPECIFICATIONS

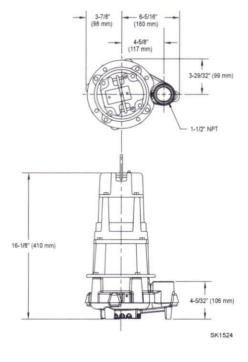
- 200						
MOTOR	Horse Power	3/4 - 1				
	Voltage	115 or 230				
	Phase	1 Ph				
	Hertz	60 Hz				
	RPM	3450				
	Туре	Permanent split capacitor				
	Insulation	Class B				
	Amps	6.0 - 13.0				
	Operation	Automatic or nonautomatic				
	Discharge Size	1-1/2" NPT				
	Solids Handling	1/2" (12 mm), 3/4" (19 mm) spherical solids				
•	Cord Length	20' (6 m)				
PUMP	Cord Type	UL listed, neoprene cord				
2	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				
LS	Upper Bearing	Sleeve bearing				
₹ ×	Lower Bearing	Ball bearing				
Ü	Mechanical Seals	Carbon and ceramic				
MATERIALS	Impeller Type	Single vane (145) or non-clogging vortex (140)				
Impeller		Engineered thermoplastic				
	Hardware	Stainless steel				
	Motor Shaft	JIS S45C steel				
	Gasket	Neoprene				

NOTE: See model comparison chart for specific details.

#### SINGLE SEAL



#### **DOUBLE SEAL**





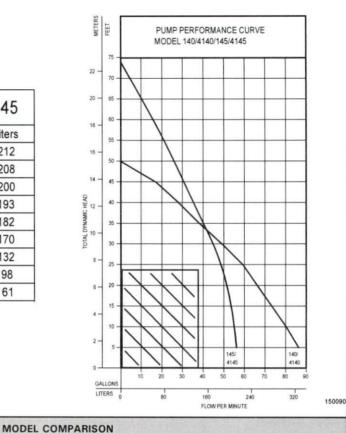






#### TOTAL DYNAMIC HEAD FLOW PER MINUTE

MODEL		140	/4140	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	



Kg Simplex Duplex 21 1 or 2 3 21 3 1 or 2 21 21 21 3 1 or 2 21 1 or 2 3 22 29 29 1 or 2 3

1 or 2

3

Seal

Single

Single

Single

Single

Single

Single

Single

Double

Double

Double

Double

Double

Double

Mode

Non

Non

Auto

Auto

Non

Non

Auto

Non

Non

Auto

Auto

Non

Auto

Volts

115

230

115

230

230

115

115

115

230

115

230

115

115

Ph

1

1

1

1

1

1

1

1

1

1

1

Amps

12.0

6.0

12.0

6.0

6.0

13.0

13.0

12.0

6.0

12.0

6.0

13.0

13.0

HP

1

1

3/4

3/4

3/4

1

1

1

1

3/4

3/4

Hz

60

60

60

60

60

60

60

60

60

60

60

60

60

Lbs

46

46

47

47

46

46

48

65

65

66

66

64

64

30

30

29

29

Model

N140

E140

BN140

BE140

E145

N145

BN145

N4140

E4140

BN4140

BE4140

N4145

BN4145

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.

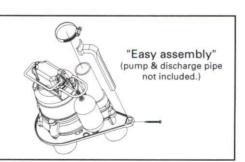
#### **SELECTION GUIDE**

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

#### OPTIONAL PUMP STAND P/N 10-2421

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

NOTE: Make sure float is free from obstruction.



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

<sup>\*</sup> Single piggyback switch included.



#### 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.
- Insert filter back into tee/housing.

#### **Related Products:**

PL-68 Filter Concrete Baffle Extend & Lok™



Extend & Lok™ Easily installs into existing tanks.



to 110mm Pipe

to SDR 35





### The Ouick4® Plus Standard Low Profile (LP) Chamber

#### Quick4 Plus™ Series

The Quick4 Plus Standard Low Profile (LP) offers maximum strength through its four center structural columns. This chamber can be installed in a 36-inch-wide trench. It is shorter in height than Infiltrator's other Standard model chambers, allowing for shallower installation. Like the original line of Quick4 chambers, it offers advanced contouring capability with its Contour Swivel Connection™. which permits turns up to 15°, right or left. The Quick4 Plus All-in-One 8 and Quick4 Plus Endcaps provide increased flexibility in system design and configurations.



**Maximum Strength** 

#### Quick4 Plus Standard LP Chamber Specifications

34"W x 53"L x 8"H (864 mm x 1346 mm x 203 mm)

**Effective Length** 

48" (1219 mm)

**Louver Height** 6.3" (160 mm)

**Storage Capacity** 32 gal (121 L)

**Invert Height** 

3.3" (84 mm), 9.6" (244 mm)



#### Ouick4 Plus Standard Low Profile (LP) **Chamber Benefits:**

- · Low profile design makes this chamber ideal for shallow applications
- · Reduces imported fill needed for cap and fill systems
- · Four center structural columns offer superior strength
- Advanced contouring connections
- · Latching mechanism allows for quick installation
- · Four-foot chamber lengths are easy to handle and install
- · Supports wheel loads of 16,000 lbs/axle with 12" of cover

#### **Quick4 Plus** All-in-One Periscope Benefits:



- · Allows for raised invert installations
- · 180° directional inletting
- · 12" raised invert is ideal for serial applications

#### **Ouick4 Plus** All-in-One 8 Endcap Benefits:

- · May be used at the end of chamber row for an inlet/outlet or can be installed mid-trench
- · Mid-trench connection feature allows center feed inletting of chamber rows
- Center-feed connection allows for easy installation of serial distribution systems
- Variable pipe connection options allow for side, end or top inletting
- · Piping drill points are set for gravity or pressure pipe

#### Ouick4 Plus **Endcap Benefits:**



- · Simple, flat design
- · Allows installation of a pipe from the end only
- · Piping drill points are set for gravity or pressure pipe

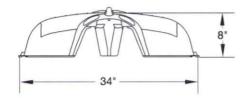
Certified by the International Association of Plumbing and Mechanical Officials (IAPMO

APPROVED	in	
ALL HOVED		

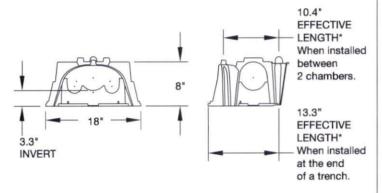


#### **Quick4 Plus Standard Low Profile Chamber**

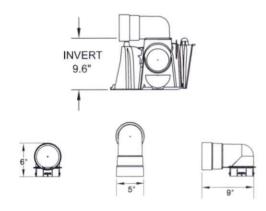




#### Quick4 Plus All-in-One 8 Endcap



#### Quick4 Plus All-in-One Periscope

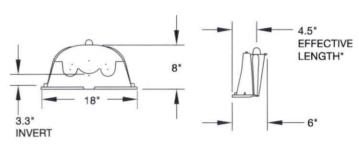




4 Business Park Road P.O. Box 768 Old Saybrook, CT 06475 860-577-7001 • Fax 860-577-7001 1-800-221-4436 www.infiltratorwater.com

# (EFFECTIVE LENGTH)

#### Quick4 Plus Endcap



#### 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, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.

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DAVID BRAVILEY & SONS
37 Pine Hidge Rd
Zebulon, NC 27597
Othice 252-478-3721
Fax 919-573-0443

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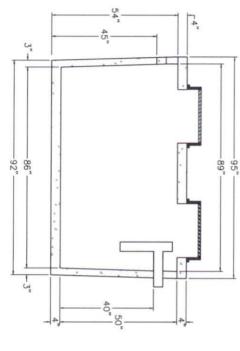
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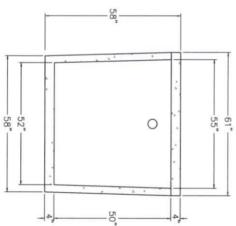
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NON TRAFFIC BEARING

NON TRAFFIC BEARING



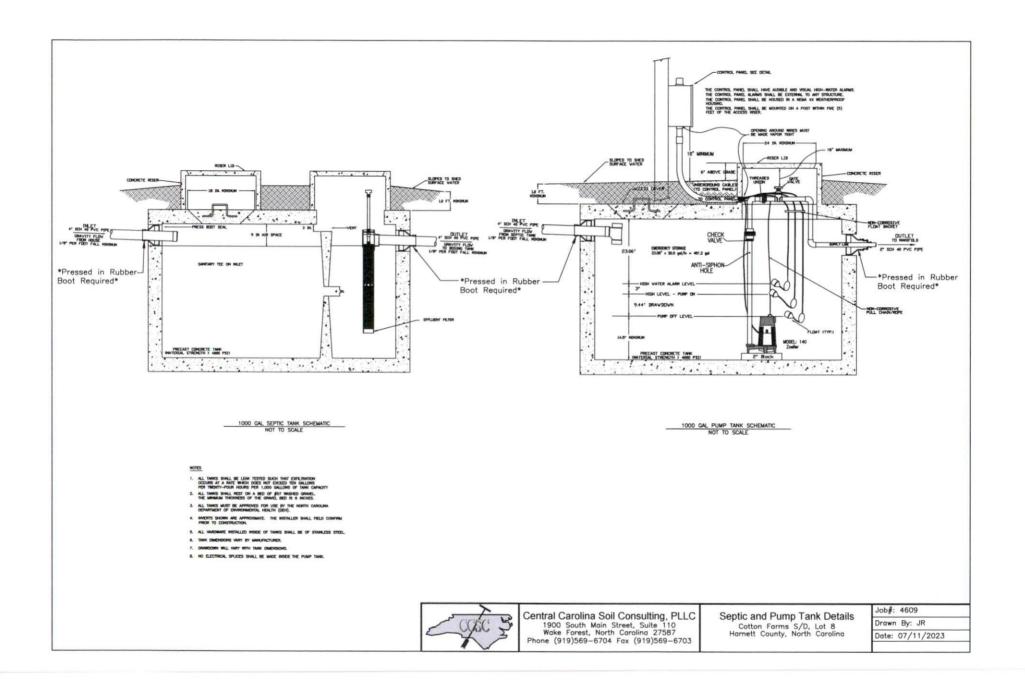


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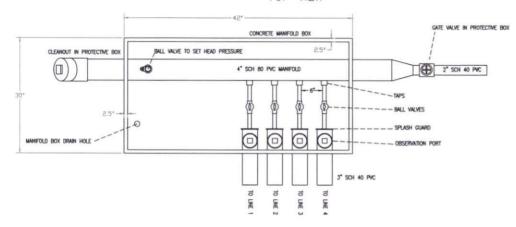
DAVID BRANTLEY & SONS
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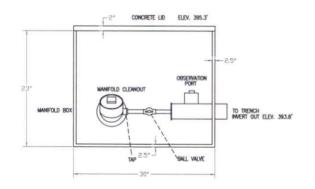
PREPARED FOR : Donld Brantley & Sons	REVISION NO.	DATE	BRANTLEY TANK MODEL	
37 Pine Ridge Rd.	Original Submittel	April 11, 2014	1,000 PT 237	
Zebulon, NC 27597 DATE: April 11, 2014	Revision 1		1,000 FT 23/	
CONTACT:	Revision 2			
CORY BRANTLEY	Revision 3		SHEET NUMBER	
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# PRESSURE MANIFOLD DETAILS TOP VIEW



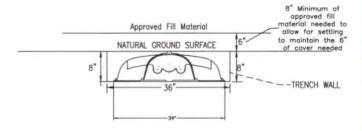
# PRESSURE MANIFOLD DETAILS END VIEW



LINE #	TAP	
1	½" SCH 40	
2	3 " SCH 80	
3	3 " SCH 80	
4	3 " SCH 80	

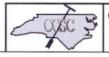
#### At-Grade System Quick4 Plus Standard Low Profile Chambers DETAILS

Example only: Installed trench bottom should match design.



#### NOTE :

- LOW PROFILE CHAMBERS INSTALLATION SHALL MEET THE REQUIREMNTS INCLUDED IN ITS INNOVATIVE APPROVAL
- TRENCH BOTTOM SHALL BE AT LEAST 12" FROM ANY RESTRICTIVE SOIL LAYER
- END CAP SHALL BE PROVIDED AT END OF ALL CORRUGATED PLASTIC PIPE LINES AND TRENCH BOTTOMS SHALL BE LEVEL
- 4. THIS IS A GENERIC TRENCH PROFILE FOR AN AT-GRADE TRENCH DEPTH.



Central Carolina Soil Consulting, PLLC 1900 South Moin Street, Suite 110 Wake Forest, North Carolina 27587 Phone (919)569-6704 Fox (919)569-6703

Manifold and Trench Details Cotton Farms S/D, Lot 8 Harnett County, North Carolina Job#: 4609 Drawn By: JR Date: 07/11/2023