

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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25 October 2016

Mr. Tre Clark
Tre@dcgraleigh.com

Reference: Soil Investigation and Septic System Design
Lot#22 Blk#4 Captains Landing, PIN 0613-86-8058

Dear Mr. Clark,

A site investigation was conducted in October 2016 for the above referenced property, which is located at 619 Jasmine Road in 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 for a typical four-bedroom home. Community water supplies will be utilized for this lot. It is our understanding that this lot was recorded prior to 1983 and is exempt from the repair area requirement.

All ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900". 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 soils were evaluated under moist soil conditions through the advancing of auger borings. This lot was observed to be underlain by soils rated as provisionally suitable for subsurface sewage waste disposal (see attached map). These provisionally suitable soils were observed to be firm clays to greater than 36 inches and will support long term acceptance rates of 0.3 gal/day/sqft.

An initial septic system has been designed utilizing a design flow of 480 gallons per day and a long term application rate of 0.3 gal/day/ft². The system is proposed as a gravity driven system to 400 feet of 25% reduction status drainlines (EZ Flow or chamber). The drainlines should be installed on contour with trench bottom depths at 18 to 24 inches below surface. An area immediately behind the home contains the remains of an old abandoned septic system and is not recommended for the installation of the new system, although the area could be used with provisions taken if old drainlines are encountered.

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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.

This report and the attached septic system design information will need to be submitted to the 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,

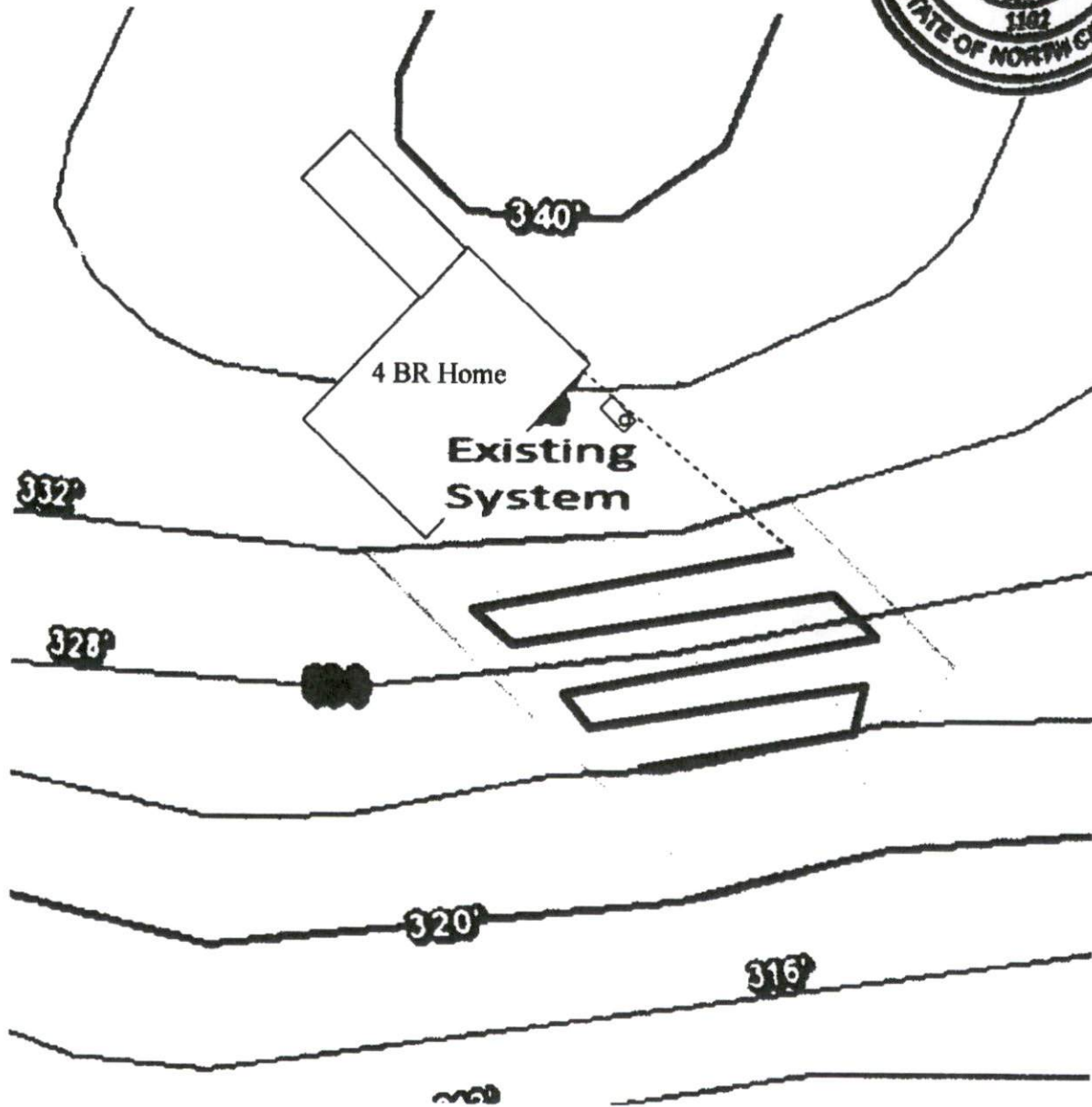
A handwritten signature in cursive script that reads "Hal Owen".

Hal Owen
Licensed Soil Scientist


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19 October 2016




Soil map showing septic suitability and septic layout



Soil Map Legend

 Provisionally Suitable Soils

Scale 1 in = 50 ft



Distances are paced and approximate

