Permit/File #:



**ROY COOPER • Governor** 

KODY H. KINSLEY • Secretary

MARK BENTON • Chief Deputy Secretary for Health

**SUSAN KANSAGRA** • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Author	rization	
	IMPROVE	MENT PERMIT FOR G.S. 1	30A-335(a2)	
County:				
Subdivision (if applicab	ole)	Lot #: _	Block:	Section:
LSS Report Provided: \	/es No No			
If yes, name and licens	e number of LSS:			
New 🗌	Expansion 🗌	System Relocation	Change	of Use
Facility Type:				
Number of bedrooms:	Number of Occupants: _	Other:		
Design Wastewater Str	rength: Domestic	High Strength	Industrial Process Waste	water
Proposed Design Daily	Flow: GPD	Proposed LTAR (Initial):	Proposed LTAR (Re	epair):
Proposed Wastewater	System Type*:	(Initial)	Pump Required: Yes [	☐ No ☐ May be required
Proposed Wastewater	System Type*:	(Repair)	Pump Required: Yes	No May be required
*Please include system	classification for proposed waste	ewater system types in accordance	with Rule .1301 Table XXXI	II
Effluent Standard:	DSE HSE NSF/ANSI	10 TS-I TS-II RCW		
Saprolite System (Initia	al): 🗌 Yes 🔲 No Saprol	ite System (Repair): 🗌 Yes 🔲 N	0	
Fill System (Initial):	Yes No If yes, specify: N	lew Existing (when adding m	ore than 6 inches of fill to s	system area provide a fill plan)
Fill System (Repair):	Yes No If yes, specify: I	New Existing (when adding r	nore than 6 inches of fill to	system area provide a fill plan)
Usable Depth to LC (Ini	itial) <sup>x</sup> :	Usable Depth to LC (Repair)x: _	× Limit	ing Condition
Max. Trench Depth (In	itial)‡: Max. T	rench Depth (Repair)‡:	<sup>‡</sup> Measured on th	e downhill side of the trench
Artificial Drainage Requ	uired: 🗌 Yes 🔲 No If yes, ple	ase specify details:		
Type of Water Supply:	Private well Public well	Shared well Municipa	Supply Spring	Other:
Drainfield location med	ets requirements of Rule .0508: Y	es No Drainfield locat	on meets requirements of	Rule .0601: Yes 🔲 No 🗌
Permit valid for: 🔲 Fix	ve years [site plan submitted purs	uant to GS 130A-334(13a)] 🔲 N	o expiration [plat submitted	d pursuant to GS 130A-334(7a)
Permit conditions:				
Licensed Soil Scientist				
Licensed Soil Scientist	Signature: XLLX XX	amo	Date:	

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

Licensed Soil Scientist Signature:

Date: \_\_\_



Permit/File #:	
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### This Section for Local Health Department Use Only

initiai submittai received:		Dy	
	Date	Initials	
G.S. 130A-335(a3) states the following:			
When an applicant for an Improvement Permit submits to a local health depart department, the common form developed by the Department, and a soil evalu within five business days of receiving the application, conduct a completeness Permit includes all of the required components. If the local health department shall notify the applicant of the components needed to complete the Improven department to cure the deficiencies in the Improvement Permit. The local heal is complete within five business days after the local health department receive act within any period set out in this subsection, the applicant may treat the fair common form for use as the Improvement Permit.	ation pursuant to su review of the submit determines that the ment Permit. The app th department shall i es the additional infor	osection (a2) of this section, the local health departital. A determination of completeness means that the Improvement Permit is incomplete, the local health licant may submit additional information to the local make a final determination as to whether the Impromation from the applicant. If the local health depar	ment shall, e Improvement department al health vement Permit tment fails to
The review for completeness of this Improvement Permit was Permit is determined to be:	conducted in acc	cordance with G.S. 130A-335(a3). This Im	provement
☐ Incomplete (If box is checked, information in this section i	s required.)		
The following items are missing:			
	ļ <u> </u>		
Copies of this were sent to the LSS and the Applicant on	Date		
State Authorized Agent:		Date:	
☐ Complete			
State Authorized Agent:	-1/55	Date:	
This Improvement Permit is issued pursuant to G.S. 130A-335 attached here. The issuance of this permit in no way guarant for checking with appropriate governing bodies in meeting th plat, or the intended use changes. The Improvement Permit permit is subject to compliance with the provisions of 15A NOT The Department, the Department's authorized agents, and the any liabilities, duties, and responsibilities imposed by statute evaluations, submittals, or actions from a licensed soil scient	tees the issuance neir requirement shall not be affe CAC 18E and to t ne local health d or in common l	e of other permits. The permit holder is rest. This permit is subject to revocation if the cted by a change in ownership of the sitch he conditions of this permit.  Experiments shall be discharged and release from any claim arising out of or attribute.	esponsible the site plan, e. This
Improvement Permit Expiration Date:			

\*See attached site sketch\*



Permit/File #:
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## **Re-submittal of Improvement Permit**

	LHD USE ONLY: This IP resubmittal received:	Date	by	
		Dute	Illiuuis	
The following i	items are being resubmitted pursuant to G.S. 130A-335(	(a3) for issuance of	f the Improvement Permit:	
		TOTAL STATE		
	THE SIA	MF ~	Dr.	
l,	hereby attest that t	the information re	quired to be included with	n this re-submittal
is accurate and	Scientist (Print Name) complete to the best of my knowledge and that the pr l laws, regulations, rules, and ordinances.	oposed Improvem	ent Permit meets all appli	cable federal,
Signatui	re of Licensed Soil Scientist		Date	
	The section below is for Local Health Department use a	ıfter submittal of ite	ms noted as missing above.	
LHD Follow-	up Completeness Review of Improvement Pe	rmit		
	completeness of this Improvement Permit re-submittal Permit is determined to be:	l was conducted in	accordance with G.S. 130	IA-335(a3). This
☐ Incomplete	e (If box is checked, information in this section is require	ed.)		
The following it	tems are missing:			
Copies of this w	vere sent to the LSS and the Applicant on			
State Authorize	ed Agent:		Date:	
☐ Complete				
State Authorize	ed Agent:		Date:	



Permit/File #:	
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#### CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:			Pre-Construction Conference Required: Yes No No
PIN/Lot Identifie	r:		
Issued To:			
Property Locatio	n:		
AOWE/PE Plans/	Evaluations Provide	d: Yes 🔲 No 🛭	If yes, name and license number of AOWE/PE:
Facility Type:			
Number of bedro	ooms: Nun	ber of Occupants	ts: Other:
New	Expansion	Repair	System Relocation Change of Use
Basement?	Yes	☐ No	Basement Fixtures?
Crawl Space?	Yes	No	Slab Foundation? Yes No
Type of Wastewa	ater System*		(Initial) (Repa
*Please include s	system classification	for proposed was	astewater system types in accordance with Rule .1301 Table XXXII
Design Daily Flow	v:	_GPD W	Wastewater Strength: Domestic High Strength Industrial Process WW
	4-120 Section 53, Er ovide engineering d		n Utilizing Low-flow Fixtures and Low-flow Technologies?
Effluent Standar	d: DSE H	SE NSF/ANS	ISI 40 TS-I TS-II RCW
Type of Water Su	upply: 🗌 Private w	ell Public we	vell Shared well Municipal Supply Spring Other:
Installation Requ	uirements/Conditio	<u>ns</u>	
Septic Tank Size:	gallon	s Total Trench/	/Bed Length:feet Trench/Bed Spacing: feet on center
Trench/Bed Wid	th: inches	LTAR:	gpd/ft <sup>2</sup> Usable Depth to LC (Initial) <sup>x</sup> : <sup>x</sup> Limiting condition
Soil Cover:	_inches Slope (	Corrected Maximu	um Trench/Bed Depth <sup>‡</sup> : inches * Measured on the downhill side of the trench
Pump Tank Size (	(if applicable):	gallons	Requires more than 1 pump?
Pump Requireme	ents: ft. TDH	ı vs GPM	1 Grease Trap Size (if applicable): gallons
Distribution Met	hod: Serial	D-Box or Paralle	lel Pressure Manifold(s) LPP Other:
Artificial Drainag	ge Required: Yes	No 🗌 If yes, p	please specify details:
Legal Agreemen	<b>ts</b> (If the answer is '	Yes" to any type o	of legal agreements, please attach a copy of the agreement.)
Multi-party Agre	ement Required [.0	204(g)]: Yes	☐ No Declaration of Restrictive Covenants: ☐ Yes ☐ No
Easement, Right-	of-Way, or Encroac	nment Agreemen	nt Required [.0301(b)]: Yes No
Management En	tity Required: 🔲 Y	es 🗌 No Minir	imum O&M Requirements:
Permit conditi	ons:		
with the attache Construction Au with the provision AOWE/PE Print N	ed site sketch. <u>This</u> thorization shall no ons of 15A NCAC 18	<u>Construction Autl</u> t be affected by a	d by reference into this permit and shall be met. Systems shall be installed in accordance thorization is subject to revocation if the site plan, plat, or the intended use changes. The a change in ownership of the site. This Construction Authorization is subject to compliance 18A .1900, as applicable, and to the conditions of this permit.
AOWE/PE Signat	ure:/\\\\\\	<u> </u>	Date:

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

\*See attached site sketch\*



Permit/File #:	
Permit/File #:	

### This Section for Local Health Department Use Only

Initial submittal received: \_\_\_\_\_\_ by \_\_\_\_\_

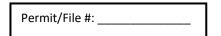
	Date	Initials
G.S. 130A-335(a5) states the following:		
When an applicant for a Construction Authorization, or an Improvement Permit Improvement Permit and Construction Authorization application together, the proper them, and any necessary signed and sealed plans or evaluations conduct engineer or a person certified pursuant to Article 5 of Chapter 90A of the General department shall, within five business days of receiving the application, conduct the Construction Authorization or Improvement Permit and Construction Authorization or Improvement Permit and Construction Authorization of the components needed to complete the Construction Authorization additional information to the local health department to cure the deficiencies in Authorization. The local health department shall make a final determination as Authorization is complete within five business days after the local health department department fails to act within any period set out in this subsection, the applicant apply for the building permit for the project upon the decision of completeness of Authorization by the local health department or if the local health department flicensed engineer submitting the evaluation pursuant to this subsection may reconstruction or Improvement Permit and Construction Authorization for cause engineer, the local health department shall suspend or revoke the Construction 130A-23. The Department shall develop a common form for use as the Construction	permit fee charged by the ted by a person licensed p al Statutes as an Authoriz t a completeness review or rization includes all of the instruction Authorization is or Improvement Permit in the Construction Authorito whether the Construction Authorito to whether the failure to of the Construction Authoritals to act within five busiquest that the local health authorization or Improve Authorization or Improve	I local health department, the common form developed by the bursuant to Chapter 89C of the General Statutes as a licensed and On-Site Wastewater Evaluator, the local health of the submittal. A determination of completeness means that a required components. If the local health department is incomplete, the local health department shall notify the and Construction Authorization. The applicant may submit distance or Improvement Permit and Construction and Information or Improvement Permit and Construction and information from the applicant. If the local health a act as a determination of completeness. The applicant may prization or Improvement Permit and Construction includes a determination of completeness. The applicant may be prization or Improvement Permit and Construction includes a determination of completeness. The applicant may be prization or Improvement Permit and Construction includes a department revoke or suspend the Construction of the Authorized On-Site Wastewater Evaluator or licensed
The review for completeness of this Construction Authorization	ı was conducted in a	accordance with G.S. 130A-335(a5). This
Construction Authorization is determined to be:		
$\hfill \square$ Incomplete (If box is checked, information in this section is	required.)	
The following items are missing:		
Copies of this were sent to the AOWE/PE and the Applicant on	Date	
State Authorized Agent:		Date:
☐ Complete	1776	1-218
State Authorized Agent:	L 12. 17	Date of Issuance:
This Construction Authorization is issued pursuant to G.S. 130 attached here. This Construction Authorization is subject to reconstruction Authorization shall not be affected by a change is to compliance with the provisions of the Laws and Rules for Softh Department, the Department's authorized agents, and the any liabilities, duties, and responsibilities imposed by statute of plans, evaluations, preconstruction conference findings, submathe General Statutes as a licensed engineer or a person certification conference of the Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), agents, and the local health departments shall be responsible obligations under State law or rule, including the issuance of the state of the s	evocation if the site in ownership of the sewage Treatment are local health departor in common law frontitals, or actions froed pursuant to Artice, (a5), and (a7). The and bear liability fo	plan, plat, or the intended use changes. The site. This Construction Authorization is subject and Disposal and to the conditions of this permit.  It ments shall be discharged and released from any claim arising out of or attributed to a person licensed pursuant to Chapter 89C of the 5 of Chapter 90A of the General Statutes as an Department, the Department's authorized or their actions and evaluations and other
Construction Authorization Expiration Date:		



Permit/File #:
----------------

### **Re-submittal of Construction Authorization**

	LHD USE ONLY: This CA resubmittal received: _	Date	by	
The following it	tems are being resubmitted pursuant to G.S. 130A-33	35(a5) for issuance of	of the Construction Authoriza	l ation:
	ST. ST.	ATF	<i>D</i>	
is accurate and	hereby attest th nsite Wastewater Evaluator (Print Name) complete to the best of my knowledge and that the and local laws, regulations, rules, and ordinances.		equired to be included with tion Authorization meets all	
Signatur	re of Authorized On-Site Wastewater Evaluator		Date	
LHD Follow-ւ	The section below is for Local Health Department us up Completeness Review of Construction A		ems noted as missing above.	
	completeness of this Construction Authorization reson Authorization is determined to be:	submittal was condu	ucted in accordance with G.S	. 130A-335(a5).
☐ Incomplete (	(If box is checked, information in this section is requ	uired.)		
The following it	ems are missing:			
	AND 35E GUA	W Albers		
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date	-	
State Authorize	d Agent:		Date:	
☐ Complete				
State Authorize	d Agent:		Date:	





#### ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County:	
PIN/Lot Identifier:	
Issued To:	
Additional Improvement Permit Conditions:	
E STATE	
6 N N N N N N N N N N N N N N N N N N N	
Net lend state to the second s	
Additional Construction Authorization Conditions:	
1PRII 12 1776	
White The state of	
QUAM VI	

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

alexadams@bcsoil.com

September 12th, 2025

"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)."

"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)"

RE: 37 Cultivator Ct. Angier NC 27501 (Harnett County)
Davidson Homes. Tobacco RD Lot 110 # (00693-16-7497)

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, State Subsurface Rules, 15ANCAC 18E. From this evaluation, ASC is providing the attached 3-bedroom septic design.

The suitable soils found on the subject property were relatively consistent 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.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 360 gallons/day and utilizing Accepted Status. 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 and repair (if needed) system on contour, see attached site plan for the primary system and repair

locations. 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 the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

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

Sincerely,

Alex Adams

NC Licensed Soil Scientist #1247 AOWE Certification: 10021E

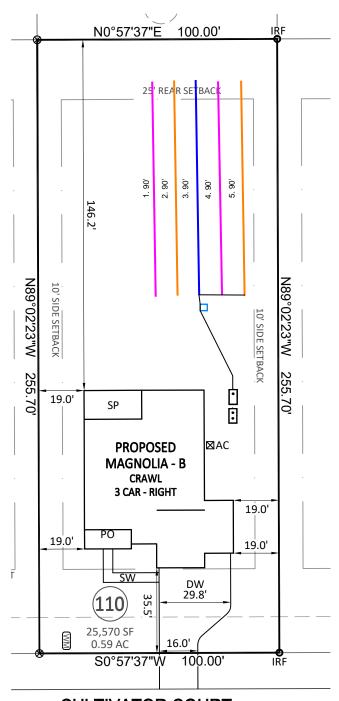




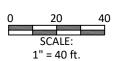
## Tobacco Road Lot 110 3 BR Harnett County

- \*House footprint to be field staked by survey and system verified prior to any construction
- \*\*Septic area must not be altered by construction activities.
- \*\*\*No cuts of 2' or greater within within 15' of septic area
- \*\*\*\* Recommend protective barrier around septic field during construction.
  - \*If plumbing is not sufficient a pump tank will be required to septic field

INITIAL: Lines 3-5 (270') Accepted Status Pressure Manitee REPAIR: Lines 1-2 (180') PPBPS Pressure Manifold



CULTIVATOR COURT
50' PUBLIC R/W & UTILITY EASEMENT

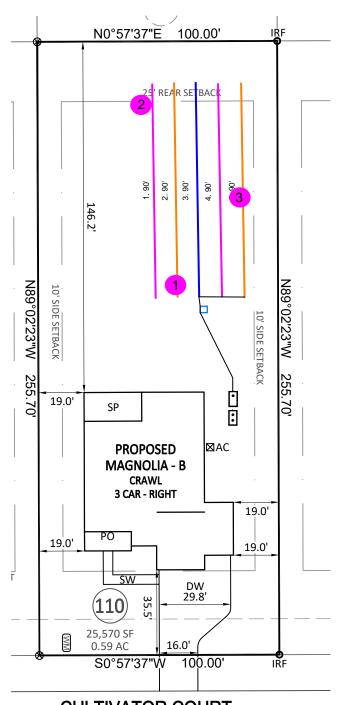


Adams
Soil Consulting
919-414-6761

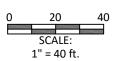
# Tobacco Road Lot 110 3 BR Harnett County

- \*House footprint to be field staked by survey and system verified prior to any construction
- \*\*Septic area must not be altered by construction activities.
- \*\*\*No cuts of 2' or greater within within 15' of septic area
- \*\*\*\* Recommend protective barrier around septic field during construction.
  - \*If plumbing is not sufficient a pump tank will be required to septic field

INITIAL: Lines 3-5 (270') Accepted Status Pressure Manitee REPAIR: Lines 1-2 (180') PPBPS Pressure Manifold



CULTIVATOR COURT
50' PUBLIC R/W & UTILITY EASEMENT



Adams
Soil Consulting
919-414-6761

	Page <u>1</u> of <u>1</u>
PROPERTY ID #: _	0693-16-7497
COUNTY:	Harnett

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

OWNER: Drees Homes	(Complete all fields in full)	DATE EVALUATED: _9/12/2025
ADDRESS:		
PROPOSED FACILITY: Single Family 3 BR PR	OPOSED DESIGN FLOW (.0400): 360 gpd	PROPERTY SIZE:59 Acres
LOCATION OF SITE: 37 Cultivator Ct. Angier NC 2	7501	PROPERTY RECORDED: Y
WATER SUPPLY: 🗵 Public 🗆 Single Family Well	☐ Shared Well ☐ Spring ☐ Other	WATER SUPPLY SETBACK:
EVALUATION METHOD: V Aver Poring Dit	$\Box C_{vt}$ TVDE OF WASTEWATED.	V Domostia Ulich Strangth UDWW

EVAL	EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Domestic High Strength IPWW									
P R O F I	R O F		SOIL MORPHOLOGY		OTHER PROFILE FACTORS		ORS			
L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
		0-30	GR/LS	VFR,SEXP,NS	N.O			N.O	P.S .4	
	Linear	30-36	SBK SCL	FR,SEXP,S		36"				1"
1	2%						N.O			
		0-30	GR/LS	VFR,SEXP,NS						
	Linear	30-36	SBK SCL	FR,SEXP,S						
2	2%				N.O	36"	N.O	N.O	P.S .4	1"
		0-24	GR/SL	VFR,SEXP,NS		N.O 36" N	N.O		P.S .4	
	Linear	24-36	SBK SCL	FR,SEXP,S	N.O			N.O		1"
3	2%				14.0	30	14.0	14.0		
Ι,										
4										

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	
Available Space (.0508)	S	S	SITE CLASSIFICATION (.0509): P.S
System Type(s)	III B	III B	EVALUATED BY: Bobby Weaver/Alex Adams
Site LTAR	.4.	.4	OTHER(S) PRESENT:
Maximum Trench Depth	21"	20"	
Comments:			

NCDHHS/DPH/EHS/OSWP Revised January 2024

#### RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Tobacco RD Lot 110

# of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.4000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 810 System Type: Accepted

Number of Taps:  $\underline{3}$  Length of Trenches:  $\underline{270}$  ft(See Tap Chart for Details)

Depth of Trenches: 21 in Manifold Length: 36 in

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

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

Friction Loss + Fitting Loss: 1.22 ft(supply line length + 70' for fittings in pump tank)

Design Head:  $\underline{2}$  ft Elevation Head:  $\underline{6.00}$  ft

Total Head: 9.22 ft Pump to Deliver: 21.33 gals/min at 9.22 ft head

Dosing Volume: <u>132</u> gals,

Drawdown: 132 gals divided by 20 gals/in = 6.6 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.

