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

alexadams@bcsoil.com

June 12, 2023 Project #479

"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)"

"This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5)."

RE: 376 Castle Pone Way – Fuquay-Varina. NC (Harnett County) -Lot #45 – Prince Place Subdivision for Davidson 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 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, ASC is providing the attached 5-bedroom septic design (480 gallons/day with a flow reduction.

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





		County	:	
IMPROVEMENT	PERMIT FOR G.S. 130A-335(a2)/SL2022-11		
PIN/Lot Identifier:				
Issued To:				
Property Location:				
Subdivision:	Lot #:	Block:	Section:	
LSS Report Provided: Yes No No				
If yes, name and license number of LSS:				
New Repair Expansion	System Relocation			
Proposed Structure:				_
Proposed Wastewater System Type:	(Initial)		(Rep	air)
Fill System: Yes No If yes, specify: New Exis	sting (when adding more tha	an 6 inches of fill to syst	em area please provide a fill pla	n)
Proposed Design Daily Flow: GPD Pr	roposed LTAR (Initial):	Proposed LTA	R (Repair):	
Design Wastewater Strength: domestic	high strength	industrial process		
Number of bedrooms: Number of Occupants:	Other:			
Pump Required: Yes No May be required	based upon final location an	d elevations of facilities	5	
Artificial Drainage Required: Yes No If yes, please sp	pecify details:			
Type of Water Supply: Private well Public well	Municipal Supply Sprir	ng 🗌 Other:		
Drainfield location meets requirements of Rule .1945: Yes	No 🗌			
Drainfield location meets requirements of Rule .1950: Yes	No 🗌			
Permit valid for: Five years [site plan submitted pursuant	to GS 130A-334(13a)] 🔲 N	lo expiration [plat subm	nitted pursuant to GS 130A-334(7a)]
Permit conditions:				

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

See attached site sketch

_____ Date: _____

Licensed Soil Scientist Print Name: _

Licensed Soil Scientist Signature: ____

Xlex Xdame

	This Section for Local He	alth Department L	Jse Only	
Ir	itial submittal received:		by	
Pe	rmit Number:			
G.S. 130A-335(a4) states the following submitted pursuant to subsection (a3) department shall issue the improveme	of the section within 10 bus	-		· · · · · · · · · · · · · · · · · · ·
In accordance with G.S. 130A-335(a3)	the improvement permit ap	plication is:		
☐ Incomplete (If box is checked, info	ormation in this section is re	quired.)		
The following items are missing:				
Copies of this were sent to the LSS and	the Owner on			
	Date			
State Authorized Agent:			Date:	
☐ Denied (See attached report.)				
Copies of this were sent to the LSS and	the Owner on			
State Authorized Agent:			Date:	
☐ Complete				
State Authorized Agent:			Date of Issuance: _	
This Improvement Permit is issued put attached here. The issuance of this permit holder is responsible for check revocation if the site plan, plat, or the inaccurate or misleading. The Improvisubject to compliance with the provisubject to compliance with the provisubject. The location and identification responsibility of the owner. The Department, the Department's a any liabilities, duties, and responsibility evaluations, submittals, or actions from	ermit by the Health Departicing with appropriate gover intended use changes, or ivement Permit shall not be sions of the Laws and Rules on of all property lines, ease outlier with the location of the Laws and the location in the location	ment in no way guning bodies in me f information sub- affected by a char for Sewage Treatr ments, water line acal health depart in common law fro	parantees the issuance eting their requiremen mitted in the application of the application of the ment and Disposal and as, and other appropriation of the ments shall be dischargom any claim arising out	of other permits. The its. This site is subject to on was falsified, e site. This permit is to conditions of this te utilities shall be the ged and released from ut of or attributed to
Improvement Permit Expiration Date	:			

See attached site sketch

County: _____

County:			

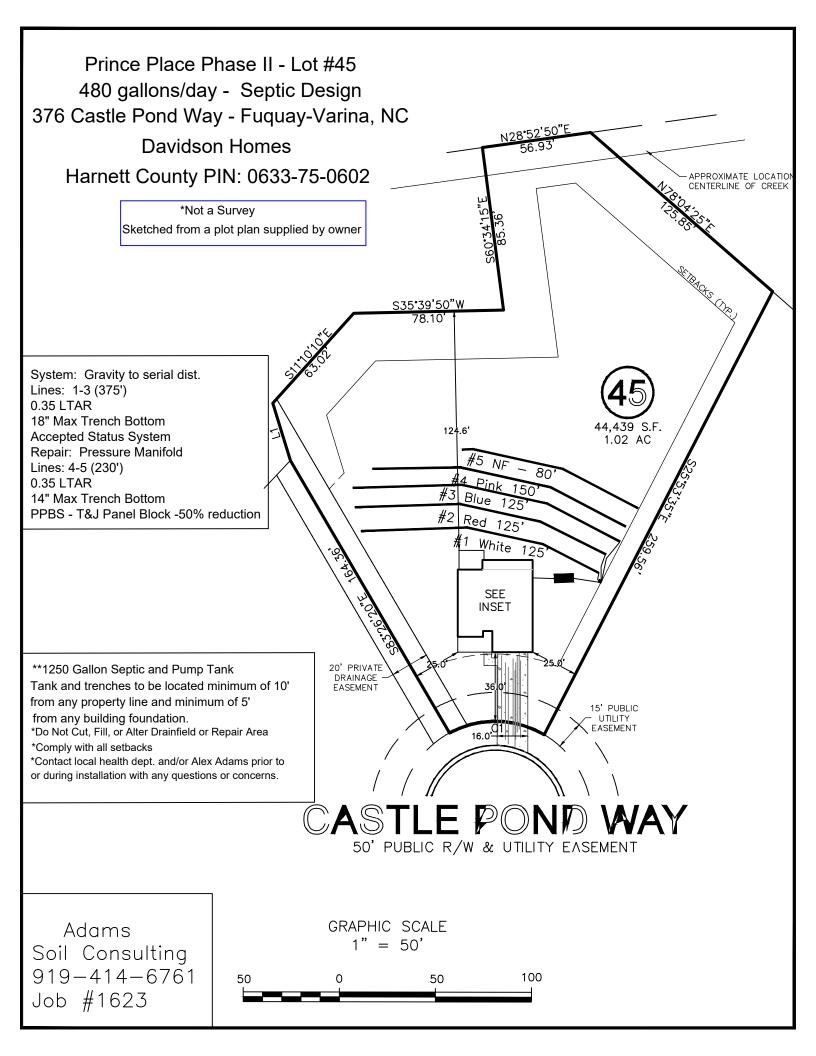
CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

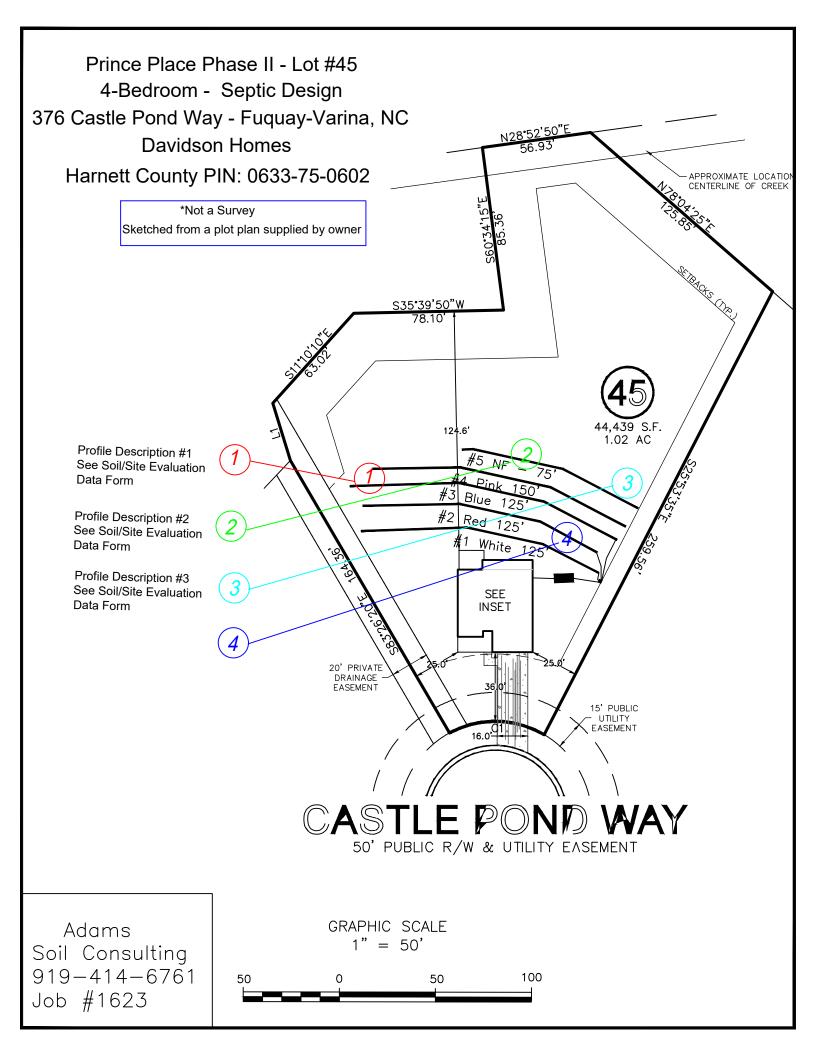
PIN/Lot Identifier:							
Issued To:							
Property Location:							
AOWE/PE Plans/Evaluation	ns Provided: Yes 🔲 No 🔲 I	f yes, name and license number of	AOWE/PE:				
Facility Type:							
☐ New ☐ Ex	pansion Repair	System Relocation					
Basement?	s 🔲 No	Basement Fixtures?	□ No				
Type of Wastewater Syste	em**	(Initial)		(Repair)			
Design Daily Flow:	GPD Wast	ewater Strength: domestic	high strength industrial process				
Session Law 2014-120 Sec	tion 53, Engineering Design Uti	lizing Low-flow Fixtures and Low-flo	ow Technologies?				
Installation Requirement	s/Conditions						
Septic Tank Size:	gallons Total Trench/Bed	Length:feet Trench/B	Bed Spacing: feet on center				
Drainfield square footage	: Trench/	Bed Width: inches LTA	AR: gpd/ft²				
Soil Cover: inches	Slope Adjusted Maximum Tr	rench/Bed Depth: ir	nches				
Aggregate Depth:	inches above pipe	_inches below pipeinch	nes total				
Pump Tank Size (if applica	ble): gallons	Requires more than 1 pump?	Yes No				
Pump Requirements:	ft. TDH vs GPM	Grease Trap Size (if applicable): _	gallons				
Distribution Method:	Serial D-Box or Parallel	Pressure Manifold(s) LP	P Other:				
Artificial Drainage Required: Yes No If yes, please specify details:							
Legal Agreements (If the	answer is "Yes" to any type of le	egal agreements, please attach a co	opy of the agreement.)				
Multi-party Agreement Re	equired [.1937(h)]: Yes] No					
Easement, Right-of-Way,	or Encroachment Agreement Re	equired [.1938(j)]: Yes No					
Declaration of Restrictive	Covenants: Yes No						
White could be be							
<u>**If applicable:</u> I understand the system type	specified is different from the type	e specified on the application. I accept	t the specifications of this permit.				
Owner/Legal Representative	Print Name: Celinda Howell	DAVIDSON HOMES RALEIGH DIVISION PERMITTING COORDINATOR					
	Signature: Celuida	Thought Of	Date:06/14/23				
			Date.	I			
Pre-Construction Confere	. – –	_					
Conditions:							
The construction and insta	allation requirements of Rules .		1957, .1958, and .1959 are incorporated by ref	erence			
into this permit and shall	be met. Systems shall be install	led in accordance with the attached	d system layout.				
AOWE/PE Print Name:	Alex Adams						
AOWE/PE Signature:	Ylex Hdamo		Date:				
Th	is AOWE/PE submittal is pursu	ant to and meets the requirement	ts of G.S. 130A-335(a2) and (a5).				

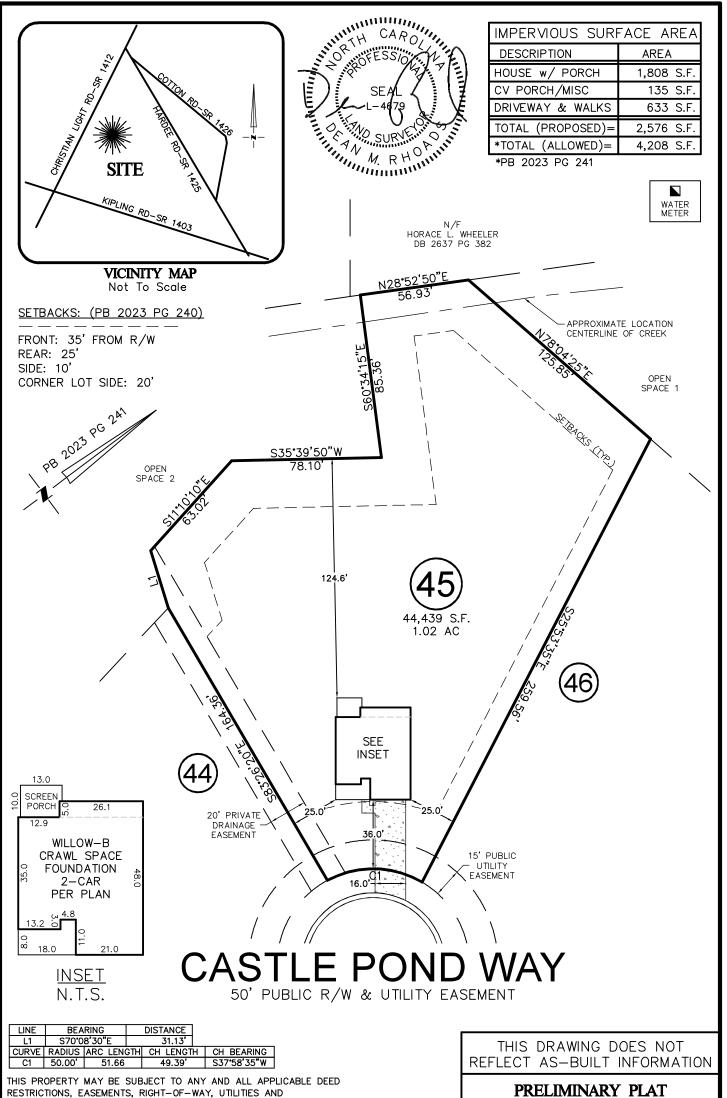
See attached site sketch

•	Local Health Depai	-	
Initial submittal receiv	/ed: Date	by Initials	
Permit Number:			
G.S. 130A-335(a6) states the following: 'If a local health submitted pursuant to subsection (a5) of the section with department shall issue the construction authorization.'			
In accordance with G.S. 130A-335(a5) the construction a	uthorization applica	ation is:	
☐ Incomplete (If box is checked, information in this sec	ction is required.)		
The following items are missing:			
Copies of this were sent to the AOWE/PE and the Owner	· on		
	Date		
State Authorized Agent:		Da	ate:
☐ Denied (See attached report.)			
Copies of this were sent to the AOWE/PE and the Owner	ron		
copies of this were sent to the Aowey's E and the owner	Date		
State Authorized Agent:		Da	ate:
Complete			
State Authorized Agent:		Date of	Issuance:
This Construction Authorization is issued pursuant to G evaluations attached here. This Construction Authoriza changes, or if information submitted in the application shall not be affected by a change in ownership of the si provisions of the Laws and Rules for Sewage Treatment identification of all property lines, easements, water lir Final landscaping shall be constructed to divert water a	tion is subject to re was falsified, inacci te. This Construction t and Disposal and t nes, and other appro	vocation if the site plar urate or misleading. Th on Authorization is subj to the conditions of this opriate utilities shall be	, plat, or the intended use e Construction Authorization ect to compliance with the permit. The location and
The Department, the Department's authorized agents, any liabilities, duties, and responsibilities imposed by splans, evaluations, preconstruction conference findings the General Statutes as a licensed engineer or a person Authorized On-Site Wastewater Evaluator in GS 130A-3 agents, and the local health departments shall be responsible to the conference obligations under State law or rule, including the issuare	tatute or in commo s, submittals, or acti certified pursuant 335(a2), (a5), and (a onsible and bear lial	n law from any claim an ions from a person licer to Article 5 of Chapter 9 7). The Department, the bility for their actions a	rising out of or attributed to used pursuant to Chapter 89C of 20A of the General Statutes as an e Department's authorized and evaluations and other
Construction Authorization Expiration Date:			
Se	e attached site ske	tch	

County: _____

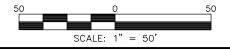






THIS PROPERTY MAY BE SUBJECT TO ANY AND ALL APPLICABLE DEED RESTRICTIONS, EASEMENTS, RIGHT-OF-WAY, UTILITIES AND RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD OR IMPLIED

NOT FOR RECORDATION, CONVEYANCES, OR SALES.



RESIDENTIAL LAND SERVICES, PLLC.

1917 Evans Road Cary, North Carolina 27513 Phone (919) 378—9316 Firm License # P-0873

HOUSE LOCATION PLOT PLAN

FOR

CASTLE POND WAY
LOT 45, PRINCE PLACE, PHASE 2

Hectors Creek Township, Harnett County, North Carolina

DAVIDSON HOMES PROPERTY OF: _

PLAT BOOK 2023 PAGE 240-241 DEED REFERENCE.

DRAWN: JWW SURVEYED: N/A CHECKED: JWW

DATE: MAY 31, 2023

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Davidson Homes

ADDRESS:

DATE EVALUATED: 6-8-23 PROPERTY SIZE: 1.02 Acres

APPLICATION DATE:

PROPOSED FACILITY: Single Family, 5-bedroom PROPOSED DESIGN FLOW (.1949): 480gpd LOCATION OF SITE: 376 Castle Pond Way, Fuquay-Varina 27526

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

TYPE OF WASTEWATER: Sewage

P R O F I L	R O F I .1940 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	0-22	GR/SL	FR/SEXP/NS	34"	34	N/A	N/A	PS/.35
	Slope/10%	22-36	SBK/CL	FI/SEXP/SS					
1									
	T .	0.45	GD /G-			0.50	3711	3-11	77/2001/0-
	Linear Slope/10%	0-16	GR/SL	FR/SEXP/NS	N/A	36"	N/A	N/A	U/PS/.35
	510pc/1070	16-36	SBK/CL	FI/SEXP/SS					
2									
		0-24	GR/SL	FR/SEXP/NS	N/A	36"	N/A	N/A	U/PS/.35
		24-36	SBK/CL	FI/SEXP/SS					
3	Linear Slope/10%								
4	Linear	0-24	GR/SL	FR/SEXP/NS	N/A	36"	N/A	N/A	U/PS/.35
	Slope/10%	24-36	SBK/CL	FI/SEXP/SS					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Available Space (.1945)	S	S	SITE CLASSIFICATION (.1948): U/PS
System Type(s)	Type III G	Type III (b)	EVALUATED BY:A. Adams OTHER(S) PRESENT:
Site LTAR	0.35	0.35	

COMMENTS:_

Updated February 2014