Permit #: SFD2401-0030



ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON - Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authorization	fee \$
	IMPROVEME	NT PERMIT FOR G.S. 130A-335	i(a2)
County: Harnett			
PIN/Lot Identifier: 968	81-61-3699		
Issued To: Smith Do			
Property Location: 35	7 Liam Drive - Broadway, NC		
Subdivision (if applicab	le) Harrington Place	Lot #: 21	Block: Section:
LSS Report Provided: \			
If yes, name and licens	e number of LSS: Alex Adams - L	SS #1247	
New 🗹	Expansion	System Relocation	Change of Use
Proposed Structure:	ingle Family		
Number of bedrooms:	4 Number of Occupants 8	Other:	
Design Wastewater Str	ength: 🗹 domestic	high strength industri	al process
Proposed Design Daily	Flow: 480 GPD	Proposed LTAR (Initial): _4 Pr	oposed LTAR (Repair): .4
Proposed Wastewater	System Type*: Accepted Status	(Initial) Pump Req	uired: Yes No May be required
Proposed Wastewater	System Type*: Accepted Status	(Repair) Pump Req	uired: 🗹 Yes 📋 No 🔲 May be required
		iter system types in accordance with 15A	
Saprolite System (initia	ol): Yes 🗹 No Saprolite	System (repair): 🔲 Yes 🕝 No	
Fill System (Initial):	Yes No If yes, specify: New	Existing (when adding more than 6	inches of fill to system area provide a fill plan)
Fill System (repair):	Yes No If yes, specify: New	Existing (when adding more than 6	inches of fill to system area provide a fill plan)
Usable Soil Depth (Initi	ial): 36 Usable So	il Depth (Repair): 30	
Max. Trench Depth (In	itial) <sup>‡</sup> ; 22 Max Trer	nch Depth (Repair) <sup>1</sup> : 18	Measured on the downhill side of the trench
		specify details:	
Type of Water Supply:	Private well Public well	Shared well  Municipal Supply	Spring Other:
Drainfield location me	ets requirements of Rule .1945: Yes	No Drainfield location meets	requirements of Rule .1950: Yes 🗹 No 🗌
Permit valid for: Fiv	ve years [site plan submitted pursual	nt to GS 130A-334(13a)] 🔲 No expiratio	n (plat submitted pursuant to GS 130A-334(7a)
Permit conditions:			
Licensed Soil Scientist	Print Name: Alex Adams		
Licensed Soil Scientist	Signature: Xlex Xda	mæ	Date: 3-6-24

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

\*See attached site sketch\*

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF PUBLIC HEALTH



Permit #: 5FD Z401-0030

#### This Section for Local Health Department Use Only

	Initial submittal received:	3-12-24	by MAO	
		Date	Initials	
G.S. 130A-335(a3) states the following	ng:			
When an applicant for an Improvement Permit department, the common form developed by within five business days of receiving the appl Permit includes all of the required component shall notify the applicant of the components adepartment to cure the deficiencies in the Implicant of the within five business days after the act within any period set out in this subsection common form for use as the Improvement Per	the Department, and a soil evalual ication, conduct a completeness re s. If the local health department do eeded to complete the Improvement provement Permit. The local health local health department receives n, the applicant may treat the failu	tion pursuant to subse eview of the submittal etermines that the Imp ent Permit. The applica department shall mal the additional informa	ction (a2) of this sect A determination of corovement Permit is interested to the corovement of the corovement of the corovement of the application from the	ion, the local health department shall, completeness means that the Improvement incomplete, the local health department ional information to the local health ion as to whether the Improvement Permit int. If the local health department falls to
The review for completeness of this Permit is determined to be:	Improvement Permit was c	onducted in accor	dance with G.S.	L30A-335(a3). This Improvement
☐ Incomplete (If box is checked, in	formation in this section is	required.)		
The following items are missing:				
Copies of this were sent to the LSS a	nd the Applicant on	5/24		
State Authorized Agent:		Date		Date:
Complete State Authorized Agent:	Larens			Date: <u>3 - /2 - 24</u>
This Improvement Permit is issued pattached here. The issuance of this permit holder is responsible for che to revocation if the site plan, plat, o ownership of the site. This permit is Disposal and to the conditions of the	permit by the Health Depa cking with appropriate gover the intended use changes s subject to compliance with is permit.	ertment in no way erning bodies in a s. The Improvement th the provisions	y guarantees the meeting their re- ent Permit shall of the Laws and	issuance of other permits. The quirements. This permit is subject not be affected by a change in Rules for Sewage Treatment and
The Department, the Department's any liabilities, duties, and responsib evaluations, submittals, or actions f	ilities imposed by statute of	or in common law	from any claim	arising out of or attributed to
Improvement Permit Expiration Dat	te: 3-12-29			

\*See attached site sketch\*



Permit #:	

#### **Re-submittal of Improvement Permit**

	LHD USE ONLY: This IP res	ubmittal received:	Date	by Initials	-
The following ite	ems are being resubmitted purs	uant to G.S. 130A-335	(a3) for issuance of	f the Improvement Permi	t:
			Administration of the second		
				•V—	
s accurate and c	cientist (Print Name) complete to the best of my kno laws, regulations, rules, and or	wledge and that the p		equired to be included wit	
Signature	of Licensed Soil Scientist			Date	
	The section below is for Local  p Completeness Review of this Improvemental Completeness of this Improvemental Completeness of the Completeness of	of Improvement Pe	ermit		
mprovement Pe	rmit is determined to be:	ent remitte submitte	n was conducted in	raccordance with G.S. 13	0A-333(83). Tilis
☐ incomplete (	(If box is checked, information	in this section is requi	red.)		
The following ite	ems are missing:				
Copies of this we	ere sent to the LSS and the App	licant on			
itate Authorized	Agent:		<u> </u>	Date:	
☐ Complete	<del>.</del>				_
itate Authorized	Agent:		233	Date:	



Permit #: SFD 2461-0030

#### **CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)**

County: Johnston
PIN/Lot Identifier: 9681-61-3699
Issued To: Smith Douglass Homes
Property Location: 357 Liam Drive - Broadway, NC
AOWE/PE Plans/Evaluations Provided: Yes 🗹 No 🗌 If yes, name and license number of AOWE/PE: Alex Adams - AOWE #10021E
Facility Type: Single Family
New Expansion Repair System Relocation Change of Use
Basement? Yes Po Basement Fixtures? Yes No
Type of Wastewater System® Accepted Status (Initial) Accepted Status (Repair
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Dally Flow: 480 GPD Wastewater Strength: domestic high strength industrial process
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? Yes (if yes, please provide engineering documentation)
Installation Requirements/Conditions
Septic Tank Size: 1000 gallons Total Trench/Bed Length: 300 feet Trench/Bed Spacing: 9 feet on center
Trench/8ed Width: 36 inches LTAR: 4 gpd/ft²
Soil Cover: 6 inches Slope Corrected Maximum Trench/Bed Depth <sup>1</sup> ; 22 inches * Measured on the downhill side of the trench
Aggregate Depth: 6 inches above pipe 6 inches below pipe 12 inches total
Pump Tank Size (if applicable): 1000 gallons Requires more than 1 pump?  Yes No
Pump Requirements: 10 ft. TDH vs. 15 GPM Grease Trap Size (if applicable); gallons
Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) LPP Other:
Artificial Drainage Required: Yes 🗸 No 🗌 If yes, please specify details: curtain drain - see design sheet
<u>Legal Agreements</u> (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement Required [.1937(h)]: Yes 📝 No
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: Yes 📝 No
Declaration of Restrictive Covenants: Yes V No
Pre-Construction Conference Required: Yes No 🗹
Conditions: No foundation or gutter drains to be directed towards septic field.
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference
into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.
AOWE/PE Print Name: Alex Adams Expiration Date: 12-31-2024
AOWE/PE Signature: Xlex Adams Date: 3-1-24
This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

\*See attached site sketch\*



Permit #: SFD 2401-0030

#### This Section for Local Health Department Use Only

Initial submittal received: 3-12-2(1 by m40 Date Initials

#### G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revake the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

\*See attached site sketch\*



Permit #:	

#### **Re-submittal of Construction Authorization**

į	LHD USE ONLY: This CA resubmittal received	d:	by	
The following it	tems are being resubmitted pursuant to G.S. 130A	A-335(a5) for issuance of	of the Construction Author	ization:
l,	hereby attest	t that the information re	equired to be included wit	h this re-submittal
is accurate and	usite Wastewater Evaluator (Print Name) complete to the best of my knowledge and that nd local laws, regulations, rules, and ordinances.		tion Authorization meets a	ll applicable
Signatur	e of Authorized On-Site Wastewater Evaluator		Date	
	The section below is for Local Health Departmen	nt use after submittal of it	ems noted as missing above.	
LHD Follow-u	p Completeness Review of Construction	n Authorization		
	completeness of this Construction Authorization on Authorization is determined to be:	re-submittal was condu	icted in accordance with G	.S. 130A-335(a5).
☐ Incomplete (	If box is checked, information in this section is re	equired.)		
The following it	ems are missing:			
Copies of this w	ere sent to the AOWE/PE and the Applicant on _	Date		
State Authorize	d Agent:		Date:	
☐ Complete			<del></del>	
State Authorized	d Agent:	4_98	Date:	

#### Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761

alexadams@bcsoil.com

March 6, 2024 Project #1614

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335 (a2), (a5), and (a6)"

RE: Harrington Place Subdivision - Lot #21 (357 Liam Drive – Broadway, NC) (Harnett County) for Smith Douglass Homes

To whom it may concern:

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18E. From this evaluation, ASC is providing the attached 480 gallon/day septic design.

The suitable soils found on the subject property were relatively consistent in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 480 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary and repair (if needed) system on contour, see attached site plan for the primary system and repair locations. No underground utilities, water lines, or sprinkler systems shall be

placed into the initial or repair septic areas. Installation must meet all state and local county regulations for septic system installation. The trenches must be installed in the same location as the site plan. If the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime.

Sincerely,

Alex Adams

NC Licensed Soil Scientist #1247 AOWE Certification: 10021E

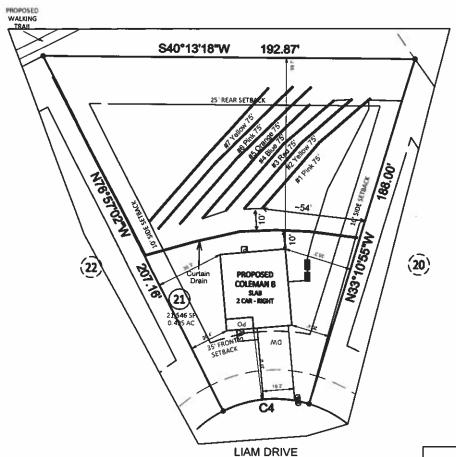




#### Harrington Place 4-Bedroom - Septic Design Lot #21 - 357 Liam Drive **Smith Douglass Homes** Harnett County PIN: 9681-61-3699

\*Not a Survey

Sketched from a plot plan supplied by owner

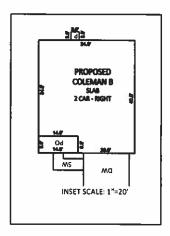


System: Serial Dist. Lines: 1-4 (300') **0.4 LTAR** 

22" Max Trench Bottom Accepted Status System Repair: Pressure Manifold

Lines: 5-7 (300') **0.3 LTAR** 

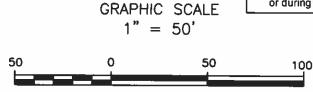
18" Max Trench Bottom Accepted Status System



\*\*1000 Gallon Septic and Pump Tank Tank and trenches to be located minimum of 10' from any property line and minimum of 5' from any building foundation. 10' separation from curtain drain

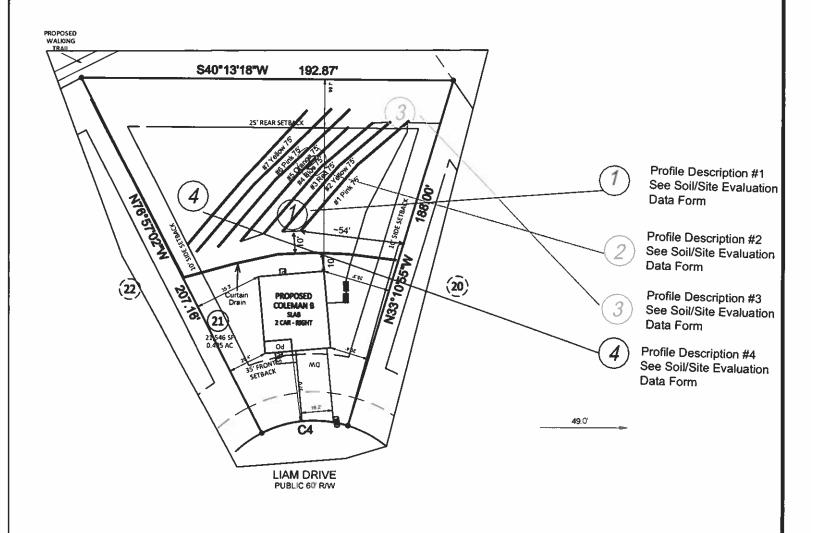
- \*Do Not Cut, Fill, or Alter Drainfield or Repair Area
- \*Comply with all setbacks
- \*Contact local health dept. and/or Alex Adams prior to or during installation with any questions or concerns.

Adams Soil Consulting 919-414-6761 Job #1614 3-6-24

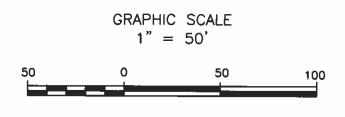


## Harrington Place Soil Boring Map Lot #21 - 357 Liam Drive Smith Douglass Homes Harnett County PIN: 9681-61-3699

\*Not a Survey Sketched from a plot plan supplied by owner



Adams
Soil Consulting
919-414-6761
Job #1614
3-6-24



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

(Complete all fields in full)

OWNER: Smith Douglass Homes

ADDRESS: Lot 21 Harrington Place - 357 Liam Drive

PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480gpd

LOCATION OF SITE: Lot 21 Harrington Place – 357 Liam Drive

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

APPLICATION DATE:

DATE EVALUATED: 3-1-24

PROPERTY SIZE: ~0.49 acres

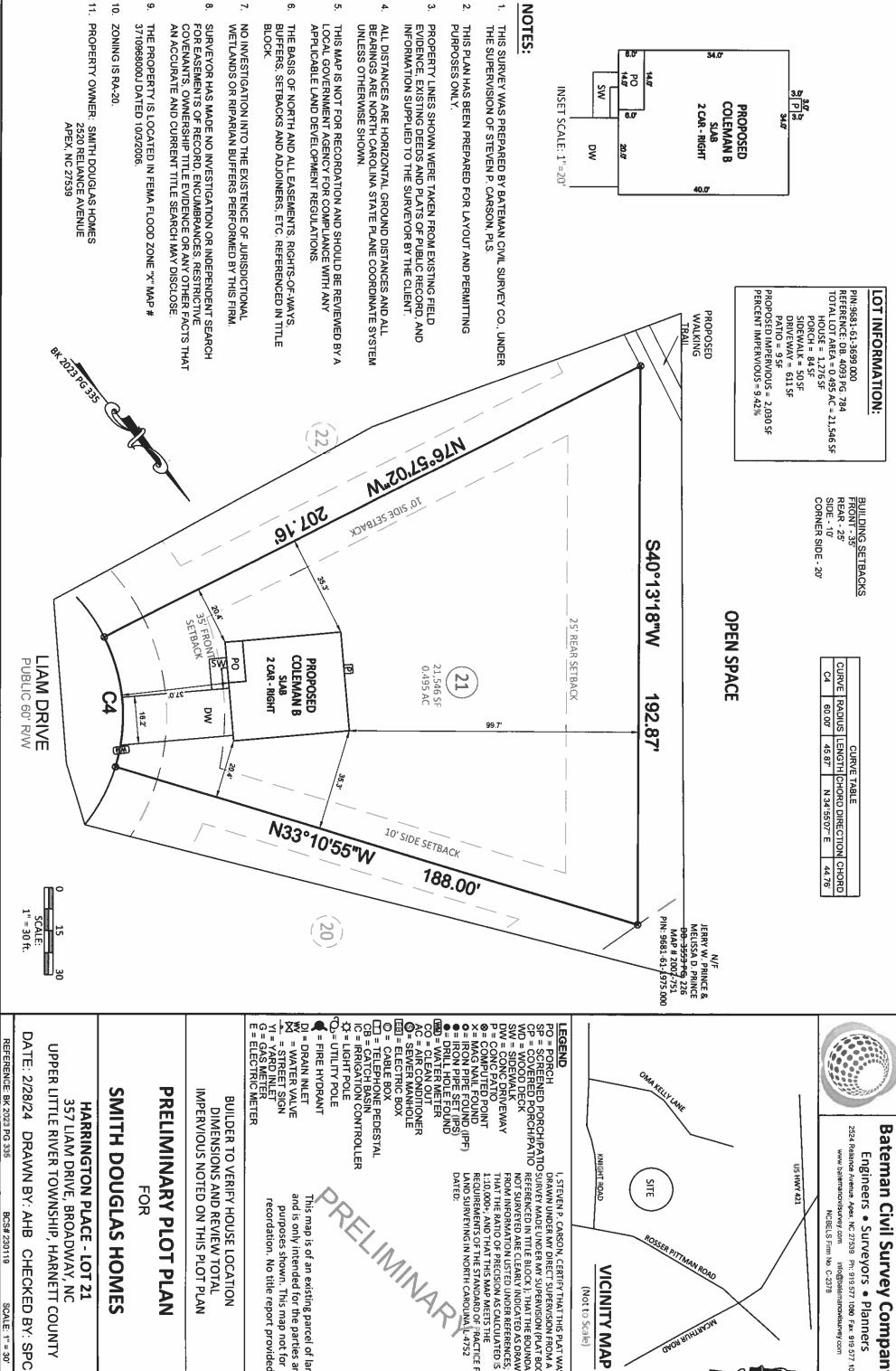
TYPE OF WASTEWATER: Sewage

P R O F I L LANDSCAPE		HORIZON	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
POSITION/ SLOPE %		DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear	0-16	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.4
1	Slope/3%	10-36	SBK/SCL	FI/SEXP/SS					
		0-18	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.4
2	Slope/3%	32-36	SBK/SCL	FI/SEXP/SS					
L	Linear	0-20	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.4
3	Slope/3%			FI/SEXP/SS	1 1/2 1	1 4/2 1			1 3/0.4
		0-16	GR/SL	FR/SEXP/NS	N/A	30"	N/A	N/A	PS/0.4
4		16-32		FI/SEXP/SS				a a	

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Available Space (.1945)	>5,000 ft <sup>2</sup>	>5,000 ft²	SITE CLASSIFICATION (.1948): PS
System Type(s)	Type III (b)	Type III (b)	EVALUATED BY:A. Adams OTHER(S) PRESENT:
Site LTAR	0.35	0.35	

COMMENTS:

Updated February 2014



# **Bateman Civil Survey Company**

2524 Reliance Avenue, Apex, NC 27539 Ph: 919.577.1080 Fax: 919.577.1081 www.batemancivilsurvey.com Engineers • Surveyors • Planners info@batemanovilsurvey.com

NCBELS Firm No. C-2378

US HWY 421

### = SCREENED PORCH/PATIO SURVEY MADE UNDER MY SUPERVISION (PLAT BOOK E COVERED PORCH/PATIO REFERENCED IN TITLE BLOCK); THAT THE BOUNDARIES IN THE BOUNDARIES OF WOOD DECK NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN INFORMATION LISTED UNDER REFERENCES; FROM INFORMATION LISTED UNDER REFERENCES; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARD OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA L-4752 DATED. PELMINAP. and is only intended for the parties and This map is of an existing parcel of land recordation. No title report provided. purposes shown. This map not for

BCS# 230119

SCALE: 1" = 30"

KNIGHT ROAD

**VICINITY MAP** (Not to Scale)

3TIS

ROSSER PITTMAN ROAD

I, STEVEN P. CARSON, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY DIRECT SUPERVISION FROM A