		Permit #:
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES	ROY COOPER • Gover KODY H. KINSLEY • S MARK BENTON • Depu SUSAN KANSAGRA • Division of Public Health	ecretary uty Secretary for Health Assistant Secretary for Public Health
	(a2) Construction Authorizatio	
	PERMIT FOR G.S. 130A-	335(a2)
County: PIN/Lot Identifier: Issued To:		
Property Location:		
Subdivision (if applicable)		
LSS Report Provided: Yes 🗌 No 🗌		
If yes, name and license number of LSS:		
New Expansion	System Relocation	Change of Use
Proposed Structure:		
Number of bedrooms: Number of Occupants:	Other:	
Design Wastewater Strength: domestic	high strength	ustrial process
Proposed Design Daily Flow: GPD Pro		
Proposed Wastewater System Type*:		
Proposed Wastewater System Type*:		
*Please include system classification for proposed wastewater		15A NCAC 18A .1961 Table V(a)
Saprolite System (initial): Yes No Saprolite Syst		
Fill System (Initial): Yes No If yes, specify: New		
Fill System (repair): Yes No If yes, specify: New		
Usable Soil Depth (Initial): Usable Soil De		
Max. Trench Depth (Initial) [‡] : Max. Trench I		
Artificial Drainage Required: Yes No If yes, please spe		
Type of Water Supply: Private well Public well S		
Drainfield location meets requirements of Rule .1945: Yes		
Permit valid for: Five years [site plan submitted pursuant to	GS 130A-334(13a)]	ation [plat submitted pursuant to GS 130A-334(7a
Permit conditions:		
Licensed Soil Scientist Print Name:		
Licensed Soil Scientist Signature: All Atams)	Date:
The LSS evaluation is being submitted p *See	ursuant to and meets the require attached site sketch*	ements of G.S. 130A-335(a2).
NC DEPARTMENT OF HEALTH AN	D HUMAN SERVICES • DIVISIO	ON OF PUBLIC HEALTH
LOCATION: 5605 Six F MAILING ADDRESS: 1632	Forks Road, Building 3, Raleigh, N Mail Service Center, Raleigh, NC 2 TEL: 919-707-5854 • FAX: 919-84	C 27609 27699-1632

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



This Section for Local Health Department Use Only

Initial submittal received: ______ by _____

Date Initials

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

pl m h			
Copies of this were sent to the LSS and the Appli	cant on		
85-0	Date		
State Authorized Agent:		Date:	
Complete			
State Authorized Agent:		Date:	

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: _____

See attached site sketch



Permit #: __

Re-submittal of Improvement Permit

	LHD USE ONLY: This IP resubmittal received:		by	
		Date	Initials	
The followin	g items are being resubmitted pursuant to G.S. 130A-33	5(a3) for issuance of t	he Improvement Permit	
The followin	g terns are being resublitted pursuant to 0.5. 150A-55		ne improvement i erint.	
	222222	22222		
	Sector Sh		30	
	hereby attest tha	t the information reg	uired to be included with t	his re-submitt
	pil Scientist (Print Name)			
s accurate a	nd complete to the best of my knowledge and that the	proposed Improveme	nt Permit meets all applica	ble federal,

is accurate State, and local laws, regulations, rules, and ordinances.

Signature of Licensed Soil Scientist

Date

The section below is for Local Health Department use after submittal of items noted as missing above.

LHD Follow-up Completeness Review of Improvement Permit

The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Date

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Applicant on ____

State Authorized Agent: _____

Complete

State Authorized Agent: _____

Date: _____

Date: _____



Permit #: _____

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:	
PIN/Lot Identifier:	
Issued To:	
Property Location:	
AOWE/PE Plans/Evaluations Provided: Yes 🗌 No 🗌 If yes, name and license number of AOWE/PE:	
Facility Type:	
New Expansion Repair System Relocation Change of Use	
Basement? Yes No Basement Fixtures? Yes No	
Type of Wastewater System*(Initial)(Finitial)	Repair)
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)	
Design Daily Flow: GPD Wastewater Strength: 🗌 domestic 🗌 high strength 🗌 industrial process	
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? 🗌 Yes 🗌 No (if yes, please provide engineering documentation)	
Installation Requirements/Conditions	
Septic Tank Size: gallons Total Trench/Bed Length: feet Trench/Bed Spacing: feet on center	
Trench/Bed Width: inches LTAR: gpd/ft ²	
Soil Cover: inches Slope Corrected Maximum Trench/Bed Depth [‡] : inches [#] Measured on the downhill side of the trend	ch
Aggregate Depth:inches above pipeinches below pipeinches total	
Pump Tank Size (if applicable): gallons Requires more than 1 pump? 🗌 Yes 🗌 No	
Pump Requirements: ft. TDH vs GPM Grease Trap Size (if applicable): gallons	
Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) LPP Other:	
Artificial Drainage Required: Yes 🗌 No 🗌 If yes, please specify details:	
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)	
Multi-party Agreement Required [.1937(h)]: Yes No	
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: 🗌 Yes 📄 No	
Declaration of Restrictive Covenants: Yes No	
Pre-Construction Conference Required: Yes 🗌 No 🗌	
Conditions:	
turin .	
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by referent into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.	nce
AOWE/PE Print Name: Expiration Date:	
AOWE/PE Signature: Alex Adama 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 #:

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 and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This

Construction Authorization is determined to be:

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	AV781				
State Authorized Agent:		Date:				
Complete		518				
State Authorized Agent:		Date of Issuance:				

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: _____

See attached site sketch



Permit #: _____

Re-submittal of Construction Authorization

	LHD USE ONLY: This CA resubmittal received:	Date	by	Initials	
The following i	items are being resubmitted pursuant to G.S. 130A-335	i(a5) for issuance	e of the Const	ruction Authori	zation:
	hereby attest that	the information	required to l	a included with	a this re-submittal
is accurate and	In the boy attest that Donsite Wastewater Evaluator (Print Name) I complete to the best of my knowledge and that the p and local laws, regulations, rules, and ordinances.				
Signatu	re of Authorized On-Site Wastewater Evaluator		Date	<u>z ili</u>	
	The section below is for Local Health Department use	after submittal of	items noted a	s missing above.	
LHD Follow-	up Completeness Review of Construction Au	thorization			
	completeness of this Construction Authorization re-su on Authorization is determined to be:	bmittal was con	ducted in acc	ordance with G	.S. 130A-335(a5).
Incomplete	(If box is checked, information in this section is require	ed.)			
The following it	tems are missing:				
	CALLO SE QUAN	A VIDEN	13		
Copies of this v	vere sent to the AOWE/PE and the Applicant on	Date			
State Authorize	ed Agent:		_ [Date:	
Complete					
State Authorize	ed Agent:		_ [Date:	

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

May 29, 2025 Project #1769

"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: 613 Beacon Hill Road – Lillington, NC (Harnett County) -Lot #35 – Duncan's Creek Subdivision for New Home Inc., LLC (PIN# 0630-22-9235)

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 4-bedroom (480 gallon/day) 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 480 gallons/day and utilizing a accepted status septic 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 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.

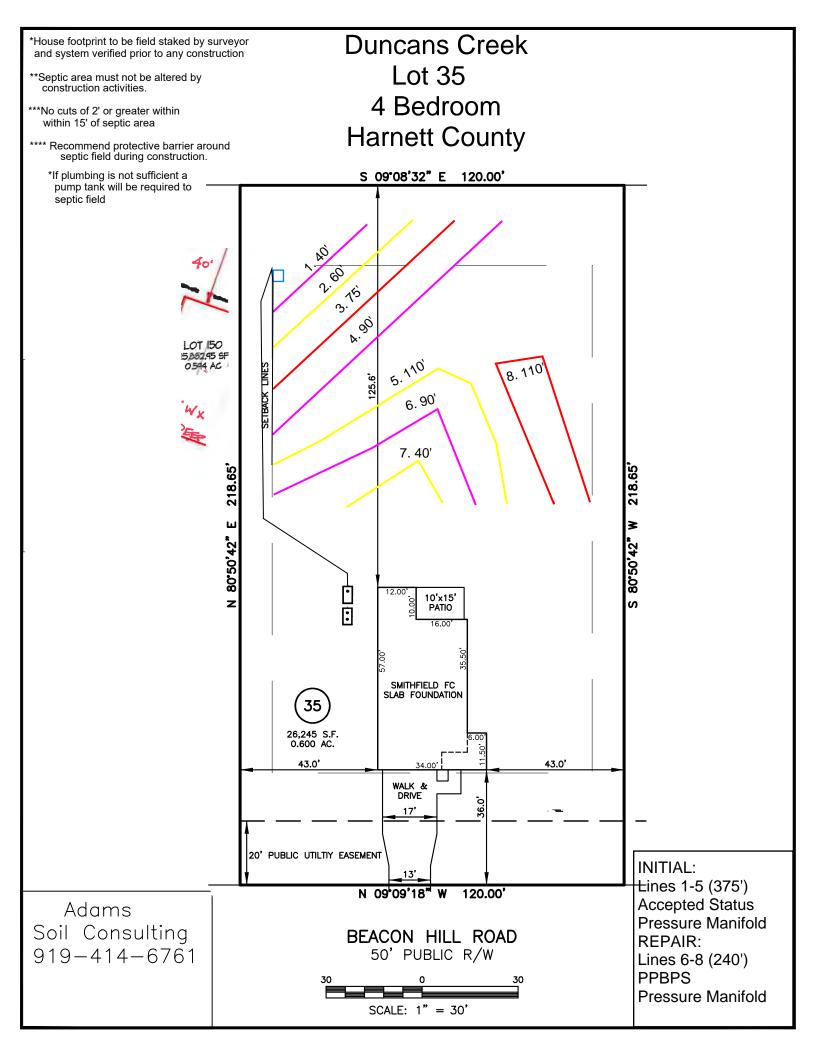
If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime.

Sincerely,

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







RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # <u>I</u>	Duncan Creel	<u>(Lot 35</u>						
# of BDR: <u>4</u>	Daily Flow:	<u>480</u>	gal/day	L.T.A.R.:	<u>0.3500</u>	gal/day/sq.ft		
Septic Tank: 1200	gals	Pump Tank:	<u>1200</u>	gals	Sq. Foot:	<u>1125</u>	System Type:	Accepted
Number of Taps:	<u>5</u>	Length o	of Trenches	: <u>375</u>	ft(See Ta	p Chart for Det	ails)	
Depth of Trenches:	<u>18</u>	in	Ма	nifold Length:	<u>48</u>	in		
Manifold Diameter:	<u>4in sch 80p</u>	<u>vc</u>	Tap Config	guration: 6 in s	pacing	<u>1</u>	side(s) of mar	iifold
Supply Line: length:	<u>115</u>	ft		Diameter:	<u>2</u>	in sch 40pvc		
Friction Loss + Fitting L	.oss:	<u>9.11</u>	ft(supply I	ine length + 70	for fitting	gs in pump tan	k)	
Design Head:	<u>2</u>	ft	Elevation	Head:	<u>6.00</u>	ft		
Total Head:	<u>17.11</u>	ft	Pu	Imp to Deliver:	<u>47.69</u>	gals/min at	<u>17.11</u>	ft head
Dosing Volume:	<u>183</u>	gals,						
Drawdown: 183	_gals divide	d by	<u>20</u>	gals/in =	<u>9.1</u>	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.

			г		т					
Benchmark		is = 100.00	set at				Design Head:	2		
Pump tank elev.			100.00	Pump elev.	95.00		Manifold elev.	101.00		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels (PPBPS)
1	Pink		100.00	40	1/2in SCH 80	5.48	55.16	120	0.4596	
2	Yellow		100.00	60	1/2in SCH 40	7.11	71.56	180	0.3976	
3	Red		100.00	75	3/4in SCH 80	10.1	101.66	225	0.4518	
4	Pink		100.00	90	3/4in SCH 40	12.5	125.81	270	0.4660	
5	Yellow		100.00	110	3/4in SCH 40	12.5	125.81	330	0.3813	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			Total Feet =	375	gal/min =	47.69		LTAR =	0.3500	
			Feet Required =	: 343	Velocity =	4.56		(ltar + 5%)	0.3675	
Total # of Panels	(PPBPS)			Des. Flow	480			(Itar w/25% red)	0.4667	
% of Dose Vol.		75		Pump Run=	10.07			(ltar + 5%)	0.4900	
Dose Volume		183		Tank Gal/IN	20					
Dose Pump Time		3.83		Elev. Head	6.00					
Drawdown in Inch	hes	9.1								
Comments:										

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

OWNER: <u>Duncan Creek Development Group.</u> DATE EVALUATED: <u>4/10/2025</u>										/2025	
PROP	PROPOSED FACILITY: Single Family 4 BR PROPOSED DESIGN FLOW (.0400): 480 gpd PROPERTY SIZE: .6 Acres LOCATION OF SITE: 613 Beacon Hill Rd. Lillington NC 27546 PROPERTY RECORDED: Y										
	WATER SUPPLY: Public Single Family Well Shared Well Spring Other WATER SUPPLY SETBACK:										
EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Domestic High Strength IPWW											
P R O F I			SOIL MO	RPHOLOGY	OTHER PROFILE FACTORS						
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	
		0-27	GR SL	VFR,SEXP,NS							
	Linear	27-32	SBK SCL	FR,SEXP,SS							
1	2%	32	M B/C		N.O	32"	N.O	N.O	U/P.S .35	1"	
		0-28	GR SL	VFR,SEXP,NS							
	Lineer	28-38	SBK SCL	FR,SEXP,SS			N.O	D N.O	P.S		
2	Linear 2%				N.O	38"			.4	1"	
		0-36	GR SL	VFR,SEXP,NS							
	Linear	36-40	SBK SCL	FR,SEXP,SS		40"	N.O	N.O	P.S	1"	
3	2%				N.O	40	11.0		.4	I	
		0-28	GR SL	VFR,SEXP,NS							
	Linear	28-36	SBK SCL	FR,SEXP,SS	N.O	36"	N.O	N.O	P.S	1"	
4	2%								.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	.3	.3	OTHER(S) PRESENT:
Maximum Trench Depth	12"	12"	
Comments:	•		

