HTE# 07-5-1869IRR

Harnett County Department of Public Health

24941

Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: Brad Cummings PROPERTY LOCATION: Tripp Rd

SUBDIVISION Vineyard Green LOT # 5

NEW ☒ REPAIR ☐ EXPANSION ☐

Type of Structure: SFD (68'x50')

Proposed Wastewater System Type: 25% Reduction System

Projected Daily Flow: 360 GPD

Number of bedrooms: 3 Number of Occupants: 6 max

Basement ☐Yes ☒ No

Pump Required: ☐Yes ☐ No ☒May be required based on final location and elevations of facilities

Type of Water Supply: ☐ Community ☒ Public ☐ Well Distance from well 100 feet

Permit valid for: ☒ Five years ☐ No expiration

Site Improvements required prior to Construction Authorization Issuance:

Permit conditions:

Authorized State Agent:: RS Date: 8/7/08 SEE ATTACHED SITE SKETCH

The issuance of this permit by the Health Department 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 site 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 the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit..

Construction Authorization

(Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958. and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: Brad Cummings PROPERTY LOCATION: Tripp Rd

SUBDIVISION Vineyard Green LOT # 5

Facility Type: SFD (68'x50') ☒ New ☐ Expansion ☐ Repair

Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☒ No

Type of Wastewater System** 25% Reduction System (Initial) Wastewater Flow: 360 GPD

(See note below, if applicable ☐)

Pump To Conventional (Repair)

Installation Requirements/Conditions

Septic Tank Size 1000 gallons

Pump Tank Size _____ gallons

Number of trenches 1

Exact length of each trench 225 feet

Trenches shall be installed on contour at a

Maximum Trench Depth of: 15-18 inches

(Trench bottoms shall be level to +/-1/4" in all directions)

Trench Spacing: 9 Feet on Center

Soil Cover: 6 inches

(Maximum soil cover shall not exceed 36" above the trench bottom)

Pump Requirements: _____ ft. TDH vs. _____ GPM

_____ inches below pipe

Aggregate Depth: _____ inches above pipe

_____ inches total

Conditions: Minimum of 6" of Cover Needed Over Drainfield.

All Conditions of Attached Proposal From Hal Owen & Associates Must Be Followed

**If applicable: *I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.*

Owner/Legal Representative Signature: _____ Date: _____

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is 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. SEE ATTACHED SITE SKETCH

Authorized State Agent: RS Date: 8/7/08

Construction Authorization Expiration Date: 8/7/13

Lot 5, Vineyar_ Green

On-Site Wastewater Design Specifications

LEGEND
- ✱ EIP
- Supply Line
- Ⓦ Proposed Well
- ⊗ Existing Well
- Septic Tank
- Pump Tank
- D-Box
- Pressure Manifold

07-50018691

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

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

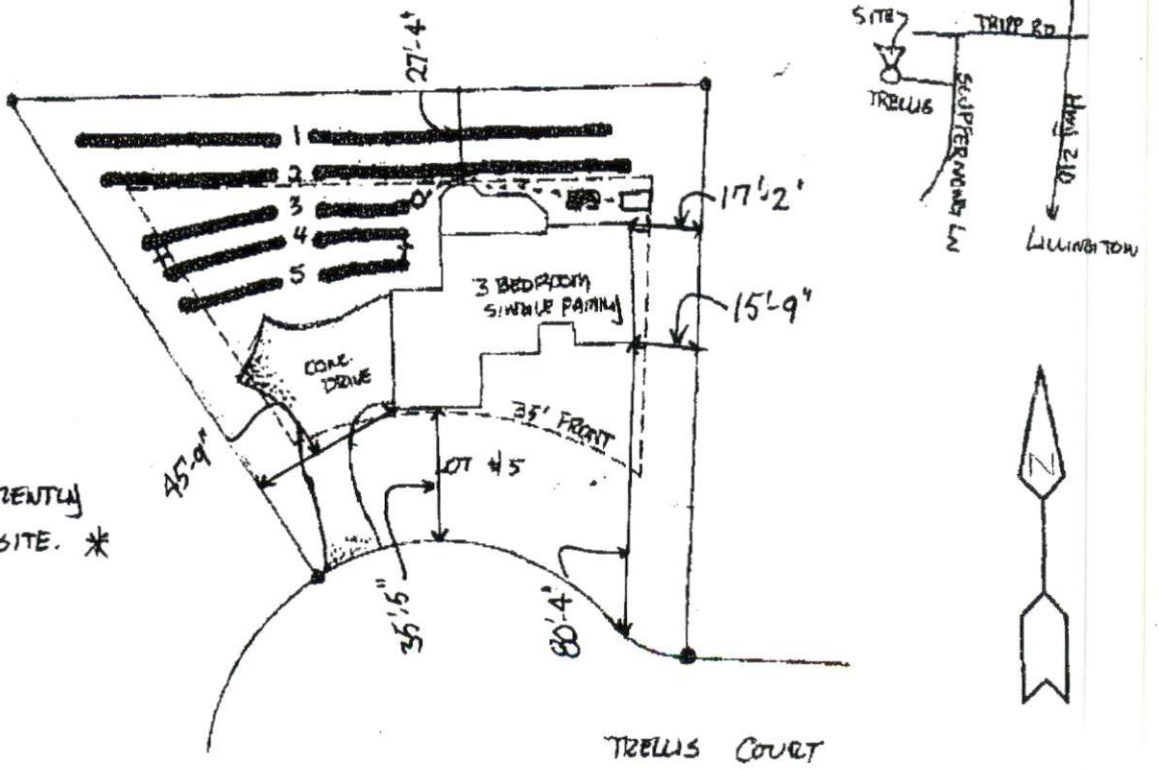
Repair System: Pump to 2 X 150ft conventional drainlines
Installed off contour parallel to rear property line at 18 to 30 inches below grade
Soil LTAR 0.4 gal/day/sqft

Lines flagged at site on 9-ft centers.

Initial/ Repair	Line #	Color	Drainline Length(ft)	Relative Elevation of ground left side	right side	~ Elevation of Trench Bottom
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
Septic Tank:				98.19		
Pump Tank:				97.83		
		Total:	525	EIP=100	(feet)	

50.00 feet

1:600



* HOUSE IS CURRENTLY PINNED ON SITE. *

Hal Owen & Associates, Inc.
PO Box 400, Lillington, NC 27546
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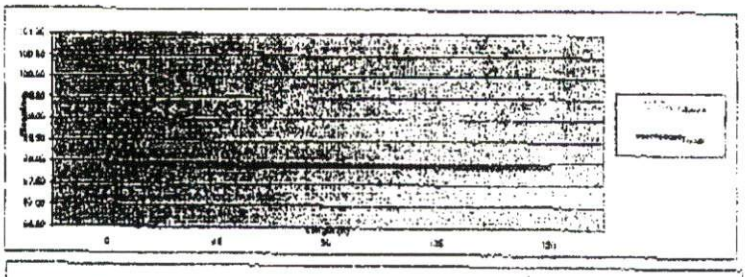
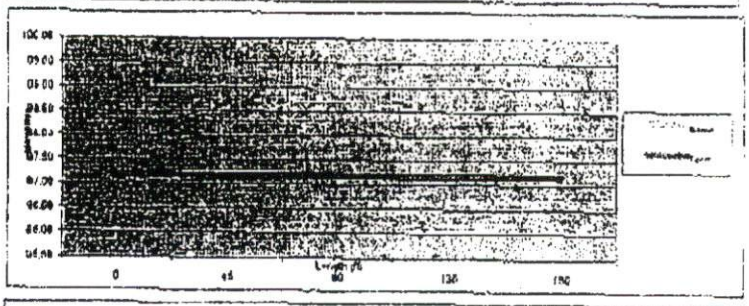
7/8/08

Lot 5, Vineyard Green

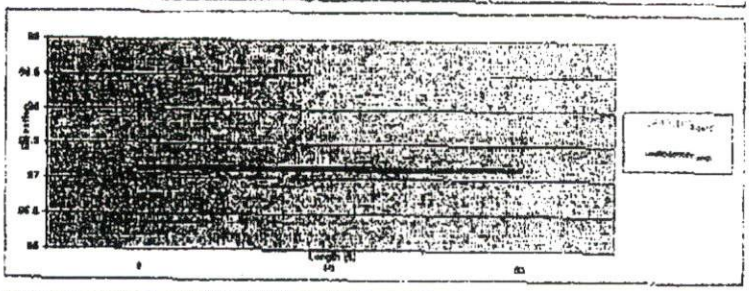
Line 1			Trench
Length (ft)	Ground	Trench	Depth (in)
0	100.35	97.93	29
45	99.77	97.93	22
90	99.33	97.93	17
135	99.00	97.93	13
150	99.43	97.93	18



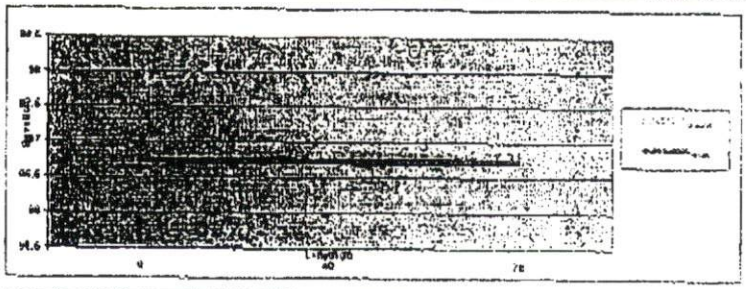
Line 2			Trench
Length (ft)	Ground	Trench	Depth (in)
0	99.76	97.18	31
45	99.45	97.18	27
90	98.95	97.18	21
135	98.61	97.18	17
150	98.68	97.18	18



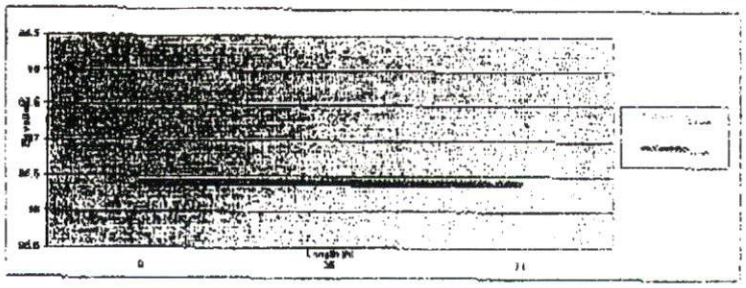
Line 3			Trench
Length (ft)	Ground	Trench	Depth (in)
0	98.65	97.15	18
45	98.54	97.15	17
83	98.43	97.15	15



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



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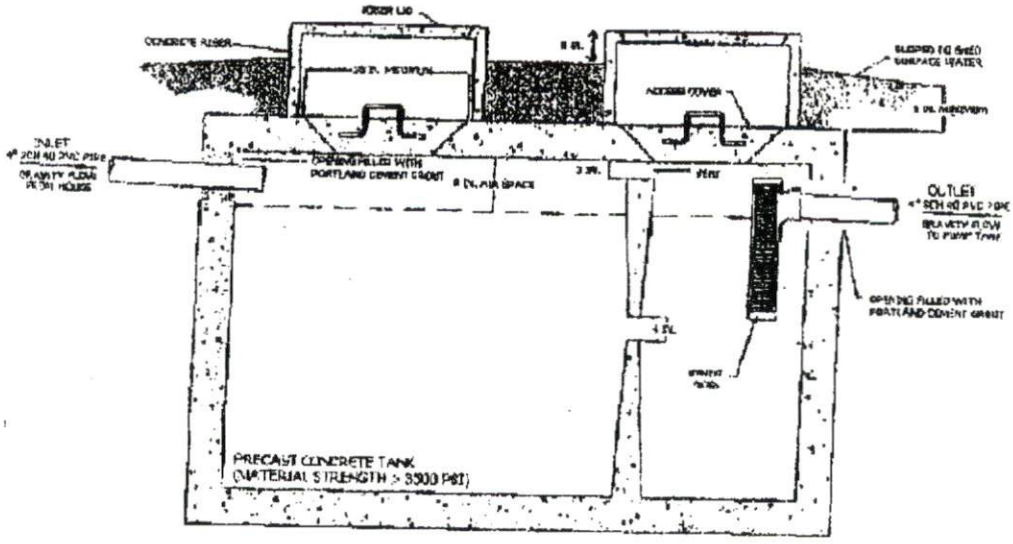
7/24/2008

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.

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7/24/2008