

**SOIL/SITE EVALUATION
 for ON-SITE WASTEWATER SYSTEM**

Owner:

Applicant:

154
 7/14/09

Address:

Date Evaluated:

Proposed Facility:

Design Flow (.1949):

Property Size:

Location of Site:

Property Recorded:

Water Supply: Public Individual Well Spring Other

Evaluation Method: Auger Boring Pit Cut

Type of Wastewater: Sewage Industrial Process Mixed

P R O F I L E #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		OTHER PROFILE FACTORS				Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Saprot Class	.1944 Restr Horiz	
LS 2-410		0-30	G/LS	VF-NSNP					PS.5
		30-40	SBK/SC1	F-SSSP					
		40+	PM						
		0-20	G/LS	VF-NSNP					US/PS.3
		20-30	ABK/C	F:SP	104R71, 28"				
		0-46	G/LS	VF-NSNP					PS.5
		46-49	SBK/SC1	F-SSSP					
		0-20	G/LS	VF-NSNP					US/PS.3
		20-29	SBK/C	VF:SP	104R71, 26"				
		0-13	G/LS	VF-NSNP					US
		13-29	SBK/ABK/SC1	F:SP	104R71, 21"				
		0-48	G/LS	VF-NSNP					PS.5
		0-48	G/LS	VF-NSNP					

Description	Initial System	Repair System
Available Space (.1945)	/	/
System Type(s)	25% Con	Con
Site LTAR	.8	.8

Other Factors (.1946): _____
 Site Classification (.1948): _____
 Evaluated By: _____
 Others Present: _____

COMMENTS: _____

<u>LANDSCAPE POSITIONS</u>	<u>GROUP</u>	<u>TEXTURES</u>	<u>.1955 LTAR</u>	<u>CONSISTENCE MOIST</u>	<u>WET</u>
R-RIDGE	I	S-SAND	1.2 - 0.8	VFR-VERY FRIABLE	NS-NON-STICKY
S-SHOULDER SLOPE		LS-LOAMY SAND			
L-LINEAR SLOPE	II	SL-SANDY LOAM	0.8 - 0.6	FR-FRIABLE	SS-SLIGHTLY STICKY
FS-FOOT SLOPE		L-LOAM		FI-FIRM	S-STICKY
N-NOSE SLOPE				VFI-VERY FIRM	VS-VERY STICKY
H-HEAD SLOPE				EFI-EXTREMELY FIRM	NP-NON-PLASTIC
CC-CONCLAVE SLOPE	III	SI-SILT-	0.6 - 0.3		SP-SLIGHTLY STICKY
CV-CONVEX SLOPE		SIL-SILT LOAM			
T-TERRACE		CL-CLAY LOAM			
FP-FLOOD PLAN		SCL-SANDY CLAY LOAM			
		SICL-SILTY CLAY LOAM			
	IV	SIC-SILTY CLAY	0.4 - 0.1		
		C-CLAY			
		SC-SANDY CLAY			

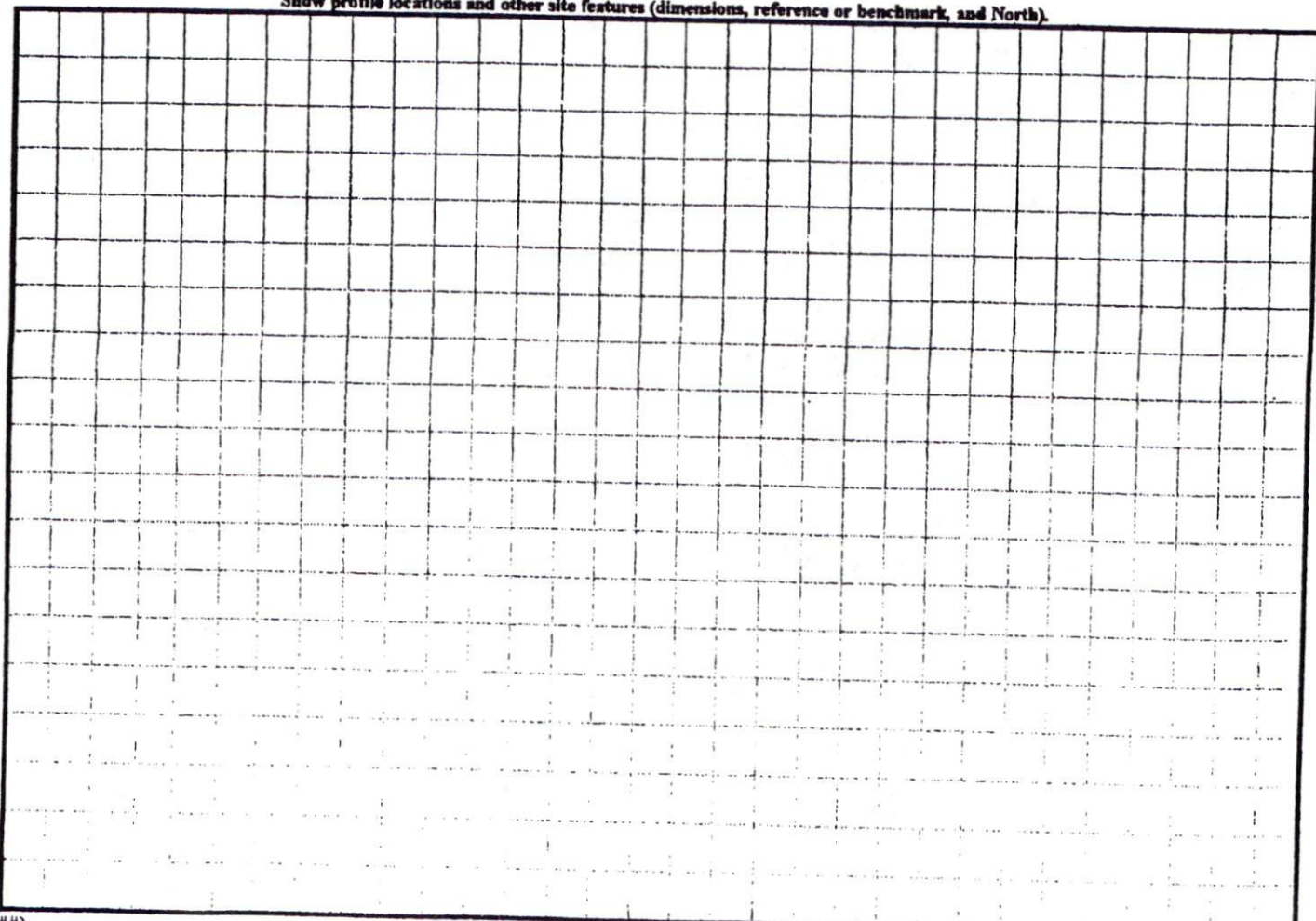
STRUCTURE

- SG-SINGLE GRAIN
- M-MASSIVE
- CR-CRUMB
- GR-GRANULAR
- SBK-SUBANGULAR BLOCKY
- ABK-ANGULAR BLOCKY
- PL-PLATY
- PR-PRISMATIC

MINERALOGY

- SLIGHTLY EXPANSIVE
- EXPANSIVE

Show profile locations and other site features (dimensions, reference or benchmark, and North).

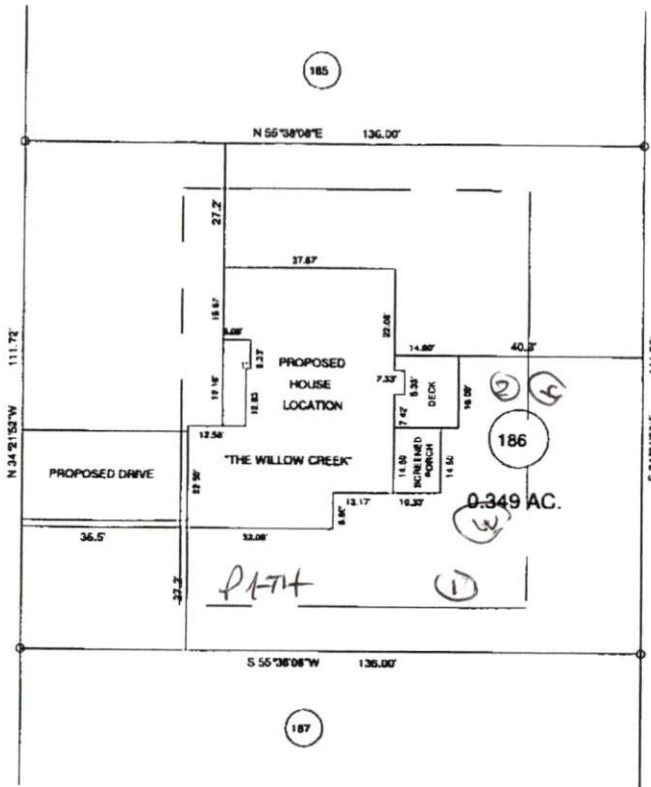


A.C. GRID NORTH (ROAD 27)

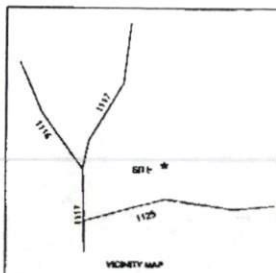
MAP REFERENCE: MAP NO. 2007-948

SITE PLAN APPROVAL
 DISTRICT RA-20R USE SF1
 #BEDROOMS 3
 Date 7-13-09
 Zoning Administrator N. C. Pa.

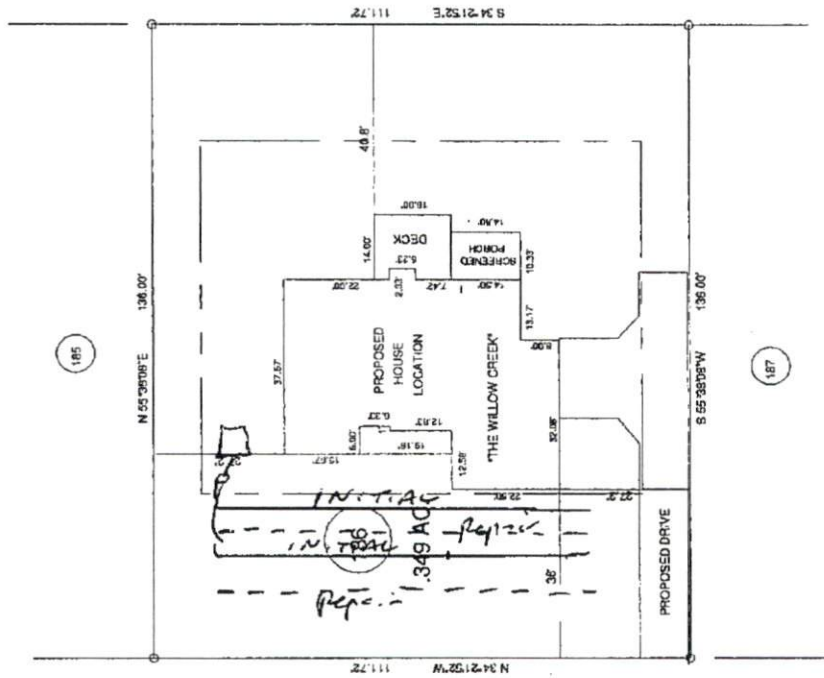
"KIMBROUGH DRIVE" 50' R/W



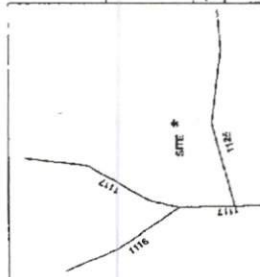
MINIMUM SET BACKS
 FRONT YARD — 35'
 REAR YARD — 25'
 SIDE YARD — 15'
 CORNER LOT REAR YARD — 20'
 MAXIMUM HEIGHT — 35'



SURVEY FOR: PROPOSED PLOT PLAN - LOT - 186 WOODSHIRE S/D, PHASE - FIVE		JOB NO. 09380	
TOWNSHIP ANDERSON CREEK		COUNTY HARNETT	
STATE: NORTH CAROLINA		DATE: JULY 07, 2009	
ZONE RA-20R	WATERSHED DISTRICT	TAX PARCELS: 206	
BENNETT SURVEYS, INC. 1642 CLARK RD., ULLINGTON, N.C. 27546 (919) 893-5252		C-1060	
SCALE: 1" = 40'		SURVEYED BY:	FIELD BOOK
CHECKED & CLOSURE BY:		DRAWN BY: RVB	DRAWING NO.
			09380



"KIMBROUGH DRIVE" 50' R/W



JOB NO. 33380		C-1080	
BENNETT SURVEYS, INC.		1662 CLARK RD. ULLINGTON NC 27548.	
(910) 880-5952			
TOWNSHIP	ANDERSON CHEEK	COUNTY	HARNETT
STATE	NORTH CAROLINA	DATE	AUGUST 18, 2008
SURVEYED BY:		DRAWN BY:	
20		40	
SCALE: 1" = 40'		RVB	
FIELD BOOK		DRAWING NO.	

SURVEY FOR:
 PROPOSED PLOT PLAN - LOT - 186
 WOODSHIRE S/D, PHASE - FIVE

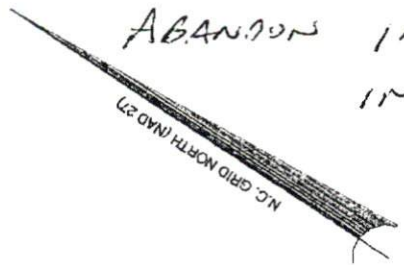
(*)

11/4/09 House 10' closer than permitted.

Met with GRAHAM & OLIVER on site will use

AREA BETWEEN INITIAL LINES FOR REPAIR

ABANDON INITIAL SYSTEM WHEN REPAIR INSTALLED



MAP REFERENCE: MAP NO. 2007-948

0-60 SAND/
 LOAMY SAND
 SEE TEST INFO

METHODS:
 FRONT YARD - 25
 REAR YARD - 25
 SIDE YARD - 15
 CORNER LOT REAR YARD - 25
 EXPOSED PERIMETER - 25

Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321
Fayetteville, NC 28311
Phone/Fax (910) 822-4540
Email mike@southeasternsoil.com

November 4, 2009

Harnett County Health Department
307 Cornelius Harnett Blvd.
Lillington, NC 27546

Re: Hydraulic conductivity (Ksat) analysis for subsurface waste disposal, Lot 186,
Woodshire Subdivision (Phase 5), Harnett County, North Carolina

Dear Sirs,

An evaluation of soil and hydraulic conductivity (Ksat) has been conducted on the aforementioned property. The purpose of the investigation was to determine soil absorption rates for a proposed repair septic system to serve a 4 bedroom single family residence. All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

Two compact constant head permeameter (CCHP) measurements were made to determine a Ksat rate at depths of 42 to 58 inches. The slowest measurement (at 42 inches) was 25.64 cm/hr (this equates to 151 gpd/sq. ft). Using 4% of this figure yields 6.04 gpd/sq. ft.

Our system is based on a proposed 0.80 gpd/sq. ft. which is considerably less than 4% of the measured rate. This should allow for sufficient drainage from the proposed repair system.

Sincerely,



Mike Eaker
President

