

Adams Soil Consulting, PLLC
1676 Mitchell Road
Angier, NC 27501
919-414-6761
alexadams@bcsoil.com

September 24, 2024
Project #1215

RE: 230 Grading Stick Ct.- Angier, NC 27501– (Harnett County, NC PIN# 0693-25-9658)

OWNER ACCEPTANCE OF SEPTIC SYSTEM

I certify that Drees Homes is accepting the subsurface wastewater (septic) system installed at 230 Grading Stick Ct.. The acceptance includes the AOWE permit as issued and designed by Adams Soil Consulting, PLLC and installed by Full Circle Septic Services).

Owner's Representative (print): DocuSigned by:
Bradley Weckley _____
4E761125D09C444...

Owner's Representative – (Signature Date): 9/24/2024 | 1:01:29 PM EDT

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

September 24, 2024
Project #1215

This document is submitted in addition to the "Notice of Intent to Construct" submittal package previously supplied to the local health department in pursuant to G.S. 130A-336.1


RE: 230 Grading Stick Ct - Angier, NC 27501– (Harnett County, NC PIN# 0693-25-9658)

To whom it may concern:

This letter is to notify the Harnett County Environmental Health Department that the construction of the wastewater system has been completed. The system was installed to acceptable construction standards. The installation was constructed in conformance to the original construction documents. This document may serve as "Authorization to Operate" the installed system.

Operation and Management Program

Have the effluent filter in the septic tank cleaned periodically by a professional. Have the solids pumped out of the septic tank every 3-5 years by a professional. Maintain adequate vegetative cover over the drainfield. Keep surface waters away from the tank and drainfield. Do not pour grease or oil down the sink. Contact a professional for periodic maintenance.



Alex Adams
Adams Soils Consulting, PLLC
NC Licensed Soil Scientist #1247

Date



**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: Teri Treffzs
 Name: Drees Homes Company
 Mailing address: 211 Grandview Drive - Suite 102 City: Ft. Mitchell State: KY Zip: 41017
 Phone: 919-256-5478 Email: ttreffzs@dreeshomes.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: Lot #63 (Tobacco Road) Grading Stick Ct. - Angier, NC 27501
 Tax parcel identification number or subdivision lot, block number of property: PIN# 0693-25-9658
 County: Harnett

System Information: Accepted Status
 Wastewater System Type: Type III (g)
 Daily Design Flow: 600 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 5 # Bedrooms 10 Maximum # of Occupants
 Business Type of Business and Basis for Flow: _____
 Public Assembly Type of Public Assembly and Basis for Flow: _____

Require Attachments:
 Plat or Siteplan
 Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 24th Day of May 2024 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 24th day of May 2029.

Signature of Authorized Onsite Wastewater Evaluator: *Alex Adams*
Docusigned by:
 Signature of Owner or Legal Representative: *Bradley Weckley*
4E761125D09C444

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

May 3, 2024
Project #1215

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

RE: Tobacco Road -Lot #63, Grading Stick Ct. - Angier, NC - 5-bedroom Single Family Residence (PIN# 0693-25-9658)

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 18E. From this evaluation, ASC is providing the attached septic system design for a new single-family home sized for a 600 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.

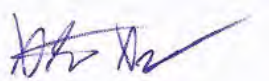
The initial and primary septic fields for the new home were sized based on a flow rate of 600 gallons/day and utilizing Accepted Status system for the initial and a PPBPS repair system. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the repair (if needed) 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 trench 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,



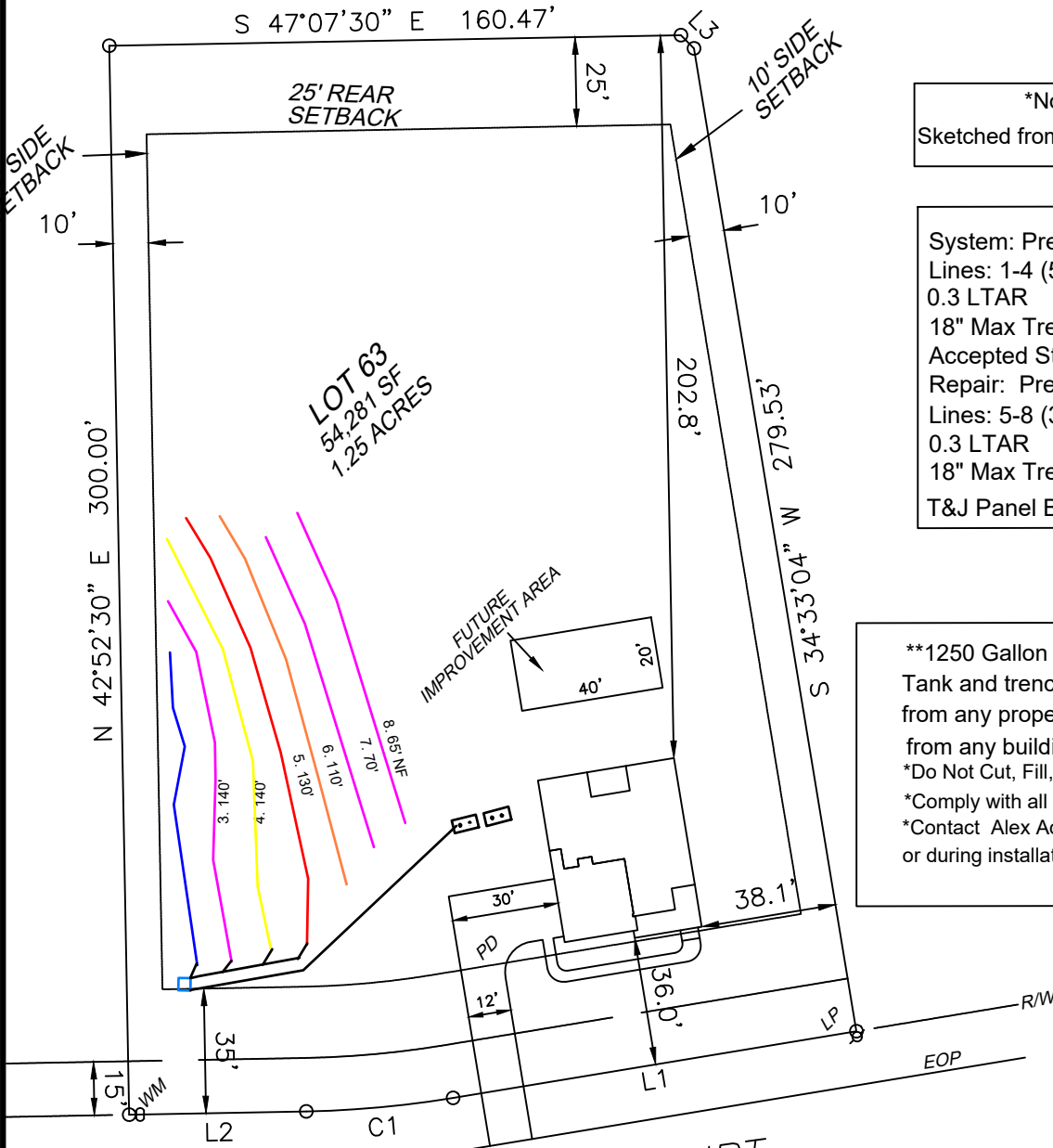
Alex Adams
NC Licensed Soil Scientist #1247
AOWE Certification: 10021E



Tobacco Road S/D
 5-Bedroom Septic Design
 Lot #63 - Looping Ct.

Drees Homes
 Harnett County PIN: 0693-25-9658

*Contact Alex Adams at least 10 days prior to installation.



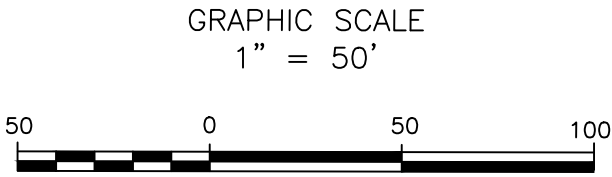
*Not a Survey
 Sketched from a plot plan supplied by owner

System: Pressure Manifold
 Lines: 1-4 (510')
 0.3 LTAR
 18" Max Trench Bottom
 Accepted Status System
 Repair: Pressure Manifold
 Lines: 5-8 (375')
 0.3 LTAR
 18" Max Trench Bottom
 T&J Panel Block - 50% Reduction System

**1250 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 Alex Adams prior to
 or during installation with any questions or concerns.

GRADING STICK COURT
 (50' PUBLIC R/W &
 UTILITY EASEMENT)

Adams
 Soil Consulting
 919-414-6761
 Job #1215
 5-24-24



Tobacco Road Lot 63 5 BR Harnett County

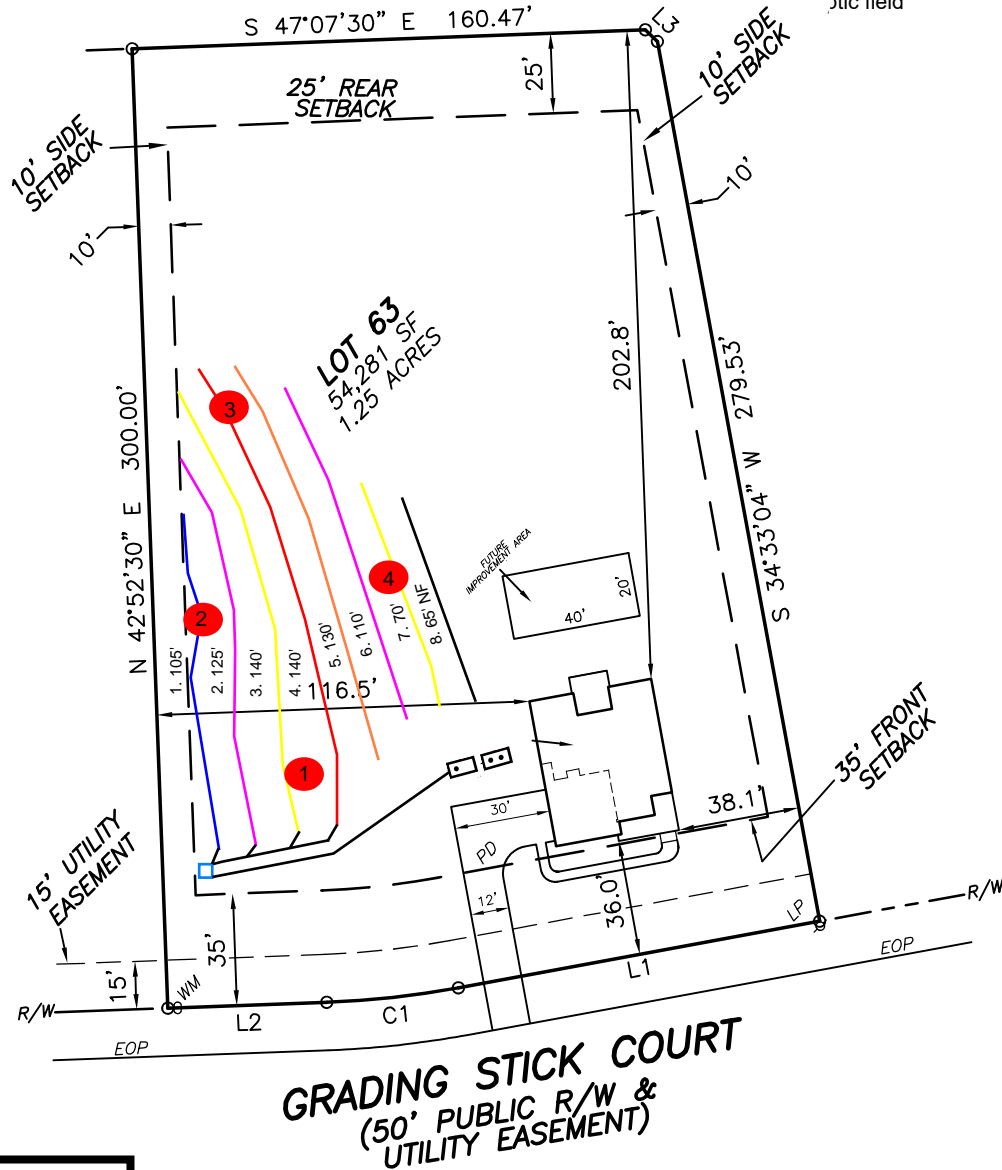
*House footprint to be field staked by surveyor and system verified prior to any construction

**Septic area must not be altered by construction activities.

***No cuts of 2' or greater within 15' of septic area

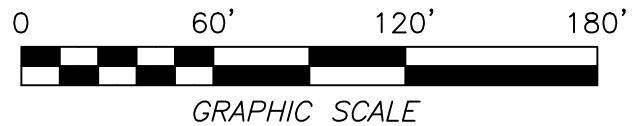
**** Recommend protective barrier around septic field during construction.

*If plumbing is not sufficient a p tank will be required toptic field



GRADING STICK COURT
(50' PUBLIC R/W & UTILITY EASEMENT)

INITIAL:
Lines 1-4 (510')
Accepted Status
Pressure Manifold
REPAIR:
Lines 5-8 (375')
PPBPS
Pressure Manifold



Adams
Soil Consulting
919-414-6761

RESIDENTIAL PRESSURE MANIFOLD DESIGN

Drees Homes

Lot 63 - Tobacco Raod

of BDR: 5 Daily Flow: 600 gal/day L.T.A.R.: 0.3000 gal/day/sq.ft

Septic Tank: 1250 gals Pump Tank: 1250 gals Sq. Foot: 1530 System Type: Accepted

Number of Taps: 3 Length of Trenches: 510 ft(See Tap Chart for Details)

Depth of Trenches: 18 in Manifold Length: 36 in

Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 130 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 3.02 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft Elevation Head: 7.00 ft

Total Head: 12.02 ft Pump to Deliver: 25.18 gals/min at 12.02 ft head

Dosing Volume: 232 gals,

Drawdown: 232 gals divided by 21.4 gals/in = 10.8 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

line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels (PPBPS)	Spacing of Panels (in)
1	Blue	5.00	95.00	105	1/2in SCH 80	5.48	130.58	315	0.4145		
2	Pink	5.70	94.30	125	1/2in SCH 80	5.48	130.58	375	0.3482		
3	Yellow	6.50	93.50	140	1/2in SCH 40	7.11	169.42	420	0.4034		
4	Red	7.20	92.80	140	1/2in SCH 40	7.11	169.42	420	0.4034		
				Total Feet =	510	gal/min =	25.18			LTAR =	0.3000
				Feet Required =	500	Velocity =	2.41			(ltar + 5%)	0.3150
				Des. Flow	600					(ltar w/25% red)	0.4000
				Pump Run=	23.83					(ltar + 5%)	0.4200
				Tank Gal/IN	21.4						
				Elev. Head	7.00						
Total # of Panels (PPBPS)											
% of Dose Vol.											
Dose Volume											
Dose Pump Time											
Drawdown in Inches											
Comments:											

Comments:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
 (Complete all fields in full)

OWNER: Drees Homes,
 ADDRESS:
 PROPOSED FACILITY: Single Family, 5-bedroom PROPOSED DESIGN FLOW (.1949): 600 gpd
 LOCATION OF SITE: Grading Stick Ct., Angier, NC, 27501
 WATER SUPPLY: Public Water
 EVALUATION METHOD: Auger Boring

APPLICATION DATE:
 DATE EVALUATED: 04/17/2024
 PROPERTY SIZE: 1.25 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 DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	Linear Slope/8%	0-26	GR/SL	VFR,NS,NP,SEXP	N.O	40"	N.O	N.O	P.S/.35
		26-40	SBK/SCL	FR,SS,SP,SEXP					
2	Linear Slope/8%	0-32	GR/SL	VFR,NS,NP,SEXP	N.O	40"	N.O	N.O	P.S .35
		32-40	SBK/SCL	FR,SS,SP,SEXP					
3	Linear Slope/8%	0-8	GR/SL	VFR,NS,NP,SEXP	N.O	33"	N.O	N.O	U/P.S .3
		8-33	SBK/C	FR,SS,SP,SEXP					
		33	M C	VFI, EXP					
4	Linear Slope/8%	0-28	GR/SL	VFR,NS,NP,SEXP	N.O	40"	N.O	N.O	P.S .35
		28-40	SBK/SCL	FR,SS,SP,SEXP					

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

COMMENTS:
 Updated February 2014

