



Town of Erwin  
**Zoning Application & Permit**  
 Planning & Inspections Department

Permit #

Rev Sep2014

Each application should be submitted with an attached plot/site plan with the proposed use/structure showing lot shape, existing and proposed buildings, parking and loading areas, access drives and front, rear, and side yard dimensions.

Name of Applicant	Avilas Construction LLC	Property Owner	Avilas Construction LLC
Home Address	4702 Princess Litaway	Home Address	4702 Princess Litaway
City, State, Zip	Raleigh, NC 27610	City, State, Zip	Raleigh, NC 27610
Telephone	919-519-4663	Telephone	919-519-4663
Email	919519home@gmail.com	Email	919519home@gmail.com
Address of Proposed Property	855 Antioch Church Rd Dunn 28334		
Parcel Identification Number(s) (PIN)	1506-18-708d	Estimated Project Cost	\$12,000
What is the applicant requesting to build / what is the proposed use of the subject property? Be specific.	NEW SEPTIC SYSTEM PER ATTACHED PROPOSAL BY SOIL SCIENTIST.		
Description of any proposed improvements to the building or property	FULL RENOVATION ONCE SEPTIC SYSTEM IS IN PLACE		
What was the Previous Use of the subject property?	RESIDENTIAL / STORE COMMERCIAL		
Does the Property Access DOT road?	YES		
Number of dwelling/structures on the property already	1	Property/Parcel size	.22
Floodplain SFHA <u>Yes</u> <del>No</del>	Watershed <u>Yes</u> <del>No</del>	Wetlands <u>Yes</u> <del>No</del>	
<b>MUST</b> circle one that applies to property	Existing/Proposed Septic System Or Existing/Proposed County/City Sewer		

**Owner/Applicant Must Read and Sign**

The undersigned property owner, or duly authorized agent/representative thereof certifies that this application and the forgoing answers, statements, and other information herewith submitted are in all respects true and correct to the best of their knowledge and belief. The undersigning party understands that any incorrect information submitted may result in the revocation of this application. Upon issuance of this permit, the undersigning party agrees to conform to all applicable town ordinances, zoning regulations, and the laws of the State of North Carolina regulating such work and to the specifications of plans herein submitted. The undersigning party authorizes the Town of Erwin to review this request and conduct a site inspection to ensure compliance to this application as approved.

Print Name	Signature of Owner or Representative	Date
JACKVIO AVILA OCHOA		09/28/22

**For Office Use**

Zoning District	R-15	Existing Nonconforming Uses or Features	
Front Yard Setback	35'	Other Permits Required	<input type="checkbox"/> Conditional Use <input type="checkbox"/> Building <input type="checkbox"/> Fire Marshal <input type="checkbox"/> Other
Side Yard Setback	10'	Requires Town Zoning Inspection(s)	<input type="checkbox"/> Foundation <input checked="" type="checkbox"/> Prior to C. of O.
Rear Yard Setback	35'	Zoning Permit Status	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied
		Fee Paid: 25	Date Paid: Staff Initials:

Comments	* Can only be for residential use no commercial activities allowed
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Signature of Town Representative:	Date Approved/Denied: 9/29/22
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No expansion of existing structure

- Obtain all building permits from Harnett County Development Services 910-893-7525
- seek approval from Harnett County

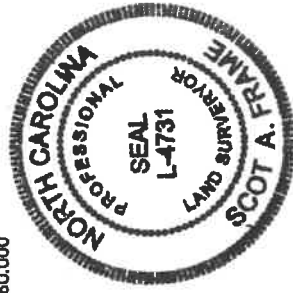
THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

*Scot A. Frame*  
 SCOT A. FRAME PLS 4731 DATE 4-15-22

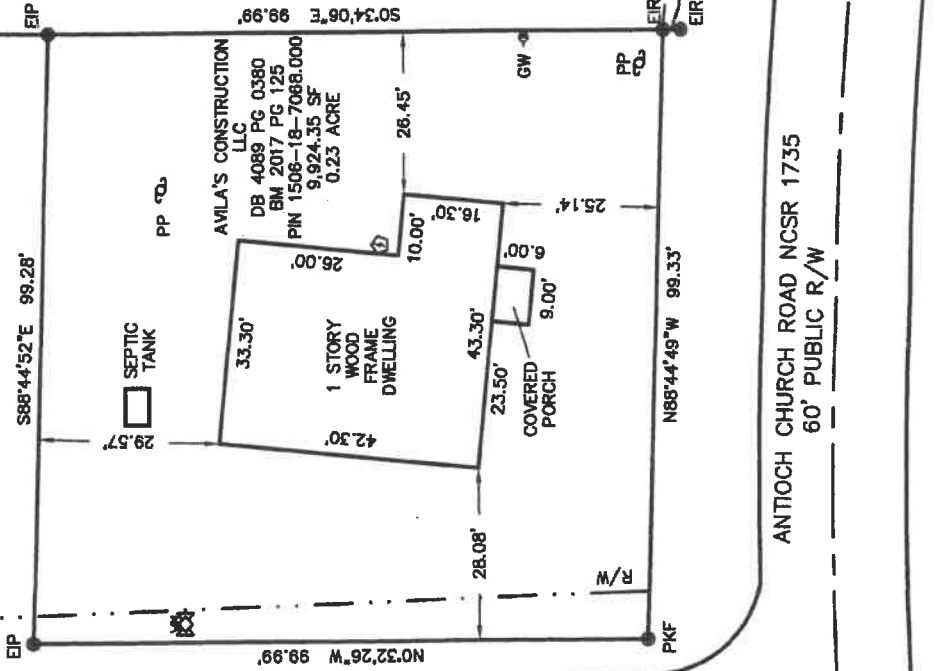
I, SCOT A. FRAME, DO HEREBY CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY PERFORMED UNDER MY SUPERVISION USING REFERENCES SHOWN HEREON, THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+. THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.

THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION. NO TITLE REPORT PROVIDED. ANY VISIBLE ENCROACHMENTS ARE SHOWN HEREON.

FELIX BUTLER JR  
 DB 3531 PG 0986  
 BM 2017 PG 125  
 PIN 1506-18-8160.000



RONALD DALE AUTRY  
 DB 1138 PG 0390  
 BM 5 PG 41  
 PIN 1506-18-7270.000



PLAY NORTH  
 BM 2017 PG 125



VICINITY MAP (NITS)

- LEGEND
- EIP=EXISTING IRON PIPE
  - EIP=IRON IRON ROD
  - G=METER
  - E=ELECTRIC METER
  - C=CABLE TV PEDESTAL
  - T=TELEPHONE PEDESTAL
  - W=WATER METER
  - P=POWER POLE
  - R/W=RIGHT-OF-WAY
  - EOP=EDGE OF PAVEMENT
  - CLRD=CENTERLINE OF ROAD

GENERAL NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.
3. LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS SURVEY.
3. PROPERTY MAY BE SUBJECT TO ANY/ALL EASEMENTS OF RECORD. THIS SURVEY IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND OR DEEDED AND HAS BEEN PREPARED IN CONFORMITY WITH NORTH CAROLINA STANDARDS G.S. 47-30, AND REQUIREMENTS OF LAW, BUT WITHOUT A FULL TITLE REPORT. A NORTH CAROLINA LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH AND LOCATION OF EASEMENTS, AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.

GRAPHIC SCALE



Project: 855 Antioch Church Road

Drawn By: S. Frame

Scale: 1" = 30'

Date: 04-15-2022

As-Built Survey for:  
 Avila's Construction LLC

855 Antioch Church Road  
 Dunn, N.C. 28334  
 Duke TWP, Harnett County, N.C.  
 E.M. 2017, PG. 125  
 PIN# 1506-18-7068.000

Scot A. Frame P.L.S.

1350 Young Rd.  
 Angier, N.C. 27501  
 919-639-6284 Office  
 919-586-2251 Mobile

# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, Lillington NC 27546-0400

Phone (910) 893-8743 / Fax (910) 893-3594

www.halowensoil.com

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7 July 2022

Michelle Vega

Reference: Soil Investigation and Septic System Design  
855 Antioch Church Road; PIN 1506-18-7068.000

Dear Ms. Vega

A site investigation has been conducted for the above referenced property, located on the northern side of Antioch Church Road (SR 1735) in Harnett County, North Carolina. The purpose of the investigation was to determine the ability of this lot to support a subsurface sewage waste disposal system and 100% repair area for a typical two bedroom home. A public water supply will be utilized for this lot.

All ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900". This report represents my professional opinion but does not guarantee or represent permit approval for any lot by the Local Health Department. The permit you receive from the Local Health Department may contain some modifications or amendments to our submitted design. Please carefully review your permit and adhere to all prescribed requirements.

## SOIL INVESTIGATION

The soils were evaluated under moist soil conditions through the advancing of auger borings. A portion of this lot was observed to be underlain by soils rated as provisionally suitable for subsurface sewage waste disposal (Figure 1). These provisionally suitable soils were observed to be firm clay loams to greater than 48 inches and will support long term acceptance rates of 0.5 gal/day/sqft. The unsuitable soil area is so rated due to the presence of a backfilled oil change pit as well as space limitations caused by a water line that runs from Rainbow Drive to the residence.

## SEPTIC SYSTEM DESIGN

The proposed single family residence will contain two bedrooms and generate a design flow of 240 gallons per day (Figure 2). A 900-gallon (minimum) septic tank is required with an approved effluent filter. It appears that gravity flow can be accomplished if drainlines are placed deep and those exceeding 50 feet in length are fed from multiple points.

The initial septic system is proposed as a permeable panel block system to 82.27 feet of modified or alternative drainlines consisting of two lines, one having 14 panels and the other having five. A long-term application rate of 0.5 gal/day/sqft was used in the design. The panel block drainlines should be installed on contour with maximum trench bottom depths at 36 inches below surface.

The repair septic system is proposed as permeable panel block system utilizing 86.62 feet of drainline also using two lines, one containing 14 panels and the other having six. A long-term acceptance rate of 0.5 gal/day/sqft was used in the design. The panel block drainlines should be installed on contour with maximum trench bottom depths at 36 inches below surface. A pump tank may be required if gravity flow can not be demonstrated.

All regulatory setbacks for a septic system shall be maintained. Drainlines must be installed at least 9 feet apart on center. The septic system must be at least 10 feet from a property line, 5 feet from a home, and 10 feet from any water line.

Potential septic system drainlines have been demonstrated with various colored pin flags that are located on the lot. It is important to protect the areas designated for installation of the septic system or repair area from all land disturbing activities. It is recommended that a staked line or protective fence be placed around the system prior to construction to eliminate any potential damage to the soil or the layout of the system.

## SYSTEM MAINTENANCE

It is recommended that care be taken to preserve the life of your septic system. The septic tank, pump tank, and distribution boxes should be kept accessible for pumping and adjustment. Your septic system should be inspected periodically and the septic tank pumped out every 2 to 5 years by a professional contractor. Practicing water conservation in the home, such as promptly repairing leaky fixtures and running washing machines and dishwashers only when full, will help to avoid overloading the septic system. Also, disposal of oils, fats, and grease into the septic system should be avoided because they could clog drainlines and conveyance pipes. A list of other useful suggestions can be found at <https://content.ces.ncsu.edu/septic-system-owners-guide>

It is required that the nitrification field and repair area be protected from vehicular traffic or other unauthorized access. Vehicular traffic can damage soils, pipes, and valve boxes. Damage to the nitrification field or repair area could result in the septic permit being revoked.

## CONCLUSION

This report and the attached septic system design information will need to be submitted to the Local Health Department for review and the permitting process. I appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact me at your convenience.

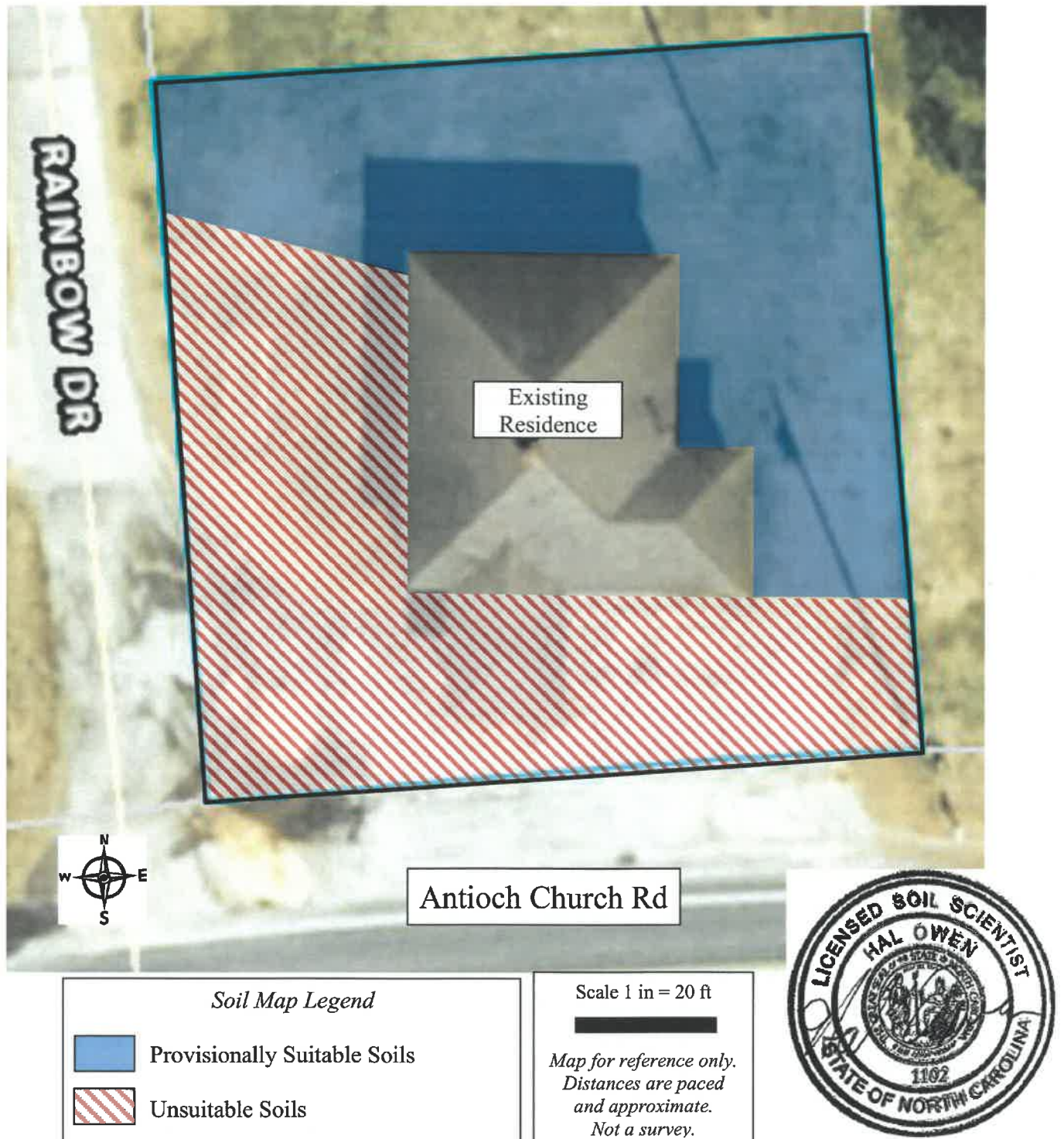


Sincerely,

Hal Owen  
Licensed Soil Scientist

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Figure 1. Soil Map showing Septic Suitability



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Figure 2. Septic System Layout

