North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct
New ExpansionRepair Relocation _ X Relocation of Repair Area
Owner or Legal Representative Information: Name: Payton & Jordan Paxton Mailing address: 88 Priscilla Lane City: Fuquay Varina State: Nc Zip: 27526 Phone: 919-753-6303 Email: payterrose@gmail.com
Authorized Onsite Wastewater Evaluator Information: Name: Heath Clapp Certification #:#10057E Mailing address: 501 N. Salem Street City: Apex State: NC Zip: 27502 Phone: 919-629-6404 Email: hclapp@agriwaste.com
Site Location Information: Site address: 88 Priscilla Lane, Fuquay Varina, NC 27526 Tax parcel identification number or subdivision lot, block number of property: 0645-60-0170 Hectors Creek Subdivision, Lot 24 County: Harnett
System Information: Wastewater System Type: Daily Design Flow: 480 gallons Saprolite System: Yes X No Subsurface Operator Required: Yes X No Water Supply Type: Private Well X Public Water Supply Other:
Facility Type: X Residential 4 # Bedrooms 8 Maximum # of Occupants Business Type of Business and Basis for Flow:
Required Attachments: X Plat or Site Plan X Evaluation of Soil and Site Features by Licensed Soil Scientist
Attest: On this the <u>7th</u> day of <u>JULY</u> , <u>2025</u> by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, Interby/Witest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina.
Signature of Authorized Onsite Wastewater Evaluator: Hath Upp Signature of Owner or Legal Representative: Payton Paxton
Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.
Local Health Department Receipt Acknowledgement: Signature of Local Health Department Representative:Date:



Agri-Waste Technology, Inc. 501 N Salem Street, Suite 203, Apex, NC 27502 agriwaste.com | 919.859.0669



Soil Suitability for Domestic Sewage Treatment and Disposal Systems 88 Priscilla Lane, Fuquay Varina, NC 27526 (PIN: 0645-60-0170; Harnett County)

PREPARED FOR:	Payton & Jordan Paxton, Clients
PREPARED BY:	Heath Clapp, Senior Soil Scientist, AOWE
DATE:	July 7, 2025

Soil suitability for a domestic sewage treatment and disposal repair system relocation was evaluated on July 2, 2025, for the property located at 88 Priscilla Lane in Fuquay Varina, NC. A topographical study was performed on July 2, 2025. Heath Clapp of Agri-Waste Technology, Inc. (AWT) conducted the soil evaluation. This evaluation was done to facilitate permitting for relocating the repair septic system. This report and attached documents were prepared to meet the requirements for an Authorized On-Site Wastewater Evaluator to meet G.S. 130A-336.2

A drawing of the site plan, septic layout, and boring locations is included in Attachment 1. Profile descriptions for each boring are included in Attachment 2. Additional documentation about the property is included in Attachment 3.

Site Conditions

The total property area is approximately 1.23 acres. The property is partially open and partially wooded. There is an existing house being served by public water and a functioning gravity septic system currently on the property. AWT did not permit/inspect the installation or current condition of the existing septic system, therefore AWT takes no liability for the function of the existing septic system, permitted through the Harnett County Health Department (Permit# SFD-2201-0008). There is also an auxiliary building on the property. The drawing in Attachment 1 details the property boundaries, house location, auxiliary building location, boring locations, and layout of drain field trenches (Completed by AWT).

Soil Suitability for Domestic Sewage Treatment and Disposal Systems

Multiple soil borings were assessed on the property. Soil borings were examined to determine soil suitability for on-site sewage disposal systems in accordance with 15A NCAC 18E: Wastewater Treatment and Dispersal Systems. These borings were advanced with a hand auger. All soil borings shown are suitable for a conventional style

trench. The proposed LTAR (Long Term Acceptance Rate) by AWT is 0.3 GPD/ft^2 . The soils on this property are group IV soils within the distribution and treatment zone as used to define the LTAR. The maximum trench bottom should not exceed 21".

Field Layout & System Design

A septic layout was performed to demonstrate available space (.0508) for a repair system to be installed if necessary in the relocated repair area. The layout in Attachment 1 indicates there is available space for a four-bedroom repair system utilizing a PPBPS T&J Panel (50% reduction product) (repair). With an LTAR of 0.3 GPD/ft², 267 linear feet of trench is necessary to support a four-bedroom home repair system. The attached drawing proves that 276 linear feet of trench can be installed with the location of the existing structures on the property.

Any disturbances or grading done in the usable soils (relocated repair) area may change the potential of using the area designated for a repair drain field and can result in a revoked permit.

We appreciate the opportunity to assist you in this matter. Please contact us with any questions, concerns, or comments.

Sincerely,

Heath Clapp, Senior Soil Scientist, AOWE

Heath Clapp



Agri-Waste Technology, Inc. 501 N Salem Street, Suite 203, Apex, NC 27502 agriwaste.com | 919.859.0669

SOIL & SITE EVALUATION for ON-SITE WASTEWATER SYSTEMS

Evaluation Date
PIN/Parcel
Proposed Facility
Water Supply

7/2/2025	
645600170	
SFR	
Private Well	0

Site Location Property Size Bedrooms Design Flow (.0400)

88 Priscilla Lane, Fuquay Varina, NC	
1.23	
4	١
480	

County Property Recorded Wastewater Strength Evaluation Method Harnett Yes Domestic Auger

			Soil	Morphology		Other	Factors		ļ		
Profile #	.0502 Landscape Position Slope %	Horizon Depth (in)	.0503 Struct ure Textur e	.0503 Consistence Mineralogy	.0504 Soil Wetness Color	.0505 Soil Depth (in)	.0506 Saprolite	.0507 Restrictive Horizon	.0509 Profile Class LTAR	.0502(d) Slope Correction	
		A 0-6"	SL	NS, NP, VFr	7.5YR 5/4						
		Bt1 6-24"	С	SS; SP; Fi-Fr	2.5YR 4/6	40	S	S	0.3	4.8	
1	12%	Bt2 24-40"+	С	SS, SP, Fr	2.5YR 5/6						
					7.5YR 7/8		System Type		Con	ventional	
			•				-				

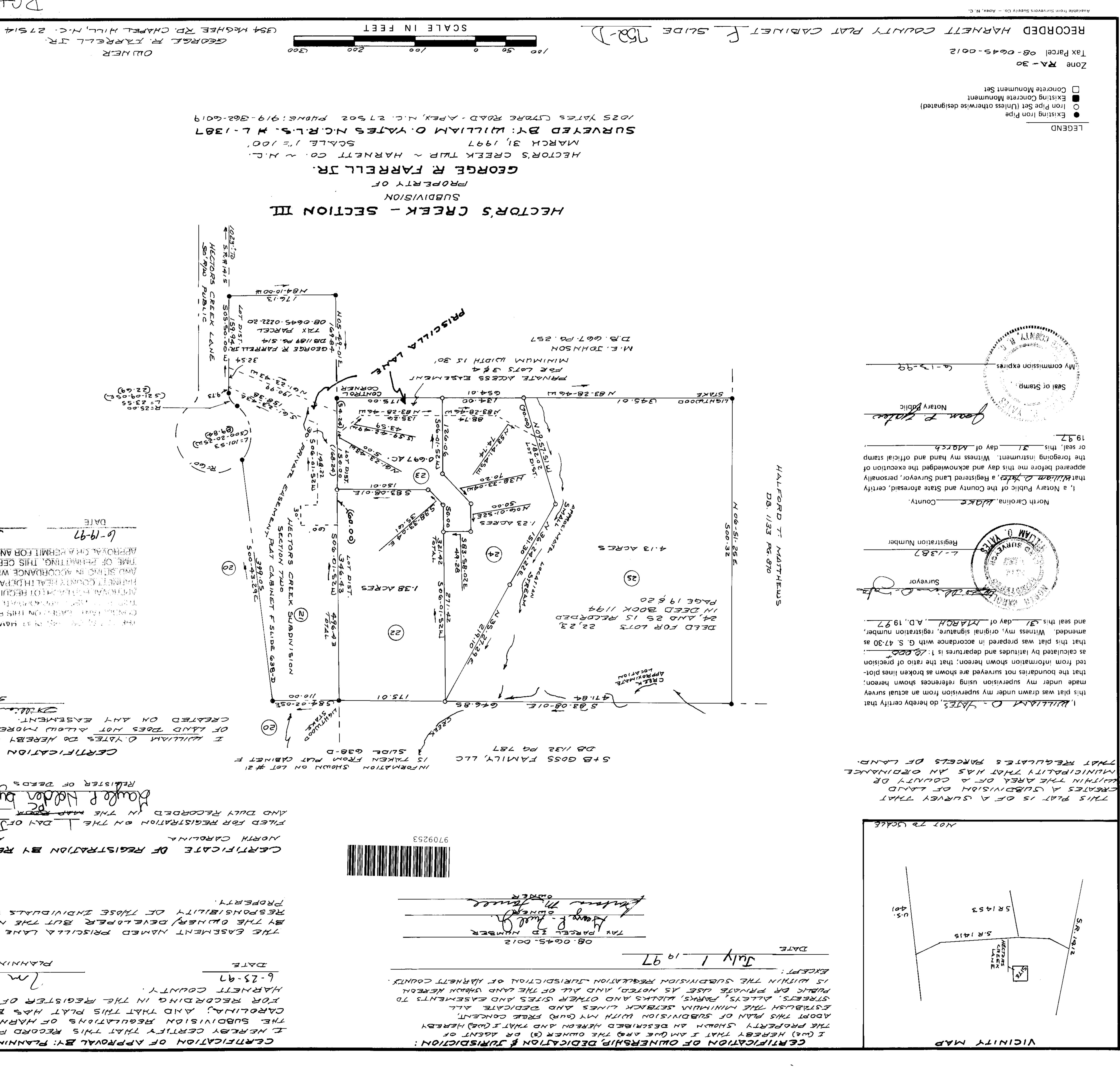
					7.5YR 7/8		System Type		Con	ventional
2	10%	Bt2 21-38"+	С	SS, SP, Fr	2.5YR 5/6					
		Bt1 6-21"	С	SS; SP: Fi-Fr	2.5YR 4/6	38	S	S	0.3	4
		A 0-6"	SL	NS, NP, VFr	7.5YR 5/4					

			7.5YR 7/8				System Type		Con	ventional
3	9%	Bt2 27-38"+	С	SS, SP, Fr	2.5YR 5/6					
		Bt1 6-27"	С	SS; SP: Fi-Fr	2.5YR 4/6	38	S	S	0.3	3.6
		A 0-6"	SL	NS, NP, VFr	7.5YR 5/4					

					7.5YR 7/8		System Type		Con	ventional
4 1	12%	Bt2 18-38"+	С	SS, SP, Fr	2.5YR 5/6					
		Bt1 4-18"	С	SS; SP; Fi-Fr	2.5YR 4/6	38	8 S	S	0.3	4.8
		A 0-4"	SL	NS, NP, VFr	7.5YR 5/4					

REDC DDB 7775 Project No. 97-20 OWNER ENVIRONMENTEL HEALTH 31 A G المراجع 16-61-9 APPROVAL CHAMITEOR ANY SITE WORK. LIME OF PERMITTING, THIS CERTIFICATION DOES NOT REPRESENT WAD STEND IN ACCORDANCE WITH REGULATIONS IN FORCE AT THE FINERED COUNTY REALTH DEPARTMENT PERMITS FOR SPECIFIC USE VEDROVAL AND LADER OURES ISSUANCE OF THE APPROPRIATE NO (S)TOL TAHT SHABIGHA TELVA HVER SHEL NO 1984.0 HARA MERING BIAVIER A VE CETAU MEER BUAUE REEN EVALUATED BY A PRIVATE SIGNATURE VARVASVA LAN NO CATAAA OF LAND POES NOT ALL ALLOW MORE THAN SIX LOTS TO BE NOISINDERPS SIMLLANL LILLED LEBERT OC SELVE, O MV177107 I CERTIFICATION OF GURVEYOR: RELEIS OF DEEDS UDE MARYETT KILED FOR REGISTRATION ON THE DAY OF JULICATION ON THE DAY OF JULICATION ON THE DAY OF JULICATION ON THE MARNED COUNTY SOFIC TO RETENDER VE NOUTARTENDER TO ITADITION THE BEARD ON THE STARDINGNE JONE DON ALITISHOUSDE 3HL SI JONVALINAM 3HL LOS JJJG /JJANMO JHL NS ABATALSAI JE OL SI BART V77135182 OBWON LNBWBSV9 BHL FLATOBAIC PNINHAL \mathcal{M} LO SCITCIO HILSIDIE JAL NI DNICHODIE HOL CAROLINA, AND THAT THIS PLAN HAS BEEN ARA CANLOGAD HIYON 'NINUDO IIINYYN YD SWALYDDDIY WDISINIOBUS IH T NEBERA CEBLIEA LAND LADOBE BECOBE LOND LOND LOND T SOTOBAIC DNINNADA :YE JAVORAAA 70 NOITADIATAAD

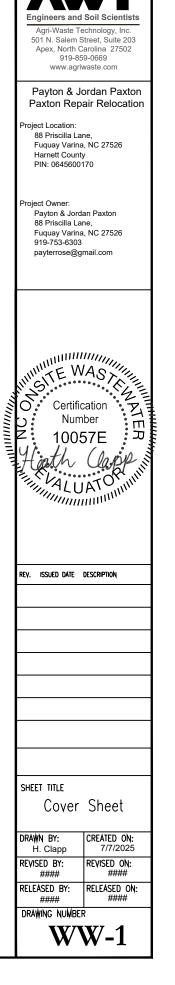
Docusign Envelope ID: 2C07F5E0-0F2D-4EAC-927C-426115965569



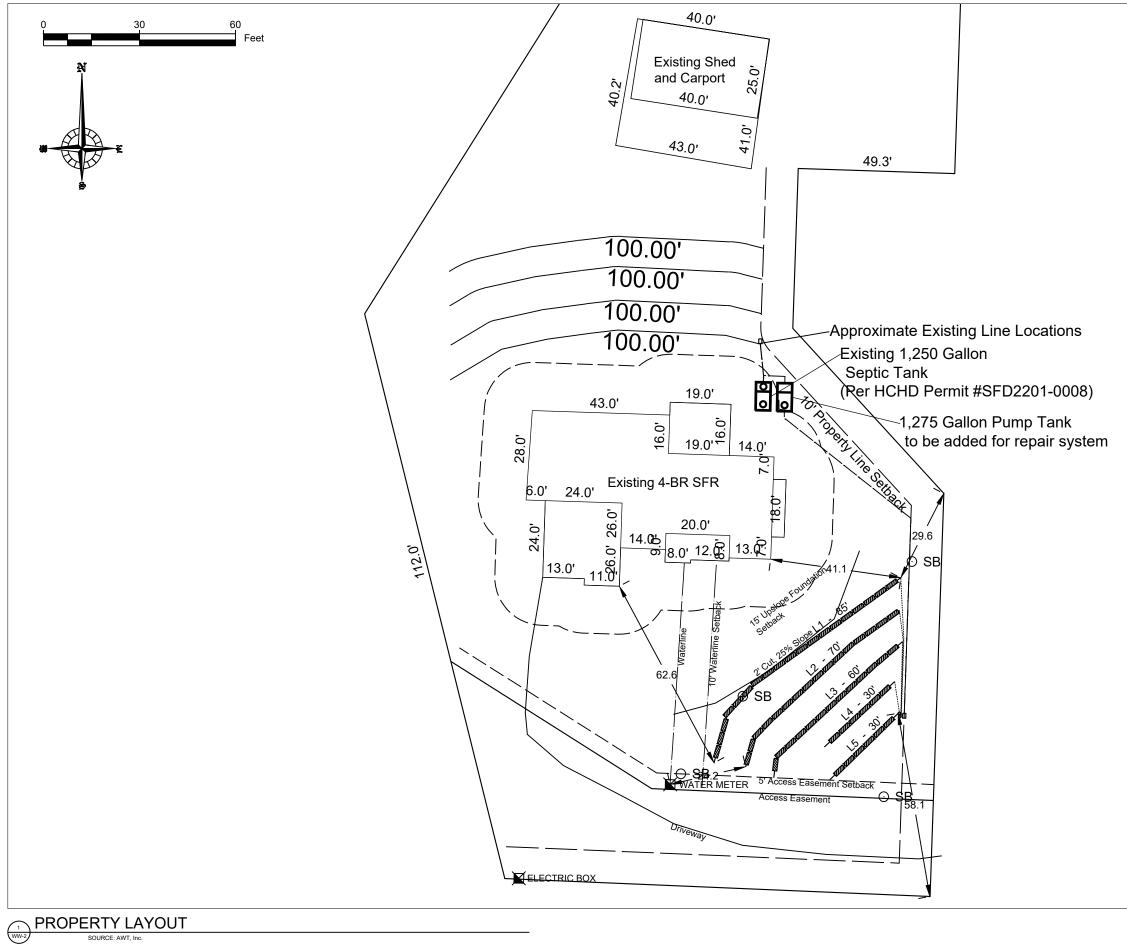
PAXTON REPA	IR RELOCATION
Project Location	88 Priscilla Lane,
	Fuquay Varina, NC 27526
	Harnett County
	PIN: 0645600170
Project Owner	Payton & Jordan Paxton
	88 Priscilla Lane,
	Fuquay Varina, NC 27526
	919-753-6303
	payterrose@gmail.com
Project Consultant	Heath Clapp, AOWE
	(919) 629-6404
	Agri-Waste Technology, Inc.
	501 N. Salem Street, Suite 203
	Apex, NC 27502
System Overview	Single Family Residence Repair Relocation
	480 GPD
	Pressure Manifold
	PPBPS T&J Panel (50% Reduction) Drainfield Product



Sheet Inde	ex	
Sheet 1	Cover Sheet	
Sheet 2	Property Layout	
Sheet 3p	Repair Drainfield	
Sheet 4	Detail Sheet 1	
Sheet 5	Detail Sheet 2	



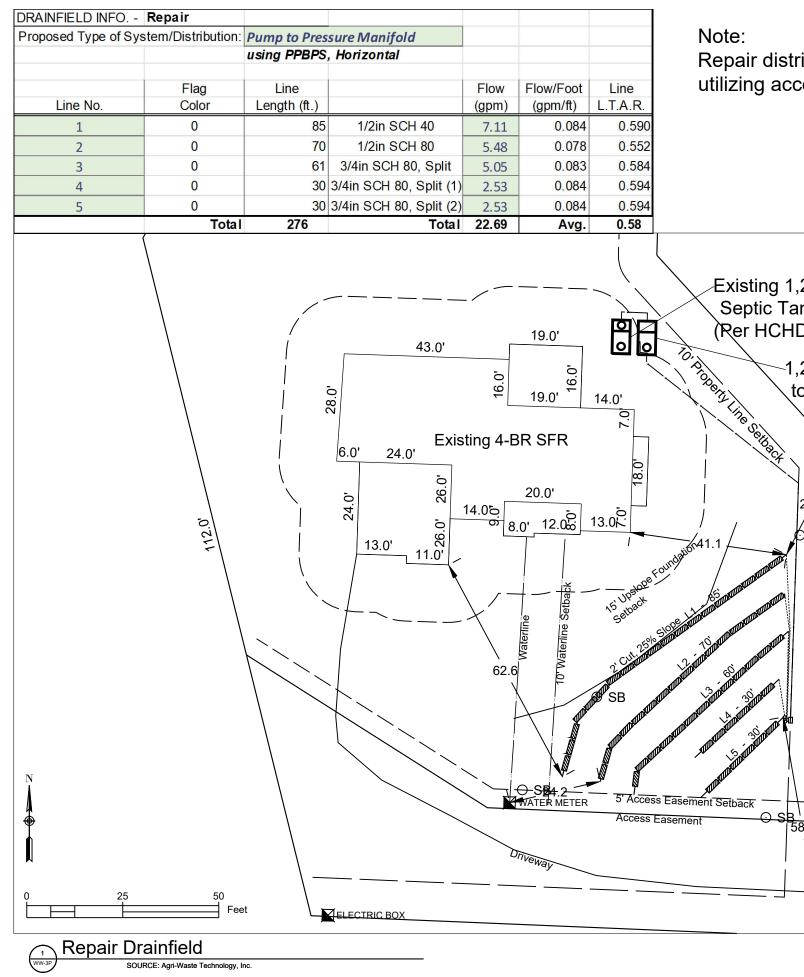




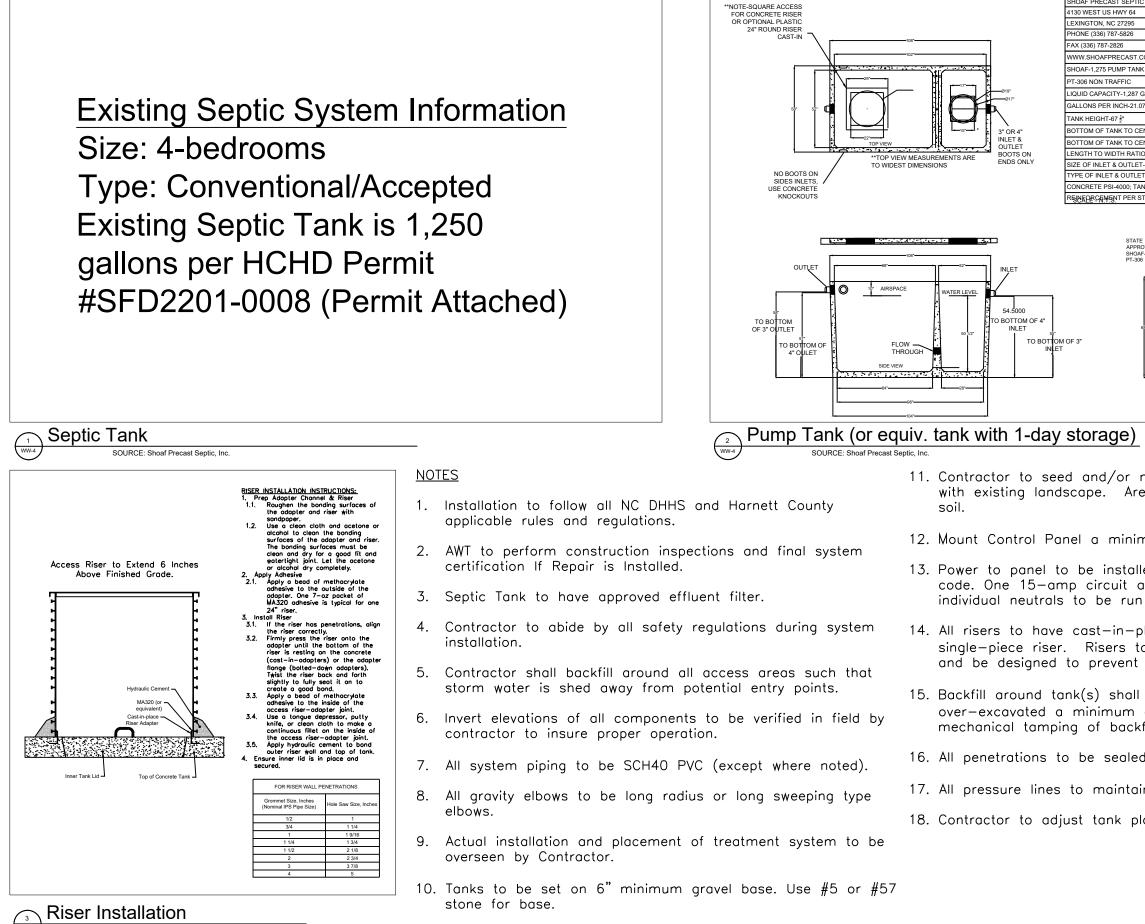
	Agri-Waste Technology, Inc. 501 N. Salem Street, Suite 203 Apex, North Carolina 27502 919-859-0669 www.agriwaste.com	
	Payton & Jordan Paxton Paxton Repair Relocation Project Location: 88 Priscilla Lane, Fuquay Varina, NC 27526 Harnett County PIN: 0645600170	
	Project Owner: Payton & Jordan Paxton 88 Priscilla Lane, Fuquay Varina, NC 27526 919-753-6303 payterrose@gmail.com	
	Certification Number 2 10057E 2 Hoath Clapp	
	Rey, issued date description	
	Sheet Title	
	Property Layout	
	DRAWN BY: CREATED ON: H. Clapp 7/7/2025	
	REVISED BY: REVISED ON:	
	RELEASED BY: RELEASED ON: #####	
	drawing number WW-2	
_		

General Drainfield Notes:

- Clear all trees less than 8" in diameter (measured at a height 3' from soil surface) from the drainfield.
- 2. Vegetation that will re-grow from a cut stump shall be stumped or pulled from the ground. Stumps shall not be pushed over.
- 3. Drainfield area shall be cleared of all leaves, pine straw, debris, etc. The accumulated material shall be removed from the drainfield.
- 4. In clayey soils, sides of trenches shall be raked and limed per manufacturer's instructions.
- 5. Supply lines shall be installed with a minimum of 18" cover.
- 6. The trenches shall be backfilled appropriately so that no low areas are present.
- 7. Apply lime over the drainfield area as needed. Seed fine fescue over the drainfield at the rate recommended by the seed manufacturer. Hand rake the seed into the soil surface. Straw the seeded area at the rate of 1.5-2 bales per 1000 sq. ft.

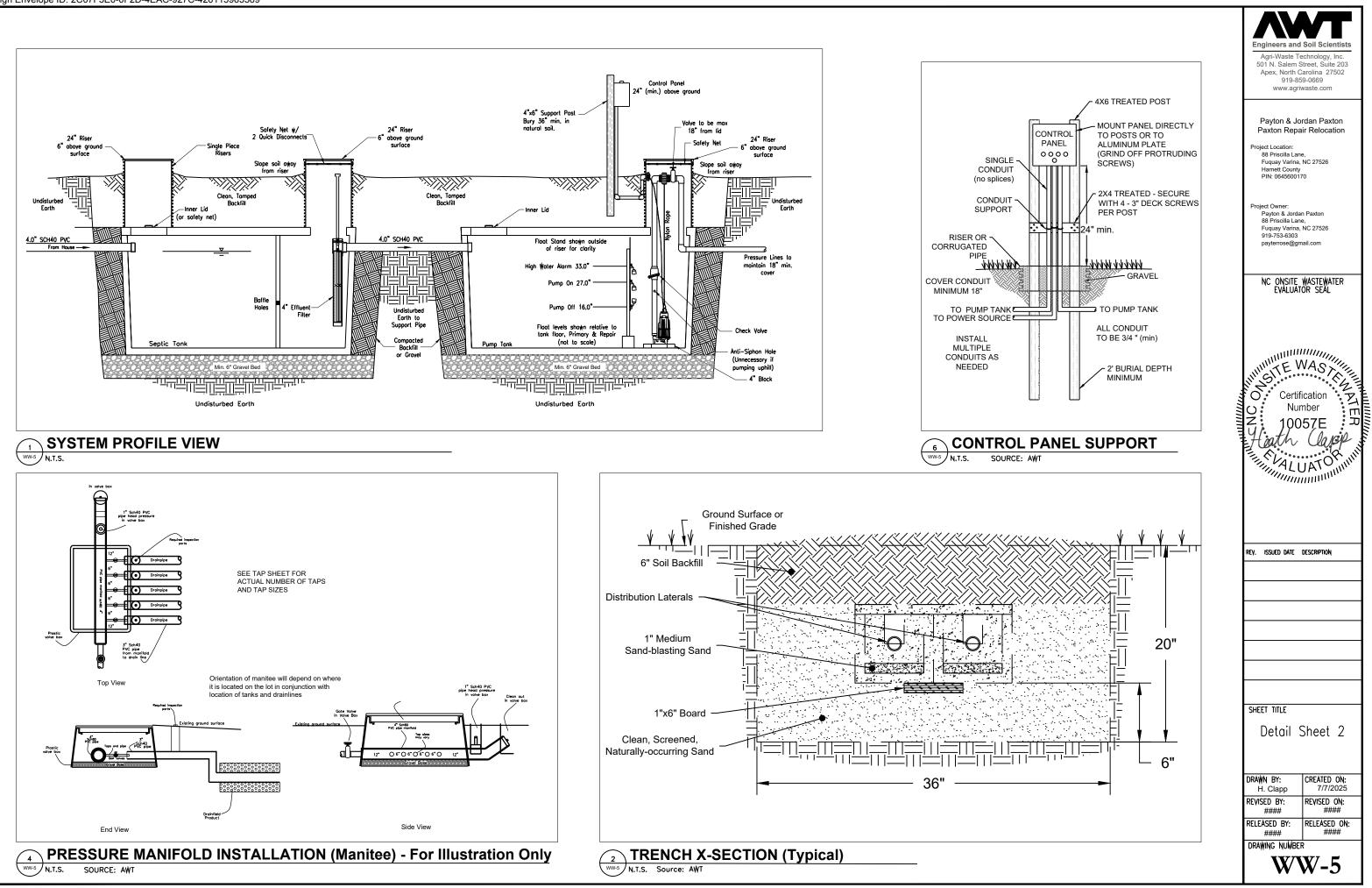


ribution is pressure manif cepted trench product.	Old Engineers and Soil Scientists Agri-Waste Technology, Inc. 501 N. Salem Street, Suite 203 Apex, North Carolina 27502 919-859-0669 www.agriwaste.com	-
	Payton & Jordan Paxton Paxton Repair Relocation Project Location: 88 Priscilla Lane, Fuquay Varina, NC 27526 Harnett Courty PIN: 0645600170	
,250 Gallon	Project Owner: Payton & Jordan Paxton 88 Priscilla Lane, Fuquay Varina, NC 27526 919-753-6303 payterrose@gmail.com	
nk D Permit #SFD2201-0008)	NC ONSITE WASTEWATER EVALUATOR SEAL	
,275 Gallon Pump Tank to be added for repair syste	Certification Number 10057E	IN ATER 2 III
	REY. ISSUED DATE DESCRIPTION	_
58.1	SHEET TITLE Repair Drainfield Repair Drainfield H. Clapp REVISED BY: #### RELEASED BY: #### RELEASED BY: #### RELEASED BY: #### RELEASED ON: ####	;
	WW-3P	•



Engineers and Soil Scientists Agri-Waste Technology, Inc. 501 N. Salem Street, Suite 203 Apex, North Carolina 27502 919-859-0669 www.agriwaste.com
Payton & Jordan Paxton
Paxton Repair Relocation Project Location: 88 Priscilla Lane, Fuguay Varina, NC 27526 Harnett County PIN: 0645600170
Project Owner: Payton & Jordan Paxton 88 Priscilla Lane, Fuquay Varina, NC 27526 919-753-6303 payterrose@gmail.com
NC ONSITE WASTEWATER EVALUATOR SEAL
O Certification Number 2 10057E
REY. ISSUED DATE DESCRIPTION
SHEET TITLE
Detail Sheet 1
DRAWN BY: CREATED ON: H. Clapp 7/7/2025
REVISED BY: REVISED ON: ##### ######
RELEASED BY: RELEASED ON:
drawing number WW-4

SHOAF PRECAST SE



Septic System Design - Summary Page

NWT	Project: Paxton Repair Relocation Property: 88 Priscilla Lane,	Date:	7/3/2025
Engineers and Soil Scientists	Fuquay Varina, NC 27526	County:	Harnett
Agri-Waste Technology, Inc. 501 N Salem Street, Suite 203, Apex, NC 27502	Subdiv.: Hectors Creek		
agriwaste.com 919.859.0669	Lot #: 24	Permit #:	SFD2201-0008
Project Manager:	Owner: Payton & Jordan Paxton		
Heath Clapp, LSS	Address: 88 Priscilla Lane,	Type of System:	#NAME?
hclapp@agriwaste.com	Fuquay Varina, NC 27526		
919-629-6404	Phone: 919-753-6303		
Designer:	Email: payterrose@gmail.com	PIN:	0645600170
Heath Clapp, LSS			
hclapp@agriwaste.com	EHS:		

Soil Parameters

Soil Evaluation By:

Special Conditions/Notes:

LTAR: 0.30 gpd/ft^2

Design Parameters

Type of Establishment: Dwelling Units, no more than 2 persons per bedroom Unit: Bedroom # of Units: 4

Septic Tank Specifications

Min. Tank Capacity: 960 gal Actual Tank Volume: 1,250 gal Tank Manufacturer: N/A Tank Model: N/A

Repair Draintield Specifications

Type of Distribution:	Parallel		0	Trench Bottom Area:	800	ft ²
Trench Media:	PBPS, Ho	orizontal		Minimum Drain Line:	267	ft
Trench Width:	3	ft		Actual Drain Line:	276	ft
Trench Depth:	21	in.		Number of Lines:	5	
(or as sp	ecified o	n permit)		Minimum Line Spacing:	8	ft O.C.

Wastewater Treatment System Design Calculations

Project:	Paxton Repair Relocation
Location:	88 Priscilla Lane,
	Fuquay Varina, NC 27526
County:	Harnett

Septic Tank Sizing

Daily Flow Estimate:	Unit	# of Units	Flow/Unit	Flow/Day	
	Bedroom	4	120	480	
			Q=	480	gpd

Septic Tank Minimum Capacity:

Per NCAC T15A:18A .1952(b)(2)(A):

For large residences, multiple dwelling units, or places of business or public assembly with Q <= 600,

Minimum Liquid Capacity (V)= 960 gal

Septic Tank Specs:	Manufacturer:	Shoaf		
	Model:	TS 1250 STB		
	Volume:	1,250	gal	
	Weight:	11,000	lbs	
		F 1		
	_	Exterior	Interior	_
	Length:	125.5	119.5	in.
	Width:	65.5	59.5	in.
	Depth:	61.5	54.5	in.
	Shane of Risers	Circular		

Shape of Risers: Circular Diameter: 2.00 ft

Pump Tank Storage & Float Settings

Project:	Paxton Repair Relocation		
Location:	88 Priscilla Lane,		
County:	Fuquay Varina, NC 27526 Harnett		
Tank Manu	ufacturer	Shoaf	
Tank Model		TS 1275 PT	

Interior Height (in.) 60.5 in		
Avg. Storage 21.07 g	al/in.	
Repair System		
Elevations, measured from bottom	towards top (0	= Interior Bottom of Tank):
Top of pump (including 4" block)	16.1 in.	(Pump height = 12 1/8")
Pump Off	18.0 in.	
Pump On	29.0 in.	(set for dose volume)
Alarm On	35.0 in.	(6 in. above On Float)
Emergency Storage Available		
Pump Tank	537 gal	
Days of Storage	1.12 days	
(determined from "interior top of tank" - "High		

ELEVATIONS

Project: Paxton Repair Relocation Location: 88 Priscilla Lane, Fuquay Varina, NC 27526 County: Harnett

Benchmark BM Elev	0 0 ft	
Septic Tank	1,250 gal	
Ground Surface	1,250 841	305.80 ft
Depth of Soil Cover	12 in.	1.00 ft
Overall Ht of Tank	61.5 in.	5.13 ft
Elev, Base of Tank		299.68 ft
Ht to 4" Inlet Invert	50 in.	4.17 ft
Elev, 4" Inlet Invert		303.84 ft
Ht to 4" Outlet Invert	48 in.	4.00 ft
Elev, 4" Outlet Invert		303.68 ft
Gravel Base	6 in.	0.50 ft
Elev, Bot of Excavation		299.18 ft
Pump Tank	1287 gal	
Ground Surface		304.60 ft
Depth of Soil Cover	12 in.	1.00 ft
Overall Ht of Tank	67.5 in.	5.63 ft
Elev, Base of Tank		297.98 ft
Ht to 4" Inlet Invert	57 in.	4.75 ft
Elev, 4" Inlet Invert		302.73 ft
Ht to 2" Outlet Invert	54.5 in.	4.54 ft
Elev, 2" Outlet Invert		302.52 ft
Gravel Base	6 in.	0.50 ft
Elev, Bot of Excavation		297.48 ft
ST Inlet Pipe		
Grade @ Stub-out		307.4 ft
Depth of Stub-out, top		1.5 ft
Elev, Stub-out Invert		305.55 ft
Elev @ ST Inlet Invert		303.84 ft
Length		14.5 ft
Slope		11.8 %
Pipe, ST to PT		
ID	4 in.	0.33 ft
OD	4.5 in.	0.38 ft
Elev, ST Outlet Invert		303.68 ft
Elev, PT Inlet Invert		302.73 ft
Length		10.7 ft
Slope		8.9 %
Cover over inlet pipe		1.60 ft
Pump Reqmt.		
Floor Thickness	4 in.	0.33 ft
Elev, Pump Tank Floor		298.31 ft
Pump Block Ht.	4 in.	0.33 ft
Elev, Pump Intake		298.64 ft
Not used		ft
Grade @ Repair Manifold		317.20 ft
Min. Cover	18 in.	1.50 ft
Max Elev, Primary	—	-1.50 ft
Max Elev, Repair		315.70 ft
Elev Diff, Primary		-300.14 ft
Elev Diff, Repair		17.06 ft

Drainfield Design

Project	Paxton Repair Relocation
Location	88 Priscilla Lane,
	Fuquay Varina, NC 27526
County	Harnett

Drainfield Sizing

Primary			
LTAR	0 gpd/ft ²		
Daily Design Flow	480 gpd	Type of Drainfield Media	0
Req. Drainfield Area	ft ²	Required Drainline	
Trench Width, Eff.	#N/A ft	#N/A	#VALUE! ft
Required Drainline	ft	Minimum Line Spacing	#N/A ft (O.C.)
Repair			
LTAR	0.3 gpd/ft ²		
Daily Design Flow	480 gpd	Type of Drainfield Media	PPBPS, Horizontal
Req. Drainfield Area	1,600 ft ²	Required Drainline	533 ft
Trench Width, Eff.	3 ft	After 50% Reduction	267 ft
Required Drainline	533 ft	Minimum Line Spacing	8 ft (O.C.)

Drainfield Layout

Line	Use	Flag Color	Elevation (ft)	Line Length (ft)	Used as Primary (ft)	Used as Repair (ft)
1	Layout Line			90		85.0
2	Layout Line			74		70.0
3	Layout Line			60		61.0
4	Layout Line			45		30.0
5	Layout Line			30		30.0
		299	0	276		
			Count	5	0	5

Note: Line length totals are shown to the nearest foot.

PRESSURE MANIFOLD SYSTEM DESIGN (Repair)

Site Information

Project:	Paxton Repair Relocation
Location:	88 Priscilla Lane,
	Fuquay Varina, NC 27526
County:	Harnett

Design Information

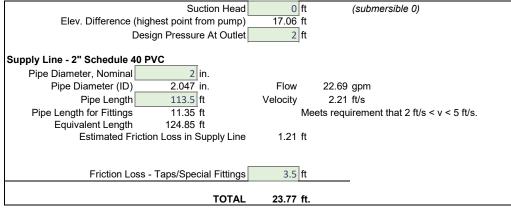
Est	imated Daily Flow	480	gal/day			
L.T.A.R. (from Harnett Co.)			gal/day/ft ²			
L.T.A.R. + 5%			gal/day/ft ²			
	Trench Width		ft.			
Line	Length Required	533				
	er 50% Reduction	267	ft			
	.T.A.R. Reduced	0.600	gal/day/ft ²			
L.T.A.	R. Reduced + 5%		gal/day/ft ²			
			5			
DRAINFIELD INFO	Repair					
Proposed Type of Sy	stem/Distribution:	Pump to Press	ure Manifold			
		using PPBPS	, Horizontal	1		
	Flag	Line		Flow	Flow/Foot	Line
Line No.	Color	Length (ft.)		(gpm)	(gpm/ft)	L.T.A.R.
1	0	85	1/2in SCH 40	7.11	0.084	0.590
2	0	70	1/2in SCH 80	5.48	0.078	0.552
3	0	61	3/4in SCH 80, Split	5.05	0.083	0.584
4	0	30	3/4in SCH 80, Split (1)	2.53	0.084	0.594
5	0	30	3/4in SCH 80, Split (2)	2.53	0.084	0.594
	Total	276	Total	22.69	Avg.	0.58
Note: Line lengths are calcula	ated in 4'4" increments	to reflect use of PP	BPS product.			
Total Run Time	21.15					
Drainfield Capacity	439.2	gai		. – .		
% of Drainfield Cap			(Max. 101.2% to not exceed 7.2 gal/panel)			
Dose Volume		gal/dose	Time to deliver we see 0.0			
Run Time/Dose		minutes	Time to deliver max. 3.6	U 1		
Volume/depth Estimated Drawdown	21.07	gal/in.	(Per tank manufacturer	s specifica	auons)	
Manifold Box	11.00					
Number of Taps	3	with	2	Split(s)		
Manifold Length	3.0	ft.	(approximate)	opin(o)		
			\ I I -······/			

PUMP DESIGN

System (initial/repair): Repair

Project:	Paxton Repair Relocation
Location:	88 Priscilla Lane,
	Fuquay Varina, NC 27526
County:	Harnett

Friction Losses



Flow for Anti-Siphon Hole

Hole Diameter	3/16	in.
Hole Flowrate	2.02	gpm

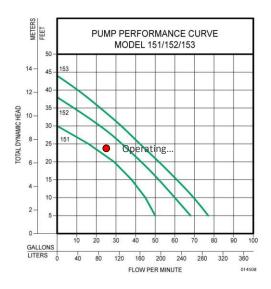
Pump Efficiency	0.7	(assumed, typical)
Motor Efficiency	0.9	(assumed for electric pumps)
Flow	24.71	gpm
uired Horsepower	0.24	hp

23.77 ft.

Required Horsepower TDH

Pump Selection

Manufacturer:	Zoeller
Model:	N152
Horsepower:	0.4



Septic Tank Buoyancy Calculation

Project:	Paxton Repair Relocation
Location:	88 Priscilla Lane,
	Fuquay Varina, NC 27526
County:	Harnett

Tank Size (nominal) 1250 gal

Properties/Assumptions:

Min. liquid level to be maintai	ned in tank at all tir	mes after initial installation.
Min. depth to water table	12.0 in.	from ground surface
Effluent Density	62.4 lb/ft ³	(Specific Weight of Water)
Concrete Density	142.6 lb/ft ³	
Soil App. Sp. Grav.	1.3	(typical value)
Soil Cover Over Tank	12 in.	(minimum)
Additional Cover	0 in.	for pipe grade
Unsubmerged wt of soil	81.1 lb/ft ³	
Submerged wt of soil	49.9 lb/ft ³	50% Porosity Assumed

Tank Dimensions (from supplier):

			<u>Exterior</u>		ł.	<u>Interior</u>			
			Тор	Bot	tom	Тор	В	ottom	_
T I	Tank	Length	125.5		122.0	11	9.5	116.0	in.
		Width	65.5		62.0	5	9.5	56.0	in.
		Height	58.5	(w/o	lid)	54	4.5		in.
	Lid	Length	125.5	in.					
		Width	65.5	in.					
		Height	3.0	in.					
	Area	a of Riser O	penings		6.28 f	ft ²			
Perm	anent Li	quid Depth	in Tank		0.0 i	in.		0.00	ft
				-					
		Tank	Weight	1	1,000 l	b	(pe	r manuf	acturer)

Buovancy	Force	Calculation.
Duoyunoy	1 0100	ouloululloit

В	Buoyancy Force Specific Weight of Water x Displaced Volume					
	Displaced Volume	281.4 ft ³ *				
	Buoyancy Force	17,558 lb.				

Weight Calculation:

Tank Weight	11000 lb		
Water Weight in Tank	0 lb	Volume	0.0 ft ³ *
Soil Weight Over Tank	4121 lb		
Soil Friction Force	4037 lb		
Total Weight	19,158 lb		

Factor of Safety = 1.09

Note: Total weight must be greater than buoyancy force so that tank will not float during high water table conditions.

* Volume calculated by the prismoidal formula.

Pump Tank Buoyancy Calculation

Project:	Paxton Repair Relocation
Location:	88 Priscilla Lane,
	Fuquay Varina, NC 27526
County:	Harnett

Tank Size (nominal) 1287 gal

Properties/Assumptions:

Min. liquid level to be mainta	ained in tank at all tim	nes after initial installation.
Min. depth to water table Effluent Density Concrete Density Soil App. Sp. Grav.	12 in. 62.4 lb/ft ³ 142.6 lb/ft ³ 1.3	from ground surface (Specific Weight of Water) <i>(typical value)</i>
Soil Cover Over Tank Additional Cover	12 in. 0 in.	(minimum) for pipe grade
Unsubmerged wt of soil Submerged wt of soil	81.1 lb/ft ³ 49.9 lb/ft ³	50% porosity assumed

Tank Dimensions (from supplier):

		Exte	erior	Inte	erior	
	_	Тор	Bottom	Тор	Bottom	
Tank	Length	108.0	104.0	102.0	98.0	in.
	Width	58.0	54.0	52.0	48.0	in.
	Height	64.5	(w/o lid)	60.5		in.
Lid	Length	108.0	in.			
	Width	58.0	in.			
	Height	3.0	in.			
А	rea of Riser	Openings	3.14	ft ²		
Permanen	t Liquid Dept	th in Tank	0.0	in.	0.00	ft
	Tar	nk Weight	10500	lb	(per manufa	acturer)

Buoyancy Force Calculation:

Buoyancy Force Specific Weight of Water x Displaced Volume						
Displaced Volume	232.5 ft ³ *					
Buoyancy Force	14,508 lb					

Weight Calculation:

Tank Weight	10500 lb		
Water Weight in Tank	0 lb	Volume	0.0 ft ³ *
Soil Weight Over Tank	3274 lb		
Soil Friction Force	4227 lb		
Total Weight	18,001 lb		

Factor of Safety = 1.24

Note: Total weight must be greater than buoyancy force so that tank will not float during high water table conditions.

* Volume calculated by the prismoidal formula.

Docusign Envelope ID: 2C07F5E0-0F2D-4EAC-927C-426115965569

Harnett County Department of Public Health	
PERMIT # SFD 2201-0008 Operation Permit	
🖂 New Installation 🖂 Septic Tank 🖾 Nitrification Line 🗆 Repair 🗆 Expa	nsion
PROPERTY LOCATION: JA 1415 RAWLS CHURCH RD	
Name: (owner) Tringle Home Pros SUBDIVISION Hectors week LOT # 24	
System Installer: <u>Adcock Excavation</u> Basement with plumbing: Garage W Number of Bedroops <u>4</u>	
Basement with plumbing: Garage I Number of Bedrooms <u>4</u> Type of Water Supply: Community I Public Well Distance from well <u>feet</u>	
System Type: 25% REDUCTION System Type EC EZUM. Types V and VI Systems expire in 5 years.	
(In accordance with Table V a) Owner must contact Health Department 6 months prior to expiration for permit renewal.	
This system has been installed in compliance with applicable North Carofina General Statutes, Rules for Sewage Ireatment and Disposal, and all conditions of the Improvement Permit and Construction Authorization.	
25% Repaired. 1	
71 Antest	
2 2 2 2 0	
Xel S	
T III	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
15 To To	
80° PT 25° 4°	
The yorn	
3FD 58	
R	
30'*	
94	
PERMIT CONDITIONS: I. Performance: System shall perform in accordance with Rule . 1961. Phiscolly Lance	
II. Monitoring: As required by Rule . 1961.	
III. Maintenance: As required by Rule .1961. Other:	
If yes, see attached sheet for additional operation conditions, maintenance and reporting.	
IV. Operation:	
V. Other:	
	WR Line
Following are the specifications for the sewage disposal system on the above captioned property.	
Type of system: Conventional Other <u>75% PADUCTION</u> Septic Tank: <u>1250</u> gallons Pump Tank: <u>gallons</u> Subsurface No. of exact length width of depth of	allons
Drainage Field ditches $\underline{4}$ of each ditch $\underline{100}$ feet ditches $\underline{3}$ feet ditches $\underline{20^{11}}$ inch	25
French Drain Required: Linear feet	
Authorized State Agent and Manhon tor 13HS Date 10-18-22	
Authorized State Agent Anna MANNA Date 10-10-10-12	

ACORD [®] C	ERT	ΊFI	ICATE OF LIAI	BILI		JRANC	E		MM/DD/YYYY) 20/2025
THIS CERTIFICATE IS ISSUED AS A CERTIFICATE DOES NOT AFFIRMAT BELOW. THIS CERTIFICATE OF INS REPRESENTATIVE OR PRODUCER, A	IVELY SURAN	OR ICE	NEGATIVELY AMEND, DOES NOT CONSTITUT	EXTE	ND OR ALTI	ER THE CO	VERAGE AFFORDED	TE HOL BY THE	DER. THIS POLICIES
IMPORTANT: If the certificate holder If SUBROGATION IS WAIVED, subject this certificate does not confer rights t	to the	e teri	ms and conditions of th	e polic	cy, certain po	olicies may i			
PRODUCER				CONTA NAME:		/			
Hartsfield & Nash Agency, Inc. 10405 Ligon Mill Rd., Ste H				PHONE	o, Ext): 984-23	5-4273	FAX (A/C. No): 919-55	6-8758
Wake Forest NC 27587				E-MAIL	ss: connie@l	hartsfield-nas	h.com		
							DING COVERAGE		NAIC #
			License#: 1000009111						39926
INSURED			AGRITEC-01	INSURE	кв: Accident	Fund			10166
Agri-Waste Technology Inc 501 N. Salem St Ste 203					R c : Evansto		Company		35378
Apex NC 27502				INSURE	RD:				
				INSURE	RE:				
				INSURE	RF:				
COVERAGES CER	TIFIC	ATE	NUMBER: 1304989694				REVISION NUMBER:		
THIS IS TO CERTIFY THAT THE POLICIES INDICATED. NOTWITHSTANDING ANY RE CERTIFICATE MAY BE ISSUED OR MAY EXCLUSIONS AND CONDITIONS OF SUCH	EQUIRE PERTA	EMEN IN, T	NT, TERM OR CONDITION	of an' Ed by	Y CONTRACT	OR OTHER I S DESCRIBEI	DOCUMENT WITH RESPI	ECT TO	NHICH THIS
INSR TYPE OF WOUR WOR		UBR	POLICY NUMBER			POLICY EXP (MM/DD/YYYY)	LIM	ITS	
A X COMMERCIAL GENERAL LIABILITY			S 2253659		1/18/2025	1/18/2026	EACH OCCURRENCE	\$ 2,000	.000
CLAIMS-MADE X OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 300,0	,
							MED EXP (Any one person)	\$ 10,00	
							PERSONAL & ADV INJURY	\$ 2,000	
GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$4,000	,
POLICY X PRO- JECT LOC							PRODUCTS - COMP/OP AGG		,
OTHER:								\$,000
			S 2253659		1/18/2025	1/18/2026	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000	,000
X ANY AUTO							BODILY INJURY (Per person)	\$	
OWNED AUTOS ONLY SCHEDULED							BODILY INJURY (Per accident	t) \$	
X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
								\$	
A X UMBRELLA LIAB X OCCUR			S 2253659		1/18/2025	1/18/2026	EACH OCCURRENCE	\$ 2,000	,000
EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$ 2,000	,000
DED RETENTION \$								\$	
B WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			100003072		1/18/2025	1/18/2026	X PER OTH- STATUTE ER		
	N/A						E.L. EACH ACCIDENT	\$ 1,000	,000
(Mandatory in NH)							E.L. DISEASE - EA EMPLOYE	E \$1,000	,000
If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$ 1,000	,000
C Prof & Pollution Liability A Leased & Rented			MKLV3ENV104794 S 2253659		8/22/2024 1/18/2025	8/22/2025 1/18/2026	Each Claim Equipment	5,000 25,00	
			0 2200000		1,10,2020	1/ 10/2020			-
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (AC	ORD 1	101, Additional Remarks Schedul	e, may b	e attached if more	e space is require	l ed)	_	
CERTIFICATE HOLDER				CANO	CELLATION				
Artisan Custom Homes 21016 Catawba Avenue Cornelius NC 28031 USA				THE ACC AUTHO	EXPIRATION	N DATE THE TH THE POLIC	ESCRIBED POLICIES BE EREOF, NOTICE WILL Y PROVISIONS.		
					© 19	88-2015 AC	ORD CORPORATION.	All righ	nts reserved.

The ACORD name and logo are registered marks of ACORD