

Map Loc A-1

SCANNED

Initial Application Date: 5-13-08

5-14-08  
DATE

Application # 0750018691RR  
CU

COUNTY OF HARNETT RESIDENTIAL LAND USE APPLICATION  
Central Permitting 108 E. Front Street, Lillington, NC 27546 Phone: (910) 893-7525 Fax: (910) 893-2793 www.harnett.org/permits

LANDOWNER: LOWELL GUTRIDGE Mailing Address: PO Box 145 SANFORD

City: SANFORD State: NC Zip: 27331 Home #: \_\_\_\_\_ Contact #: 910-964-7218(m)

APPLICANT: BRAD D. CUMMINGS Mailing Address: PO Box 145 SANFORD

City: SANFORD State: NC Zip: 27331 Home #: 814-3232 Contact #: 919-770-4693

\*Please fill out applicant information if different than landowner

CONTACT NAME APPLYING IN OFFICE: BRAD CUMMINGS Phone #: 919-770-4693

PROPERTY LOCATION: Subdivision: VINEYARD GREEN Lot #: 5 Lot Acreage: 4.1

State Road #: 1435 State Road Name: TRELLIS COURT TRIPP RD Map Book & Page: 2000.549

Parcel: 110651-0057-16 PIN: 0651-83-6482.000

Zoning: RA-40 Flood Zone: X Watershed: WS-11 Deed Book & Page: 02450/0870 Power Company: PROGRESS ENERGY

SPECIFIC DIRECTIONS TO THE PROPERTY FROM LILLINGTON: \_\_\_\_\_  
HWY 210 N TOWARDS ANHEIER LEFT ONTO TRIPP ROAD.  
LEFT ONTO SLUDDER NONGA LANE, RIGHT ONTO TRELLIS COURT.  
JOB SITE ON RIGHT IN CUL DE SAC

PROPOSED USE:

(Include Bonus room as a bedroom if it has a closet)

Circle:

- SFD (Size 68 x 50) # Bedrooms 3 # Baths 3 Basement (w/wo bath) NA Garage 641 Deck 177 Crawl Space  Slab
- Mod (Size \_\_\_\_\_ x \_\_\_\_\_) # Bedrooms \_\_\_\_\_ # Baths \_\_\_\_\_ Basement (w/wo bath) \_\_\_\_\_ Garage \_\_\_\_\_ Site Built Deck \_\_\_\_\_ ON Frame / OFF
- Manufactured Home: \_\_\_\_\_ SW \_\_\_\_\_ DW \_\_\_\_\_ TW (Size \_\_\_\_\_ x \_\_\_\_\_) # Bedrooms \_\_\_\_\_ Garage \_\_\_\_\_ (site built?) \_\_\_\_\_ Deck \_\_\_\_\_ (site built?) \_\_\_\_\_
- Duplex (Size \_\_\_\_\_ x \_\_\_\_\_) No. Buildings \_\_\_\_\_ No. Bedrooms/Unit \_\_\_\_\_
- Home Occupation # Rooms \_\_\_\_\_ Use \_\_\_\_\_ Hours of Operation: \_\_\_\_\_ #Employees \_\_\_\_\_
- Addition/Accessory/Other (Size \_\_\_\_\_ x \_\_\_\_\_) Use \_\_\_\_\_ Closets in addition ( ) yes ( ) no

\*Homes with Progress Energy as service provider need to supply premise number from Progress Energy

IN PROCESS OF ESTABLISHING SERVICE

Water Supply: (  County ( ) Well (No. dwellings \_\_\_\_\_) MUST have operable water before final

Sewage Supply: (  New Septic Tank (Complete New Tank Checklist) ( ) Existing Septic Tank ( ) County Sewer

Property owner of this tract of land own land that contains a manufactured home w/in five hundred feet (500') of tract listed above? ( ) YES (  ) NO

Structures (existing or proposed): Single family dwellings NA Manufactured Homes NA Other (specify) NA

Required Residential Property Line Setbacks:

Comments: MEET @ SITE AS NEEDED

Front Minimum 35' Actual 38'-6" 35'

Rear 25' 26'-0"

Closest Side 15' 31'-0"23"

Sidestreet/corner lot \_\_\_\_\_

Nearest Building on same lot \_\_\_\_\_

Rear because Change of DW + house size + placement 5-14-08 VCB  
7-9-08 Rear Per EH Soil Sci Insp  
Inf # 092344

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

12-MAY-2008  
Date

\*\*This application expires 6 months from the initial date if no permits have been issued\*\*

A RECORDED SURVEY MAP, RECORDED DEED (OR OFFER TO PURCHASE) AND PLAT ARE REQUIRED WHEN APPLYING FOR LAND USE APPLICATION

Please use Blue or Black Ink ONLY

# Lot 5, Vineyard Green

## On-Site Wastewater Design Specifications

House Footprint: See drawing  
 No Foundation Drain  
 Bedrooms: 3 (Daily Flow 360 gallons)

LEGEND			
★	EIP	□	Septic Tank
- - -	Supply Line	■	Pump Tank
⊙	Proposed Well	◇	D-Box
⊗	Existing Well	⊠	Pressure Manifold

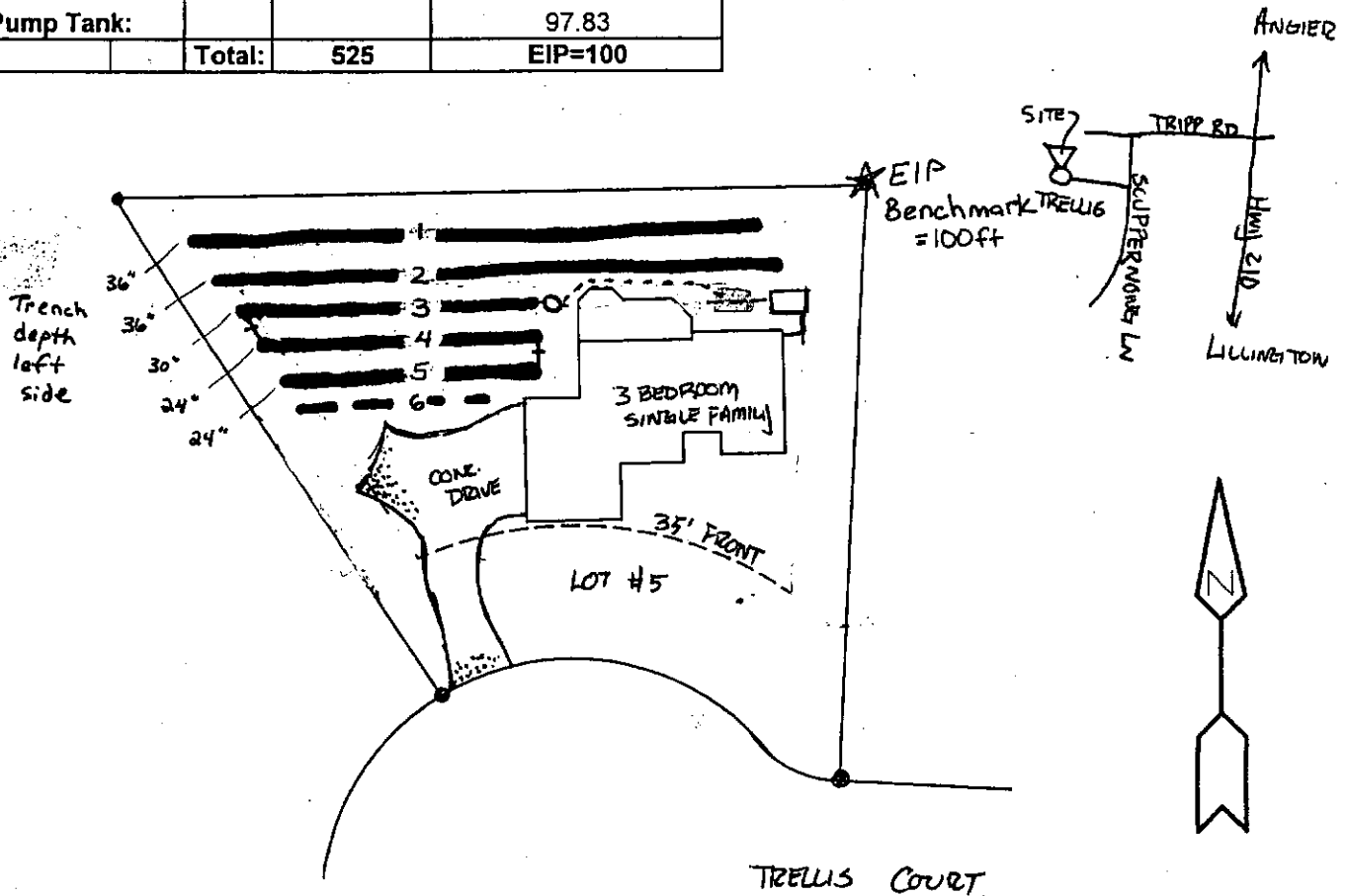
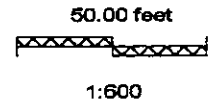
† step down

**Initial System:** Gravity, serial distribute to 225 ft accepted status drainlines installed off contour parallel to rear property line at 30 to 18 inches below grade  
 Soil LTAR 0.4 gal/day/sqft

**Repair System:** Pump to 2 X 150ft conventional drainlines installed off contour parallel to rear property line at 36 to 20 inches below grade  
 Soil LTAR 0.4 gal/day/sqft

Lines flagged at site on 9-ft centers.

Initial/Repair	Line #	Color	Drainline Length(ft)	Relative Elevation (ft) on left side of lot
Repair	1	R	150	100.35
Repair	2	Y	150	99.76
Initial	3	B	80	99.17
Initial	4	R	75	98.65
Initial	5	Y	70	98.23
-	6	B	(50)	97.91
<b>Septic Tank:</b>				98.19
<b>Pump Tank:</b>				97.83
<b>Total:</b>			<b>525</b>	<b>EIP=100</b>



# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, 266 Old Coats Road

Lillington, NC 27546-0400

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

E-mail: halowen@earthlink.net

07-50018691

8 July 2008

Mr. Brad Cummings  
Post Office Box 145  
Sanford, NC 27331

Reference: Septic System Design  
Lot 5, The Plantation at Vineyard Green Subdivision  
NC PIN 0651-83-6482

Dear Mr. Cummings,

A site investigation was conducted for the above referenced property on 3 July 2008. The site is located on the northern side of Trellis Court in the Vineyard Green Subdivision, Neills Creek Township, 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 the proposed three-bedroom home. Public water supplies will be utilized for this lot. A foundation drain will not be possible. Based on information from a previous improvement permit issued by the Harnett County Health Department (copy attached), a long-term application rate of 0.4 gal/day/sqft and a maximum trench depth of 36 inches were utilized to design the septic systems.

The initial septic system has been designed with gravity dispersal using serial distribution to 225 feet of accepted status (EZ Flow or chamber) drainlines. In order to achieve gravity distribution, the septic tank will need to be carefully sited with the plumbing from home being stubbed at about 4 inches or less below ground surface at the right rear corner of the home. If this cannot be achieved, then a pump tank will be needed. The drainlines are proposed to be installed off-contour parallel to the rear property line. The trench bottom of the first drainline of the initial system (Line 3 on attached diagram) will start at 21 inches below surface and deepen to 30 inches as it approaches the left property boundary. Step-down to the next drainline which will start at 24 inches and shallow to 18 inches as it approaches the house. Step-down to the last drainline which will start at 20 inches and deepen to 24 inches as it approaches the left property boundary.

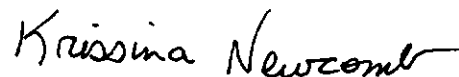
The repair septic system has been designed with a pump to a distribution box to evenly distribute effluent between two 150-ft long conventional drainlines. The drainlines are proposed to be installed off-contour parallel to the rear property line. The trench bottoms of the first and second drainlines will start at 25 and 23 inches, respectively, and deepen to 36 inches below surface near the left property boundary.

The septic system has been demonstrated with various colored pin flags that are located on the lot. It is important that you do not disturb the septic system area. 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.

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 is attached for your use.

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,



Krissina Newcomb  
Project Environmental Scientist I



Hal Owen  
Licensed Soil Scientist

# Lot 5, Vineyard Green

## On-Site Wastewater Design Specifications

House Footprint: See drawing  
 No Foundation Drain  
 Bedrooms: 3 (Daily Flow 360 gallons)

**LEGEND**

- ★ EIP
- Supply Line
- ⊗ Proposed Well
- ⊗ Existing Well
- Septic Tank
- Pump Tank
- D-Box
- ⊕ Pressure Manifold

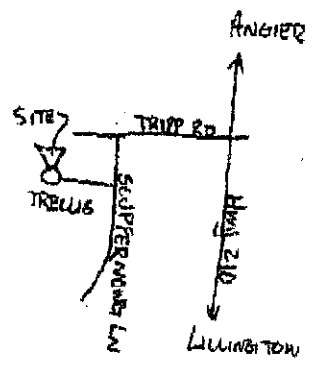
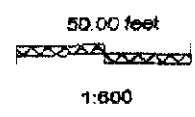
07-50018691

**Initial System:** Gravity, serial distribute to 225 ft accepted status drainlines installed off contour parallel to rear property line at 16 to 18 inches below grade  
 Soil LTAR 0.4 gal/day/sqft

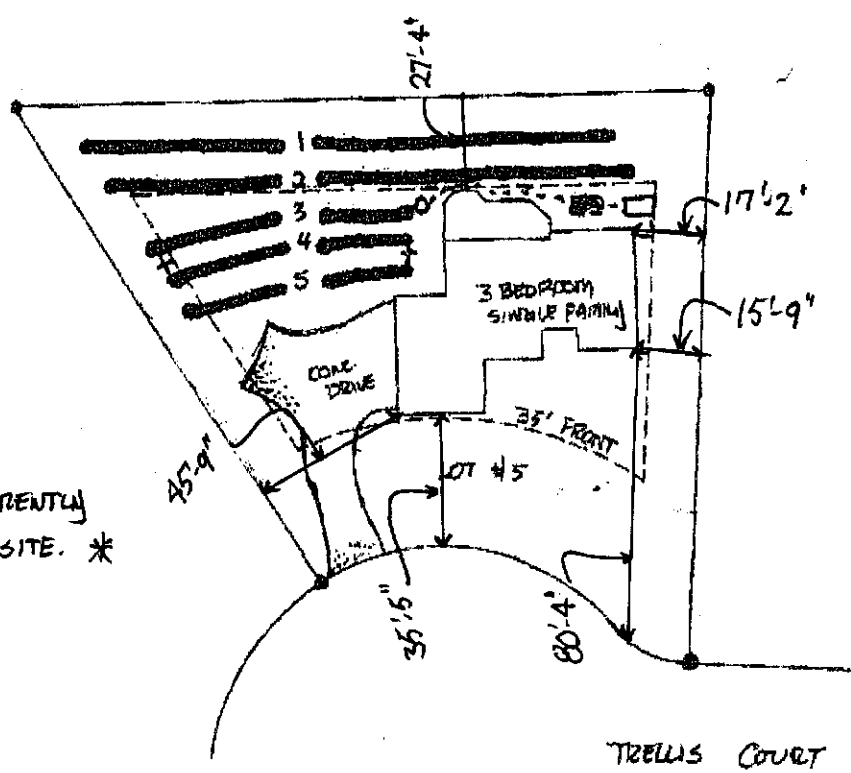
**Repair System:** Pump to 2 X 150ft conventional drainlines installed off contour parallel to rear property line at 18 to 30 inches below grade  
 Soil LTAR 0.4 gal/day/sqft

Lines flagged at site on 9-ft centers.

Initial/Repair	Line #	Color	Drainline Length(ft)	Relative Elevation of ground		~ Elevation of Trench Bottom
				left side	right side	
Repair	1	R	150	100.35	99.43	97.93
Repair	2	Y	150	99.76	98.68	97.18
Initial	3	B	80	98.65	98.43	97.15
Initial	4	R	75	98.23	98.12	96.73
Initial	5	Y	70	97.91	97.91	96.41
<b>Septic Tank:</b>				98.19		
<b>Pump Tank:</b>				97.83		
	<b>Total:</b>		<b>525</b>	<b>EIP=100 (feet)</b>		

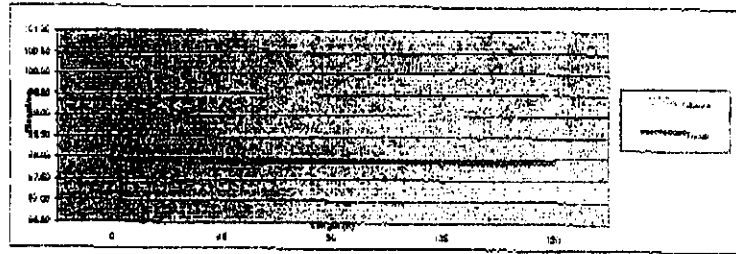


\* HOUSE IS CURRENTLY PINNED ON SITE. \*

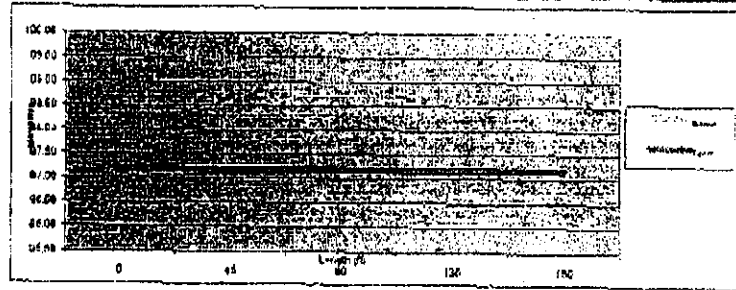


Lot 5, Vineyard Green

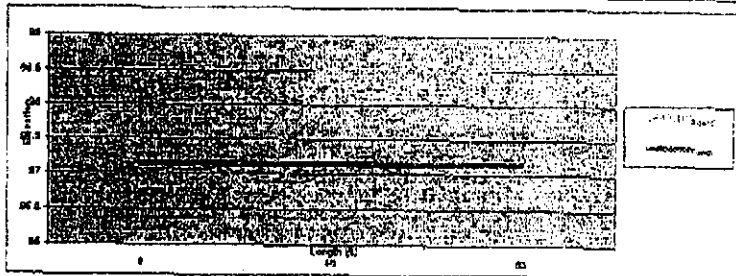
Line 1	Trench		
Length (ft)	Ground	Trench	Depth (in)
0	100.35	97.93	29
45	99.77	97.93	22
90	99.33	97.93	17
135	99.00	97.93	13
150	99.43	97.93	18



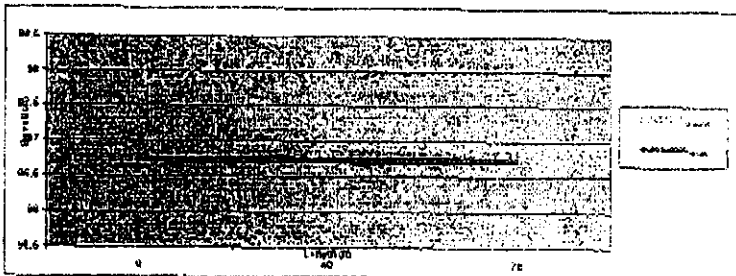
Line 2	Trench		
Length (ft)	Ground	Trench	Depth (in)
0	99.76	97.18	31
45	99.45	97.18	27
90	98.95	97.18	21
135	98.61	97.18	17
150	98.68	97.18	18



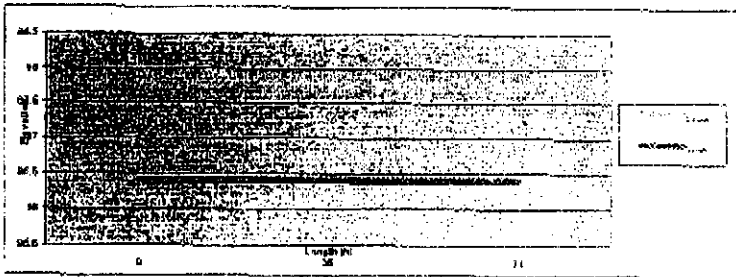
Line 3	Trench		
Length (ft)	Ground	Trench	Depth (in)
0	98.65	97.15	18
45	98.54	97.15	17
83	98.43	97.15	15



Line 4	Trench		
Length (ft)	Ground	Trench	Depth (in)
0	98.23	96.73	18
40	98.175	96.73	17
78	98.12	96.73	17



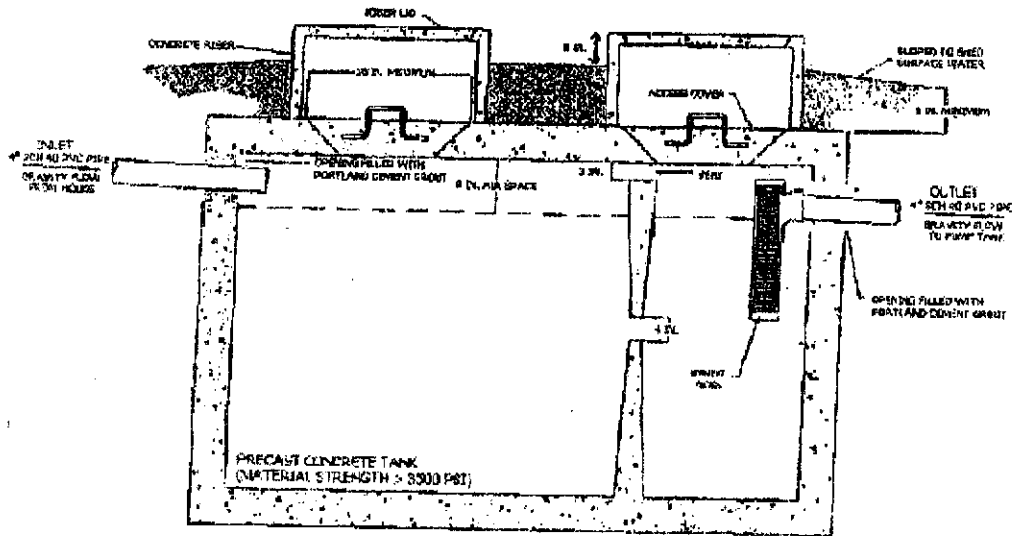
Line 5	Trench		
Length (ft)	Ground	Trench	Depth (in)
0	97.91	96.41	18
35	97.91	96.41	18
71	97.91	96.41	18



Lot 5, Vineyard Green

Septic Tank Profile

Ground Elevation 98.19  
 Tank Inlet 97.94 \*(3" below natural grade)  
 Tank Outlet (Inlet -2") 97.77 \*\*



Supply Line Length 60 ft  
 Supply Line Inlet 97.77  
 Supply Line Outlet (1% fall) 97.15

To achieve gravity distribution (no pump tank) the plumbing must stub from the house at -98 ft or higher, or about 3" below natural grade at the right rear corner of the house. You will need to add about 6 inches of fill at the rear of the house to adequately cover the septic tank and supply line. Fill should not be added within 25ft of the rear property line over the repair drainfield.

If the plumbing does not stub out high enough, then a pump tank will be necessary to distribute effluent to the drainfield.