

The North Carolina Administrative Code requires **applications for septic permits** to be signed by the owner of the property to be evaluated or by the owner's legal representative. Applications submitted by an owner's legal representative must include this completed and signed document. **Please note that the person named the legal representative on this document must make the application. The signature of the person named the legal representative on this document must also appear at the bottom of this document.**

I, Daniel Morton, hereby authorize  
(property owner's full name)

Gerard E. Rodriguez to serve as my legal  
(legal representative's full name)

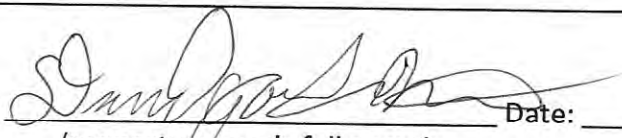
representative for submitting an application for an evaluation by the Harnett County Health Department of property owned by me for the purpose of obtaining a permit to install, repair or expand an on-site wastewater system. I understand that submittal of the application for evaluation also authorizes the Harnett County Health Department to perform said evaluation on my property.

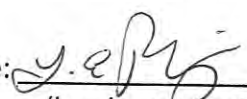
Property Owner's Address: 4957 NC Hwy 55 W Angier, NC 27501

Property Owner's Phone: \_\_\_\_\_

Parcel Identification Number (PIN): 0682-57-5686.000

Parcel Size: 0.590 Parcel A Parcel Location: 4957 NC Hwy 55 W Angier, NC 27501

Signature:  Date: 4/1/21  
(property owner's full name)

Signature:  Date: 4-1-21  
(legal representative's full name)



Initial Application Date: \_\_\_\_\_

Application # \_\_\_\_\_

CU# \_\_\_\_\_

COUNTY OF HARNETT RESIDENTIAL LAND USE APPLICATION

Central Permitting 420 McKinney Pkwy, Lillington, NC 27546 Phone: (910) 893-7525 ext:1 Fax: (910) 893-2793 www.harnett.org/permits

\*\*A RECORDED SURVEY MAP, RECORDED DEED (OR OFFER TO PURCHASE) & SITE PLAN ARE REQUIRED WHEN SUBMITTING A LAND USE APPLICATION\*\*

LANDOWNER: Daniel Morton Mailing Address: 4957 NC Hwy 55 W

City: Angier State: NC Zip: 27501 Contact No: 919-592-6540 Email: \_\_\_\_\_

APPLICANT\*: Gerald Rodriguez Mailing Address: 225 Green St Suite 910

City: Fayetteville State: NC Zip: 28301 Contact No: 910-580-5533 Email: geraldrodriguez712@gmail.com

\*Please fill out applicant information if different than landowner

ADDRESS: same as landowner PIN: 0682-57-5686.00

Zoning: \_\_\_\_\_ Flood: \_\_\_\_\_ Watershed: \_\_\_\_\_ Deed Book / Page: \_\_\_\_\_

Setbacks - Front: \_\_\_\_\_ Back: \_\_\_\_\_ Side: \_\_\_\_\_ Corner: \_\_\_\_\_

PROPOSED USE:

Monolithic
SFD: (Size 38 x 38) # Bedrooms: 3 # Baths: 1 Basement(w/wo bath): \_\_\_\_\_ Garage: \_\_\_\_\_ Deck: X Crawl Space: \_\_\_\_\_ Slab: \_\_\_\_\_ Slab: \_\_\_\_\_
TOTAL HTD SQ FT 1444 GARAGE SQ FT \_\_\_\_\_ (Is the bonus room finished? ( ) yes ( ) no w/ a closet? ( ) yes ( ) no (if yes add in with # bedrooms)

Modular: (Size \_\_\_\_\_ x \_\_\_\_\_) # Bedrooms \_\_\_\_\_ # Baths \_\_\_\_\_ Basement (w/wo bath) \_\_\_\_\_ Garage: \_\_\_\_\_ Site Built Deck: \_\_\_\_\_ On Frame \_\_\_\_\_ Off Frame \_\_\_\_\_
TOTAL HTD SQ FT \_\_\_\_\_ (Is the second floor finished? ( ) yes ( ) no Any other site built additions? ( ) yes ( ) no

Manufactured Home: \_\_\_\_\_ SW \_\_\_\_\_ DW \_\_\_\_\_ TW (Size \_\_\_\_\_ x \_\_\_\_\_) # Bedrooms: \_\_\_\_\_ Garage: \_\_\_\_\_ (site built? \_\_\_\_\_) Deck: \_\_\_\_\_ (site built? \_\_\_\_\_)

Duplex: (Size \_\_\_\_\_ x \_\_\_\_\_) No. Buildings: \_\_\_\_\_ No. Bedrooms Per Unit: \_\_\_\_\_ TOTAL HTD SQ FT \_\_\_\_\_

Home Occupation: # Rooms: \_\_\_\_\_ Use: \_\_\_\_\_ Hours of Operation: \_\_\_\_\_ #Employees: \_\_\_\_\_

Addition/Accessory/Other: (Size 20 x 20) Use: Storage Closets in addition? ( ) yes ( ) no
TOTAL HTD SQ FT \_\_\_\_\_ GARAGE \_\_\_\_\_

Water Supply: X County X Existing Well \_\_\_\_\_ New Well (# of dwellings using well \_\_\_\_\_) \*Must have operable water before final
(Need to Complete New Well Application at the same time as New Tank)

Sewage Supply: \_\_\_\_\_ New Septic Tank \_\_\_\_\_ Expansion X Relocation \_\_\_\_\_ Existing Septic Tank \_\_\_\_\_ County Sewer
(Complete Environmental Health Checklist on other side of application if Septic)

Does owner of this tract of land, own land that contains a manufactured home within five hundred feet (500') of tract listed above? ( ) yes (X) no

Does the property contain any easements whether underground or overhead ( ) yes (X) no

Structures (existing or proposed): Single family dwellings: existing \_\_\_\_\_ Manufactured Homes: \_\_\_\_\_ Other (specify): Storage Shed

If permits are granted I agree to conform to all ordinances and laws of the State of North Carolina regulating such work and the specifications of plans submitted. I hereby state that foregoing statements are accurate and correct to the best of my knowledge. Permit subject to revocation if false information is provided.

Signature of Owner or Owner's Agent

Date 9-23-2021

\*\*\*It is the owner/applicants responsibility to provide the county with any applicable information about the subject property, including but not limited to: boundary information, house location, underground or overhead easements, etc. The county or its employees are not responsible for any incorrect or missing information that is contained within these applications.\*\*\*

\*This application expires 6 months from the initial date if permits have not been issued\*\*

APPLICATION CONTINUES ON BACK

strong roots • new growth

**\*\*This application expires 6 months from the initial date if permits have not been issued\*\***

**\*This application to be filled out when applying for a septic system inspection.\***

**County Health Department Application for Improvement Permit and/or Authorization to Construct**

IF THE INFORMATION IN THIS APPLICATION IS FALSIFIED, CHANGED, OR THE SITE IS ALTERED, THEN THE IMPROVEMENT PERMIT OR AUTHORIZATION TO CONSTRUCT SHALL BECOME INVALID. The permit is valid for either 60 months or without expiration depending upon documentation submitted. (Complete site plan = 60 months; Complete plat = without expiration)

**Environmental Health New Septic System**

- **All property irons must be made visible.** Place "pink property flags" on each corner iron of lot. All property lines must be clearly flagged approximately every 50 feet between corners.
- Place "orange house corner flags" at each corner of the proposed structure. Also flag driveways, garages, decks, out buildings, swimming pools, etc. Place flags per site plan developed at/for Central Permitting.
- Place orange Environmental Health card in location that is easily viewed from road to assist in locating property.
- If property is thickly wooded, Environmental Health requires that you clean out the **undergrowth** to allow the soil evaluation to be performed. Inspectors should be able to walk freely around site. **Do not grade property.**
- **All lots to be addressed within 10 business days after confirmation. \$25.00 return trip fee may be incurred for failure to uncover outlet lid, mark house corners and property lines, etc. once lot confirmed ready.**

**Environmental Health Existing Tank Inspections**

- Follow above instructions for placing flags and card on property.
- Prepare for inspection by removing soil over **outlet end** of tank as diagram indicates, and lift lid straight up (*if possible*) and then **put lid back in place.** (Unless inspection is for a septic tank in a mobile home park)
- **DO NOT LEAVE LIDS OFF OF SEPTIC TANK**

**"MORE INFORMATION MAY BE REQUIRED TO COMPLETE ANY INSPECTION"**

**SEPTIC**

If applying for authorization to construct please indicate desired system type(s): can be ranked in order of preference, must choose one.

{ 2 } Accepted      {    } Innovative      { 1 } Conventional      {    } Any  
 {    } Alternative      {    } Other \_\_\_\_\_

The applicant shall notify the local health department upon submittal of this application if any of the following apply to the property in question. If the answer is "yes", applicant **MUST ATTACH SUPPORTING DOCUMENTATION**:

- {    } YES    { x } NO      Does the site contain any Jurisdictional Wetlands?
- {    } YES    { x } NO      Do you plan to have an irrigation system now or in the future?
- {    } YES    { x } NO      Does or will the building contain any drains? Please explain. \_\_\_\_\_
- { x } YES    {    } NO      Are there any existing wells, springs, waterlines or Wastewater Systems on this property?
- {    } YES    { x } NO      Is any wastewater going to be generated on the site other than domestic sewage?
- {    } YES    { x } NO      Is the site subject to approval by any other Public Agency?
- {    } YES    { x } NO      Are there any Easements or Right of Ways on this property?
- { x } YES    {    } NO      Does the site contain any existing water, cable, phone or underground electric lines?  
 If yes please call No Cuts at 800-632-4949 to locate the lines. This is a free service.

**I Have Read This Application And Certify That The Information Provided Herein Is True, Complete And Correct. Authorized County And State Officials Are Granted Right Of Entry To Conduct Necessary Inspections To Determine Compliance With Applicable Laws And Rules. I Understand That I Am Solely Responsible For The Proper Identification And Labeling Of All Property Lines And Corners And Making The Site Accessible So That A Complete Site Evaluation Can Be Performed.**

# Residential Subsurface Wastewater Treatment and Disposal System Proposal

Property:  
4957 NC 55 W  
Angier, NC  
PIN: 0682-57-5686.000  
Harnett County, NC  
Ground Truth Job # 21-147

Prepared For:

The Right of Way Group, LLC  
225 Green Street, Suite 910  
Fayetteville, NC 28301

Prepared By:



Ground Truth Soil Consulting, PLLC  
1302 Roberts Road  
Newport, NC 28570  
(252) 725-1320

September 23, 2021

  
John C. Roberts



## INTRODUCTION & SITE DESCRIPTION

A Soil & Site Evaluation was performed for NCDOT Parcel 032 located at 49575 NC 55 W, Angier, NC (PIN: 0682-57-5686.000). Ground Truth Soil Consulting, PLLC (Ground Truth) was retained to prepare a proposal for an on-site wastewater treatment and disposal system that would allow for the repair of a subsurface septic system for an existing 3-bedroom home (360 GPD). The lot was evaluated in accordance with North Carolina statutes for waste disposal (“Laws and Rules for Sewage Treatment and Disposal Systems”, amended December 6, 2018”).

A repair permit is requested to replace the septic drainfield. The existing drainfield appeared to be failing on the day of the original evaluation with wastewater on the ground surface. **A pump and pump tank may be needed if gravity flow cannot be achieved.**

The field survey was conducted in June and September 2021 by John C. Roberts, LSS. Soil borings were advanced via a hand auger and evaluated under moist conditions using procedures listed in the *Field book for Describing and Sampling Soils, Version 3.0*. Soil color was determined using a Munsell Soil Color Chart. Observations of the landscape as well as soil properties (depth, texture, structure, soil wetness, restrictive horizons, etc.) were recorded. It was determined sufficient amount of Suitable Group I soils are available within the project area for installation of a Conventional repair system for a 3-bedroom home. Suitable soils also appears to exists to support additional repair area.

## LOCATION

The lot is located at 4957 NC 55 W ANGIER, NC 27501.

## PLANS AND SPECIFICATIONS

### *A. Septic Tank*

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1,000 gallons in capacity (at minimum).
2. The septic tank shall be fitted with an approved effluent filter.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tanks have had time to properly cure and are free of cracks or other structural deficiencies.

### *B. Pipes and Fittings*

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly “welded” utilizing the appropriate PVC cement for each application.
3. The supply line will be approximately 35-40 feet long from the septic tank to the d-box.

### *C. Distribution Method*

1. Drainlines will be fed via gravity distribution via d-box.

### ***E. Drainfield Installation***

1. The drainfield has been previously laid out on-site utilizing metal stemmed flags. The property owner/builder should mark this area and isolate it as much as possible from construction traffic.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition.
3. The specified system is a gravity-flow system. Gravel drainlines or equivalent will be utilized. Drainlines shall be installed no deeper than 20 inches.
4. The drainfield consists of three (3) lateral trenches to be constructed 3-foot wide by 50 feet in length. Total drainline length is 150 feet.
5. The maximum trench depth for this system shall be 24 inches.
6. The laterals are to be installed keeping the individual trench bottoms level from beginning to end.
7. The trenches should be left open for the final inspection by the HCEH.

### ***F. Final Landscaping***

1. Final cover over the drainfield shall be at least 6 inches deep. If additional cover is needed, Group II (sandy loam) or Group III (sandy clay loam) soil shall be utilized.
2. The drainfield shall be shaped to shed rainwater and be free from low spots.
3. The drainfield area should be planted with grass as soon as possible to prevent erosion. The soil should be limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

### ***G. Utility Conflicts***

1. The builder and property owner must take special care in planning for water, power, gas, telephone and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation. If there are any questions regarding preferred routes, contact the HCEH as soon as possible.
2. Lawn irrigation should not be placed over the drainfield area.

## **MAINTENANCE**

### ***H. In General***

1. The owner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 25 percent of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. When it becomes necessary to clean the effluent filter, the filter should be removed and the accumulated debris washed back into the septic tank – not onto the lawn.
4. Any damp areas, leakages or malfunctions in the drainfield area should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic tanks and septic drainfield.

## DESIGN SPECIFICS

### *Initial System*

Daily Design Flow:	360 GPD – 3-bedroom house
Septic Tank Size:	1,000 Gallons (minimum)
Effluent Loading Rate:	0.8 GPD per sq. ft.
Drainfield Type:	Gravel or Equivalent
Distribution Method:	Gravity via d-box <b>*A pump and pump tank may be needed if gravity flow cannot be achieved</b>
Number of Drainlines:	(3) 3' Wide x 50' Long
Total Trench Length:	150 Linear Feet
Maximum Trench Depth:	24 inches
Final Cover Requirement:	6 Inches

### *Repair Specifics*

Effluent Loading Rate:	0.8 GPD per sq. ft.
Drainfield Type:	Gravel or Equivalent
Drainfield Area:	1,900 sq-ft
Distribution Method:	Gravity
Total Trench Length:	150 Linear Feet
Maximum Trench Depth:	24 Inches
Final Cover Requirement:	6 Inches





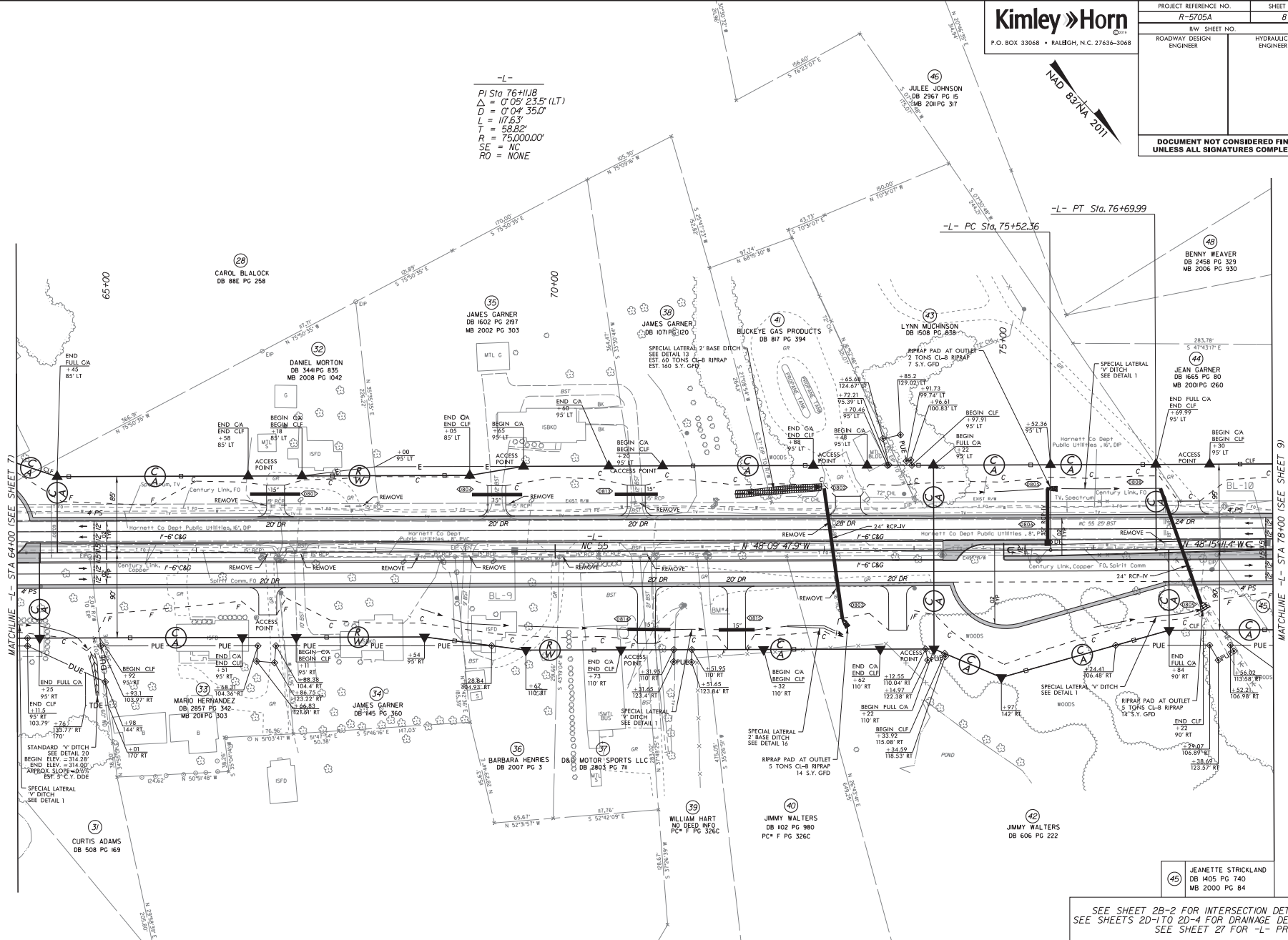
5/14/09

REVISIONS

3/5/2021

**Kimley Horn**  
 P.O. BOX 33068 • RALEIGH, N.C. 27636-3068

PROJECT REFERENCE NO. <b>R-5705A</b>	SHEET NO. <b>B</b>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



-L-  
 PI Sta 76+11.8  
 $\Delta = 0'05' 23.5' (LT)$   
 $D = 0'04' 35.0'$   
 $L = 117.63'$   
 $T = 58.86'$   
 $R = 75,000.00'$   
 $SE = NC$   
 $RO = NONE$



MATCHLINE -L- STA 64+00 (SEE SHEET 7)

MATCHLINE -L- STA 78+00 (SEE SHEET 9)

SEE SHEET 2B-2 FOR INTERSECTION DETAIL 5  
 SEE SHEETS 2D-1 TO 2D-4 FOR DRAINAGE DETAILS  
 SEE SHEET 27 FOR -L- PROFILE