ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 315889

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4639 -35 -2547

APPLICANT/OWNER: David Brooks APPLICANT ADDRESS: 58 Willow Bend Dr, Candler, NC 28715

SITE ADDRESS: 116 Marietta Rd, Mooresville NC 28117 PHONE: 980-253-0734 ALT. PHONE

SITE DIRECTIONS: (N) Perth → (L) Fern Hill → (R) Marietta → lot on (R) SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: CL&T SECTION: 16 LOT # 55 LOT AREA: 0.85ac DESIGN FLOW: 480 gpd L.T.A.R.: 0.3(I)(0.125)(IV)

Septic Tank	~~1000~~ 1275 (gal)	STB	~~1000~~ 347	Date	2/28/22	☒ New System ☐ Repair ☐ Expansion	System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms 4	Water Supply
Pump Tank	~~1000~~ 1275 (gal)	PT	~~500~~ 300	Date	3/6/22	System Description: LP PPBPS - Vertical		☐ Business	No. Persons 8	☒ Private
Pump Make		Model		Serial #		Repair System Description: Drip - 4230ft2		☐ Other	No. Employees	☐ Public
# Nitrification Fields	1	# Lines	4	Linear Ft	2701	Maintenance Agreement Required: ☐ YES ☐ NO		☐ Slab	☐ Crawl Space	☐ Community
Trench Width	24"	Trench Bottom Depth (Low side)	34" (36" max)	Gravel Depth	N/A	☐ GRAVITY ☐ PRESSURE		☒ Basement w/ plumbing		☐ Basement w/o plumbing

Comments / Conditions: Install drainfield on contour of land. Utilize pressure dispersal. Do not drive, park, grade, or bury utilities in drainfields. Divert all drainage away from drain fields. House footprint must stay as draw on site plan.

* Pump crush & fill existing tank

Drip area must be 15' from basement

INITIAL SITE SKETCH

See attached
Site plan & data sheet
by Michael Athanas &
Assoc. LSS
Dated 6/6/21

AS BUILT SKETCH

the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

Need letter for tanks being to deep

Lines 6/8/22
Tanks CW

Electrical 7/6/22
Pressure Head MW
Alarm
Floats

* still needs letter for tanks before signing OP

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration. ☒ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☒ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: Date:

IMPROVEMENT PERMIT by: D. Wiebers Date: 6/6/21

AUTHORIZATION TO CONSTRUCT by: D. Wiebers Date: 6/6/21

Installed by: Abernathy

OPERATION PERMIT by: D. Wiebers Date: 8/24/22

Existing System Inspected by: Date:

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 315889

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4639 --35 --2547

APPLICANT/OWNER: David Brooks | APPLICANT ADDRESS: 58 Willow Bend Dr, Candler, NC 28715

SITE ADDRESS: 1166 Marietta Rd, Mooresville NC 28117 | PHONE: 980-253-0734 | ALT. PHONE

SITE DIRECTIONS: (N) Perth → (L) Fern Hill → (R) Marietta → lot on (R)

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: CL&T | SECTION: 16 | LOT # 55 | LOT AREA: 0.85ac | DESIGN FLOW: 480 gpd | L.T.A.R.: 0.3(I)(0.125)(R)

Septic Tank	1000 (gal)	STB	Date	☒ New System	☐ Repair	☐ Expansion	System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms 4
Pump Tank	1000 (gal)	PT	Date	System Description:	LP PPBPS - Vertical			☐ Business	No. Persons 8
Pump Make		Model	Serial #	Repair System Description:	Drip - 4230 ft2			☐ Other	No. Employees
# Nitrification Fields	1	# Lines	4	Linear Ft	2701	Maintenance Agreement Required:	☐ YES ☐ NO	☐ Slab	☐ Crawl Space
Trench Width	24"	Trench Bottom Depth(Low side)	34" (36" max)	Gravel Depth	N/A		☐ GRAVITY ☐ PRESSURE	☒ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Install drainfield on contour of land. Utilize pressure dispersal. Do not drive, pave, park, grade, or bury utilities in drainfields. Divert all drainage away from drain fields. House footprint must stay as draw on site plan.

* Pump crush & fill existing tank

Drip area must be 15' from basement.

INITIAL SITE SKETCH

See attached Site plan & data sheet by Michael Attanas & Assoc. LSS Dated 6/6/21

AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT *with plat valid without expiration.* ☒ IMPROVEMENT PERMIT *with site plan valid for 60 mos.* ☒ AUTHORIZATION TO CONSTRUCT *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: _____ Date: _____ Installed by: _____

IMPROVEMENT PERMIT by: D. Wieberg Date: 6/6/21 OPERATION PERMIT by: _____ Date: _____

AUTHORIZATION TO CONSTRUCT by: D. Wieberg Date: 6/6/21 Existing System Inspected by: _____ Date: _____

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 315889

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4639 -- 35 -- 2547

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SITE ADDRESS: 116 Marietta Rd, Mooresville NC 28117 PHONE: 980-253-0734 ALT. PHONE

SITE DIRECTIONS: (N) Perth → (L) Fern Hill → (R) Marietta → lot on (R)

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: CL & T SECTION: 16 LOT # 55 LOT AREA: 0.85ac

DESIGN FLOW: 480 gpd L.T.A.R.: 0.3(I)/(0.125)(R)

Septic Tank	~~1000~~ 1275 (gal)	STB	~~1000~~ 347	Date	2/28/22	☒ New System	☐ Repair	☐ Expansion	System Type: I II III (IV) V VI
Pump Tank	~~1000~~ 1275 (gal)	PT	~~500~~ 300	Date	3/6/22	System Description:	LP PPBPS - Vertical		
Pump Make	Liberty	Model	Z90	Serial #		Repair System Description:	Drip - 4230ft2		
# Nitrification Fields	1	# Lines	4	Linear Ft	2701	Maintenance Agreement Required:	☐ YES	☐ NO	
Trench Width	24"	Trench Bottom Depth(Low side)	34" (36" max)	Gravel Depth	N/A		☐ GRAVITY	☐ PRESSURE	

☒ Residence No. Bedrooms 4
☐ Business No. Persons 8
☐ Other No. Employees
☐ Slab ☐ Crawl Space
☒ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Install drainfield on contour of land. Utilize pressure dispersal. Do not drive, park, grade, or bury utilities in drainfields. Divert all drainage away from drain fields. House footprint must stay as drawn on site plan.

* Pump crush & fill existing

Drip area must be 15' from basement tank

INITIAL SITE SKETCH

See attached
Site plan & data sheet
by Michael Athanas &
Assoc. LSS
Dated 6/6/21

AS BUILT SKETCH

the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

Need letter For tanks being to deep — Lines 6/8/22, Tanks CW

Supply line, tanks plumbed — 6/9/22 DW

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration. ☒ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☒ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: Date:

IMPROVEMENT PERMIT by: D. Wiebery Date: 6/6/21

AUTHORIZATION TO CONSTRUCT by: D. Wiebery Date: 6/6/21

Installed by: RA Abernathy Grading

OPERATION PERMIT by: Date:

Existing System Inspected by: Date:



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556 Walden Trail
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 166 Marietta Road;
PID# 4639352547.000;
Iredell County, NC

House Footprint: 86' x 80'; See site plan for detail
Building Setback: 35' Front; 50' Rear; 10' Side
Water Source: Private Well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 gpd/ft2
Suggested Initial System Type: PPBPS
Repair System LTAR: 0.125 gpd/ft2
Repair System Type: Drip
Distribution: LP-CVB; 1.5" Lateral
Flow per Orifice: .59
Hole Size & Material: 3/16"
Number of Panels: 62
System Flow: 36.58 gal/min
Dosing Volume: 223.00 gal/dose
Pump Run Time: 6.1 min
Total Linear Footage: 270'
Trench Bottom Square Footage: 810 sq.ft
Elevation Head: TBD
Friction Head: 3.77'
Pressure Head: 2'
Total Dynamic Head: TBD
Supply Line Length: 120'
Septic/ Pump tank size: 1000 gallon Septic Tank; 1000 gallon Pump Tank
Trench Bottom: 36"

Line	Design Length	Actual Length	Number of Panels	Elevation
Orange 1	**40'**	**40'**	**9**	**Shot by Surveyor**
White 2	**60'**	**62'**	**14**	**Shot by Surveyor**
Yellow 3	**80'**	**81'**	**18**	**Shot by Surveyor**
Orange 4	**90'**	**90'**	**21**	**Shot by Surveyor**

Initial System: 270' PPBPS
Repair System: 4345ft2 Drip

Comments: The purpose of the evaluation is to permit this site for a 4-bedroom residence.

- MA&A is proposing a PPBPS system in the front yard and a drip repair in the front and rear of the property including 20' into the 50' buffer.
- The existing well will be abandoned and a new well drilled in the location shown on the site plan.
- The proposed house site and initial system lines have been marked by the surveyor.
- **The system area should be fenced off and all traffic kept off of it. Failure to do so will result in the permit being revoked.**



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ON-SITE WASTEWATER SECTION

166 Marietta Road; Lot 55 CL&T; PID#4639352547.000
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: David Brooks APPLICATION DATE: _____
ADDRESS: 58 Willow Bend Drive Candler, NC 28715 DATE EVALUATED: 11/2020
PROPOSED FACILITY: 4-Bedroom Residence PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 0.80 Acres
LOCATION OF SITE: 166 Marietta Road Mooresville, NC 28117 PROPERTY RECORDED: Unknown
WATER SUPPLY: Ξ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: Ξ Auger Boring X Pit ☐ Cut TYPE OF WASTEWATER: Ξ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 1	L 3-5%	0"-5"	Br CL WSBK	SS SP FR SEXP		48"			0.3 0.1+ Drip **Repair**
		5"-48"	R C SBK	SS SP FR SEXP					
AB 2	L 3-5%	0"-23"	R C SBK	SS SP FR SEXP		48"	Few to common saprolite inclusions 23"-48".		0.3 0.1+ Drip **Repair**
		23"-48"	R CL WSBK	SS SP FR SEXP					
AB 3	L 3-5%	0"-12"	Br CL WSBK	SS SP FR SEXP		48"	Few to common saprolite inclusions 41"-48".		0.3
		12"-41"	R C SBK	SS SP FR SEXP					
		41"-48"	R CL WSBK	SS SP FR SEXP					
AB 4	L 3-5%	0"-20"	Br CL WSBK	SS SP FR SEXP	Mn throughout the profile.	48"			0.25
		20"-48"	RBr C WSBK	SS SP FR SEXP					
AB 5	L 3-5%	0"-5"	Br CL WSBK	SS SP FR SEXP		48"	Few to common saprolite inclusions 30"-48".		0.3 0.1+ Drip **Repair**
		5"-30"	R C SBK	SS SP FR SEXP					
		30"-48"	R CL WSBK	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	810 ft2	4345 ft2
System Type(s)	PPBPS	Drip
Site LTAR	0.3	0.125

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT: _____

Comments:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM cont.

PROFILE #	.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	
AB 6	L 3-5%	0"-5"	Br CL WSBK	SS SP FR SEXP		32"	Few to common saprolite inclusions 28"-32".	AR at 32". Floater rock	0.3
		5"-28"	R C SBK	SS SP FR SEXP					
		28"-32"	R CL WSBK	SS SP FR SEXP					
Pit 1	L 3-5%	0"-3"	Br CL WSBK	SS SP FR SEXP		48"	Few to common saprolite inclusions 20"-39".		0.3+
		3"-20"	R C SBK	SS SP FR SEXP					
		20"-39"	R CL WSBK	SS SP FR SEXP					
		39"-48"	RBr L WSBK	SS SP FR SEXP					
Pit 2	L 3-5%	0"-6"	Fill			49"	Few to common saprolite inclusions 23"-49".		0.3+
		6"-12"	Br CL WSBK	SS SP FR SEXP					
		12"-23"	R C SBK	SS SP FR SEXP					
		23"-49"	R CL WSBK	SS SP FR SEXP					
		49"-54"	V L Saprolite M	SS SP FR SEXP					
Pit 3	L 3-5%	0"-11"	Br CL WSBK	SS SP FR SEXP		60"	Few to common saprolite inclusions 37"-60".		0.3+ 0.1+ Drip **Repair**
		11"-37"	R C SBK	SS SP FR SEXP					
		37"-60"	R CL WSBK	SS SP FR SEXP					
Pit 4	L 3-5%	0"-10"	R C Slight Compaction	SS SP FR SEXP		60"	Few to common saprolite inclusions 36"-60".		0.3 0.1+ Drip **Repair**
		10"-36"	R C WSBK	SS SP FR SEXP					
		36"-60"	R CL WSBK	SS SP FR SEXP					

RECEIVED MAY 2 5 2021

APPLICATION MUST BE FILLED OUT COMPLETELY & BE LEGIBLE OR IT WILL NOT BE PROCESSED

Iredell County Health Department – Environmental Health Division

PAGE 1: *APPLICATION FORM* AP-315889 $105.00

Application For: ( ) New Well Permit ( ) Well Repair Permit (✓) Well Abandonment
( ) Septic Improvement Permit (✓) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED. APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: Kenneth Beaker Homes Address: 1454 Brawley School Rd. Zip: 28117
Applicant Email: invoice@kbhlakenorman.com Phone: 704.662-6400 Alt. Phone: —
Owner Name: David Brooks Address: 166 Marietta Dr. Zip: 28117
Owner Email: — Phone: 980-253-0734 Alt. Phone: —

Property Information:

Street Address: 166 Marietta Dr.
Subdivision Name: n/a sub# 15004 Section/Phase: — Lot Number: 55
Driving Directions: Perth Rd to Fernhill, right on Marietta Dr.

Site Development Information: *(check or complete ALL that apply*

(✓) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem:

Maximum Number of Bedrooms: 4
Maximum Number of Occupants:
( ) Swimming Pool
( ) Other Addition/Structure:

CHECK FOUNDATION TYPE
( ) Crawl Space Foundation
( ) Concrete Slab Foundation
(✓) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development: Type of Business:
Square Footage of Building: Max. Number of Employees: Max. Number of Seats/Beds/Other:

Water Supply: ( ) Replacement Well – Reason:
( ) Multi-connection Well Number of Houses: 1 Number of Persons:

( ) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: new - see attached docs
( ) No Preference ( ) Alternative (✓) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other:

Please answer the following to the best of your ability:

( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (✓) No Is the site subject to approval by any other public agency?

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

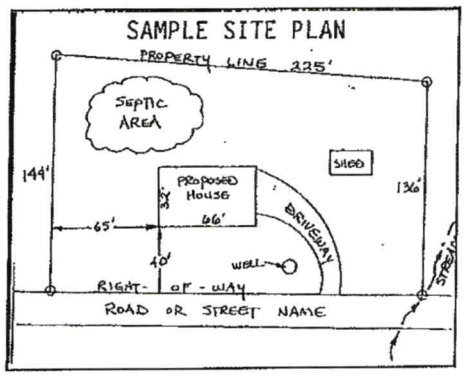
Signature: Kenneth Beaker Homes 4/29/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE
By: Candice Fatta

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 2: ***SITE PLAN WORKSHEET***

SEE THE "SAMPLE SITE PLAN" BELOW. ***INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!***



Place an (X) beside each item as you complete the site plan:

- (X) Property Line measurements are clearly identified
- (X) All proposed structures are indicated
- (X) Front and side setbacks from property line
- (X) Preferred driveway location and well location
- (X) Area you prefer your septic system to be placed
- (X) North arrow, or other sufficient indicator of direction

Circle N/A on the following if appropriate:

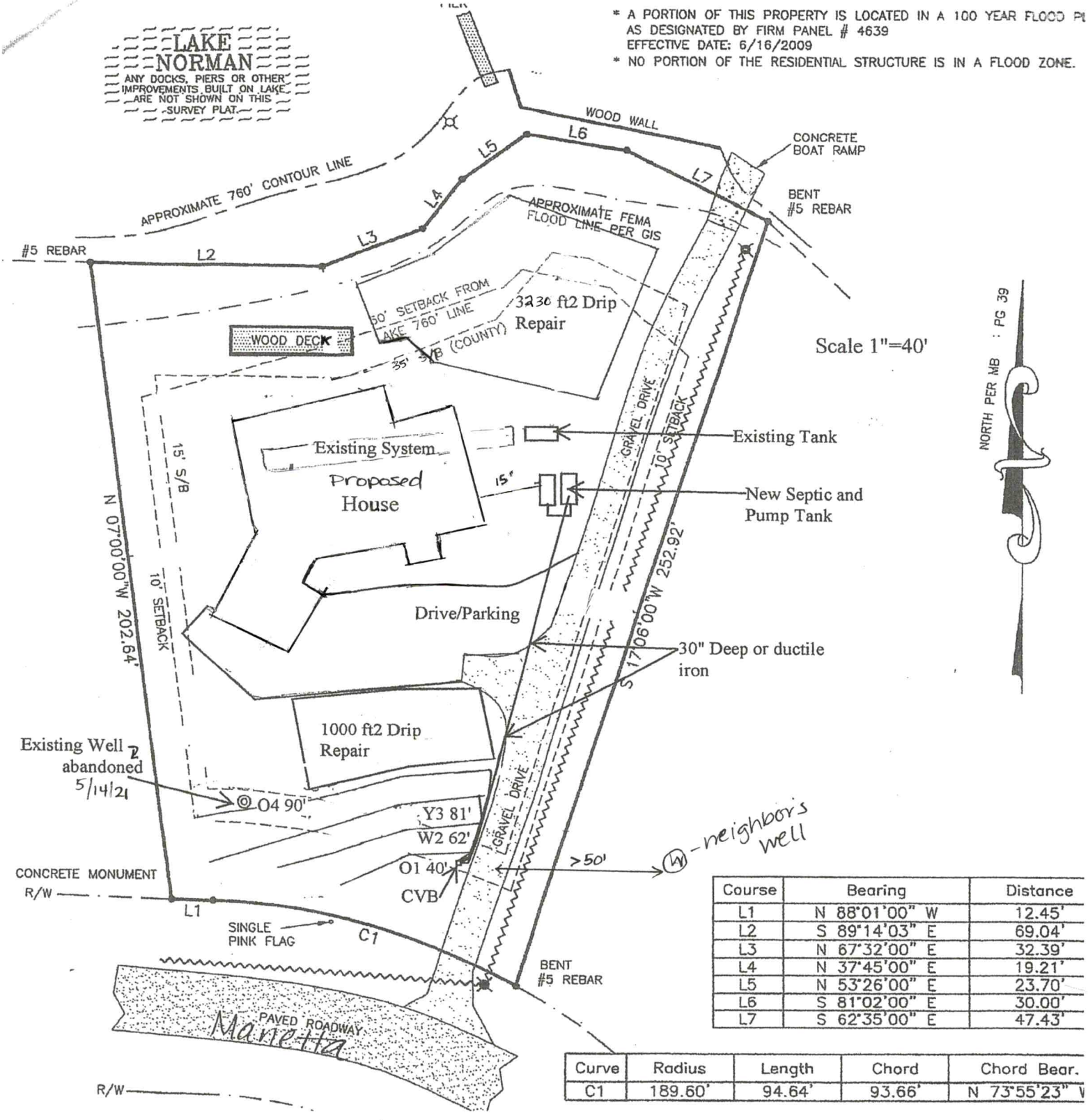
Location of septic systems and wells within 100' of your property	N/A
Location of easements and rights of ways on your property	N/A
Location of any designated wetlands on the property	N/A

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

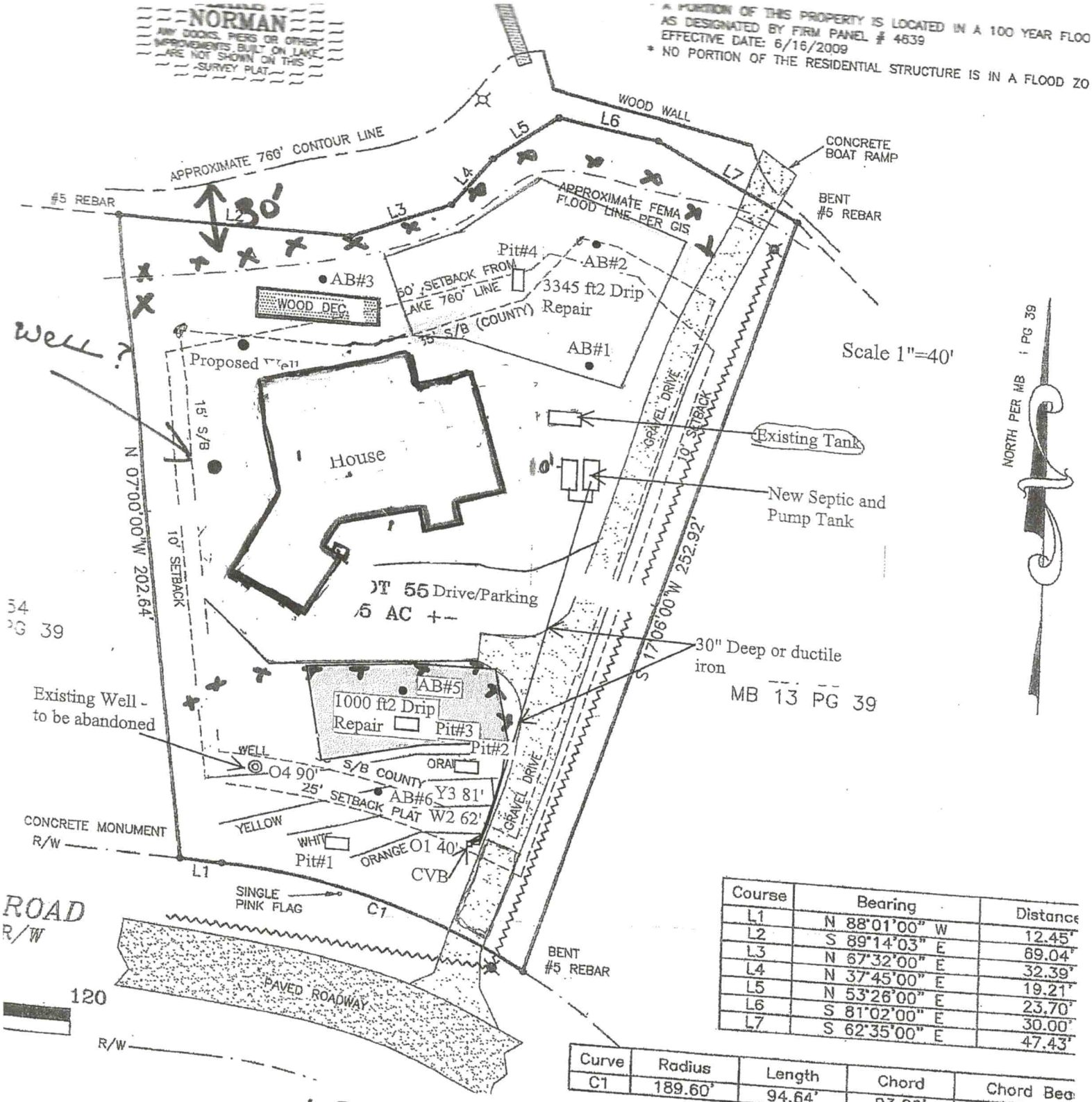
Signature: _____ _____

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE



Course	Bearing	Distance
L1	N 88°01'00" W	12.45'
L2	S 89°14'03" E	69.04'
L3	N 67°32'00" E	32.39'
L4	N 37°45'00" E	19.21'
L5	N 53°26'00" E	23.70'
L6	S 81°02'00" E	30.00'
L7	S 62°35'00" E	47.43'

Curve	Radius	Length	Chord	Chord Bear.
C1	189.60'	94.64'	93.66'	N 73°55'23" W



Course	Bearing	Distance
L1	N 88°01'00" W	12.45'
L2	S 89°14'03" E	69.04'
L3	N 67°32'00" E	32.39'
L4	N 37°45'00" E	19.21'
L5	N 53°26'00" E	23.70'
L6	S 81°02'00" E	30.00'
L7	S 62°35'00" E	47.43'

Curve	Radius	Length	Chord	Chord Bea
C1	189.60'	94.64'	93.66'	N 73°55'23"

- UPDATED SITE PLAN AS OF 6/2/21

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH

ROY COOPER
GOVERNOR

MANDY COHEN, MD, MPH
SECRETARY

DANIEL STALEY
DIRECTOR

April 10, 2017

Mr. Jimmy Shoaf
Shoaf Precast, Inc.
4130 West US Highway 64
Lexington, NC 27295

Subject: Modified Reinforcement Schedule and Increased Burial Depth

Dear Mr. Shoaf:

The following tanks will be designed with a six inch think top, additional reinforcement, and 5,000 psi concrete and have a maximum burial depth of 60 inches:

SHOAF-STB-760-1000
SHOAF-STB-964-1500
SHOAF-STB-347-1000
SHOAF-STB-390-1500
SHOAF-PT-363-1000
SHOAF-PT-306-1275
SHOAF-PT-353-1500

Effluent filters, outlet pipe penetration seals, risers, and all other appurtenances must be state approved and installed as per the approved plans and specifications. This approval applies only to tanks constructed in accordance with their approved plans and specifications, and if found in noncompliance an Operation Permit will not be issued for the installed wastewater system. Tanks shall be watertight and may be subject to a watertightness test, per local and state environmental health guidelines.

All tank manufacturers having North Carolina state approval of septic or pump tanks are subject to periodic, unannounced inspections of their tanks and manufacturing process by state and local environmental health officials. Should tanks be found to not be in compliance with their state-approved plans or state sewage rules (15A NCAC 18A .1900, et seq.), such tanks may be permanently identified as being unacceptable for use in North Carolina on-site wastewater systems and the manufacturer of such tanks may face suspension or revocation of state approval for their tanks.

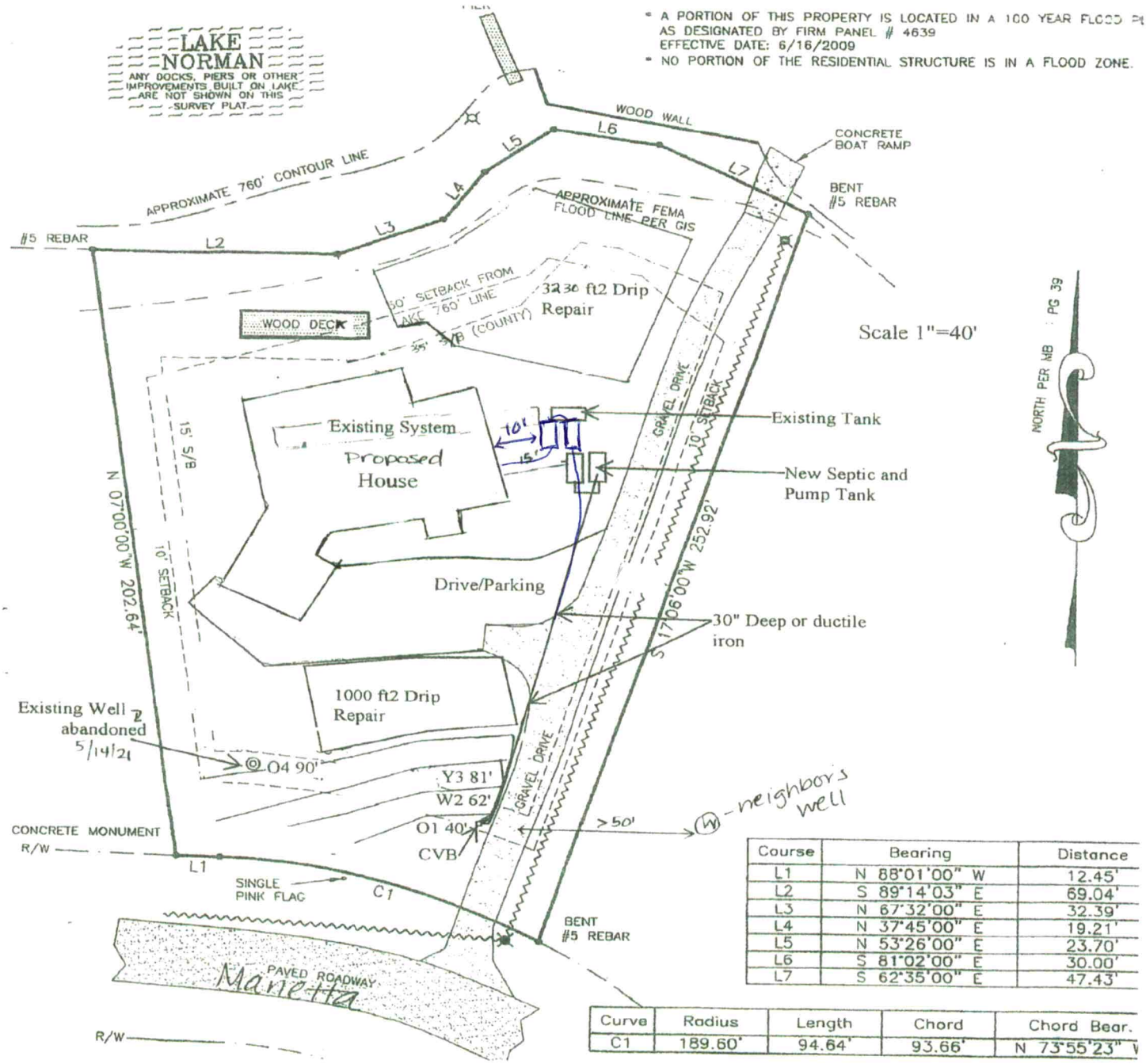
If you have any questions pertaining to this approval or if we may be of further service, please feel free to contact me.

Sincerely,

Tricia Angoli, PE
On-Site Wastewater Engineering

WWW.NCDHHS.GOV
TEL 919-707-5874 • FAX 919-845-3972
LOCATION: 5605 SIX FORKS RD • RALEIGH, NC 27609
MAILING ADDRESS: 1642 MAIL SERVICE CENTER • RALEIGH, NC 27699-1642
AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

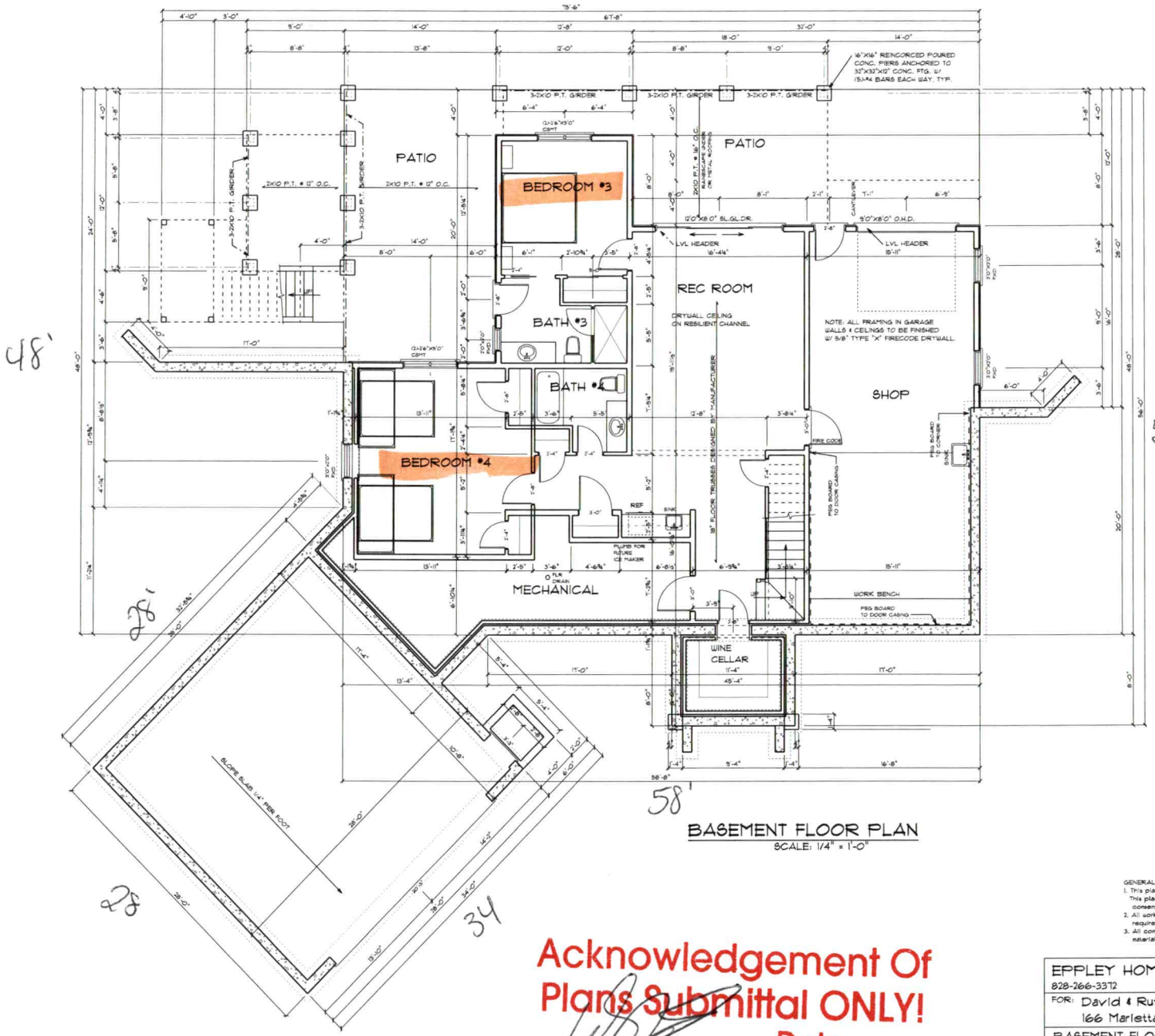
Approved 12/6/21 DW



Course	Bearing	Distance
L1	N 88°01'00" W	12.45'
L2	S 89°14'03" E	69.04'
L3	N 67°32'00" E	32.39'
L4	N 37°45'00" E	19.21'
L5	N 53°26'00" E	23.70'
L6	S 81°02'00" E	30.00'
L7	S 62°35'00" E	47.43'

Curve	Radius	Length	Chord	Chord Bear.
C1	189.60'	94.64'	93.66'	N 73°55'23" W

75' 6"



BASEMENT FLOOR PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:
1. ALL SLABS TO BE FIRE-TREATED FOR TERMITES.
2. ALL SILL PLATES TO BE ANCHORED W/ 1/2" DIA. ANCHOR BOLTS W/ WASHERS (1 @ 12" FROM EACH END OF EACH BOARD & @ 48" O.C.) EMBEDED 7" INTO CONCRETE OR 15" INTO MASONRY.
3. ALL WOOD THAT CONTACTS CONCRETE SHALL HAVE A SEALANT OR GASKET TO ACT AS A CAPILARY BREAK.
4. ALL SURFACE WATER TO DRAIN AWAY FROM HOUSE.
5. ALL FLOOR TRUSSES TO BE DESIGNED BY TRUSS MANUFACTURER.
6. ALL EXTERIOR WALLS TO BE 2X6 SPF STUDS @ 16" O.C. W/ DBL. 2X8 TOP PLATE U.O.N.. COVER EXTERIOR SURFACE W/ 7/16" OSB OR CDX PLYWOOD. USE 1 ROW OF 8d NAILS @ 3" O.C. @ SILL PLATES & RAFTER PLATES, 2 ROWS OF 8d NAILS @ 4" O.C. @ DBL. PLATES & 1 ROW OF 8d NAILS @ 3" O.C. @ EDGES & 6" O.C. @ ALL OTHER JOINTS & STUDS. BLOCK ALL HORIZ. JOINTS. LAP ALL SUBFLOORS. UNLESS OTHERWISE NOTED.
7. STRUCTURAL DESIGN PARAMETERS:
   ASSUMED SOIL BEARING CAPACITY = 2,000 PSF
   FLOOR LIVE LOADS = 40 PSF
   ROOF SNOW LOAD = 30 PSF
   WIND VELOCITY = 110 MPH
8. ALL WINDOWS & EXTERIOR DOORS TO HAVE A DESIGN PRESSURE RATING OF 25 PSF MINIMUM.
9. MINIMUM INSULATION NOTES:
   FLOORS - R= 30
   WALLS - R= 15
   CEILINGS - R= 38
   SPRAY FOAM RECOMMENDED WHERE APPLICABLE.
10. TIE ALL RAFTERS TO TOP PLATES W/ A SIMPSON H2.5.
11. ROOF DECKING TO BE 7/16" OSB OR CDX PLYWOOD FASTENED W/ 8d NAILS 3" O.C. @ EDGES & 6" O.C. IN THE FIELD. APPLY A DBL. ROW OF STAGGERED NAILS @ EAVES, RAKES, & RIDGES. BLOCK ALL EDGES & JOINTS BETWEEN PANELS.
12. ALL FIRST FLOOR TO HAVE MANUFACTURED HARD WOOD FLOORING EXCEPT LAUNDRY, BATH #2 & BATH #3.

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2. All work shall conform to the applicable prescriptive requirements of the North Carolina State Building Code.
3. All contractors to check and verify all dimensions and materials prior to starting construction.

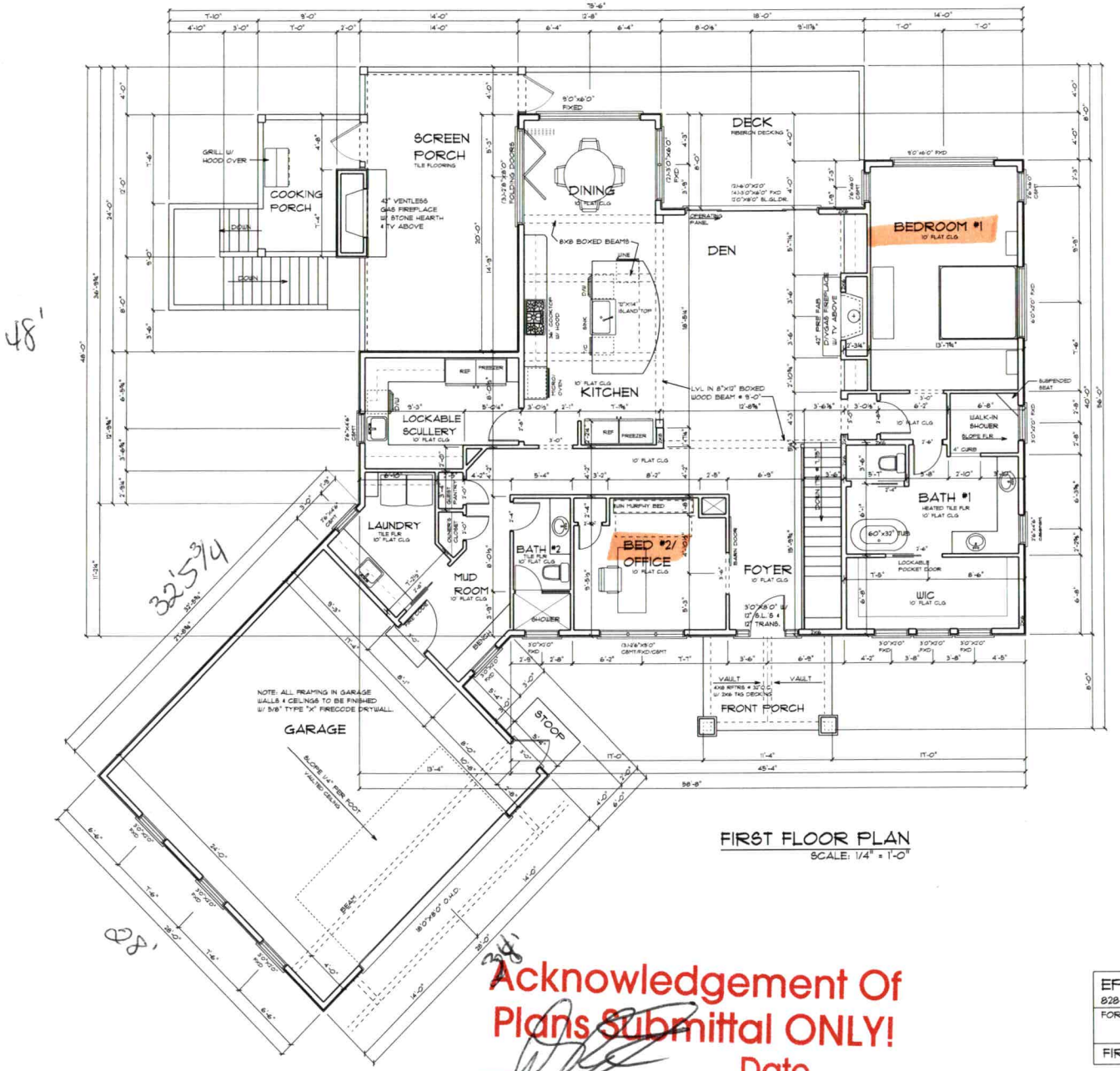
Acknowledgement Of Plans Submittal ONLY!

_____ Date _____

_____ Date 6/7/21

EPPLEY HOME DESIGN, INC. 828-266-3372	12/21/20 2/3/21 2/18/21 3/8/21 3/10/21
FOR: David & Ruthie Brooks 166 Marietta Road, Mooresville, NC	3/12/21 3/30/21 4/6/21 4/15/21 4/22/21
BASEMENT FLOOR PLAN	2/9

75' 6"



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

AREA:	
FIRST FLOOR	2129 S.F.
BASEMENT FLOOR	1508 S.F.
SHOP	564 S.F.
WINE CELLAR	91 S.F.
GARAGE	784 S.F.
SCREEN PORCH	359 S.F.
FRONT PORCH	91 S.F.
COOKING PORCH	88 S.F.
DECKS	359 S.F.
PATIO	784 S.F.
STOOP	22 S.F.

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FOR: David & Ruthie Brooks 166 Marietta Road, Mooresville, NC	
FIRST FLOOR PLAN	3/9