



North Carolina Onsite Wastewater Contractor Inspector Certification Board
Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems
Notice of Intent (NOI) to Construct

[x] New [] Expansion [] Repair [] Relocation [] Relocation of Repair Area

Owner or Legal Representative Information: Teri Treffzs
Name: Drees Homes Company
Mailing address: 211 Grandview Drive - Suite 102 City: Ft. Mitchell State: KY Zip: 41017
Phone: 919-256-5478 Email: ttreffzs@dreeshomes.com

Authorized Onsite Wastewater Evaluator Information:
Name: Alex Adams Certification #: AOWE# 10021E
Mailing address: 1676 Mitchell Road City: Angier State: NC Zip: 27501
Phone: 919-414-6761 Email: alexadams@bcsoil.com

Site Location Information:
Site address: Lot #58 (Tobacco Road) 39 Grading Stick Ct. - Angier, NC 27501
Tax parcel identification number or subdivision lot, block number of property: PIN# 0693-24-8865
County: Harnett

System Information: Accepted Status
Wastewater System Type: Type III (b)
Daily Design Flow: 480 gallons/day
Saprolite System: [] Yes [x] No Subsurface Operator Required: [] Yes [x] No
Water Supply Type: [] Private Well [x] Public Water Supply [] Spring [] Other:

Facility Type:
[x] Residential 4 # Bedrooms 8 Maximum # of Occupants
[] Business Type of Business and Basis for Flow:
[] Public Assembly Type of Public Assembly and Basis for Flow:

Require Attachments:
[x] Plat or Siteplan
[x] Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 25th day of October 2024 by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina. This NOI shall expire on 25th day of October 2029.
Signature of Authorized Onsite Wastewater Evaluator: Alex Adams
Signature of Owner or Legal Representative: Bradley Weekley 10/25/2024 | 9:31:24 AM EDT

Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.

Local Health Department Receipt Acknowledgment:
Signature of Local Health Department Representative: Date:

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

October 24, 2024
Project #1215

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

RE: Tobacco Road -Lot #58 - 39 Grading Stick Ct. - Angier, NC - 4-bedroom Single Family Residence (PIN# 0693-24-8865)

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 480 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.

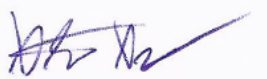
The initial and primary septic fields for the new home were sized based on a flow rate of 480 gallons/day and utilizing Accepted Status system for the initial and a PPBPS repair system. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

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.

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,

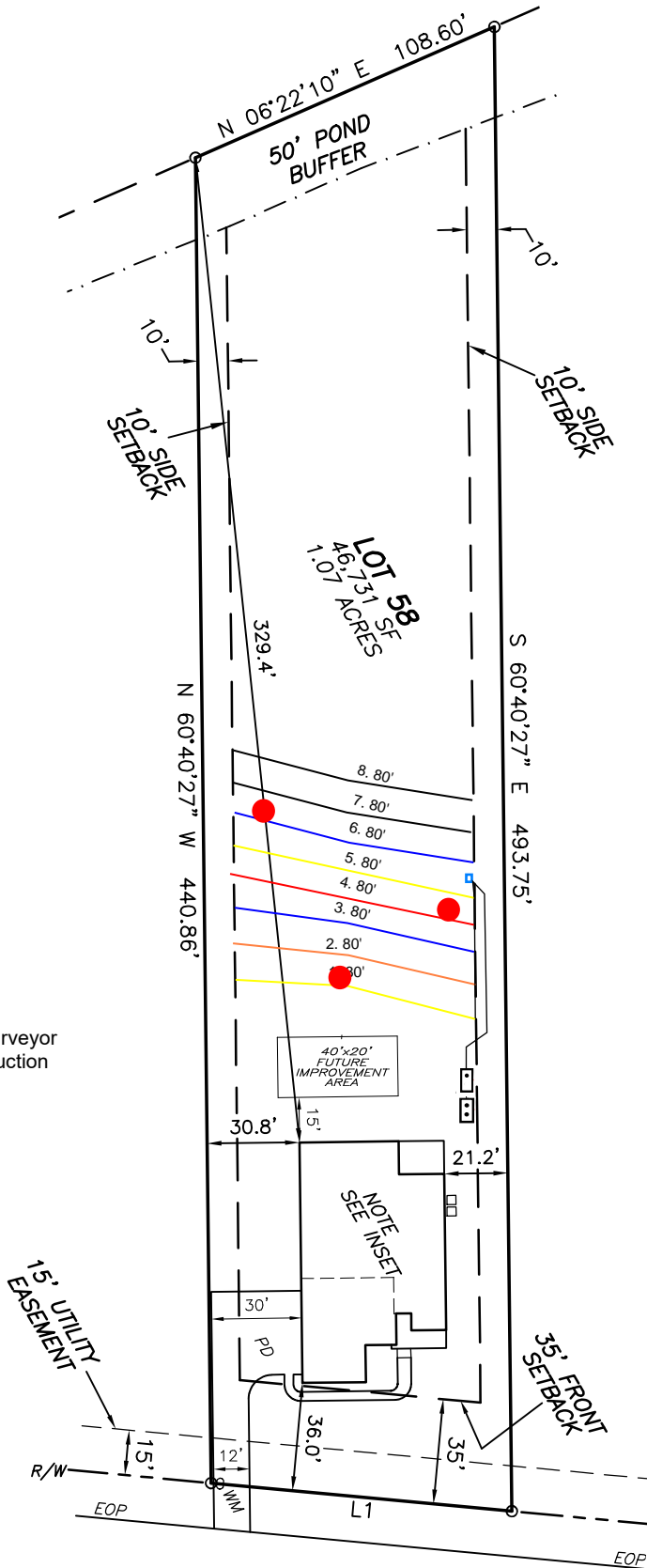


Alex Adams
NC Licensed Soil Scientist #1247
AOWE Certification: 10021E



Adams Soil Consulting, PLLC							
AOWE NOI - Design Specifications							
Name:	Drees Homes	P.I.N. #:	0693-24-8865	County	Harnett		
Address:	39 Grading Stick Ct			Subdiv:	Tobacco Road		Lot#: 58
# of BDR:	4	Daily Flow	480	gal/day	Initial L.T.A.R.:	0.3500	gal/day/sq.ft
					Repair L.T.A.R.:	0.3500	gal/day/sq.ft
Septic Tank:	1000	gals	Pump Tank	1000	gals	Sq. Foot:	1200
							Stone Depth:
Line Lengths							
line	color	rod read	Elevation	length			
1	Yellow			80	Initial		
2	Orange			80	Initial		
3	Blue			80	Initial		
4	Red			80	Initial		
5	Yellow			80	Initial		
6	Blue			80	Repair		
7	NF			80	Repair		
8	NF			80	Repair		
		total	feet =	640			
Initial Total Trench Length		400	Initial System Type:		Accepted Status Lines 1-5		
			Initial System Max Trench Depth:		22"		
Repair Total Trench Length		240	Repair System Type:		PPBPS -Lines 6-8		
			Repair System Max Trench Depth:		22"		

Tobacco Road Lot 58 4 BR Harnett County



*House footprint to be field staked by surveyor and system verified prior to any construction

**Septic area must not be altered by construction activities.

***No cuts of 2' or greater within 15' of septic area

**** Recommend protective barrier arc septic field during construction

*If plumbing is not sufficient a pump tank will be required to septic field

INITIAL:
Lines 1-5 (400')
Accepted Status
Pressure Manatee
REPAIR:
Lines 6-8 (240')
PPBPS
Pressure Manifold

GRADING STICK COURT
(50' PUBLIC R/W & UTILITY EASEMENT)

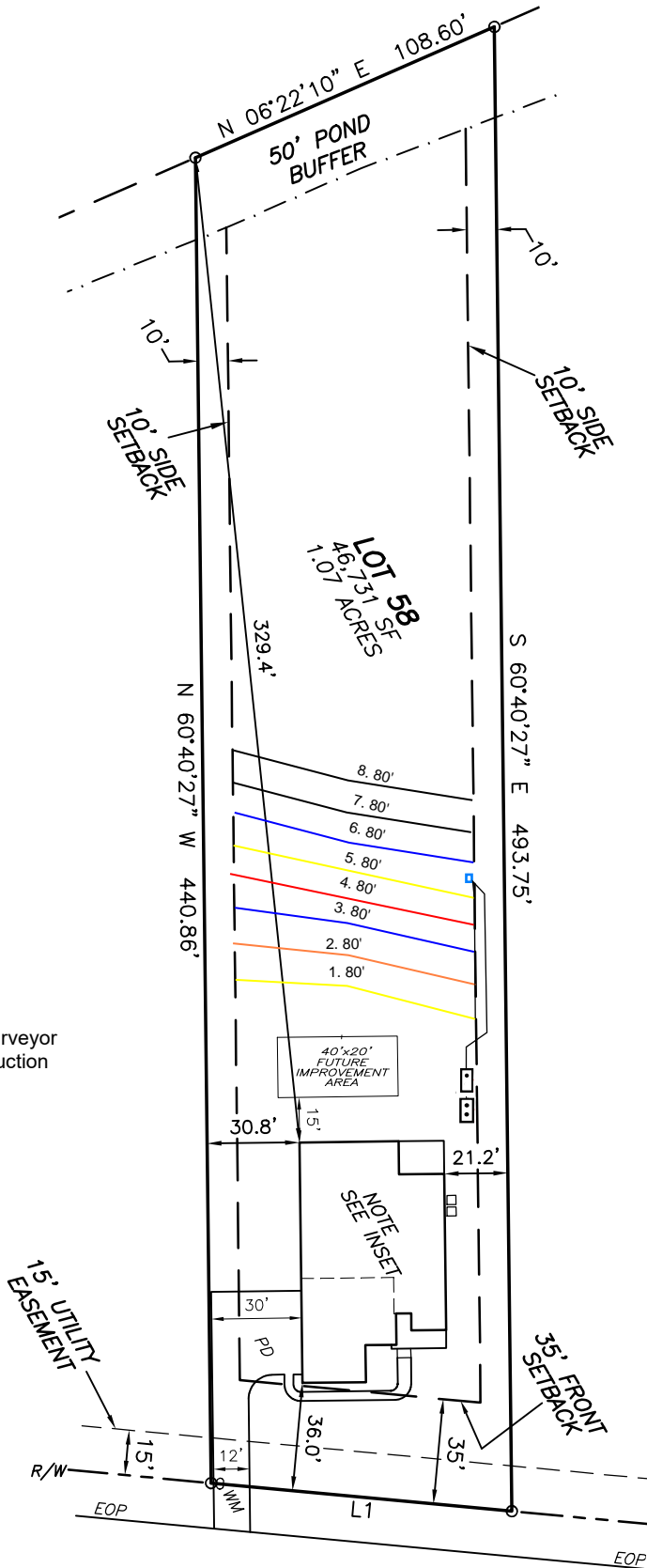
0 60 120' 180'



GRAPHIC SCALE

Adams
Soil Consulting
919-414-6761

Tobacco Road Lot 58 4 BR Harnett County



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INITIAL: 22" max trench bottoms
Lines 1-5 (400')
Accepted Status Pressure Manitee
REPAIR:
Lines 6-8 (240')
PPBPS
Pressure Manifold

GRADING STICK COURT (50' PUBLIC R/W & UTILITY EASEMENT)

0 60 120' 180'



GRAPHIC SCALE

Adams
Soil Consulting
919-414-6761

**Lot 58 Tobacco Road
PRESSURE MANIFOLD DESIGN -Initial**

Drees Homes

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.3500 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 1200 System Type: **Accepted**

Number of Taps: 5 Length of Trenches: 400 ft(See Tap Chart for Details)

Depth of Trenches: 22 in Manifold Length: 48 in

Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 120 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 5.43 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft Elevation Head: 6 ft

Total Head: 13.43 ft Pump to Deliver: 35.55 gals/min at 13.43 ft head

Dosing Volume: 182 gals,

Drawdown: 182 gals divided by 21.4 gals/in = 8.5 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

TAP CHART

Benchmark	Q	is = 100.00	set at	Pump elev.	90.00	Design Head:	2						
Pump tank elev.	line	color	rod read	Elevation	length	hole size	flow/tap	Manifold elev.	1.00	# of Panels	Change in		
								gal/day	trench area	(PPBPS)	Spacing of		
											Panels (in)		
	1	Yellow			80	1/2in SCH 40	7.11	96.00	240			0.4000	
	2	Orange			80	1/2in SCH 40	7.11	96.00	240			0.4000	
	3	Blue			80	1/2in SCH 40	7.11	96.00	240			0.4000	
	4	Red			80	1/2in SCH 40	7.11	96.00	240			0.4000	
	5	Yellow			80	1/2in SCH 40	7.11	96.00	240			0.4000	

Total Feet = 400 gal/min = 35.55
 Feet Required = 343 Velocity = 3.40

LTAR = 0.3500
 (ltar + 5%) 0.3675
 (ltar w/25% red) 0.4667
 (ltar + 5%) 0.4900

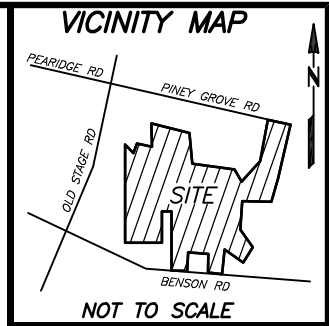
Total # of Panels (PPBPS) 70
 % of Dose Vol. 70
 Dose Volume 182
 Dose Pump Time 5.12
 Drawdown in Inches 8.5

Des. Flow 480
Pump Run= 13.50
Tank Gal/IN 21.4
Elev. Head 6

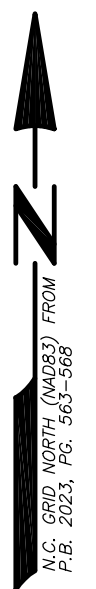
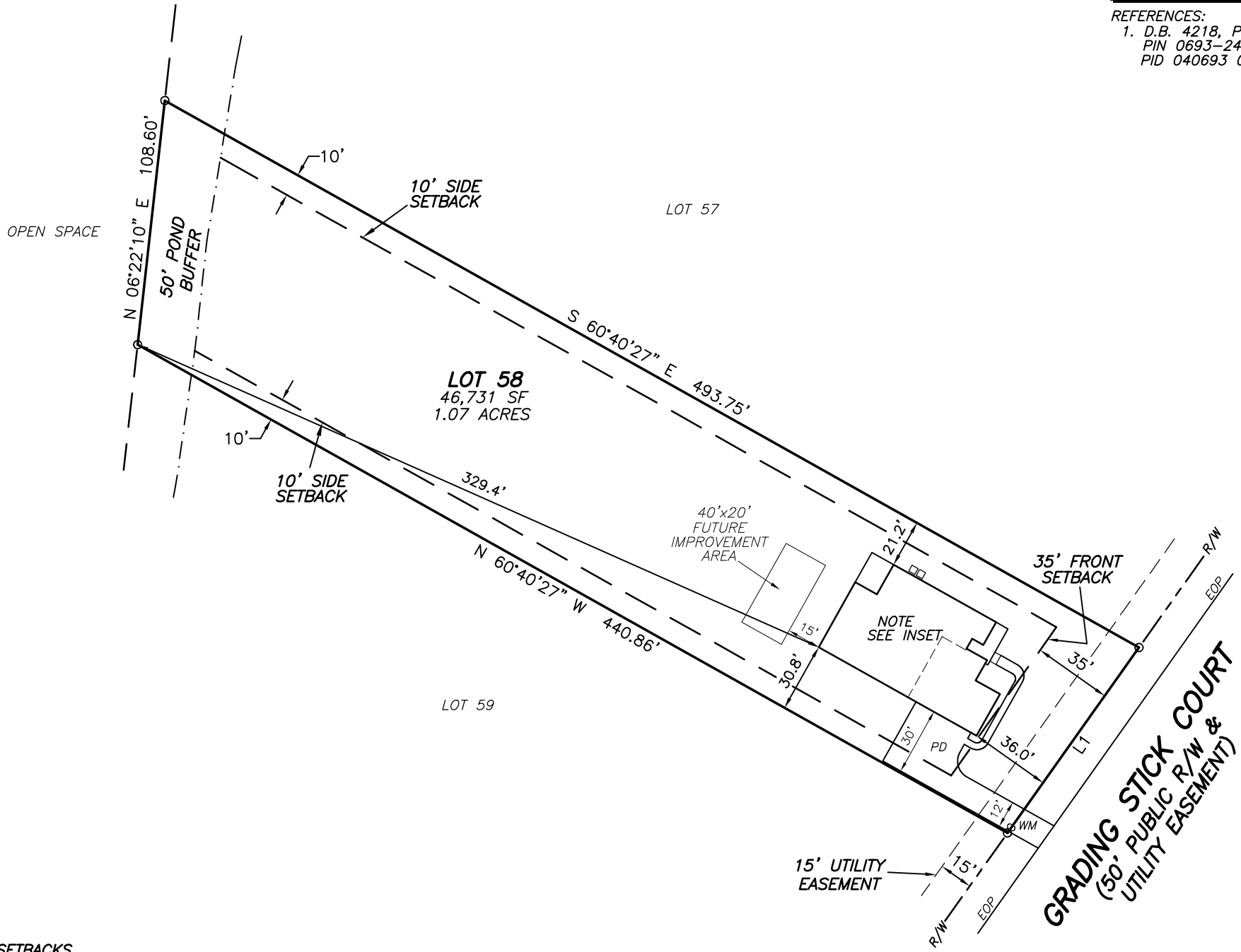
Comments:

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S 35°20'22" W	100.55'

PROPOSED IMPERVIOUS SURFACES:
 TOTAL LOT AREA=46,731 S.F.
 HOUSE/PORCHES=3,546 S.F.
 DRIVEWAYS/ETC.=1,500 S.F.
 TOTAL IMPERVIOUS AREA=5,046 S.F.
 MAX. IMPERVIOUS AREA=5,500 S.F.



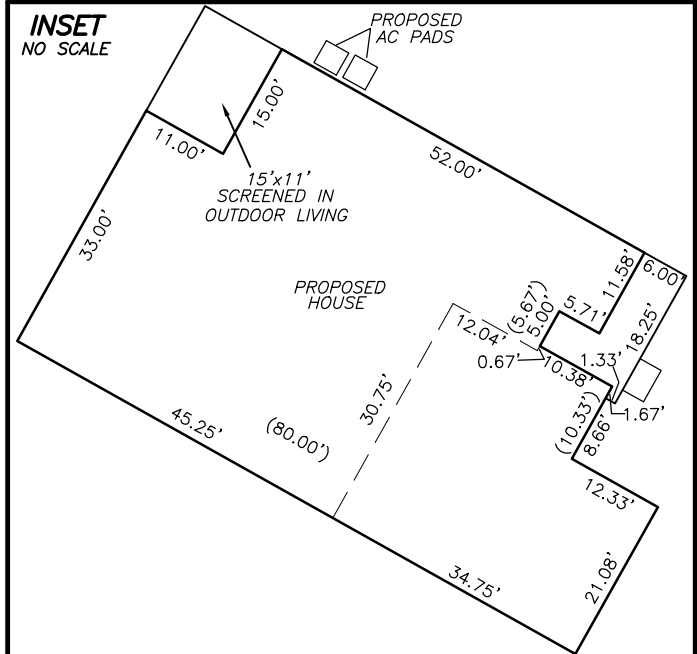
REFERENCES:
 1. D.B. 4218, PG. 193
 PIN 0693-24-8865.000
 PID 040693 0030 39



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

LEGEND
 (EOP)-EDGE OF PAVEMENT
 (PD)-PROPOSED DRIVEWAY
 (WM)-WATER METER
 (AC)-AIR CONDITIONER

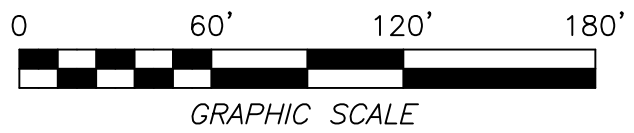
- NOTES:
1. ALL EASEMENTS, RIGHTS OF WAY AND BOUNDARY INFORMATION TAKEN FROM P.B. 2023, PG 563-568 UNLESS OTHERWISE NOTED.
 2. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD. NO TITLE EXAMINATION HAS BEEN DONE BY ROBINSON & PLANTE, P.C.
 3. INDIVIDUAL ON SITE SEPTIC SYSTEM FOR ALL LOTS
 4. WATER TO BE PROVIDED BY HARNETT COUNTY PUBLIC UTILITIES
 5. NO ENCROACHMENTS INTO THE WETLANDS WILL BE ALLOWED.
 6. LOTS TO BE INTERNALLY ACCESSED ONLY.
 7. ONLY N.C. DEPARTMENT OF TRANSPORTATION APPROVED STRUCTURES ARE TO BE CONSTRUCTED ON PUBLIC RIGHT OF WAY.
 8. ANY PARCELS OR EXCLUDED AREAS ARE TO BE SERVED INTERNALLY WITH NO ACCESS ONTO DEPARTMENTAL RIGHT OF WAY.
 9. ALL DRAINAGE EASEMENTS SHALL BE DEDICATED AS PUBLIC AND SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNERS TO MAINTAIN THE DRAINAGE EASEMENTS AND ANY DRAINAGE STRUCTURES THERE IS SO AS TO MAINTAIN THE INTEGRITY OF DRAINAGE SYSTEM AND INSURE POSITIVE DRAINAGE
 10. PROPERTY FRONTAGE SHALL NOT PIPED WITHOUT AN APPROVED ENCROACHMENT AGREEMENT FROM NCDOT. THE EASEMENT ALLOWS NCDOT THE RIGHT TO ACCESS THE DRAINAGE EASEMENTS AND PERFORM WORK IT DEEMS NECESSARY OR PRUDENT TO ALLEVIATE ANY ISSUES JEOPARDIZING THE INTEGRITY OF THE ROADWAY.



PRELIMINARY PLAT- NOT FOR RECORDATION, CONVEYANCE, OR SALE

**LOT 58 TOBACCO ROAD SUBDIVISION
 PHASE 1 & 3
 39 GRADING STICK COURT
 HARNETT COUNTY
 ANGIER, NC 27501**

**SURVEY FOR
 DREES HOMES**



REFERENCE: PLAT BOOK 2023 PAGE 563-568

FILE: TBRDL058PP

I CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION DESCRIPTION RECORDED IN REFERENCES AS SHOWN; THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION IN _____; THAT THE RATIO OF PRECISION IS 1:10,000; AND THAT THIS MAP MEET THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.16000). THIS _____ DAY OF _____, 2024.

PARKETTE
 ELEV. D
 SEALED CRAWL SPACE
 SCREENED IN OUTDOOR LIVING
 GARAGE LEFT SIDE

ROBINSON & PLANTE PC
 LAND SURVEYING
 C-2687
 970 TRINITY ROAD
 RALEIGH, N.C. 27607
 PHONE (919) 859-6030
 FAX (919) 859-6032

PROFESSIONAL LAND SURVEYOR L-4433

DATE: 10-21-24 SCALE: 1"=60'

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

OWNER: Drees

ADDRESS:

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

LOCATION OF SITE: 39 Grading Stick Ct, Angier, NC, 27501

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

APPLICATION DATE:

DATE EVALUATED: 10/23/2024

PROPERTY SIZE: 1.07 Acres

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/ TEXTLSE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	Linear Slope/5%	0-22	GR/LS	VFR,NS,NP,SEXP	N.O	38"	N.O	N.O	P.S .35
		22-38	SBK/SCL	FR,SS,SP,SEXP					
2	Linear Slope/5%	0-22	GR/LS	VFR,NS,NP,SEXP	N.O	36"	N.O	N.O	P.S .35
		22-36	SBK/SCL	FR,SS,SP,SEXP					
3	Linear Slope/5%	0-24	GR/LS	VFR,NS,NP,SEXP	N.O	40"	N.O	N.O	P.S .4
		24-40	SBK/SCL	FR,SS,SP,SEXP					
4									

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

COMMENTS:
 Updated February 2014



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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">CONTACT NAME: Angela Sensenig</td> </tr> <tr> <td>PHONE (A/C, No, Ext): (252) 631-5269</td> <td>FAX (A/C, No): (252) 649-2443</td> </tr> <tr> <td colspan="2">E-MAIL ADDRESS: asensenig@wadeict.com</td> </tr> <tr> <td colspan="2" style="text-align: center;">INSURER(S) AFFORDING COVERAGE</td> </tr> <tr> <td>INSURER A: Markel Insurance Company</td> <td style="text-align: right;">NAIC # 38970</td> </tr> <tr> <td colspan="2">INSURER B:</td> </tr> <tr> <td colspan="2">INSURER C:</td> </tr> <tr> <td colspan="2">INSURER D:</td> </tr> <tr> <td colspan="2">INSURER E:</td> </tr> <tr> <td colspan="2">INSURER F:</td> </tr> </table>	CONTACT NAME: Angela Sensenig		PHONE (A/C, No, Ext): (252) 631-5269	FAX (A/C, No): (252) 649-2443	E-MAIL ADDRESS: asensenig@wadeict.com		INSURER(S) AFFORDING COVERAGE		INSURER A: Markel Insurance Company	NAIC # 38970	INSURER B:		INSURER C:		INSURER D:		INSURER E:		INSURER F:	
CONTACT NAME: Angela Sensenig																					
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INSURER D:																					
INSURER E:																					
INSURER F:																					
INSURED Alex Adams, DBA: Adams Soil Consulting 1676 Mitchell Rd. Angier NC 27501																					

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"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> 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						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> 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

<p>*FOR INFORMATIONAL PURPOSES ONLY* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX</p>	<p>SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.</p> <hr/> <p>AUTHORIZED REPRESENTATIVE N Whitsett/RACHEL </p>
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