#### 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: 95 Castle Pond Way – Fuquay-Varina. NC (Harnett County) -Lot #36 – 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 4-bedroom 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





		Count	y:	
IMPROVEMENT P	ERMIT FOR G.S. 130A-335			
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)			(Repair)
Fill System: Yes No If yes, specify: New Existi	ng (when adding more th	an 6 inches of fill to sy	stem area please prov	ide a fill plan)
Proposed Design Daily Flow: GPD Pro	posed LTAR (Initial):	Proposed LT	AR (Repair):	
Design Wastewater Strength:  domestic	high strength	industrial process		
Number of bedrooms: Number of Occupants:	Other:			
Pump Required: Yes No May be required by	ased upon final location a	nd elevations of faciliti	es	
Artificial Drainage Required: Yes No If yes, please spe	cify details:			
Type of Water Supply: Private well Public well N	Aunicipal Supply 🔲 Spri	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)]	No expiration [plat sub	mitted pursuant to GS	3 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:

	This Section for Local He	alth Department	: Use Only	
In	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	rmation in this section is re	quired.)		
The following items are missing:				
Copies of this were sent to the LSS and				
	Date			
State Authorized Agent:			Date:	
☐ Denied (See attached report.)				
Copies of this were sent to the LSS and	I the Owner on			
State Authorized Agent:			Date:	
Complete				
State Authorized Agent:			Date of Issuance:	
This Improvement Permit is issued purattached 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 an any liabilities, duties, and responsibility evaluations, submittals, or actions from	ermit by the Health Depart sing with appropriate gover e intended use changes, or rement Permit shall not be ions of the Laws and Rules on of all property lines, ease atthorized agents, and the le ties imposed by statute or	ment in no way grining bodies in mif information su affected by a chafor Sewage Treatements, water line	guarantees the issuance of oth neeting their requirements. The bmitted in the application was ange in ownership of the site. Itment and Disposal and to connes, and other appropriate util ertments shall be discharged ar from any claim arising out of o	ner permits. The sits site is subject to sefalsified, This permit is notitions of this ities shall be the aid released from a ttributed to
Improvement Permit Expiration Date:	·			

\*See attached site sketch\*

County: \_\_\_\_\_

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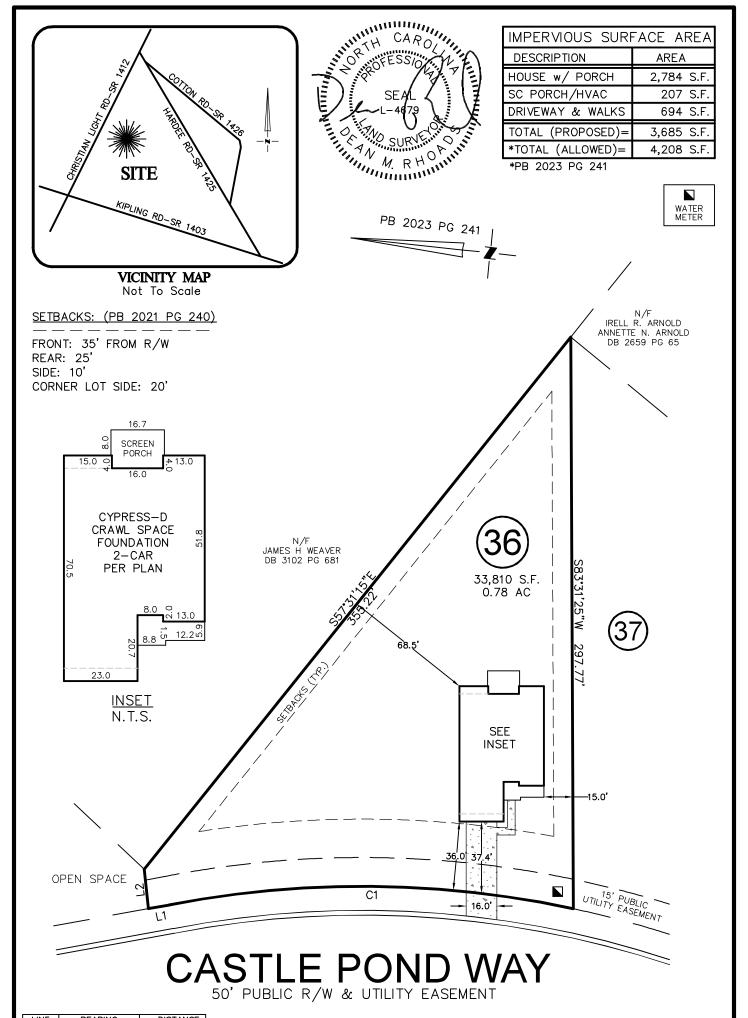
#### CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 0633-86-2107								
Issued To: Davidson Homes								
Property Location: 95 Castle Pond Way								
AOWE/PE Plans/Evaluations Provided: Yes 🗸 No 🗌 If yes, name and license number of AOWE/PE: Alex Adams - AOWE#10021E								
Facility Type: SFH								
✓ New								
Basement?								
Type of Wastewater System** Type III (g) (Initial) Type III (b) (Repair)								
Design Daily 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 📝 No								
Installation Requirements/Conditions								
Septic Tank Size: $1000$ gallons Total Trench/Bed Length: $350$ feet Trench/Bed Spacing: $9$ feet on center								
Drainfield square footage: 1050 Trench/Bed Width: 36 Inches LTAR: 0.35 gpd/ft²								
Soil Cover: 6 inches Slope Adjusted Maximum Trench/Bed Depth: 21 inches								
Aggregate Depth:inches above pipeinches below pipeinches total								
Pump Tank Size (if applicable): N/A 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) LPP Other:  Artificial Drainage Required: Yes No V If yes, please specify details:								
								<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)]:
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: Yes V No								
Declaration of Restrictive Covenants: Yes V No								
**If applicable:								
I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.  Colinda Howall DAVIDSON HOMES RALEIGH DIVISION								
Owner/Legal Representative Print Name:								
Owner/Legal Representative Signature: Cellenda Housell Date: 06/13/23								
Pre-Construction Conference Required: Yes No 🗸								
Conditions:								
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								
AOWE/PE Signature: Date: 6-5-23								
This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).								

\*See attached site sketch\*

	•	•	tment Use Only	
Initial submiti	tal received:	 Date	by Initials	
Permit Numbe	r:			
				_
G.S. 130A-335(a6) states the following: 'If a loca submitted pursuant to subsection (a5) of the sect department shall issue the construction authorized	tion within 10	-		<del>-</del>
In accordance with G.S. 130A-335(a5) the constru	uction authori	zation applicat	tion is:	
☐ Incomplete (If box is checked, information in	this section is	required.)		
The following items are missing:				
Copies of this were sent to the AOWE/PE and the	e Owner on			
		Date		
State Authorized Agent:				Date:
☐ Denied (See attached report.)				
Copies of this were sent to the AOWE/PE and the	- Owner on			
copies of this were sent to the Aowey'r E and the		Date		
State Authorized Agent:				Date:
Complete				
State Authorized Agent:			Date	of Issuance:
This Construction Authorization is issued pursual evaluations attached here. This Construction Authorization submitted in the application shall not be affected by a change in ownership of provisions of the Laws and Rules for Sewage Treidentification of all property lines, easements, where the provision is in the constructed to divert the constructed the cons	ithorization is lication was fa of the site. Th eatment and E vater lines, an	subject to revalsified, inacculis Construction Disposal and to	rocation if the site prate or misleading. In Authorization is so the conditions of the priate utilities shall	plan, plat, or the intended use The Construction Authorization ubject to compliance with the this permit. The location and
The Department, the Department's authorized any liabilities, duties, and responsibilities imposplans, evaluations, preconstruction conference the General Statutes as a licensed engineer or a Authorized On-Site Wastewater Evaluator in GS agents, and the local health departments shall be obligations under State law or rule, including the	ed by statute findings, subn person certifi 130A-335(a2 pe responsible	or in common nittals, or action ied pursuant to ), (a5), and (a7 e and bear liab	n law from any clain ons from a person li o Article 5 of Chapt ). The Department, ility for their action	n arising out of or attributed to icensed pursuant to Chapter 89C of er 90A of the General Statutes as an the Department's authorized as and evaluations and other
Construction Authorization Expiration Date:			_	
	*See atta	ched site sketo	ch*	

County: \_\_\_\_\_



			$\overline{}$
L2	N77°42'00"E	20.68'	
L1	N16°30'45"W	10.93'	
LINE	BEARING	DISTANCE	

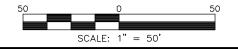
 CURVE
 RADIUS
 ARC
 LENGTH
 CH
 LENGTH
 CH
 BEARING

 C1
 525.00'
 211.93'
 210.49'
 N05'41'42"W

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

THIS DRAWING DOES NOT REFLECT AS-BUILT INFORMATION

PRELIMINARY PLAT NOT FOR RECORDATION, CONVEYANCES, OR SALES.



# **RESIDENTIA** 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 36, PRINCE PLACE, PHASE 1

Hectors Creek Township, Harnett County, North Carolina

DAVIDSON HOMES PROPERTY OF: \_

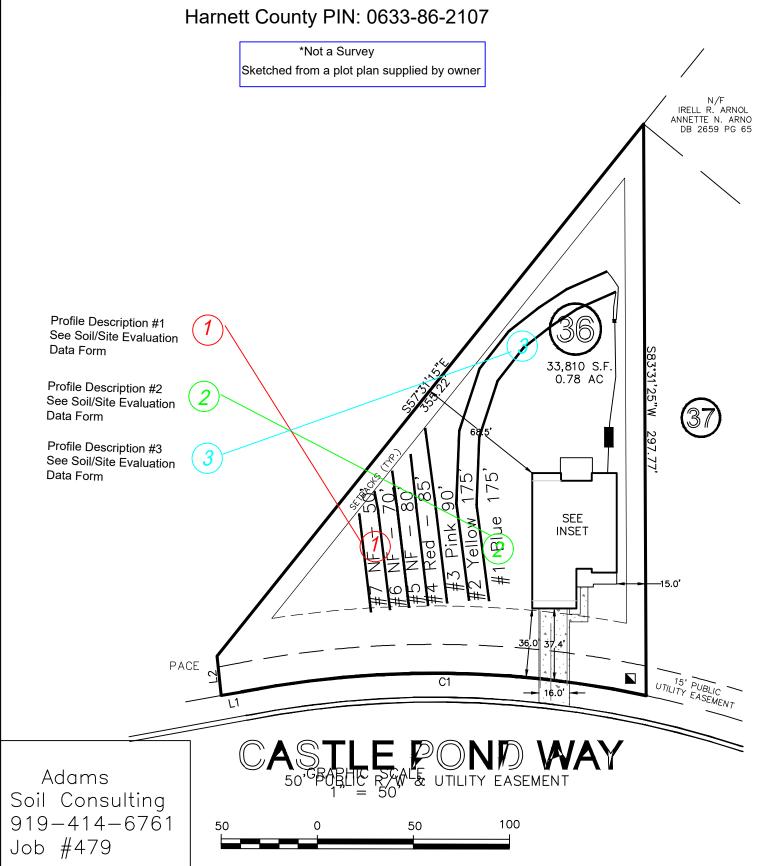
PLAT BOOK 2023 PAGE 240-241 DEED REFERENCE.

DRAWN: JWW SURVEYED: N/A CHECKED: DMR

DATE: MAY 31, 2023

Prince Place Phase II - Lot #36 4-Bedroom - Septic Design 95 Castle Pond Way - Fuquay-Varina, NC **Davidson Homes** Harnett County PIN: 0633-86-2107 \*Not a Survey Sketched from a plot plan supplied by owner IRELL R. ARNOL ANNETTE N. ARNO DB 2659 PG 65 System: Gravity to serial dist. Lines: 1-2 (350') 0.35 LTAR 20" Max Trench Bottom Accepted Status System Repair: Pressure Manifold Lines: 3-7 (360') 0.35 LTAR VER 681 18" Max Trench Bottom Accepted Status System 33,810 S.F 0.78 AC \*\*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. \*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. SEE INSET 15.0 PACE UTILITY EASEMENT Adams Soil Consulting 919-414-6761 100 Job #479

# Prince Place Phase II - Lot #36 Soil Boring Location Map 95 Castle Pond Way - Fuquay-Varina, NC Davidson Homes



# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Davidson Homes

ADDRESS: 95 Castle Pond Way

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

APPLICATION DATE: DATE EVALUATED: 6-12-23 PROPERTY SIZE: .78 Acres

LOCATION OF SITE: 95 Castle Pond Way

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring TYPE OF WASTEWATER: Sewage

P R O F I L	R O F I .1940 LANDSCAPE HORIZON		SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
#	POSITION/ DEPTH	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR	
	Linear SS	0-8	GR/SL	FR/SEXP/NS	N.O	N/A	N/A	N/A	P.S/.5
	4%	8-14	SBK/CL	FI/SEXP/SS					
1		14-48	SBK/CL	FI/SEXP/SS					
	Linear SS	0-8	GR/SL	FR/SEXP/NS	N.O	36"	N/A	N/A	P.S/.35
	4%	8-20	SBK/C	FI/SEXP/SS					
2		14-48	SBK/CL	FI/SEXP/SS					
	Linear SS 4%		+	FR/SEXP/NS	N.O	36"	N/A	N/A	P.S/.35
	H 70			FI/SEXP/SS					
3			SBK/CL	FI/SEXP/SS					
		24-36	Saprolite						
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Available Space (.1945)	S	S	SITE CLASSIFICATION (.1948) /P.S
System Type(s)	Type III B	Type III B	EVALUATED BY:A. Adams OTHER(S) PRESENT:
Site LTAR	0.5	0.35	

COMMENTS:\_

Updated February 2014