

## North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct

Owner or Legal Representative Information: STS Construction, LLC  Name: Josh Jones  Mailing address: 2661 NC 55 W City: Coats State: NC Zip: 27521  Phone: 919-605-8003  Email: josh@stsconstruction.com
Authorized Onsite Wastewater Evaluator Information:  Name: Alex Adams  Certification #: AOWE# 10021E  Mailing address: 1676 Mitchell Road City: Angier State: NC Zip: 27501  Phone: 919-414-6761  Email: alexadams@bcsoil.com
Site Location Information:  Site address: 1516 NC 55 W - Coats, NC 27521  Tax parcel identification number or subdivision lot, block number of property:  PIN# 0691-53-6093  County: Harnett
System Information:  Wastewater System Type: Type III (b)  Daily Design Flow: 360 gallons/day  Saprolite System: Yes X_No Subsurface Operator Required: Yes X_No  Water Supply Type: Private Well x_Public Water Supply Spring Other:
Facility Type: X_Residential3_# Bedrooms6_ Maximum # of Occupants Business
Requird_Attachments: xPlat_or_SiteplanxEvaluation of Soil and Site Features by Licensed Soil Scientist
Attest: On this the 15th day of December, 2023 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, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina. This NOI shall expire on 15th day of December, 2028.  Signature of Authorized Onsite Wastewater Evaluator:  Signature of Owner or Legal Representative:
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:

## Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761

alexadams@bcsoil.com

December 15, 2023 Project #1830

"This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-336.2

RE: 1516 NC 55 W - Coats, NC - 3-bedroom Single Family Residence (Harnett County PIN: 0691-53-6093 for STS Construction, LLC.

To whom it may concern:

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, ASC is providing the attached septic system design for a new single-family home sized for a 360 gallon/day septic system.

The suitable soils found on the subject property were somewhat variable in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

The initial and primary septic fields for the new home were sized based on a flow rate of 360 gallons/day and utilizing Accepted Status system for the initial and repair system. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary system on contour, see attached site plan for the primary system and repair. No underground utilities, water lines, or sprinkler systems shall be placed into the initial or repair septic areas. Installation must meet all state and local county regulations for septic system installation. The trenches must be installed in the same location as the site plan. If flags are missing at the time of installation, they must be remarked by Adams Soil Consulting staff. Contact Alex Adams at 919-414-6761. A preconstruction conference is required with the septic installer prior to construction activities at least 14 days in advance of construction activities.

This report does not guarantee the future function of any waste water disposal system installed.

If you have any questions regarding the findings on the attached site plan or in this report, please feel free to contact me anytime.

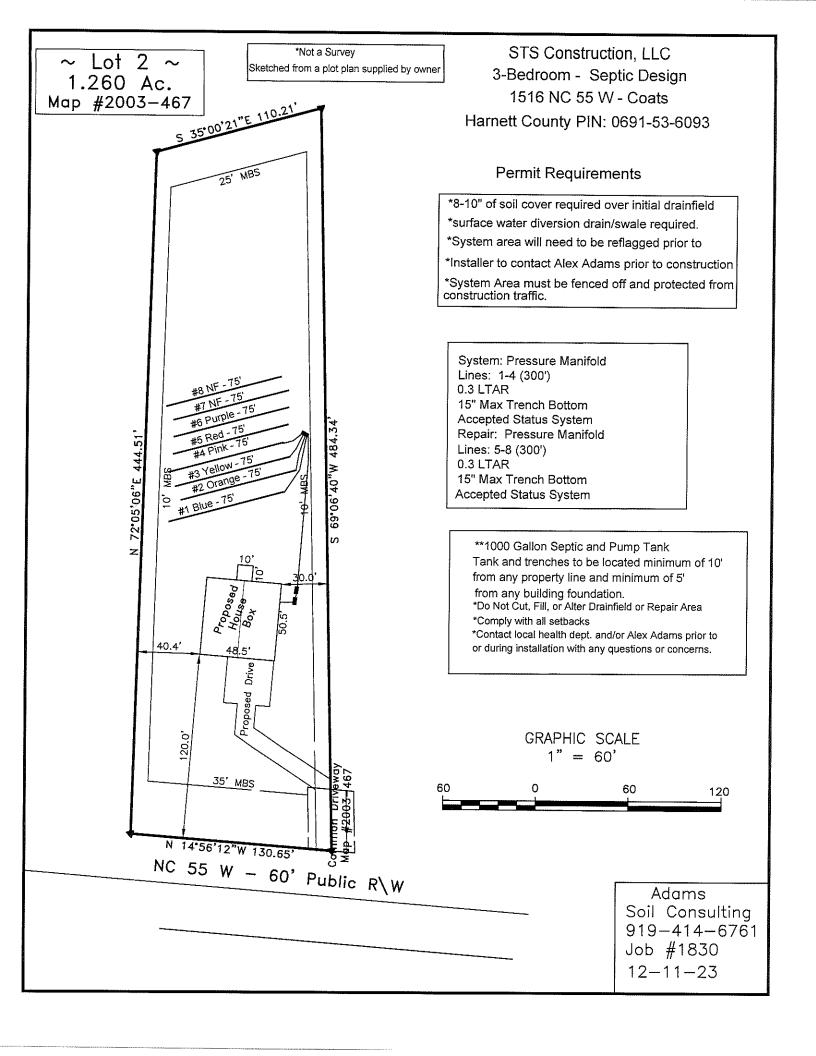
Sincerely,

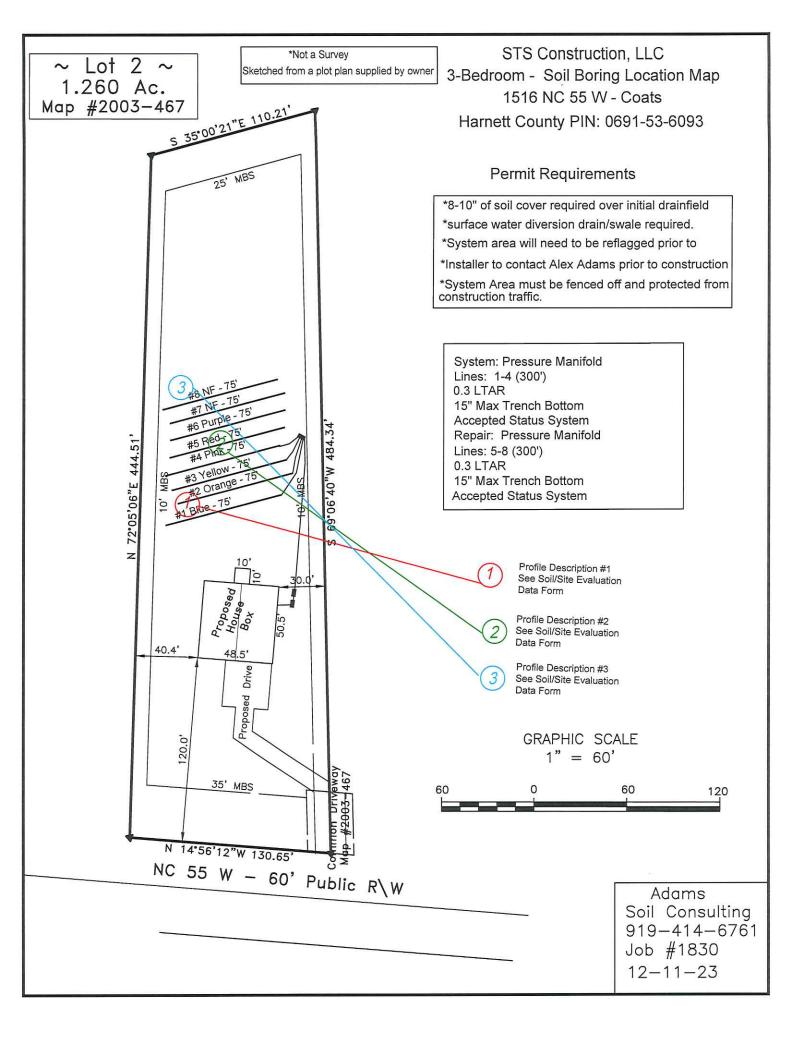
Alex Adams

NC Licensed Soil Scientist #1247 AOWE Certification: 10021E









#### SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: STS Construction, LLC

ADDRESS:

PROPOSED FACILITY: Single Family, 3-bedroom PROPOSED DESIGN FLOW (.1949): 360gpd

DATE EVALUATED: 12-5-23

APPLICATION DATE:

PROPERTY SIZE: ~1.26 Acres

LOCATION OF SITE: 1516 NC 55 W - Coats, NC 27521 WATER SUPPLY: Private Well

EVALUATION METHOD: Auger Boring

TYPE OF WASTEWATER: Sewage

P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON	MORP	SOIL HOLOGY 1941)	PI				
		DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 .195 SOIL SAPRO DEPT CLAS		.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear	0-16	GR/SL	FR/NS/NP/SEXP	28"	N/A	N/A	N/A	P.S .3
1	Slope/6%	16-32	SBK/C	FI/SEXP/S/P					
	Linear Slope/6%	0-8	GR/SL FR/NS/NP/SE		30"	N/A	N/A	N/A	P.S/.3
2		8-36	SBK/C	FI/SEXP/S/P					
	Clama/60/	0-8	GR/SL	FR/NS/NP/SEXP	30"	N/A	N/A	N/A	P.S/.3
3	Slope/6%	8-36	SBK/C	FI/SEXP/S/P					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):					
Available Space (.1945)	S	S	SITE CLASSIFICATION (.1948): U/PS					
System Type(s)	Type III (b)	Type III (b)	EVALUATED BY:A. Adams OTHER(S) PRESENT:					
Site LTAR	0.3	0.3						

# 1516 NC 55 W - Coats NC PRESSURE MANIFOLD DESIGN -Initial

STS Construction

# of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.3000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 900 System Type: Accepted

Number of Taps: 3 Length of Trenches: 300 ft(See Tap Chart for Details)

Depth of Trenches: 15 in Manifold Length: 36 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: 2.84 ft(supply line length + 70' for fittings in pump tank)

Design Head:  $\underline{2}$  ft Elevation Head:  $\underline{16.00}$  ft

Total Head: 20.84 ft Pump to Deliver: 28.44 gals/min at 20.84 ft head

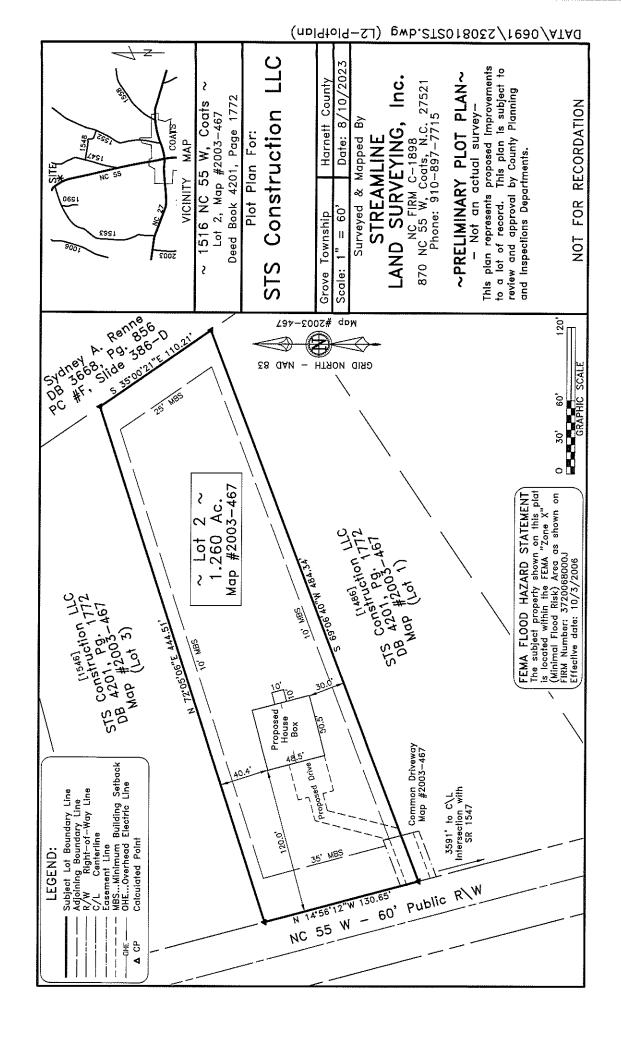
Dosing Volume: 137 gals,

Drawdown: 137 gals divided by 21.4 gals/in = 6.4 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

			E-1	AI CIIAI	<b>\ 1</b>						
Benchmark	<u>o</u>	is = 100.00	set at				Design Head:	2			Change in
Pump tank elev.		18	85.00	Pump elev.	80.00		Manifold elev.	96.00		# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
1		5.00	95.00	75	1/2in SCH 40	7.11	90.00	225	0.4000		
2		5.80	94.20	75	1/2in SCH 40	7.11	90.00	225	0.4000		
3		6.60	93.40	75	1/2in SCH 40	7.11	90.00	225	0.4000		
4		7.20	92.80	75	1/2in SCH 40	7.11	90.00	225	0.4000		
			Total Feet =	300	gal/min =	28.44		LTAR =	0.3000		
			Feet Required =		Velocity =	2.72		(Itar + 5%)	0.3150		
Total # of Panels	(PPRPS)			Des. Flow	360			(Itar w/25% red)	0.4000		
% of Dose Vol.	( )	70		Pump Run=				(Itar + 5%)	0.4200		
Dose Volume		137		Tank Gal/IN	21.4						
Dose Pump Time		4.80		Elev. Head	16.00						
Drawdown in Inch Comments:		6.4									





### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 4/7/2023

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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PRODUCER Wado Associatos IIC						PHONE (252) 631 – 5269 FAX (252) 649-2443							
Wade Associates, LLC						(A/C, No, Ext): (A/C, No):  E-MAIL ADDRESS: asensenig@wadeict.com							
250 Pollock St.												NAIC #	
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INSURED						INSURER B:							
Alex A	dams, DBA: Adams S	Soil Con	sult:	ing		INSURER C:							
1676 Mitchell Rd.						INSURER D:							
						INSURER E :							
Angier		NC 275				INSURER F:							
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DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)													
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*FOR INFORMATIONAL PURPOSES ONLY*  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX						SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE						D BEFORE	
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