

HTE# 15-537145RR

Harnett County Department of Public Health Improvement Permit

28764

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A building permit cannot be issued with only an Improvement Permit

ISSUED TO: SOUTH-SCAN INC PROPERTY LOCATION: DOCS RD
 SUBDIVISION: TROTTERS BLUFF LOT # 34B
 NEW REPAIR EXPANSION
 Type of Structure: SFO (42x40)
 Proposed Wastewater System Type: PUMP TO 25% REDUCTION
 Projected Daily Flow: 240 GPD
 Number of bedrooms: 2 Number of Occupants: 4 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
 Permit conditions: _____

Authorized State Agent: [Signature] Date: 3/4/16 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: SOUTH-SCAN INC PROPERTY LOCATION: DOCS RD
 SUBDIVISION: TROTTERS BLUFF LOT # 34B
 Facility Type: SFO (42x40) New Expansion Repair
 Basement? Yes No Basement Fixtures? Yes No
 Type of Wastewater System** PUMP TO 25% REDUCTION (Initial) Wastewater Flow: 240 GPD
 (See note below, if applicable DRAIN (NO P&TREATMENT) (Repair)

Installation Requirements/Conditions
 Septic Tank Size 1000 gallons Exact length of each trench 150 feet Trench Spacing: 9 Feet on Center
 Pump Tank Size 1000 gallons Trenches shall be installed on contour at a Soil Cover: 6-18 inches
 Maximum Trench Depth of: 18-30 inches (Maximum soil cover shall not exceed 36" above the trench bottom)
 (Trench bottoms shall be level to +/- 1/4" in all directions) SEE PROPOSAL
 Pump Requirements: _____ ft. TDH vs. _____ GPM _____ inches below pipe
 Aggregate Depth: _____ inches above pipe
 Conditions: SEE ATTACHED PROPOSAL FOR ALL SPECIFICATIONS _____ inches total

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

**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: [Signature] Date: 3/4/16
 Construction Authorization Expiration Date: 3/4/21

HAL OWEN & ASSOCIATES, INC.

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SOIL & ENVIRONMENTAL SCIENTISTS

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26 October 2015

Mr. Bert Kymalainen
South-Scan Development
3128 Gold Dust Lane
Willow Spring, NC 27592

Reference: Septic System Design
Lot B (0.462 Acre) Fox Run Subdivision Phase III

Dear Mr. Kymalainen,

A site investigation has been conducted at the above referenced property which is located on Jockey Ridge in the Barbecue Township of 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 two-bedroom home. Public water supplies are available for use at this lot. 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 Health Department may contain some modifications or amendments to our submitted design. Please carefully review your permit and adhere to all prescribed requirements.

The initial septic system is proposed as 150 linear feet of accepted drainlines (EZ Flow or chamber) utilizing the 25% reduction in drainline length with a long term application rate of 0.4 gal/day/ft². Effluent should be pumped to a distribution box and then serial distribute into three lines with step-downs between the lines. The first drainline should be installed off-contour with the trench depth starting at 30 inches below surface. The first line will run parallel to the property line for ten feet, shallowing to an 18 inch trench depth, then turn and run on contour for another 25 feet. The second drainline should be installed on contour with trench depths at 18 to 24 inches below surface. The third drainline should be installed ultra shallow at 12 inches below surface. A six inch soil cap will need to be added to completely cover the third drainline.

The repair septic system is proposed as a subsurface drip system utilizing a long term acceptance rate of 0.15 gal/day/ft². The soils were observed to be Group III soils (sandy clay loams) to greater than 18 inches below surface, which allows for an anaerobic (septic tank treatment only) drip system to be installed without requiring a special site evaluation (ie hydraulic conductivity testing). The designated repair area is approximately 2200 square feet—more than the required 1600 square foot minimum—to allow for spreading contours or other irregularities that may arise during installation.

Potential septic system drainlines have 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.

HAL OWEN & ASSOCIATES, INC.

This report and the attached septic system design information has been forwarded to Mr. Oliver Tolksdorf at The Harnett County 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.

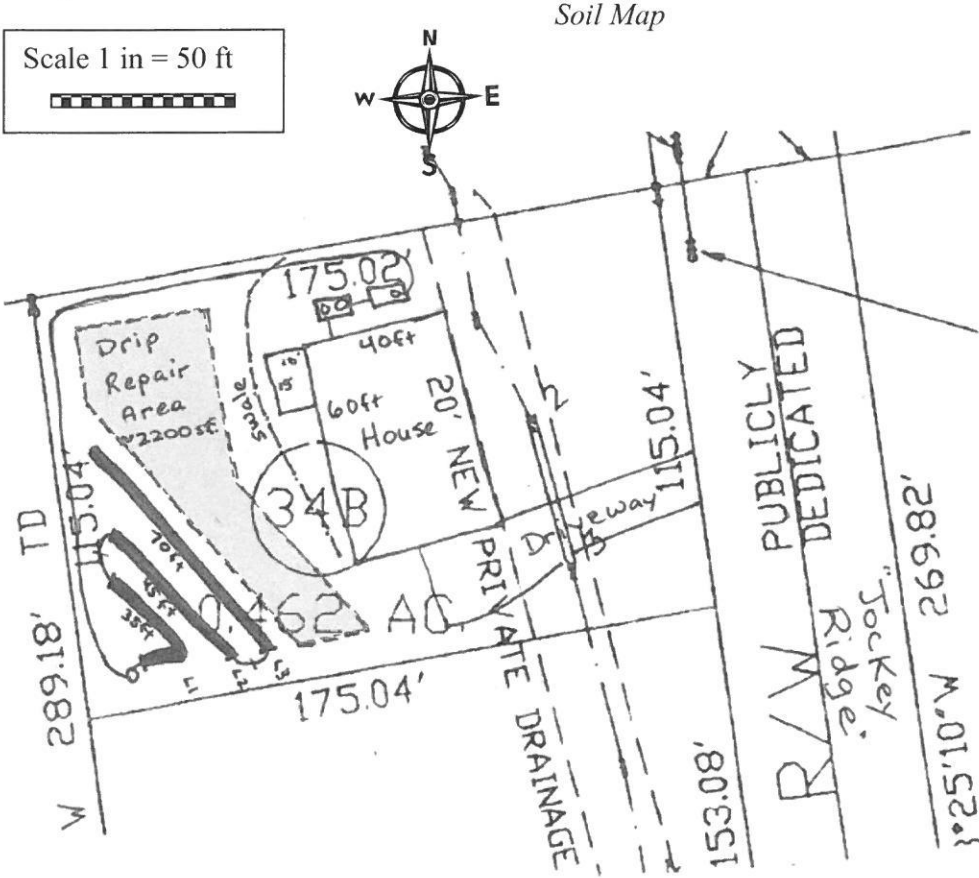


Sincerely,

A handwritten signature in black ink that reads "Hal Owen". The signature is written in a cursive, flowing style.

Hal Owen
Licensed Soil Scientist

Final Report for Comprehensive Soil Investigation
 Lot 34A (0.705 Acre) and 34B (0.462 Acre) Fox Run Subdivision Phase III
 2 September 2014



Drainfield Specs

Line#	Color	Length	Relative Elevations (ft)		
			RE1	RE2	RE3
L1	Yellow	35	95.44	94.46	94.46
L2	Red	45	93.12	91.82	
L3	Blue	70	91.82		
Benchmark: Aluminum Pipe			100.00		

Drainlines shall be installed at least 9ft on center and at least 10ft from property lines.
 Septic and Pump tanks shall be at least 5ft from house and at least 10ft from property lines.