

Adams Soil Consulting, PLLC
1676 Mitchell Road
Angier, NC 27501
919-414-6761
alexadams@bcsoil.com

March 20, 2024
Project #1215

“This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-336.2

RE: Tobacco Road -Lot #151, 19 Oriental St. - Angier, NC - 3-bedroom Single Family Residence

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 septic system design for a new single-family home sized for a 360 gallon/day septic system.

The suitable soils found on the subject property were somewhat variable 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.

The initial and primary septic fields for the new home were sized based on a flow rate of 360 gallons/day and utilizing Accepted Status system for the initial and a low-profile chamber repair system. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the repair (if needed) system on contour, see attached site plan for the primary system and repair. 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 flags trench flags are missing at the time of installation, they must be remarked by Adams Soil Consulting staff. Contact Alex Adams at 919-414-6761. A preconstruction conference is required with the septic installer prior to construction activities at least 14 days in advance of construction activities. The lot previously had a single-family residence located on the property serviced by a septic system. The approximate location of the old abandoned septic system is

shown on the attached design sheet. If any portions of the old system are observed during any constructions activities, then Adams Soil Consulting should be contacted prior to further construction to revise the installation.

This report does not guarantee the future function of any waste water disposal system installed.

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

Sincerely,



Alex Adams
NC Licensed Soil Scientist #1247
AOWE Certification: 10021E

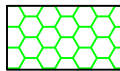
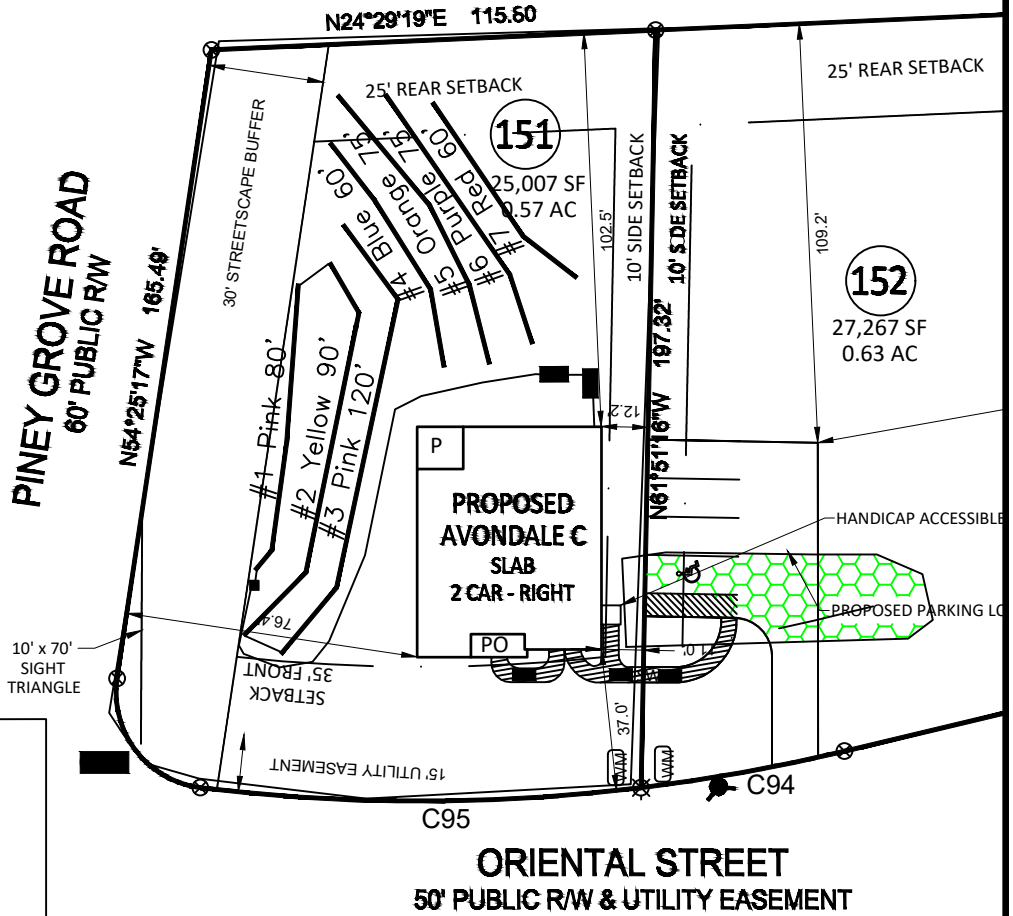


Tobacco Road - Lot 151
 3-Bedroom - 360 gallon/day Septic Design
 19 Oriental St - Angier, NC
 Smith Douglass Homes, LLC
 Harnett County PIN: 0693-47-4172

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

System: Pump to serial
 Lines: 1-3 (290')
 0.35 LTAR
 18" Max Trench Bottom
 Accepted Status System
 Repair: Pressure Manifold
 Lines: 5-7 (270')
 0.35 LTAR
 24" Max Trench Bottom
 Accepted Status System

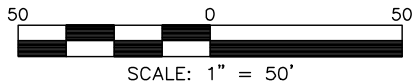
**1000 Gallon Septic and Pump Tank
 Tank and trenches to be located minimum of 10'
 from any property line and minimum of 5'
 from any building foundation.
 *Do Not Cut, Fill, or Alter Drainfield or Repair Area
 *Comply with all setbacks
 *Contact local health dept. and/or Alex Adams prior to
 or during installation with any questions or concerns.



Approximate location of abandoned septic drain field.

*Abandoned septic field located on lots 151 and 152. Exact location could not be determined.
 If any part of system is discovered during system installation then Adams Soil Consulting should be alerted.
 If any part of old drain lines are observed then new system should be solid piped through old trench area.

Adams
 Soil Consulting
 919-414-6761
 Job #1215
 3-20-24



Tobacco Road - Lot 151
 Soil Boring Locations
 19 Oriental St - Angier, NC
 Smith Douglass Homes, LLC
 Harnett County PIN: 0693-47-4172

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

Profile Description #1
 See Soil/Site Evaluation
 Data Form



Profile Description #2
 See Soil/Site Evaluation
 Data Form



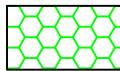
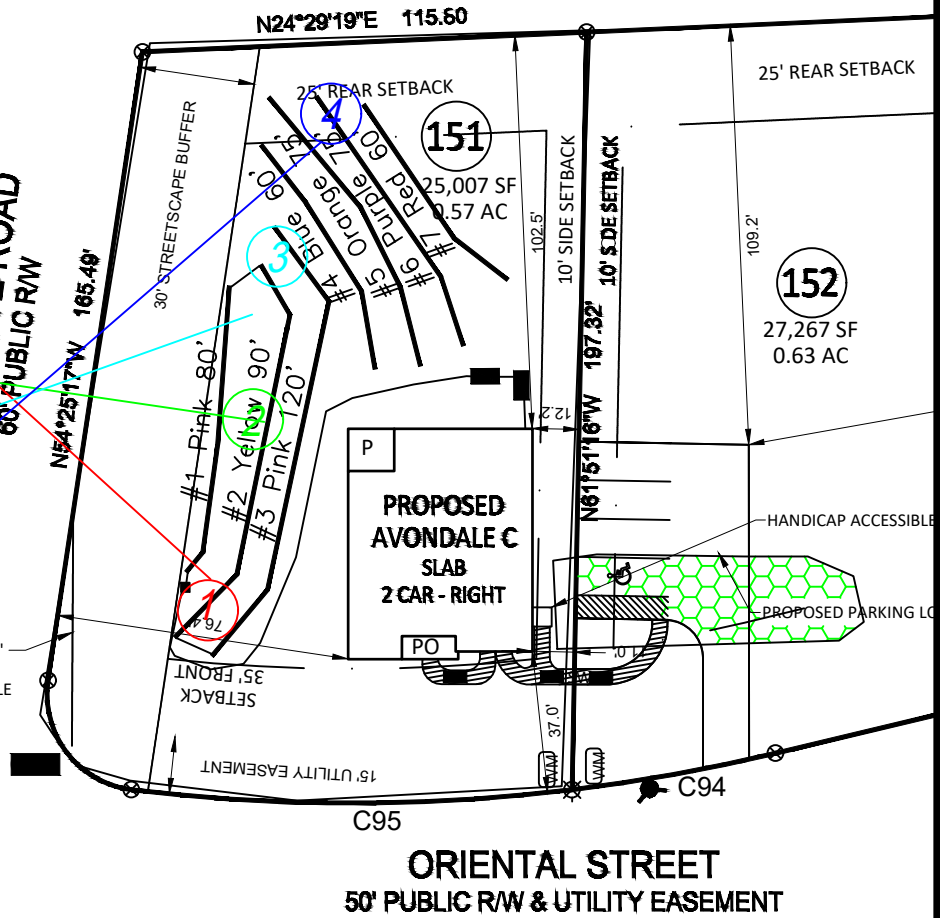
Profile Description #3
 See Soil/Site Evaluation
 Data Form



Profile Description #4
 See Soil/Site Evaluation
 Data Form



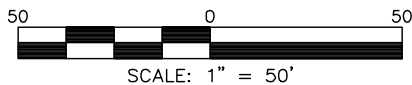
**1000 Gallon Septic and Pump Tank
 Tank and trenches to be located minimum of 10'
 from any property line and minimum of 5'
 from any building foundation.
 *Do Not Cut, Fill, or Alter Drainfield or Repair Area
 *Comply with all setbacks
 *Contact local health dept. and/or Alex Adams prior to
 or during installation with any questions or concerns.



Approximate location of abandoned septic drain field.

*Abandoned septic field located on lots 151 and 152. Exact location could not be determined.
 If any part of system is discovered during system installation then Adams Soil Consulting should be alerted.
 If any part of old drain lines are observed then new system should be solid piped through old trench area.

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SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
 (Complete all fields in full)

OWNER: Smith Douglass Homes

APPLICATION DATE:

ADDRESS: Tobacco Road – Lot 151 – 19 Oriental St. – Angier, NC

DATE EVALUATED: 3-20-24

PROPOSED FACILITY: Single Family, 5-bedroom PROPOSED DESIGN FLOW (.1949): 600gpd

PROPERTY SIZE: ~0.57 acres

LOCATION OF SITE: Tobacco Road – Lot 151 – 19 Oriental St. – Angier, NC

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

TYPE OF WASTEWATER: Sewage

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	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	Linear Slope/3%	0-20	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.4
		20-36	SBK/SCL	FI/SEXP/SS					
2	Linear Slope/3%	0-18	GR/SL	FR/SEXP/NS	34"	N/A	N/A	N/A	PS/0.4
		18	SBK/SCL	FI/SEXP/SS					
3	Linear Slope/3%	0-14	GR/SL	FR/SEXP/NS	34"	N/A	N/A	N/A	PS/0.4
		14-36	SBK/CL	FI/SEXP/SS					
4	Linear Slope/3%	0-14	GR/SL	FR/SEXP/NS	28"	N/A	N/A	N/A	PS/0.35
		14-36	SBK/CL	FI/SEXP/SS					

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

COMMENTS:

LOT INFORMATION 151:

PIN: 0693-47-4172.000
 REFERENCE: DB: 4207 PGS. 1567-1672
 TOTAL LOT AREA = 0.57 AC = 25,007 SF
 MAX. IMPERVIOUS = 5,500 SF
 HOUSE = 2,624 SF
 PORCH = 85 SF
 SIDEWALKS = 145 SF
 PATIO = 132 SF
 PROPOSED IMPERVIOUS = 2,986 SF
 PERCENT IMPERVIOUS = 14.42%

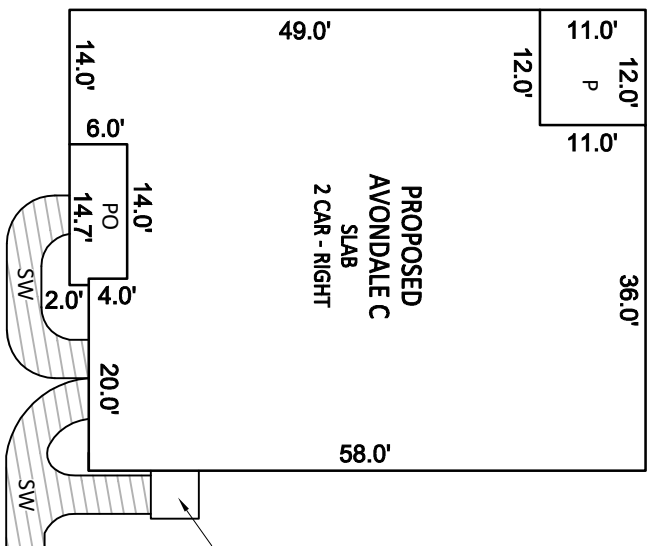
LOT INFORMATION 152:

PIN: 0693-46-4929.000
 REFERENCE: DB: 4207 PGS. 1567-1672
 TOTAL LOT AREA = 0.63 AC = 27,267 SF
 MAX. IMPERVIOUS = 5,500 SF
 PARKING LOT = 2,524 SF
 SIDEWALK = 124 SF
 PROPOSED IMPERVIOUS = 2,648 SF
 PERCENT IMPERVIOUS = 9.71%

REVISION : CHANGE PARKING PER SKETCH FROM SDH, AHB 12/28/23
 REVISION : REMOVE DRIVEWAY FROM 151 AHB 2/2/24

BUILDING SETBACKS

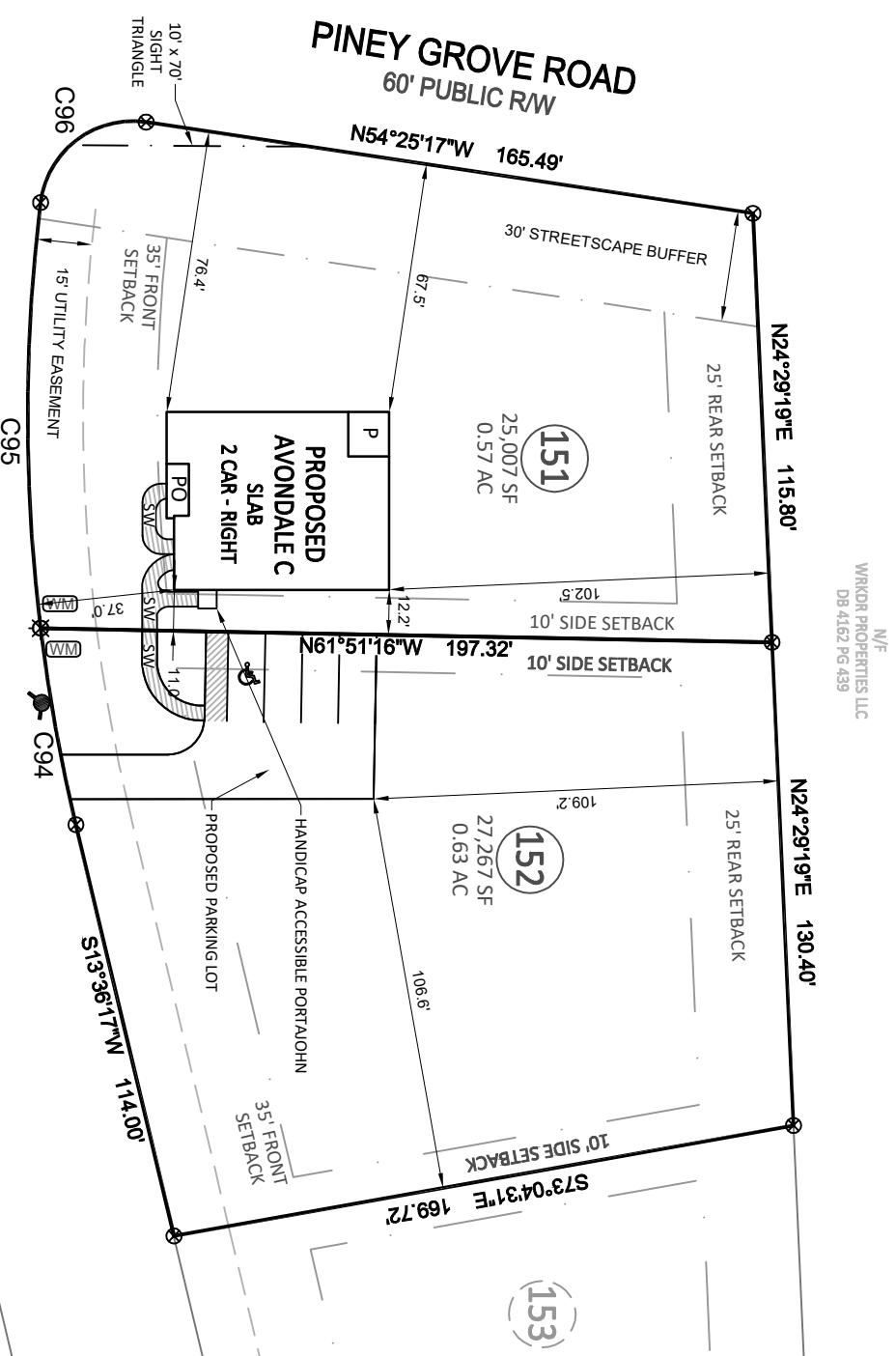
FRONT - 35'
 REAR - 25'
 SIDE - 10'
 SIDE CORNER - 20'



INSET SCALE: 1"=20'

NOTES:

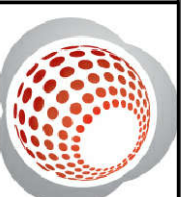
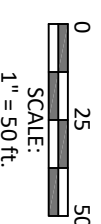
1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
4. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
5. THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
6. THE BASIS OF NORTH AND ALL EASEMENTS, RIGHTS-OF-WAYS, BUFFERS, SETBACKS AND ADJOINERS, ETC., REFERENCED IN TITLE BLOCK.
7. NO INVESTIGATION INTO THE EXISTENCE OF JURISDICTIONAL WETLANDS OR RIPARIAN BUFFERS PERFORMED BY THIS FIRM.
8. SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
9. THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA. IT IS LOCATED IN ZONE "X" PER F.E.M.A. MAP NUMBER 3720068200J DATED 10/03/2006.
10. ZONING: RA-30
11. PROPERTY OWNER: SMITH DOUGLAS HOMES
2520 RELIANCE AVENUE
APEX, NC 27539



**ORIENTAL STREET
50' PUBLIC RW & UTILITY EASEMENT**

CURVE TABLE

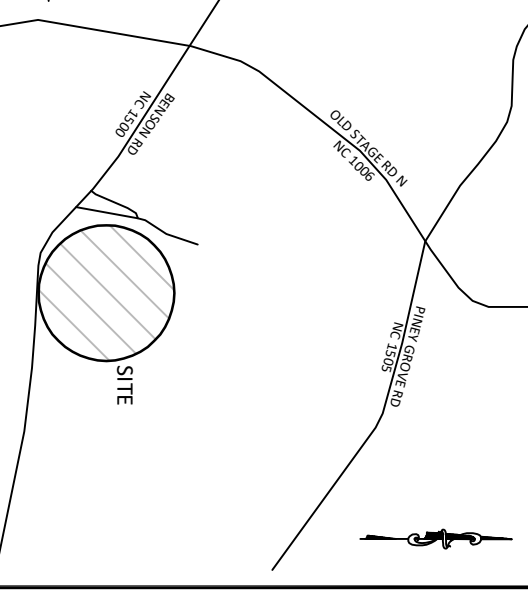
CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C94	475.00'	53.88'	N16°51'15"E	53.85'
C95	475.00'	115.02'	N27°02'27"E	114.74'
C96	25.00'	39.91'	N79°42'33"E	35.80'



Bateman Civil Survey Company

Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, NC 27539 Pki: 919.577.1080 Fax: 919.577.1081
 www.batemancivilsurvey.com info@batemancivilsurvey.com
 NCBELS Firm No. C-2378

VICINITY MAP
(Not to Scale)



LEGEND

- PO = PORCH
- CP = COVERED PORCH
- SP = SCREENED PORCH
- SW = SIDEWALK
- DW = CONC DRIVEWAY
- SP = SCREENED PORCH
- P = CONCRETE PATIO
- ⊗ = COMPUTED POINT
- = IRON PIPE FOUND (IPF)
- = IRON PIPE SET (IPS)
- ⦿ = DRILL HOLE FOUND
- Ⓜ = WATER METER
- Ⓜ = CLEAN OUT
- CO = CLEAN OUT
- AC = AIR CONDITIONER PAD
- Ⓜ = CABLE BOX
- Ⓜ = SEWER MANHOLE
- Ⓜ = TELEPHONE PEDESTAL
- CB = CATCH BASIN
- ⚡ = LIGHT POLE
- Ⓜ = HAND HOLE
- Ⓜ = ELECTRIC BOX
- Ⓜ = FIRE HYDRANT
- YI = YARD INLET
- G = GAS METER
- E = ELECTRIC METER
- LW = LEAD WALK

This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recordation. No title report provided.

PRELIMINARY

BUILDER TO VERIFY HOUSE LOCATION DIMENSIONS AND REVIEW TOTAL IMPERVIOUS NOTED ON THIS PLOT PLAN

**PRELIMINARY PLOT PLAN
FOR
SMITH DOUGLAS HOMES**

TOBACCO ROAD - PHASE 1 & 3 - LOT 151-152
19, 51 ORIENTAL STREET, ANGLIER, NC
BLACK RIVER TOWNSHIP, HARNETT COUNTY

DATE: 12/20/23 DRAWN BY: AHB CHECKED BY: SPC

REFERENCE: BM 2023 PGS. 563-568

BCS# 230801

SCALE: 1" = 50'



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/17/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Wade Associates, LLC 250 Pollock St. New Bern NC 28560	CONTACT NAME: Angela Sensenig PHONE (A/C, No, Ext): (252) 631-5269 E-MAIL ADDRESS: asensenig@wadeict.com	FAX (A/C, No): (252) 649-2443
	INSURER(S) AFFORDING COVERAGE	
INSURED Alex Adams, DBA: Adams Soil Consulting 1676 Mitchell Rd. Angier NC 27501	INSURER A: Markel Insurance Company	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES

CERTIFICATE NUMBER: 24-25

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE	\$
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$
							MED EXP (Any one person)	\$
							PERSONAL & ADV INJURY	\$
							GENERAL AGGREGATE	\$
							PRODUCTS - COMP/OP AGG	\$
								\$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident)	\$
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
	UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE	\$
							AGGREGATE	\$
								\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A				PER STATUTE	OTHER
							E.L. EACH ACCIDENT	\$
							E.L. DISEASE - EA EMPLOYEE	\$
							E.L. DISEASE - POLICY LIMIT	\$
A	Errors & Omissions			MEO1118-06	1/31/2024	1/31/2025	General Aggregate	\$1,000,000
							Each Occurrence	\$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

FOR INFORMATIONAL PURPOSES ONLY

 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

N Whitsett/RACHEL

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ACORD 25 (2014/01)

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INS025 (201401)