



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 Expansion Repair Relocation Relocation of Repair Area

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: 1486 NC 55 W - Coats, NC 27521
 Tax parcel identification number or subdivision lot, block number of property:
 PIN# 0691-53-5277 County: Harnett

System Information:
 Wastewater System Type: Type III (b)
 Daily Design Flow: 360 gallons/day
 Sapro-lite System: Yes No Subsurface Operator Required: Yes No
 Water Supply Type: Private Well Public Water Supply Spring Other:

Facility Type:
 Residential 3 # Bedrooms 6 Maximum # of Occupants
 Business Type of Business and Basis for Flow: _____
 Public Assembly Type of Public Assembly and Basis for Flow: _____

Required Attachments:
 Plat or Siteplan
 Evaluation 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: Alex Adams
 Signature of Owner or Legal Representative: Josh Jones

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: 1486 NC 55 W - Coats, NC - 3-bedroom Single Family Residence (Harnett County
PIN: 0691-53-5277 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.

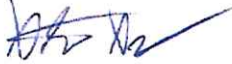
The initial and primary septic fields for the new home were sized based on a flow rate of 360 gallons/day and utilizing Accepted Status system for the initial and repair system. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

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



STS Construction, LLC
 3-Bedroom - Septic Design
 1486 NC 55 W - Coats
 Harnett County PIN: 0691-53-5277

Permit Requirements

- *6-10" of soil cover required over initial drainfield
- *System area will need to be reflagged prior to
- *Installer to contact Alex Adams prior to construction
- *System Area must be fenced off and protected from construction traffic.

System: Pressure Manifold
 Lines: 1-4 (300')
 0.3 LTAR
 15" Max Trench Bottom
 Accepted Status System
 Repair: Pressure Manifold
 Lines: 5-8 (300')
 0.3 LTAR
 15" Max Trench Bottom
 Accepted Status System

- **1000 Gallon Septic and Pump Tank
- Tank and trenches to be located minimum of 10' from any property line and minimum of 5' from any building foundation.
- *Do Not Cut, Fill, or Alter Drainfield or Repair Area
- *Comply with all setbacks
- *Contact local health dept. and/or Alex Adams prior to or during installation with any questions or concerns.

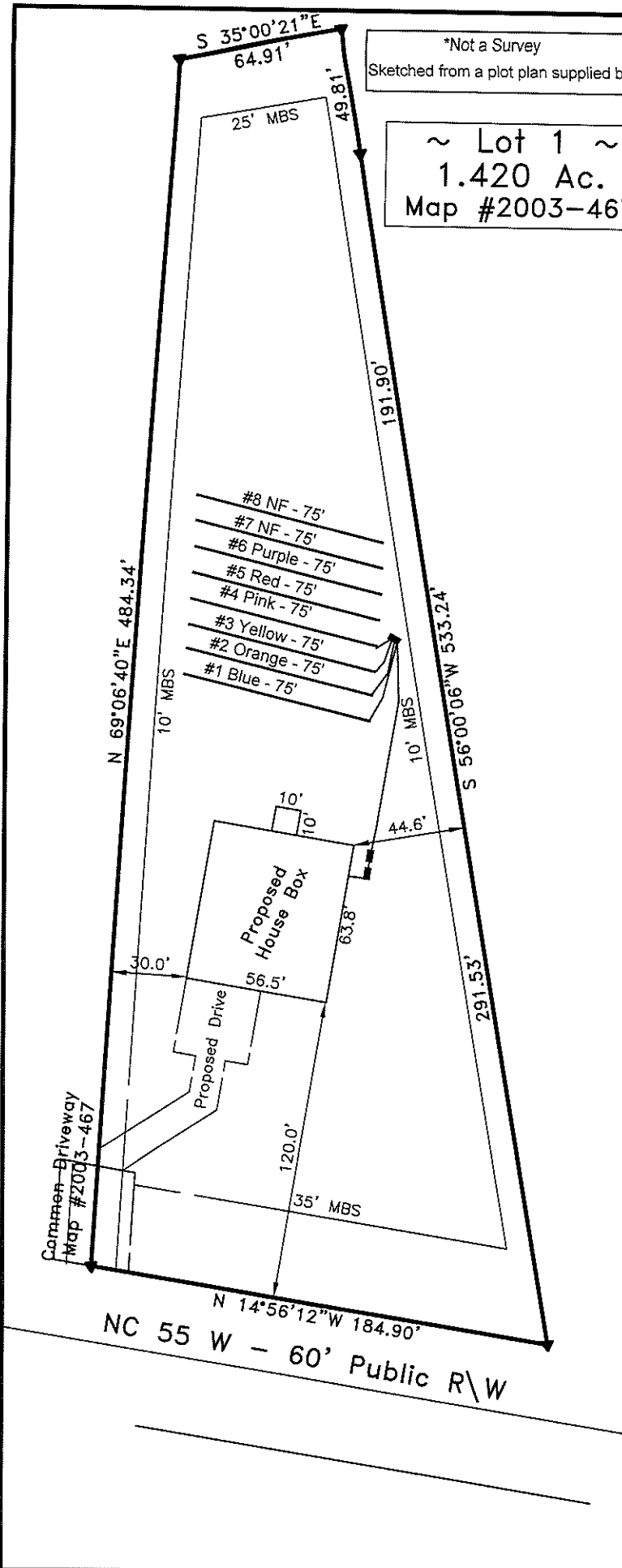
GRAPHIC SCALE
 1" = 60'



Adams
 Soil Consulting
 919-414-6761
 Job #1830
 12-11-23

*Not a Survey
 Sketched from a plot plan supplied by owner

~ Lot 1 ~
 1.420 Ac.
 Map #2003-467



Carman Driveway
 Map #2003-467

NC 55 W - 60' Public R\W

STS Construction, LLC
 Soil Boring Location Map
 1486 NC 55 W - Coats
 Harnett County PIN: 0691-53-5277

*Not a Survey
 Sketched from a plot plan supplied by owner

~ Lot 1 ~
 1.420 Ac.
 Map #2003-467

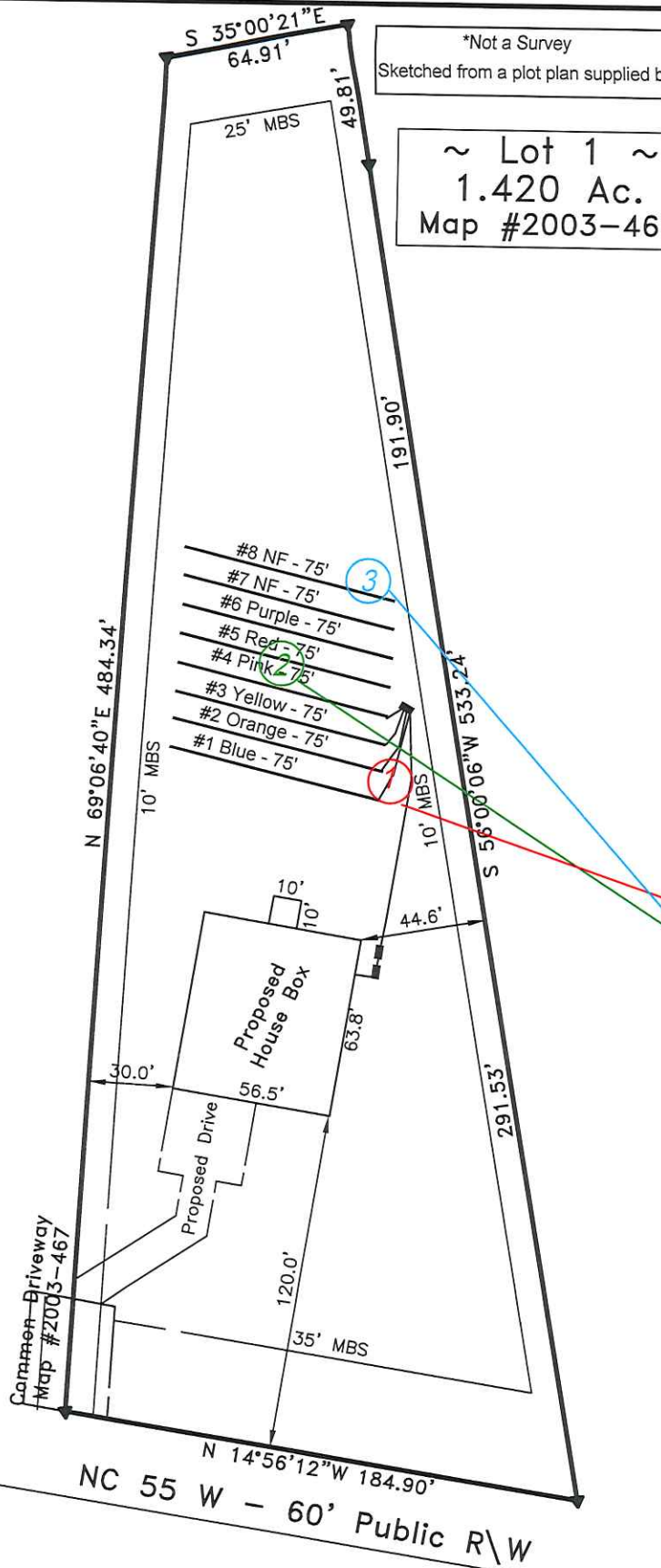
Permit Requirements

- *6-10" of soil cover required over initial drainfield
- *System area will need to be reflagged prior to
- *Installer to contact Alex Adams prior to construction
- *System Area must be fenced off and protected from construction traffic.

System: Pressure Manifold
 Lines: 1-4 (300')
 0.3 LTAR
 15" Max Trench Bottom
 Accepted Status System
 Repair: Pressure Manifold
 Lines: 5-8 (300')
 0.3 LTAR
 15" Max Trench Bottom
 Accepted Status System

- ① Profile Description #1
 See Soil/Site Evaluation
 Data Form
- ② Profile Description #2
 See Soil/Site Evaluation
 Data Form
- ③ Profile Description #3
 See Soil/Site Evaluation
 Data Form

GRAPHIC SCALE
 1" = 60'



Adams
 Soil Consulting
 919-414-6761
 Job #1830
 12-11-23

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

LOCATION OF SITE: 1486 NC 55 W – Coats, NC 27521

WATER SUPPLY: Private Well

EVALUATION METHOD: Auger Boring

APPLICATION DATE:

DATE EVALUATED: 12-5-23

PROPERTY SIZE: ~1.42 Acres

TYPE OF WASTEWATER: Sewage

P R O F I L E #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPT H	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	Linear Slope/6%	0-18	GR/SL	FR/NS/NP/SEXP	28"	N/A	N/A	N/A	P.S/.3
		18-32	SBK/C	FI/SEXP/S/P					
2	Linear Slope/6%	0-8	GR/SL	FR/NS/NP/SEXP	32"	N/A	N/A	N/A	P.S/.3
		8-36	SBK/C	FI/SEXP/S/P					
3	Linear Slope/6%	0-8	GR/SL	FR/NS/NP/SEXP	30"	N/A	N/A	N/A	P.S/.3
		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	

1486 NC 55 W - Coats NC

PRESSURE MANIFOLD DESIGN -Initial

Chamberlain Homes, LLC

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: 2 ft Elevation Head: 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

Benchmark	0	is = 100.00	set at	Pump elev.	80.00	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	gal/day	trench area	LINE LTAR	
				flow/tap				(PPBPS)	
								Spacing of	
								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 =				300	Velocity =	2.72	(ltar + 5%)	0.3150	
Des. Flow				360			(ltar w/25% red)	0.4000	
Pump Run=				12.66			(ltar + 5%)	0.4200	
Tank Gal/IN				21.4					
Elev. Head				16.00					
Total # of Panels (PPBPS)									
% of Dose Vol.				70					
Dose Volume				137					
Dose Pump Time				4.80					
Drawdown in Inches				6.4					
Comments:									

