



CDP#477151

Franklin County Environmental Health
127 S Bickett Blvd.
Louisburg, NC 27549
Phone (919) 496-8100
www.franklincountync.gov

Issued to: Lisa Ferguson

Location: 160 Seabury Way YOUNGSVILLE , NC 27596

LICENSED SOIL SCIENTIST A2 PERMIT**Application Type: LICENSED SOIL SCIENTIST A2 PERMIT****Application Number: E-26-349**

Date: July 23, 2026

Building Type:

Acreage:

Project Type: Single Family Dwelling

Zoning: R-30

of Bedrooms: 4

of Occupants: 5

Residential Project Type: Single Family Dwelling

Commercial Project Type:

Building Foundation: Crawlspace

Square Footage of Facility:

Water Source: Public Water

Number of Employees:

Number of Seats:

Preferred Type of Septic System: (1) Conventional (rock)

Notes:

Parcel ID #: 053249

Subdivision: NULL Greenbrooke Lot 76

Applicant Information

Applicant Name: Lisa Ferguson

Address: 4909 Unicon Drive, Suite 107 Wake Forest , NC 27587

Phone: 919-999-4150

Email: lisa.ferguson@kenharveyhomes.com

Property Owner Information

Owner Name: Ken Harvey Homes, LLC

Address: 4909 Unicon Drive Wake Forest , NC 27587

Phone: 919-999-4150 x 422

Email: lisa.ferguson@kenharveyhomes.com

General Contractor Information

Contractor Name: David Brantley & Sons, Inc.

Address: 37 Pine Ridge Rd Zebulon, NC 27597 ,

Phone: 2524783721

Email: brantleyoffice@gmail.com

Zoning

Zoning Permit #: Z-26-828

County Water: Yes

Front Setback: 30

Right Setback: 10

Left Setback: 10

Rear Setback: 26

The applicant shall notify the Environmental Health Department upon submittal of this application if any of the following apply to the property/site in question. If this answer is "Yes" the applicant must attach supporting documentation and/or show their location on the plot/site plan.

Does the site contain any jurisdictional wetlands?

Does the site contain, or have within 100 feet, any existing wells and/or septic systems? No

Is any wastewater going to be generate other than domestic sewage? No

Is the site subject to approval by an other public agency? No

Are there any easements or right-of-ways on this site? No

Are there any underground utilities on the site? No

IF THE INFORMATION IN THE APPLICATION FOR A SEPTIC PERMIT IS FALSIFIED, CHANGED, OR THE SITE IS ALTERED, THEN ANY

RELATED PERMITS AND CONSTRUCTION AUTHORIZATIONS SHALL BECOME INVALID. This application is valid for one year from the date of application payment. The septic system approval (permit) is valid for five years from the date of Improvement Permit issuance, or without expiration by request with proper documentation. The applicant is responsible for the proper identification and labeling of all property lines, and existing utilities (including septic), and the desired features on site, as well as making the site accessible for evaluation. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. Permit issuance shall in no way be taken as a guarantee a septic system will function in a satisfactory manner for any given period of time. By signing below, the applicant attest he/she is

the property owner or has been granted permission to be the property owner's legal representative, for the purposes of obtaining a septic permit for the referenced property.

Lisa K Ferguson

July 23, 2026

Signature of Owner or Owner's Legal Representative

Expires: July 23, 2027

PRELIMINARY PLOT PLAN FOR
KEN HARVEY HOMES

LOT 76, GREENBROOK SUBDIVISION PH.1A

160 SEABURY WAY

REF: B.M. 2026, PG. 205-206

YOUNGVILLE TOWNSHIP

FRANKLIN COUNTY, NORTH CAROLINA

FEBRUARY 16, 2026

REVISED MAY 4, 2026

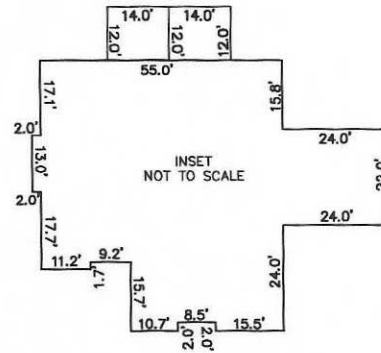
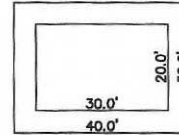
REVISED MAY 13, 2026

REVISED JUNE 22, 2026

ZONED R-30

50 25 0 50 100

SCALE 1"=50'



INSET
NOT TO SCALE

10' PUBLIC UTILITY &
DRAINAGE EASEMENT

77
GREENBROOK
SUBDIVISION PH.1A
B.M. , PG.

75
GREENBROOK
SUBDIVISION PH.1A
B.M. , PG.

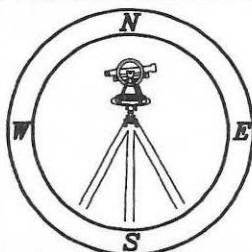
76
30,466 S.F.
0.699 AC.

OPEN SPACE #4

IMPERVIOUS SURFACE TABLE

HOUSE	3,633 S.F.
DECK	168 S.F.
SCREEN PORCH	168 S.F.
DRIVEWAY	1,382 S.F.
SIDEWALKS	259 S.F.
POOL APRON	600 S.F.
MISC/UTILITIES	18 S.F.
TOTAL IMPERVIOUS AREA	6,208 S.F.
MAX IMPERVIOUS ALLOWED	7,000 S.F.

THIS SURVEYOR DOES NOT
WARRANTY THE ACCURACY
OF ARCHITECTURAL DIMENSIONS.
THEY ARE TO BE VERIFIED BY
THE CONTRACTOR.



CMP

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:

-THIS PLAN DOES NOT REFLECT AN
ACTUAL SURVEY. IT IS A PRELIMINARY
PLAN AND SHOULD BE USED FOR ITS
INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES,
OR SALES.

26-48027
GRNBROOK-PP



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110, Wake Forest, NC 27587
Office Number: 919-569-6704

Acknowledgment of Subsurface wastewater evaluation and septic design by Central Carolina Soil Consulting, PLLC. for Greenbrooke S/D, Lot 76,
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).

Owner: _____

Owner's representative: _____

Date: _____

08/03/2026



NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

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 Authorization ☐ Fee \$ _____

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)

County: Franklin

PIN/Lot Identifier: _____

Issued To: Ken Harvey Homes

Property Location: 160 Seabury Way

Subdivision (if applicable) Greenbrooke Lot #: 76 Block: _____ Section: _____

LSS Report Provided: Yes ☒ No ☐

If yes, name and license number of LSS: Jason Hall, NC LSS #1248

New ☒

Expansion ☐

System Relocation ☐

Change of Use ☐

Facility Type: single family dwelling

Number of bedrooms: 4 Number of Occupants: <8 Other: _____

Design Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process Wastewater

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): .3 Proposed LTAR (Repair): .3

Proposed Wastewater System Type*: Ille, gravity to serial-D-Box (Initial) Pump Required: ☐ Yes ☒ No ☐ May be required

Proposed Wastewater System Type*: Ille, gravity to serial-D-Box (Repair) Pump Required: ☐ Yes ☒ No ☐ May be required

*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Saprolite System (Initial): ☐ Yes ☒ No Saprolite System (Repair): ☐ Yes ☒ No

Fill System (Initial): ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Fill System (Repair): ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Usable Depth to LC (Initial)*: 48" Usable Depth to LC (Repair)*: 40" *Limiting Condition

Max. Trench Depth (Initial)*: 30" Max. Trench Depth (Repair)*: 25" *Measured on the downhill side of the trench

Artificial Drainage Required: ☐ Yes ☒ No If yes, please specify details: _____

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared well ☐ Municipal Supply ☐ Spring ☒ Other: Com. Well

Drainfield location meets requirements of Rule .0508: Yes ☒ No ☐ Drainfield location meets requirements of Rule .0601: Yes ☒ No ☐

Permit valid for: ☒ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Divert all drains, gutters, and downspouts away from all parts of the septic system; fence off entire septic area.

Licensed Soil Scientist Print Name: Jason Hall

Licensed Soil Scientist Signature: [Signature]

Date: 06/07/2026

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

See attached site sketch



This Section for Local Health Department Use Only

Initial submittal received: 8-3-26 by CPE
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:

Copies of this were sent to the LSS and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: Cynthia En Date: 8-6-26

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 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 15A NCAC 18E 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: 8-6-31

See attached site sketch



Re-submittal of Improvement Permit

LHD USE ONLY: This IP resubmittal received: _____ by _____
Date Initials

The following items are being resubmitted pursuant to G.S. 130A-335(a3) for issuance of the Improvement Permit:

I, _____ hereby attest that the information required to be included with this re-submittal
Licensed Soil Scientist (Print Name)
is accurate and complete to the best of my knowledge and that the proposed Improvement Permit meets all applicable federal,
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:

☐ 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 _____
Date

State Authorized Agent: _____

Date: _____

☐ Complete

State Authorized Agent: _____

Date: _____



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587

Office Number: 919-569-6704

June 7, 2026

Job #5437

Ken Harvey Homes
Andy Beard
4909 Unicon Drive
Suite 107
Wake Forest, NC 27587

RE: Preliminary soil/site evaluation for single family wastewater approval at Greenbrook Subdivision, Lot 76 (4-bedroom) in Franklin County pursuant to and meets the requirements of G.S. 130A-335(a2)."

Dear Mr. Beard:

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, PPBPS & 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 in May 2026, under dry soil conditions, based on the criteria found in the State Subsurface Rules, 15A NCAC 18E "Wastewater Treatment and Dispersal Systems" along with local Wake County wastewater regulations. 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 gravity to serial using lines 1-9 totaling 300 feet of T&J panel block product (Vertical-6ft Centers). The repair system for the house is Gravity to Serial distribution using lines 10-18 totaling 270 feet of T&J panel block product (Vertical-6ft Centers) The septic tank for the house should be minimum 1,000 gallons with risers. The septic tank should also have pressed in rubber boots on both the outlet of the tank, along with having secondary lids on all the openings.

Based on the findings during the field evaluation, the area on the attached map has at least 48 inches of soil (initial) and 40 inches (repair) of provisionally suitable soils for a modified conventional septic system. The assigned LTAR for the site is 0.3 gpd/ft² with a maximum depth of 30 inches for the initial system installation of the drain lines due to slope correction. The assigned LTAR for the site is 0.3 gpd/ft² with a maximum depth of 35 inches 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. The septic system should be installed on contours 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)
 - 10' minimum from property lines
 - 5' minimum from house
- **Septic Lines** (see septic design)
 - 10' minimum from property lines
 - 5' minimum from house
- **Manifold's and D-Box's** (see septic design)
 - 10' minimum from property lines
- **Supply Lines** (see septic design)
 - 5' minimum from property lines
- **Utilities**
 - Water (10' minimum for all septic components)
 - Power, cable, internet, etc. (5' minimum setback)

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: Gravity to Serial-D-Box, lines 1-9 totaling 300' PPBPS Vertical (6ft Centers) product (see layout)
- Repair System: Gravity to Serial-D-Box, lines 10-18 totaling 270' PPBPS Vertical (6ft Centers) product
- 480 gal/day flow rate (4-bedroom)
- 1,000-gallon septic tank with risers and pressed in rubber boots on the outlet end and a secondary lid in each tank opening
- 30" max trench depth for Initial System
- 25" max trench depth for Repair System
- 0.3 LTAR for Initial
- 0.3 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
- 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.

Sincerely,



Jason Hall

NC Licensed Soil Scientist #1248

AOWE certification number 10004E

Encl: Soil Map & septic layout



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587

Page 1 of 1

PROPERTY ID #: Unavailable

COUNTY: Franklin

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Ken Harvey Homes DATE EVALUATED: 05/19/2026

ADDRESS: 4909 Unicon Drive Suite 107 Wake Forest, NC 27587

PROPOSED FACILITY: Single Family Dwelling PROPOSED DESIGN FLOW (.0400): 480 PROPERTY SIZE: 0.69 acres

LOCATION OF SITE: 205 Seabury Way (Greenbrooke S/D, lot 76) PROPERTY RECORDED: Yes

WATER SUPPLY: ☐ Public ☐ Single Family Well ☐ Shared Well ☐ Spring ☒ Other Com. Well WATER SUPPLY SETBACK:EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Domestic ☐ High Strength ☐ IPWW

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRECTION
			.0503 TEXTURE/ STRUCTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZON		
1	L-10%	A, 0-4 Bt, 4-36 BC, 36-48	SL GR C SBK CL SBK	VFR, NS, NP FI, SS, SP, SEXP FR, SS, SP, SEXP		S S			S, 0.3 S, 0.3	2.4" 24" Wide trench
2	L-10%	A, 0-4 Bt, 4-28 BC, 28-40 40+ AR	SL GR C SBK CL SBK	VFR, NS, NP FI, SS, SP, SEXP FR, SS, SP, SEXP		S S			S, 0.3 S, 0.3	2.4" 24" Wide trench
3	L-10%	A, 0-6 Bt, 6-28 BC, 28-48	SL GR C SBK CL SBK	VFR, NS, NP FI, SS, SP, SEXP FR, SS, SP, SEXP		S S			S, 0.3 S, 0.3	2.4" 24" Wide trench

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509): Suitable EVALUATED BY: Jason Hall, Parker Coats OTHER(S) PRESENT:
Available Space (.0508)	Yes	Yes	
System Type(s)	IIIe PPBPS	IIIe PPBPS	
Site LTAR	0.3	0.3	
Maximum Trench Depth	30" on downhill side	25" on downhill side	

Comments: _____

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 -0.6	MOIST	WET	SG (Single grain)
CV (Convex Slope)		LS (Loamy sand)		0.5 -0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)	II	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)	III	SiL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)		CL (Clay loam)		None		EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)				P (Plastic)		
R (Ridge/summit)		Si (Silt)						VP (Very plastic)
S (Shoulder slope)		IV				SC (Sandy clay)	0.1 - 0.4	0.05 - 0.2
T (Terrace)	SiC (Silty clay)		EXP (Expansive)					
TS (Toe Slope)	C (Clay)							
		O (Organic)	None					

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface

DEPTH OF FILL In inches from land surface

RESTRICTIVE HORIZON Thickness and depth from land surface

SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits or auger borings.

SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

CLASSIFICATION S (Suitable) or U (Unsuitable)



- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.
- *No adding soil within septic area
- *No rutting-up septic area
- *No cuts of >2' within 15' of septic areas

Septic lines were Layed out on 6' centers



GRAPHIC SCALE
1" = 40'



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

Soil Map
Lot 76, Green Brook Subdivision
Franklin County, North Carolina

Job#: 5437
Drawn By: PC
Date: 06/07/2026
Revision:



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

County: Franklin Pre-Construction Conference Required: Yes ☐ No ☒
(Greenbrooke S/D, lot 76)
PIN/Lot Identifier: _____
Issued To: Ken Harvey Homes
Property Location: 160 Seabury Way
AOWE/PE Plans/Evaluations Provided: Yes ☒ No ☐ If yes, name and license number of AOWE/PE: Jason Hall, AOWE #10004E
Facility Type: Single Family Dwelling
Number of bedrooms: 4 Number of Occupants: <8 Other: _____
☒ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use
Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☒ No
Crawl Space? ☒ Yes ☐ No Slab Foundation? ☐ Yes ☒ No
Type of Wastewater System* Ille, gravity to serial-D-Box (Initial) Ille, gravity to serial-D-Box (Repair)

*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII

Design Daily Flow: 480 GPD Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process WW

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☒ No
(if yes, please provide engineering documentation)

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared well ☐ Municipal Supply ☐ Spring ☒ Other: Com. Well

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 300 feet Trench/Bed Spacing: 6 feet on center
Trench/Bed Width: 24 inches LTAR: 0.3 gpd/ft² Usable Depth to LC (Initial)*: 48" *Limiting condition
Additional Soil Cover: n/a inches Slope Corrected Maximum Trench/Bed Depth*: 30 inches *Measured on the downhill side of the trench
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 [.0204(g)]: ☐ Yes ☒ No Declaration of Restrictive Covenants: ☐ Yes ☒ No
Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: ☐ Yes ☒ No
Management Entity Required: ☐ Yes ☒ No Minimum O&M Requirements: _____

Permit conditions:

Divert all drains, gutters, and downspouts away from all parts of the septic system, fence off entire septic area.

Use D-Box to split fields (lines 1-4) and (5-9) using serial

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. **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 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

AOWE/PE Print Name: Jason Hall

AOWE/PE Signature: [Signature] Date: 06/07/2026

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

See attached site sketch





This Section for Local Health Department Use Only

Initial submittal received: 8-3-26 by CPE
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

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: Cynthia E Date of Issuance: 8-6-26

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: 8-3-31

See attached site sketch



Re-submittal of Construction Authorization

LHD USE ONLY: This CA resubmittal received: _____ by _____
Date Initials

The following items are being resubmitted pursuant to G.S. 130A-335(a5) for issuance of the Construction Authorization:

I, _____ hereby attest that the information required to be included with this re-submittal
Authorized Onsite Wastewater Evaluator (Print Name)
is accurate and complete to the best of my knowledge and that the proposed Construction Authorization meets all applicable
federal, State, and local laws, regulations, rules, and ordinances.

Signature of Authorized On-Site Wastewater Evaluator

Date

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

LHD Follow-up Completeness Review of Construction Authorization

The review for completeness of this Construction Authorization re-submittal 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

State Authorized Agent: _____

Date: _____

☐ Complete

State Authorized Agent: _____

Date: _____

System: Gravity, D-Box/Serial Dist.
 Lines: 1-9, (300')
 T&J Panel 50% Reduction
 0.3 Soil LTAR
 30" Trench Bottom

Repair: Gravity to Serial Dist.
 Lines: 10-18, (270')
 T&J Panel 50% Reduction
 0.3 Soil LTAR
 25" Trench Bottom

- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.
- *No adding soil within septic area
- *No rutting-up septic area
- *No cuts of >2' within 15' of septic areas

Septic
 lines
 were
 Layed out
 on 6'
 centers



GRAPHIC SCALE
 1" = 40'



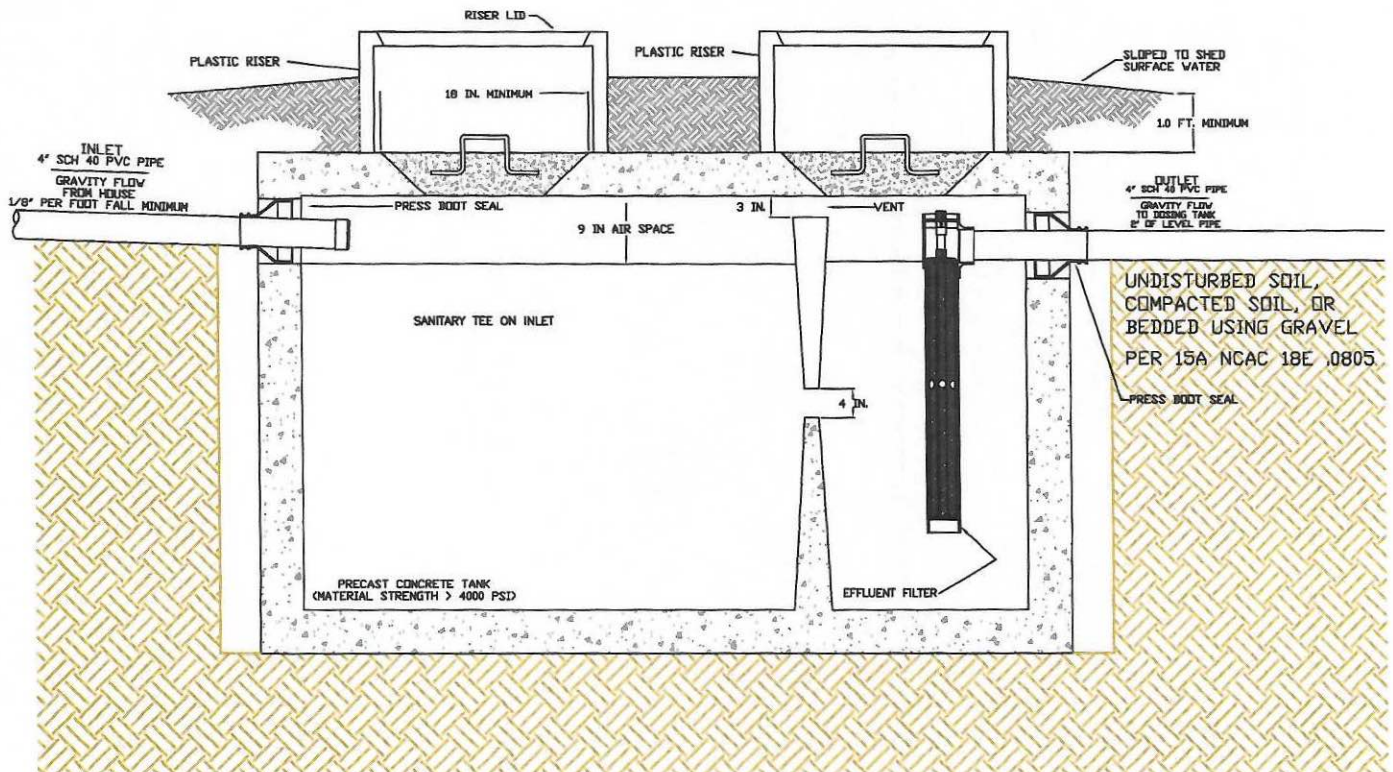
System: - - - - -
 Repair: —————



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

4-Bedroom Septic Layout
 Lot 76, Green Brook Subdivision
 Franklin County, North Carolina

Job#: 5437
 Drawn By: AH
 Date: 05/22/2026
 Revision:



1000 GAL SEPTIC TANK SCHEMATIC
NOT TO SCALE

NOTES:

1. ALL TANKS SHALL BE LEAK TESTED (IN OCCURRENCE TO RULE 15A NCAC 18E .0805) WHEN INSTALLED UNDER THE FOLLOWING CONDITIONS
 - (A) when a Soil Wetness Condition (SWC) is present within four feet of the elevation of the top of a mid-seam pump tank;
 - (B) with advanced pretreatment when required in the RWTS or PIA Approval;
 - (C) when required in the approved plans and specifications for a wastewater system designed by a PE;
 - (D) when the tank is constructed in place; or
 - (E) as required by the authorized agent based upon site or system specific conditions, such as misaligned seams, exposed reinforcement, or damage observed that may have occurred during transport or installation.
2. ALL TANKS MUST BE APPROVED FOR USE BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH).
3. INVERTS SHOWN ARE APPROXIMATE. THE INSTALLER SHALL FIELD CONFIRM PRIOR TO CONSTRUCTION.
4. ALL HARDWARE INSTALLED INSIDE OF TANKS SHALL BE OF STAINLESS STEEL.
5. TANK DIMENSIONS VARY BY MANUFACTURER.
6. DRAWDOWN WILL VARY WITH TANK DIMENSIONS.
7. NO ELECTRICAL SPLICES SHALL BE MADE INSIDE THE PUMP TANK.

ALL tank openings (2 for septic tank) shall have a secondary lid or safety net installed



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

Septic Tank Details

Job#:
Drawn By: MS
Date:

PL-68 Filter and Tee

PL-68 is much more than just an effluent filter. The housing can also be used as an inlet baffle (tee) or an outlet baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the tee and to keep the solids in the tank.

Features:

- Offers 68 linear feet of 1/16" filter slots, which significantly extends time between cleaning.
- Accepts 3/4" PVC handle.
- Locks in any 360° position when used with PL-68 Tee.
- PL-68 Housing can be used as an inlet or outlet tee.
- Gasket prevents bypass.

PL-68 Installation:

Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

1. Locate the outlet of the septic tank.
2. Remove the tank cover and pump tank if necessary.
3. Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
4. Insert the PL-68 filter into tee.
5. Replace and secure the septic tank cover.

PL-68 Maintenance:

The PL-68 Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

1. Do not use plumbing when filter is removed.
2. Pull PL-68 out of the tee.
3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
4. Insert filter back into tee/housing.

Related Products:

PL-68 Filter Concrete Baffle
Extend & LokTM



Extend & LokTM
Easily installs
into existing tanks.



Spacer Bushing
4" SCHD 40
to SDR 35



Spacer Bushing
4" SCHD 40
to 110mm Pipe



2" Extender

Greenbrook Lot 76 **T&J Panel Block (Initial System)**

Line	Length	Trench Area	Number of Panels	Spacing between Panels (in)	Feet of 2in PVC
1	40	120	9	6.6	16
2	35	105	8	5.8	14
3	35	105	8	5.8	14
4	35	105	8	5.8	14
5	35	105	8	5.8	14
6	30	90	7	4.8	12
7	30	90	7	4.8	12
8	30	90	7	4.8	12
9	30	90	7	4.8	0

Total Line Footage:	300	Total Footage of 2in PVC:	108
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Total Number of Panels:	69	Backfill Sand Needed:	51 tons
T&J Panel Block Orientation:	Vertical	backfill sand needed +5%:	53.55 tons

Notes: Spacing of panels is spacing between each panel AND spacing at the beginning and end of the line.

Greenbrook S/D, Lot 76
T&J Panel Block (Repair System)

Line	Length	Trench Area	Number of Panels	Spacing between Panels (in)	Feet of 2in PVC
10	30	90	7	4.8	12
11	30	90	7	4.8	12
12	30	90	7	4.8	12
13	30	90	7	4.8	12
14	30	90	7	4.8	12
15	30	90	7	4.8	12
16	30	90	7	4.8	12
17	30	90	7	4.8	12
18	30	90	7	4.8	0

Total Line Footage: 270

Total Footage of 2in PVC: 96

Total Number of Panels: 63
T&J Panel Block Orientation: Vertical

Backfill Sand Needed: 45.9 tons
backfill sand needed +5%: 48.195 tons

Notes: Spacing of panels is spacing between each panel AND spacing at the beginning and end of the line.



File # 477151 PIN# 1833-72-3131

Property Address: 160 Seabury Way

Applicant or Owner Name: Lisa Ferguson

Environmental Health Septic/Well Permit Diagram

Building permits cannot be issued nor should construction begin without Construction Authorization issuance.

☒ Septic Improvement Permit ☒ Septic Construction Authorization (CA) ☐ CA Reissue** ☐ As Built
☐ Well Construction Authorization ☒ Additional Diagram/Specifications Attached

Diagram Date**: 8-6-26 EHS: Cynthia E

**Any previously dated CA diagram is revoked and/or invalid. Confirm this is the valid diagram for the site before beginning any construction.

Installation/grouting inspections may be scheduled the day before, or, the day of installation until 9am by contacting the Environmental Health office at 919 496 8100. A revisit fee may apply if installation is not ready for inspection at the time requested. Septic Operations Permits will be issued after installation is approved, all permits conditions are met, and any outstanding fees are paid. Well Certificate of Completion will be issued after well head approval, all permit conditions are met, and any outstanding fees are paid.

Septic Tank 1000 Pump Tank / Drainfield 2' x 300' Type System Vertical T+J Panel Bulk Max Trench Depth 30"

Septic Contractor _____ Septic/Pump tank dates _____ Pump Fee Paid _____

Well Contractor _____ Well Head Date: _____ Pump Final: _____ N/A (circle)

* IP & CA issued under "a2" rules *

* See attached packet from CCSC *

System: Gravity, D-Box/Serial Dist.
 Lines: 1-9, (300')
 T&J Panel 50% Reduction
 0.3 Soil LTAR
 30" Trench Bottom

Repair: Gravity to Serial Dist.
 Lines: 10-18, (270')
 T&J Panel 50% Reduction
 0.3 Soil LTAR
 25" Trench Bottom

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- *No adding soil within septic area
- *No rutting-up septic area
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Septic lines were Layed out on 6' centers



GRAPHIC SCALE
 1" = 40'



System: ---
 Repair: —



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4-Bedroom Septic Layout
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