

Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587 Office Number: 919-569-6704

Acknowledgment of Subsurface	wast	ewater evaluation and septic design by Central
Carolina Soil Consulting, PLLC	. for	160 Pondhurst Lane, Lot 4 (PIN: 0634-81-3088)
for issuance of an IP and CA		

For Improvement Permit (IP) issuance:

"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)."

For Construction Authorization (CA) issuance:

"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)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance G.S. 130A-335(a2), (a3), (a5) and (a6).

Elm Street Builders, LLC
Christopher Weir
12/7/2023

Permit #:		
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ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authorization	Fee \$
	IMPROVEM	IENT PERMIT FOR G.S. 130A-335	5(a2)
County:	Harnett		
		0634-81-3088	
Issued To:		Elm Street Builders, LLC	
Property Location:	16	0 Pondhurst Lane, Fuquay-Varina,	NC 27526
			Block: Section:
LSS Report Provided: `			
If yes, name and licens	se number of LSS:	Jason Hall, NC LS	S #1248
New 🗸	Expansion	System Relocation	Change of Use
Proposed Structure:		Single Family, 4-Bedroom	
Number of bedrooms:	4 Number of Occupants:	≤8 Other:	
Proposed Design Daily Proposed Wastewater Proposed Wastewater *Please include system Saprolite System (initial): Fill System (Initial): Fill System (repair): Usable Soil Depth (Init Max. Trench Depth (In Artificial Drainage Req Type of Water Supply: Drainfield location me	Flow:480GPD System Type*: IIIB, pressure now classification for proposed wastewned; Yes V No Saprolition of the specific specif	manifold (PPBPS) (Repair) Pump Recorder system types in accordance with 15A is a System (repair): Yes No will Existing (when adding more than every Existing (when adding more than soil Depth (Repair): 32" and pench Depth (Repair)*: 17" are see specify details: No Drainfield location meets	roposed LTAR (Repair):
Permit conditions:		SOIL	
Licensed Soil Scientist		ted pursuant to and meets the requirement	12/07/2023

NC DEPARTMENT OF HEALTH AND HUMAN-SERVICES

*See attached site sketch

LOCATION: 5605 Six Forks Road Building 3, Raleight, MAILING ADDRESS: 1632 Mail Service Center, Raleigh, NC

AN EQUAL OPPORTUNITY / AFFIRMATIVE



Permit #:	

This Section for Local Health Department Use Only

lnı	tial submittal received:		by		
		Date	Initials	-	
G.S. 130A-335(a3) states the following:					
When an applicant for an Improvement Permit sudepartment, the common form developed by the within five business days of receiving the applicate Permit includes all of the required components. If shall notify the applicant of the components need department to cure the deficiencies in the Improvis complete within five business days after the located within any period set out in this subsection, the common form for use as the Improvement Permi	Department, and a soil evaluation, conduct a completeness revented to complete the local health department defect to complete the Improvement Permit. The local health all health department receives the applicant may treat the failure.	ion pursuant to su view of the submit termines that the nt Permit. The app department shall he additional infol	bsection (a2) of this so tal. A determination o Improvement Permit Ilicant may submit ad make a final determin rmation from the app	ection, the local health department of completeness means that the Impi is incomplete, the local health depail ditional information to the local heal nation as to whether the Improvement licant. If the local health department	shall, rovement rtment alth nt Permit t fails to
The review for completeness of this Impermit is determined to be:	orovement Permit was co	nducted in acc	cordance with G.S	i. 130A-335(a3). This Improv	ement
☐ Incomplete (If box is checked, infor	mation in this section is re	equired.)			
The following items are missing:					
91,50				21/1	
11.50			X and		
Copies of this were sent to the LSS and		Dete			
State Authorized Agent:		Date		Date:	
otate Authorized Agent.	2K 5 //lig	7		Date.	-
☐ Complete	9//10			12W	
State Authorized Agent:		11 13	-31(1)	Date:	_
This Improvement Permit is issued purattached here. The issuance of this perpermit holder is responsible for checking revocation if the site plan, plat, or the conditions of the site. This permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and to the conditions of this permit is subsposal and the conditions of this permit is subsposal and the conditions of the cond	rmit by the Health Depar ng with appropriate gove he intended use changes ubject to compliance wit	rtment in no we erning bodies i . The Improve	vay guarantees the n meeting their r ement Permit sha	ne issuance of other permits requirements. This permit is all not be affected by a chang	. The subject ge in
The Department, the Department's au any liabilities, duties, and responsibilit evaluations, submittals, or actions fro	ies imposed by statute o	r in common l	aw from any clai	m arising out of or attribute	
mprovement Permit Expiration Date:					
•		<u></u>			

See attached site sketch



Permit #:	

Re-submittal of Improvement Permit

1				\neg
	LHD USE ONLY: This IP resubmittal received:	Date	by	
		Dute	inicuis	
The following it	tems are being resubmitted pursuant to G.S. 130A-33	5(a3) for issuance	of the Improvement Permit:	
	, ST	ATT	A.	
	A THE DE	THE OF	All In	
is accurate and	hereby attest that scientist (Print Name) complete to the best of my knowledge and that the laws, regulations, rules, and ordinances.		required to be included with ment Permit meets all appli	
Signatur	re of Licensed Soil Scientist		Date	
	The section below is for Local Health Department us	se after submittal of	items noted as missing above.	
LHD Follow-u	up Completeness Review of Improvement I	Permit		
	completeness of this Improvement Permit re-submit ermit is determined to be:	tal was conducted	in accordance with G.S. 130	A-335(a3). This
☐ Incomplete	e (If box is checked, information in this section is requ	iired.)		
The following ite	ems are missing:			
	AND AND	M		
Copies of this w	rere sent to the LSS and the Applicant on			
State Authorized	d Agent:		Date:	
☐ Complete				
State Authorized	d Agent:		Date:	



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587 Office Number: 919-569-6704

> December 6, 2023 Job #4760

Elm Street Builders, LLC Attention: Chris Weir

3434 Kildaire Farm Road, Suite 240

Cary, NC 27518

RE: Preliminary soil/site evaluation for single family wastewater approval at 160 Pondhurst Lane, Lot 4 (4-bedroom) in Harnett County pursuant to and meets the requirements of G.S. 130A-335(a2)."

Dear Mr. Weir:

Central Carolina Soil Consulting, PLLC conducted a preliminary soil evaluation on the aforementioned lot to determine the areas of provisionally suitable soils that are suitable for subsurface wastewater disposal systems (conventional, Accepted & Innovative). "The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)." The soil/site evaluation was performed using auger borings and pits in August 2023, under 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, CCSC laid out and located the septic layout and gps'd for site plan drawing purposes. Please note that the lot lines must be clearly marked by your surveyor prior to system installation by your installer to verify all setbacks before digging.

The lot is proposed to have a 4-bedroom system for the house. A septic system field layout was completed based on the house location and property lines surveyed in the field.

The proposed Initial system for the house is a Pressure Manifold distribution using lines 1-6 totaling 480 feet of accepted status product (EZ-Flow or Chambers). The repair system for the house is a Pressure Manifold distribution using lines 7-10 totaling 320 feet of T&J Panel Block product (Horizontal). The septic and pump tanks for the house should be minimum 1,200 gallons with risers. The septic and pump tanks should also have pressed in rubber boots on both the inlets and the outlets of the tank.

Based on the findings during the field evaluation, the area on the attached map has at least 42 inches (initial) and 32 inches (repair) of provisionally suitable soils for a modified conventional septic system. The assigned LTAR for the site is 0.25 gal/day/ft² with a maximum depth of 24 inches for the initial system installation of the drain lines due to slope correction. The assigned LTAR for the site is 0.275 gal/day/ft² with a maximum depth of 17 inches with 5" of additional cover material for the repair system installation of the drain lines due to slope correction.

Septic Installation:

The septic system for the lot should be installed during dry soil conditions (no rain events within 72 hours). The septic system should be installed on contour while maintaining all required setbacks. Lot lines must be clearly marked by your surveyor prior to system installation so your installer can verify all setbacks before digging.

Setbacks: (see septic design page for locations)

- Septic and Pump Tanks (see septic design)
 - o 10' minimum from property lines
 - o 5' minimum from house
- Septic Lines (see septic design)
 - o 10' minimum from property lines
 - o 5' minimum from house
- Manifold's and D-Box's (see septic design)
 - o 10' minimum from property lines
- Supply Lines (see septic design)
 - o 5' minimum from property lines

Grading:

No grading should be completed within the initial and repair septic areas that change the natural grade of the area. There should be no cutting or filling within the septic areas as well. When grading the lot, no cuts of 2' or greater should be within 15' of the septic areas. If a cut is required near the septic area, keep the cut around 6-8 inches in depth.

HOUSE:

- Initial System: Pressure Manifold Distribution, lines 1-6 totaling 480' (see layout)
- Repair System: Pressure Manifold Distribution, lines 7-10 totaling 320' (see layout)
- 480 gal/day flow rate (4-bedroom)
- 1,200 gallon septic and pump tanks with risers and pressed in rubber boots on both the inlet and outlet ends
- 24" max trench depth for Initial System
- 17" max trench depth with 5" of additional cover material for Repair System
- 0.25 LTAR for Initial
- 0.275 LTAR for Repair
- No grading/filling septic areas
- No cuts >2' within 15' of septic areas
- Keep tanks and drain lines 10' from property lines
- Keep supply line >5' property lines
- Install in dry soil conditions (No rain events within 72 hours)
- Maintain natural contours when clearing the lot

This letter discusses the location of provisionally suitable soils for subsurface wastewater disposal systems and does not guarantee the future function of any wastewater system on sites. Central Carolina Soil Consulting, PLLC is a professional consulting firm specializing in soil delineations and designs for on-site wastewater disposal systems.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me at any time. Thank you for allowing Central Carolina Soil Consulting to perform this site evaluation for you.

1248

NORTH

OF

Sincerely,

Jason Hall

NC Licensed Soil Scientist #1248 AOWE certification number 10004E

Encl: Soil Map & septic layout

Sheet:

Property ID: <u>0634-81-3088</u>

Lot #: 4 File #: AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Applicant:

Address: Date Evaluated: 11/16/2023

Proposed Facility: 4-Bedrooom Design Flow (.1949) 480 gal/day Property Size:

Location of Site: 160 Pondhurst Lane (Lot 4) Property Recorded: <u>Yes</u>

Water Supply: [X] Public [] Individual [] Well [] Spring [] Other

Evaluation Method: [] Auger Boring [x] Pit [] Cut
Type of Wastewater: [X] Sewage [] Industrial Process [] Mixed

P R O F			SOIL MORPHOLOGY .1941		.1941 PROFILE FACTORS				
I L E #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS	AE 0-16	GR SL	VFR NS NP SEXP					PS
		Bt1 16-32	SBK C	FR SS SP SEXP					0.275
		Bt2 32-48	W-SBK C	FI S P SEXP	10YR 7/2 @ 32"	32			
2	LS	AE 0-11	GR SL	VFR NS NP SEXP					PS
		Bt1 11-19	SBK SCL	FR SS SP SEXP					0.275
		Bt2 19-33	SBK C	FR SS SP SEXP					
		Bt3 33-50	W-SBK C	FI S SP SEXP		50			
3	LS	AE 0-11	GR SL	VFR NS NP SEXP					PS
		Bt1 11-18	SBK SCL	FR SS SP SEXP					0.275
		Bt2 18-42	SBK C	FI S P SEXP		42			

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	III b	III b
Site LTAR	0.25	0.275

Other Factors (.1946):

Soil Evaluation By:

Others Present:

Site Classification (.1948): Provisionally Suitable

Site Evaluation By: Michael Seewald

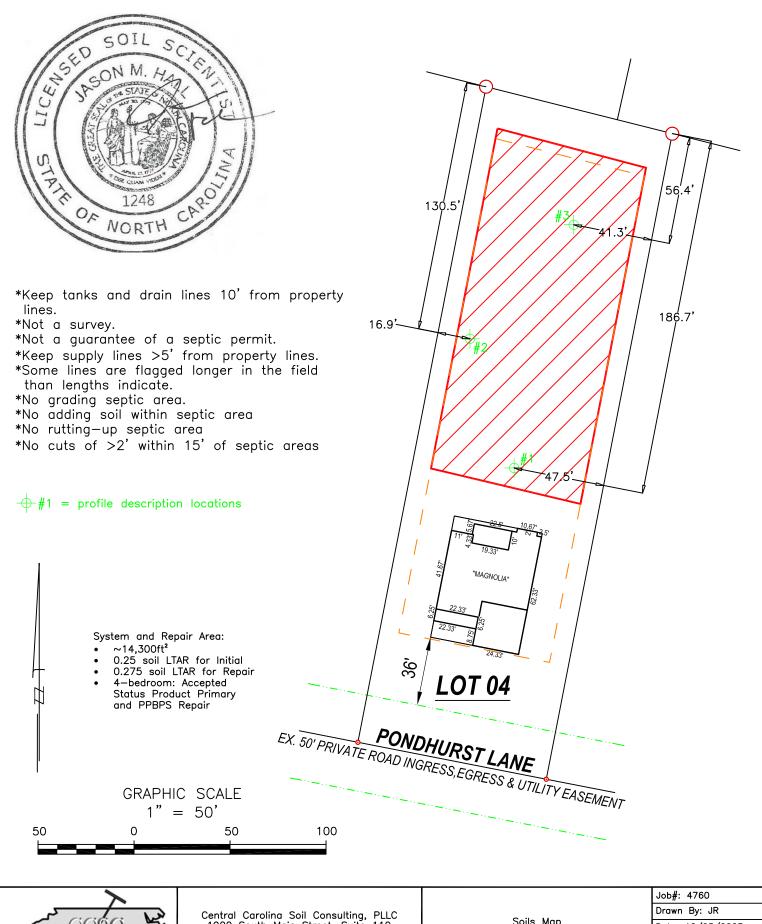
Others Present:

COMMENTS: FILE #:

Landscape Position	Group	<u>Texture</u>	.1955 LTAR	Structure
R-Ridge	1	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay		PR-Prismatic
T-Terrace		Loam		
FP-Flood Plain		CL-Clay Loam		
		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay	0.1 0.1	
		C-Clay		
		C C,		

Consistence	Consistence	<u>Mineralogy</u>
<u>Moist</u>	Wet	SEXP-Slightly Expansive
VFR-Very Friable	NS-Non-Sticky	EXP-Expansive
FR-Friable	SS-Slightly Sticky	
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations





1900 South Main Street, Suite 110 Wake Forest, North Carolina 27587 Phone (919)569-6704 Fax (919)569-6703

Soils Map Lot 4, 160 Pondhurst Lane Harnett County, North Carolina

Date: 12/05/2023 Revision: