

HTE# 11-527693

# Harnett County Department of Public Health Improvement Permit

26740

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: STONE CROSS LLC PROPERTY LOCATION: OVERHILLS RO  
 SUBDIVISION: STONE CROSS LOT # 30  
 NEW  REPAIR  EXPANSION   
 Type of Structure: SFO (35'x50')  
 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 conditions: \_\_\_\_\_ Permit valid for:  Five years  
 No expiration

Authorized State Agent: [Signature] RENS Date: 11/30/11 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: STONE CROSS LLC PROPERTY LOCATION: OVERHILLS RO  
 SUBDIVISION \_\_\_\_\_ LOT # \_\_\_\_\_  
 Facility Type: SFO (35'x50')  New  Expansion  Repair  
 Basement?  Yes  No Basement Fixtures?  Yes  No  
 Type of Wastewater System\*\* PUMP TO 25% REDUCTION SYSTEM (Initial) Wastewater Flow: 240 GPD  
 (See note below, if applicable   
FILL SYSTEM (Repair)

**Installation Requirements/Conditions**  
 Septic Tank Size 1000 gallons  
 Pump Tank Size 1000 gallons  
 Number of trenches 1  
 Exact length of each trench 200 feet  
 Trenches shall be installed on contour at a  
 Maximum Trench Depth of: 12 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: THIS PERMIT BASED ON A PROPOSAL FROM APPLICANTS  
LSS. SEE ATTACHED DRAWING PROVIDED BY LSS.

**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] RENS Date: 11/30/11  
 Construction Authorization Expiration Date: 11/30/16

SITE SKETCH For 11-B-27693

10 Nov 2011

**SEPTIC SYSTEM LAYOUT DESIGN**

Subdivision: Stone Cross Lot #: 30  
 Site Address: 46 Cobblestone Drive (NC PIN 0514-29-6939)

# Bedrooms: 2 Daily Flow: 240 gallons  
 House Footprint 35ft x 50ft Setbacks: Front 35ft

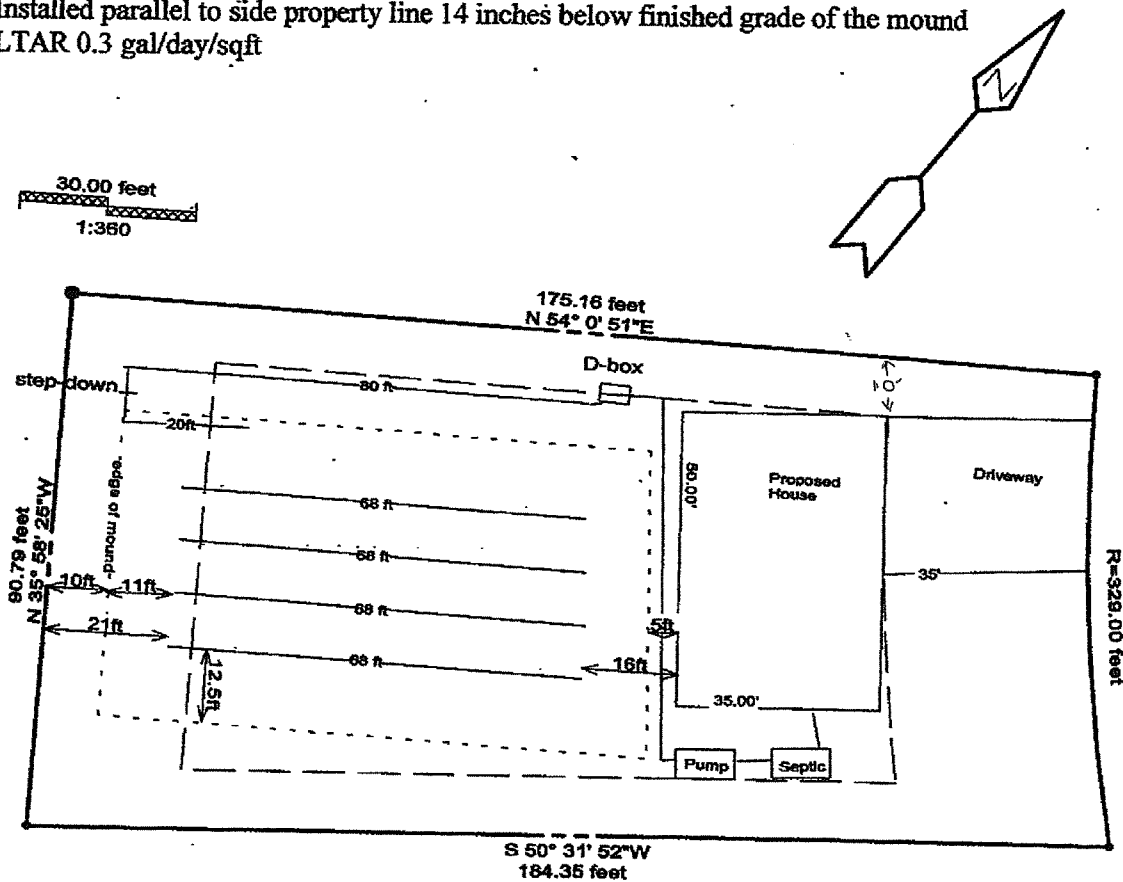
**Proposed System:**

**Initial System:**

Pump to 1 X 100ft [80ft + 20ft] accepted status drainlines  
 Installed parallel to side property line at 12 inches below natural soil surface  
 LTAR 0.6 gal/day/sqft

**Repair system:**

Pressure-manifold to 4 X 68ft X 3ft wide drainlines  
 Infiltrator "Quick4 Plus Standard LP" chambers installed in 18" mound  
 Installed parallel to side property line 14 inches below finished grade of the mound  
 LTAR 0.3 gal/day/sqft





# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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www.halowensoil.com

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10 November 2011

Mr. J. Bret Mangum  
Anderson Creek Club  
125 Whispering Pines Drive  
Spring Lake, NC 28390

Reference: Septic System Design  
Lot 30 Stone Cross Subdivision

Dear Mr. Mangum,

A site investigation was conducted for the above referenced property to demonstrate the ability of this lot to support a subsurface sewage waste disposal system and 100 % repair area for a two-bedroom home (240 gallon daily flow). A 35 X 50-foot house footprint was utilized for this investigation. A foundation drain will not be possible. This report represents my professional opinion but does not guarantee or represent permit approval for any lot by the local Health Department.

The initial system is proposed as a pump to 100 ft (two lines with serial distribution) of accepted status type drainline (25% reduction) utilizing a long term acceptance rate of 0.6 gal/day/sqft (see attached sketch). Trenches should be installed 12 inches below the natural soil surface.

The repair septic system is proposed as a mound type system utilizing a long term acceptance rate of 0.3 gal/day/sqft. Effluent will be pumped to a pressure-manifold and distributed to four equal length (68 ft) drainlines utilizing infiltrator "Quick4 Plus Standard LP" chambers (NC DENR Innovative Wastewater System Approval No. IWWS-2010-1). The drainlines will need to be installed in a mound with a maximum height of eighteen (18) to twenty (20) inches, parallel to the side property line, and with the trench bottom depths at 14 inches below finished grade. Soil material for the mound must be approved by the local Health Department. A site visit by Hal Owen & Associates is required to ensure proper mound construction prior to installation of the drainlines. It is proposed that the soil material for the mound be put in place at the same time as the initial system, although only the initial system will be installed at this time.

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 areas prior to construction to eliminate any potential damage to the soil or the layout of the systems.

HAL OWEN & ASSOCIATES, INC.

10 Nov 2011

We 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 us at your convenience.

Sincerely,

A handwritten signature in black ink that reads "Hal Owen". The signature is written in a cursive style with a large, prominent "H" and "O".

Hal Owen  
Licensed Soil Scientist

10 Nov 2011

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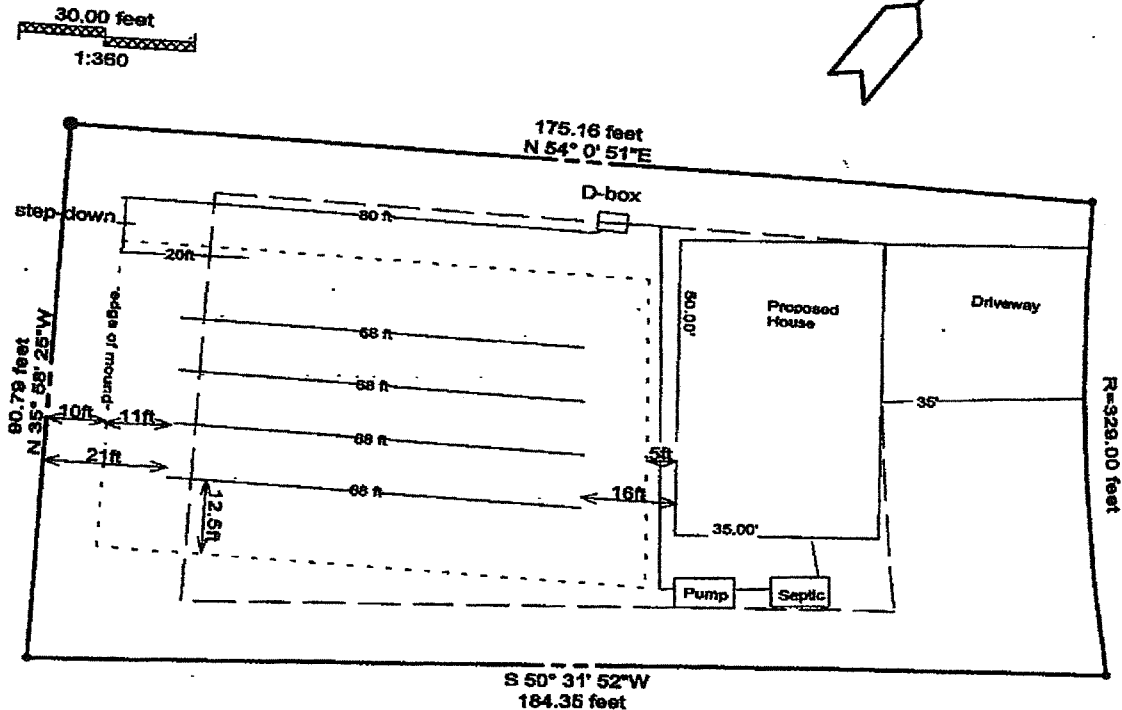
**Proposed System:**

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