HTE# 14-5-33956RR Harnett County Department of Public Health

28403

Improvement Permit

A	building permit cannot be issued with			
recurs to 1. 2. C. A. A.	PROPERTY LOCA	ITION: Docs.	Rd.	
ISSUED TO: Wyn Construction NEW REPAIR . EXPANSIO	ZORDIAIZION —	1 rotters	Kidy e	LOT # <u>49</u>
Type of Structure: 5F1 45 x 60	IN L	Site improvements rec	quired prior to Construction Autho	rization Issuance:
Proposed Wastewater System Type: Ramp to 25	To Reduction Sides			
Projected Daily Flow:	10 1000000 1110			,
	oants: max			
Basement 🗆 Yes 📈 No				
Pump Required: 121Yes □ No □ May be requi	ired based on final location and eleva	ations of facilities		
Type of Water Supply: Community Public Permit conditions:	☐ Well Distance from well	feet	Permit valid for:	☐ Five years☐ No expiration
	1	/)		
Authorized State Agent:	in REUS Date:	6/22/2015	CEE AT	TACHED SITE SKETCH
The issuance of this permit by the Health Department in no way guarar site is subject to revocation if the site plan, plat, or the intended use of the Laws and Rules for Sewage Treatment and Disposal and to condition	ntees the issuance of other permits. The permit hanges. The Improvement Permit shall not be	holder is responsible for che	cking with appropriate governing bodies i	n meeting their requirements. This
	Construction Au	thorization		
	(Required for Build	ing Permit)		
The construction and installation requirements of Rules .1950, .1952, .19 with the attached system layout.				
ISSUED TO: Wyn Contraction	PROPERTY	LOCATION: Doc	s ld	
Table Tonic	ZORDIAIZIG	IN 10 TTers	· Kidge	LOT # <u>99</u>
racinty type.	inew iii expans	sion 🗆 Repair		
	cures? Yes No		A * * D * **	31.0
	c Leduct on System	· · · · · · · · · · · · · · · · · · ·	(Initial) Wastewater Flow:	GPD
(See note below, if applicable □)	1. ((5. 1)		
Land the Desire of the Ut	Number of trenches	(Repair)		
			- 14 · G	_
Septic Tank Size /00 gallons	Exact length of each trench		Trench Spacing: 9	
Pump Tank Size 1000 gallons	Trenches shall be installed on co		<u> </u>	inches
	Maximum Trench Depth of:		(Maximum soil cover shall	
	(Trench bottoms shall be level to	0 +/-1/4"	36" above the trench bot	tom)
	in all directions)			
Pump Requirements:ft. TDH vs	_ GPM			inches below pipe
0 1 1 1 - 1	1/ /	0	Aggregate Depth:	inches above pipe
Conditions: <u>Yermit</u> bared on 50.1	consultants prepose	ul; see at	toch mend	inches total
tor system layout	-			
Conditions: Permit bosed on 50:10 -for System layout WATER LINES (INCLUDING IRRIGATION) MUST B NO UTILITIES ALLOWED IN INITIAL OR REPAIR D	E 10FT. FROM ANY PART OF SI Rain field area.	EPTIC SYSTEM OR R	EPAIR AREA.	
		nd on the conficution	Laccont the anniforming	46:
**If applicable: / understand the system type specified	is unierent irom the type specine	ed 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, p Construction Authorization is subject to compliance with the provisions of			•	ownership of the site. This ATTACHED SITE SKETCH
Authorized State Agent:	Lia LEHS	Date: _	6/22/2015	
	Construction Authori	zation Evniration D	ata: (/23/2020	

Southeastern Soil & Environmental Associates, Inc.

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

April 20, 2015

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

Re: Hydraulic conductivity (Ksat) analysis for subsurface waste disposal system (repair area), Trotters Ridge Subdivision, Lot 44, Darley Ct., Harnett County, North Carolina

To whom it may concern,

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 3 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".

Soils in the proposed repair area consist of 12 to 16 inches of a very friable loamy sand underlain by a firm sandy clay loam to 24 inches. Below 24 inches is a firm sandy clay loam BC and C horizons [no evidence of soil wetness within 36 inches of the soil surface. Any mottling was considered relic of a mineral deposition].

One compact constant head permeameter (CCHP) measurement was made to determine a Ksat rate at a depth of 36 inches (C horizon). The measured Ksat rate was were 0.17 cm/hr. This equates to 1.00 gpd/sq. ft. Using 30% of the lowest Ksat measured equates to 0.30 gpd/sq. ft. (acceptable allowance if using pretreatment).

The proposed repair system (ultra shallow conventional installed at grade with 6 inches of soil cover) is based on a 0.30 gpd/sq. ft. conventional application rate which is considerably less than the measured rate. The Ksat measured support a higher application rate if needed, however, for the purposes of this proposal we will use a more conservative figure.

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

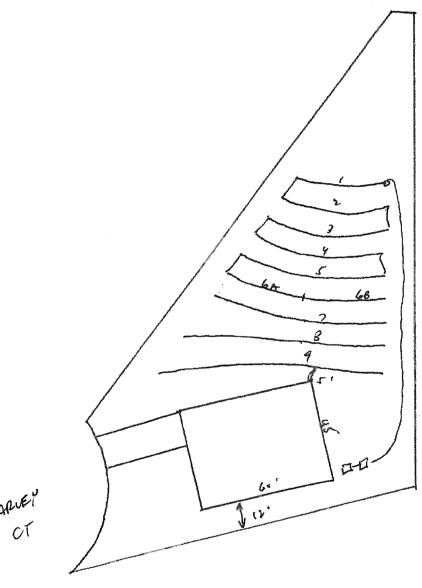
	SUBDIVISION TRATTERS PLOSE PUM TO INITIAL SYSTEM POSSES 252 REDUCTION			<u>LOT</u> 44		
				REPAIR APPEAR 25% REDUCTION W/		
	DISTRIBUTION	SERIAL	und ·		SEPIAL PRETASAT	
	BENCHMARK	1020		LOCATION RC	44/4-	
	NO. BEDROOMS	3		PROPOSED LTAR	0,3 SPO/FT	
	<u>LINE</u> <u>I</u>	LAG COLOR	ELEVATION	<u>LENGTH (F</u>	<u> </u>	
	7.	6	103,75	40'		
· · · · · · · · · · · · · · · · · · ·	$\frac{2}{3}$	<u> </u>	10292	501		
In the	\	Ö	100.75	621		
Indian (- 6A	B D	99.25 98.67	653/ 3.51		
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	<u>68</u>	0	98.67	357		
		<u></u>	<u> </u>	80/		
	<u>ਲ</u> ੧	$\frac{\tilde{\beta}}{\beta}$	9675	9° ′ 10° ′		
				3.5		
	BY M EAKE		_	DATE OY/2015-		
	2 13 5c 15+ PM	(Figher		House Bo	× 45' ×60' MAX	
	Add 6"	AT IL!	* *		LAT NO GRADING	
	46 RE	- 64 - 1 (P. 2)		OF CUTTING	- occur in AREA	
				OF SEPTIC	DRAINFIELDS	
			*	HEWE MUST	HAVE CRAWL SPACE	

Southeastern Soil & Environmental Associates, Inc. P.O. Box 9321 Fayetteville, NC 28311 Phone/Fax (910) 822-4540 TRATTERS RIOGE

Email mike@southeasternsoil.com

TROTTERS RIDGE LOT 44

PROPOSED SEPTIC LAYOUT



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