IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 247277

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

PIN # 4701943660

APPLICANT/OWNER: Walter Blalock APPLICANT ADDRESS: 240 Corriher Grange Mooresville NC 28115

SITE ADDRESS: 2602 Buffalo Shoals Road Statesville NC 28677 PHONE: 704 4915938 ALT. PHONE –

SITE DIRECTIONS: Hwy 70 to Buffalo Shoals Rd Rt onto Bridgeland Trail 1st on Right SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Old Bridge SECTION: – LOT # 4 LOT AREA: 1.57 Acres DESIGN FLOW: 480 L.T.A.R.: -30

Septic Tank	1000	(gal)	STB	760	Date	2-8-20	☒ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI	
Pump Tank	1000	(gal)	PT	363	Date	3-27-20	System Description:	Pressure Manifold 25% Red			
Pump Make	Zoeller		Model	882	Serial #		Repair System Description:	Pressure Manifold 25% Red			
# Nitrification Fields	1		# Lines	5	Linear Ft	400	Maintenance Agreement Required:	☐ YES	☒ NO		
Trench Width	36		Trench Bottom Depth (Downhill)		30in max		Gravel Depth	–	☐ GRAVITY	☒ PRESSURE	

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

Comments / Conditions: Pumpline easement Recorded Bk 1753 Pg 846-851

INITIAL SITE SKETCH

See attached Design and Proposal by Soil + Forestry Services of the Carolinas

AS BUILT SKETCH

supply line 30" under driveway - CCN

	Date	Initials
Drain Lines Checked	6-8-20	CCN
Tanks Checked	6-8-20	CCN
Pressure Manifold or Valve Box Checked	6-8-20	CCN
Pressure Head Set	12-3	BB
Electrical Checked	12-3	BB
Floats Set	12-3	BB
Alarm Checked	12-3	BB
Maintenance Contract Y (N)	Not Required	

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: Samuel C. Keller Date: –

IMPROVEMENT PERMIT by: Benjamin A. Bottling Date: 9/4/19

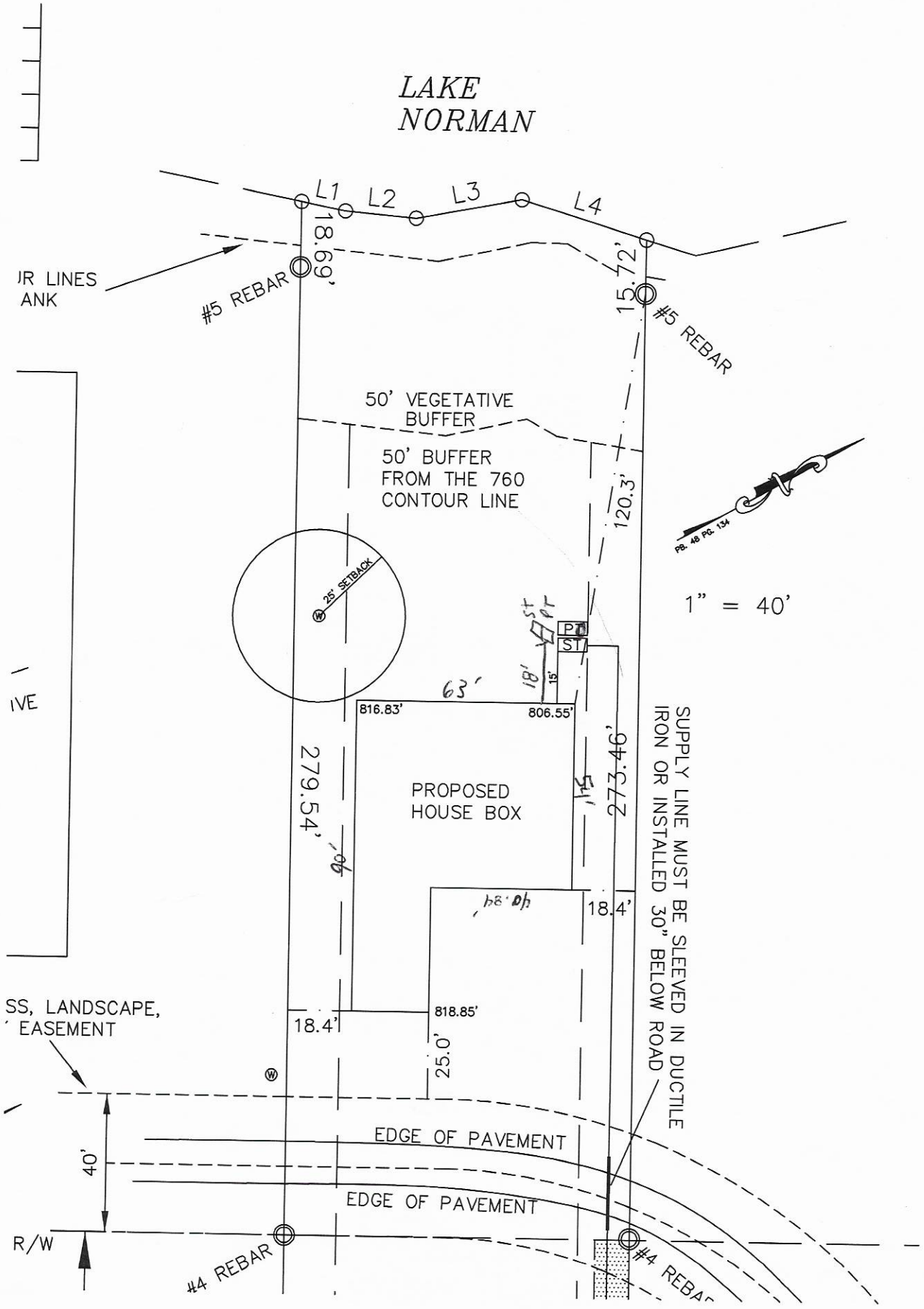
AUTHORIZATION TO CONSTRUCT by: Carla C. Cox Date: 10-16-19

Installed by: Craig Thompson Grading

OPERATION PERMIT by: Benjamin A. Bottling Date: 12-3-2020

Existing System Inspected by: – Date: –

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


LAKE
NORMAN
L1
L2
L3
L4
18.69'
15.42'
#5 REBAR
#5 REBAR
JR LINES
ANK
50' VEGETATIVE
BUFFER
50' BUFFER
FROM THE 760
CONTOUR LINE
120.3'
PB. 48 PG. 134
1" = 40'
25' SETBACK
IVE
63'
816.83'
806.55'
PROPOSED
HOUSE BOX
279.54'
273.46'
18.4'
818.85'
18.4'
25.0'
SS, LANDSCAPE,
EASEMENT
40'
EDGE OF PAVEMENT
EDGE OF PAVEMENT
R/W
#4 REBAR
#4 REBAR
SUPPLY LINE MUST BE SLEEVED IN DUCTILE
IRON OR INSTALLED 30" BELOW ROAD

34°16'59" E	20.57'
18°34'02" E	31.11'
45°51'47" E	37.78'

LAKE NORMAN

L1 L2 L3 L4

760 AND 761 CONTOUR LINES FOLLOW ALONG THE BANK

#5 REBAR

18.69'

15.72'

#5 REBAR

50' VEGETATIVE BUFFER

50' BUFFER FROM THE 760 CONTOUR LINE

120.3'

25' SETBACK

PT

ST

16'

816.83'

806.55'

279.54'

PROPOSED HOUSE BOX

273.46'

18.4'

818.85'

25.0'

SUPPLY LINE MUST BE SLEEVED IN DUCTILE IRON OR INSTALLED 30" BELOW ROAD

40' ACCESS, LANDSCAPE, & UTILITY EASEMENT

EDGE OF PAVEMENT

40'

EDGE OF PAVEMENT

R/W

#4 REBAR

#4 REBAR

10' SEPTIC SUPPLY LINE CROSSING EASEMENT

DUKE ENERGY CORPORATION TRANSMISSION LINE R/W

150'

N60°33'18"W 680.49' TOTAL

150.40'

LOT 4
1.57 AC.

150.43'

(BASE BEARING) S60°33'16"E 685.60' TOTAL

15' SETBACK

15' SETBACK

R/W

SPIKE NAIL

#4 REBAR

26.61'

#4 REBAR

LOT 3
WAYNE E. EDGE
2122/837

1 Y 82'

2 O 84' (B5)

3 R 86'

4 B 84'

5 Y 84' (B4)

6 O 99'

7 R 171' (B3)

8 B 44'

9 Y 28'

231.86'

219.38'

(B1)

LOT 5
TODD M. BRADFORD
2501/483

MAP NO SCALE

YROCK DR.

BUFFALO SHOALS ROAD

WINDINGWOOD DRIVE

WILDWOOD TAIL DR.

NOTES

PERTY MAY BE SUBJECT
EASEMENTS AND/OR
F WAY OF RECORD.
COMPUTED BY THE
ATE METHOD.
D POWER
MONUMENT FOUND WITHIN
T.

LEGEND

= P.P. = POWER PC

= POWER TRANS

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Accepted (25% reduction) Septic System with Pressure Manifold distribution for a 4 bedroom single family residence on Bridgeland Trail Subdivision Lot 4, (PIN #:4701943660), Statesville NC, 28677.

2602 Buffalo Shoals Road

Contents:

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LICENSED SOIL SCIENTIST Samuel A. Rollins STATE OF NORTH CAROLINA

8/5/19

August 5, 2019
Project No. 19-0072
Design By: Soil & Forestry Services of the Carolinas, PA

INFORMATION FOR THE INSTALLER:

- The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
- Tanks shall be approved by DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as an Accepted 25% reduction installation w/Pressure Manifold.
- Repair is specified as an Accepted 25% reduction installation w/Pressure Manifold.
- Rake trench walls, lime sidewalls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.
- **Supply line must be sleeved in ductile iron or installed 30" below road (Bridgeland Trail)**
- **Supply line must installed in 10' supply linie easement crossing Duke Energy R/W.**

PRESSURE MANIFOLD SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Walter Blalock
Address:	240 Corriher Grange Mooresville, NC 28115
Phone:	704.491.5938
County:	Iredell
Location:	Bridgeland Trail - Lot 4

Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	480 gpd
System Flow:	35.55

Design Specifications

Drainfield Size:	400
Loading Rate:	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Trench Depth:	30 in. Repair Trench Depth ~~30~~ 24" in. SAR
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000

Estimated Supply Line Length:	450
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	78.30
Dosing Volume:	182.84
Supply Manifold:	4 in. SCH 80 PVC
Supply Manifold Length:	4 ft. (minimum)
Supply Manifold Volume:	N/A

Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.

Pressure Head:	2 ft.
Friction Head:	10.67
Elevation Head:	29.50
Total Dynamic Head:	48.49

Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 at Pressure Manifold
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA.

Bridgeland Trail - Lot 4
PRESSURE MANIFOLD DESIGN

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.3
TOTAL AREA TRENCH BOTTOM:	1200
TOTAL LATERAL LENGTH:	400
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	400
SUPPLY LINE LENGTH:	450
TOTAL DYNAMIC HEAD:	48.49
MANIFOLD SIZE:	4 in.SCH 80 PVC
DOSING VOLUME:	182.84
PUMP TANK DRAW DOWN*:	8.7
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

Layout Specifications - Bridgeland Trail - Lot 4

Project #: 19-0072

LAYOUT FOR 4 BEDROOM HOME

August 5, 2019

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
HOUSE					818.85		
PUMP TANK					807.50		
MANIFOLD					832.00		
1	*YELLOW*				*830.40*	*82*	*80*
2	*ORANGE*				*830.68*	*84*	*80*
3	*RED*				*831.04*	*86*	*80*
4	*BLUE*				*831.64*	*84*	*80*
5	*YELLOW*				*831.74*	*84*	*80*
6	ORANGE				832.50	99	99
7	RED				832.63	171	171
8	BLUE				832.90	44	44
9	YELLOW				833.11	28	28
10	ORANGE				832.01	80	80
11	YELLOW				831.26	80	80
12	BLUE				830.46	78	78
					Total	1000	980

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*400*	*0.25 - 0.300*	*ACCEPT.*	*0.300*	*25% RED*	*PRESSURE MANIFOLD*
Repair	580	0.25 ~~- 0.300~~ SAR	*ACCEPT.*	~~0.300~~ 0.25 SAR	*25% RED*	*PRESSURE MANIFOLD*

Notes: **All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**Nitrification lines & house were located via survey.

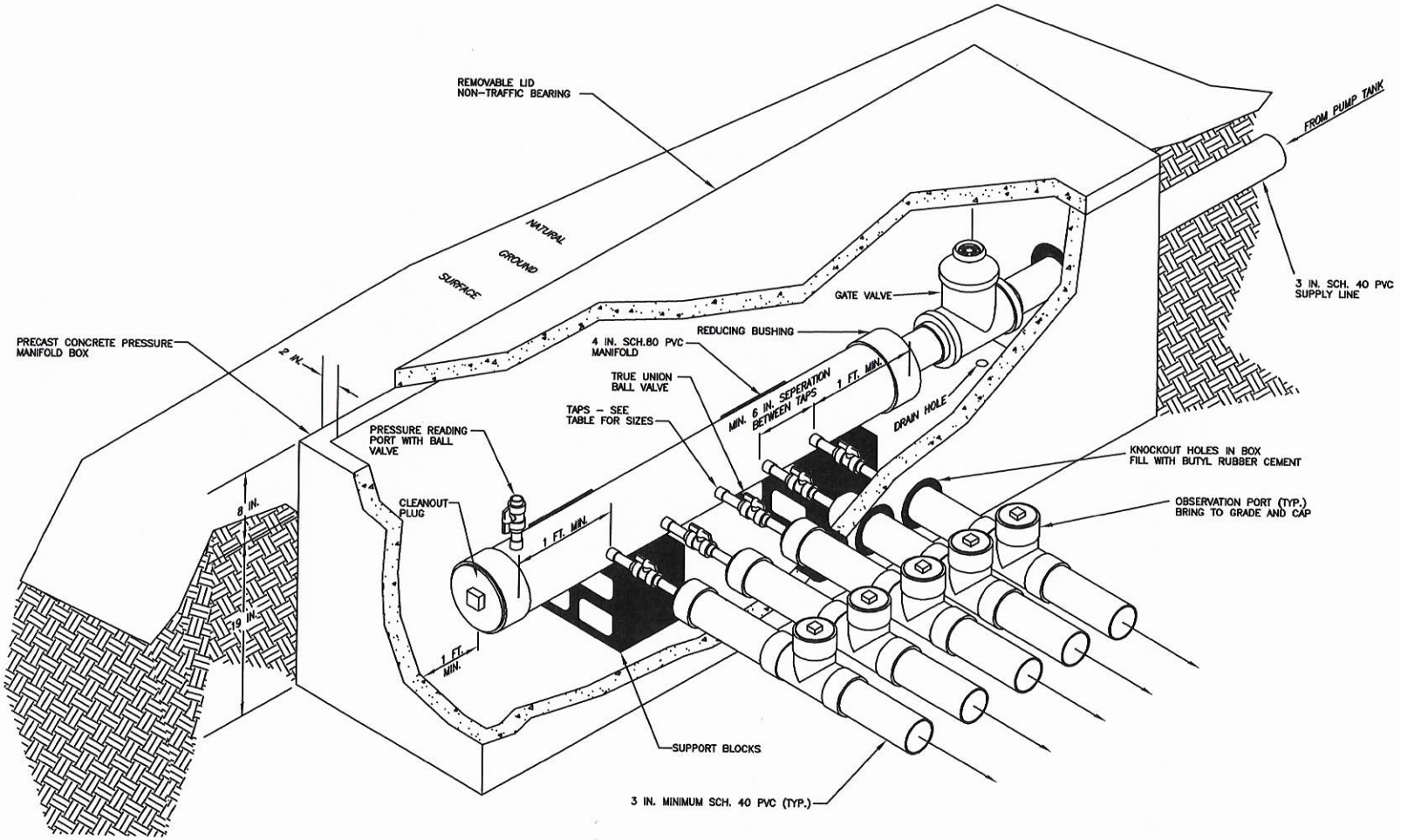
PRESSURE MANIFOLD TAPSHEET - Bridgeland Trail - Lot 4

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	Line LTAR
1	*YELLOW*	*830.40*	80	SCH 40 1/2	**7.11**	240	0.15
2	*ORANGE*	*830.68*	80	SCH 40 1/2	**7.11**	240	0.15
3	*RED*	*831.04*	80	SCH 40 1/2	**7.11**	240	0.15
4	*BLUE*	*831.64*	80	SCH 40 1/2	**7.11**	240	0.15
5	*YELLOW*	*831.74*	80	SCH 40 1/2	**7.11**	240	0.15

total	**feet =**	**400**	**gal/min =**	**35.55**
		Des. Flow	**480**	
		Pump Run=	**5.14**	
		soil LTAR	**0.3**	
		LTAR +5%	**0.315**	
		LTAR with ACCEPTED	**0.4**	
		LTAR with ACCEPTED + 5%	**0.42**	

TYPICAL PRESSURE MANIFOLD DETAIL



CALCULATIONS

Location	Bridgeland Trail Lot 4	
Project Number	19-0072	
Lot No:	4	
No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.300	gpd/ft^2
25% RED.? (YES OR NO)	YES	
Supply Line Length	450	ft.
Supply Line Volume	78.3	gal.
Required Feet of Line	400	ft.
Amount of Line from Layout	400	ft.
Gallons per Minute	35.55	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	261.2	gal.
Dosing Volume	182.84	gal.

Note: Dosing Volume based on 70% of lateral line volume

Tank Draw Down	8.7	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.14	minutes
Elevation Head	29.5	ft.
Pressure Head	2	ft.
Friction Factor	2.37	ft./100 ft. *(From the interpolater.)*
Friction Head	10.67	ft.
Total Dynamic Head (+15%)	48.49	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 2
PROPERTY ID #: 7019435660
COUNTY: Iredell

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

OWNER: Walter Blalock (Buyer)
ADDRESS: 240 Corriher Grange Mooresville NC 28115
PROPOSED FACILITY: 4BR
PROPOSED DESIGN FLOW (.1949): 480 gpd
LOCATION OF SITE: 130 Bridge Land Trail Statesville NC 28677
APPLICATION DATE
DATE EVALUATED: 6/10/19
PROPERTY SIZE: 1.57 ac
PROPERTY RECORDED: Yes

WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 1	4/5%	0-6	BCL wmsbk	Fr SS SP		48	–	–	PS .3 ✓
		6-48	RC wmsbk	Fr SS P					
B 2	4/5%	0-7	RBCL wfsbk	Fr SS SP		48	–	–	PS .25-.275 Chroma 2 e42
		7-30	RC wmsbk	F S P					
		30-48	RC/CL wfsbk/Abk	F SS SP	Few Fe Depl Few 3MP Inch. Cl. R 2.5 @ 45"+				
B 3	4/5%	0-6	BSL Gr	Fr SS SP		48	–	–	PS .275-.3 ✓
		6-30	BRC wmsbk	Fr S P					
		30-48	BRC wfsbk/Abk	F SS SP	Few Fe Depl. 46-48"				
B 4	4/40%	0-7	BBCL wfsbk	Fr SS SP		48	–	–	PS .3 ✓
		7-48	BRC wmsbk	Fr S P					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted	Accepted
Site LTAR	0.3	0.25-0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Rollans
OTHER(S) PRESENT: C. Wagner

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 470494366O
DATE OF EVALUATION: 8/2/19
COUNTY: Iredell

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B5	4/6%	0-5	Blgr	FrSSSPSExP		52	–	–	PS 0.3 ✓
		5-52	BRcwmsbk	" " " "					

RECEIVED AUG - 6 2019

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

#247277

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) 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 Paid $850.00

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: Walter Blalock Address: 240 Corriher Grange, mooresville NC Zip: 28115
Applicant Email: walter.blalock@edpisamerica.com Phone: 704-491-5138 Alt. Phone:
Owner Name: Wayne E Edge Address: Same Zip: Same
Owner Email: Same Phone: Same Alt. Phone:

Property Information:

Street Address: PIN 4701-94-3660.000, ~~130 Bridgeland Trail (Lot 4)~~ 2602 Buffalo Shoals Road Statesville NC 28677
Subdivision Name: Bridgeland Trail Section/Phase: Lot Number: 4
Driving Directions: Highway 70 (West) to Buffalo Shoals Rd. Take right onto Bridgeland Trail. Lot on right.

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

(X) 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: 8
( ) Swimming Pool
( ) Other Addition/Structure:
Non-Residential Site Development: Type of Business:
Square Footage of Building: Max. Number of Employees: Max. Number of Seats/Beds/Other:

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

Water Supply: ( ) Replacement Well – Reason:
( ) Multi-connection Well Number of Houses: Number of Persons:
(X) 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:
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional (4) Other: Accepted

Please answer the following to the best of your ability:
( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (X) 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: Walter Blalock 7-14-19
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

1. * APPLICANT AND OWNER ARE THE SAME. * (*Sign here*) _____

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative: *Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship*
In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:
Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form. If there are multiple property owners, then all property owners must sign the form that designates a legal representative.
By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

2. I, Walter Blalock, am the legal owner(s) of the property located at 2602 Buffalo Shoals Rd, Statesville NC 28677, identified as PIN (Parcel Identification Number) 4701943660, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) JR Wilson company, _____, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

Walter Blalock
Signature of Owner(s)

10/1/19
Date

Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

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Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form. If there are multiple property owners, then all property owners must sign the form that designates a legal representative.
By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

2. I, Wayne E. Edge, ~~am~~ is the legal owner(s) of the property located at 130 Bridgeland Trl-Lot 4 Statesville, NC, identified as

PIN (Parcel Identification Number) 4701-94-3660.000, located in Iredell County, North Carolina.

I do hereby authorize **(print legal representative/company name)** Walter Blalock + Ashley Rollins of Soil + Forestry Services of the Carolinas, PA, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

_____ 6-4-19
Signature of Owner(s) Date

Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

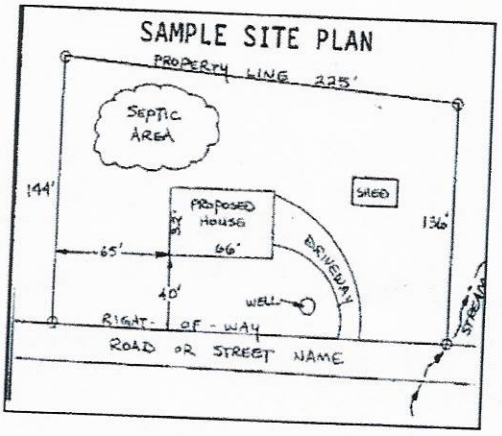
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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 OR WELL 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
- (X) Preferred well location
- (X) Preferred septic system location
- (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

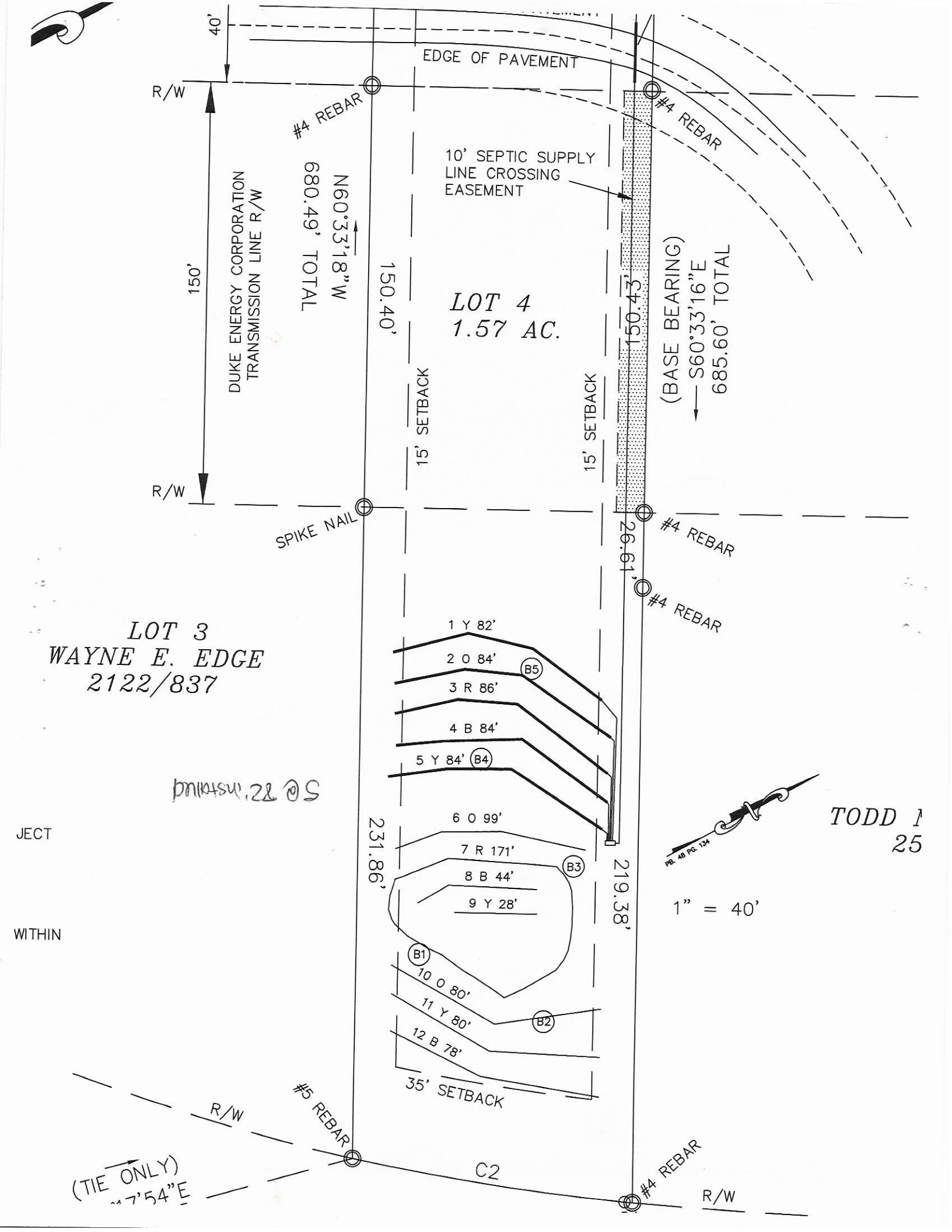
See Attached

Signature: Walter Bulk

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

7-14-19

DATE


40'
EDGE OF PAVEMENT
R/W
#4 REBAR
#4 REBAR
10' SEPTIC SUPPLY LINE CROSSING EASEMENT
150'
DUKE ENERGY CORPORATION TRANSMISSION LINE R/W
N60°33'18"W
680.49' TOTAL
150.40'
LOT 4
1.57 AC.
150.43'
(BASE BEARING)
S60°33'16"E
685.60' TOTAL
15' SETBACK
15' SETBACK
R/W
SPIKE NAIL
#4 REBAR
26.61'
#4 REBAR
LOT 3
WAYNE E. EDGE
2122/837
1 Y 82'
2 O 84'
B5
3 R 86'
4 B 84'
5 Y 84'
B4
6 O 99'
7 R 171'
B3
8 B 44'
9 Y 28'
231.86'
219.38'
B1
10 O 80'
11 Y 80'
B2
12 B 78'
35' SETBACK
PB. 48 PG. 134
1" = 40'
TODD
25
#5 REBAR
R/W
C2
#4 REBAR
R/W
(TIE ONLY)

Doc ID: 010049400006 Type: CRP
Recorded: 06/02/2006 at 02:45:05 PM
Fee Amt: $29.00 Page 1 of 6
Iredell County, NC
Brenda D. Bell Register of Deeds
BK 1753 PG 846-851

6

TATE OF NORTH CAROLINA)
)
COUNTY OF IREDELL)

ENCROACHMENT AGREEMENT

THIS ENCROACHMENT AGREEMENT ("Agreement") made and entered into this 4th day of May, 2006 by and between **DUKE POWER COMPANY LLC**, a North Carolina limited liability company d/b/a/ Duke Energy Carolinas, LLC (hereinafter "Duke"), 526 South Church Street, Charlotte, North Carolina, 28202, and **Old Bridge Home Owners Association, Inc.** (hereinafter "Old Bridge"), P.O. Box 3608, Mooresville, North Carolina 28117

WITNESSETH:

WHEREAS, Duke purchased certain easements and rights-of-way on property located in Iredell County, North Carolina, in a subdivision known as Old Bridge Subdivision, upon which it has placed a high tension electric transmission line, said rights-of-way being conveyed to Duke by those certain instruments recorded in Deed Book 481 at Page 91 in the Office of the Register of Deeds for Iredell County, North Carolina, and being 150 feet wide ("Right-of-Way"); and

WHEREAS, Old Bridge desires authority to encroach upon Duke's Right-of-Way for the purpose of installing and maintaining seven septic crossings, a road crossing, and a driveway easement (20 feet long), as more specifically described herein (the "Permitted Encroachments"); and

WHEREAS, Duke is willing to permit the Permitted Encroachments upon the Right-of-Way subject to the terms and conditions set forth herein.

Return To:
Duke Energy Corporation
c/o Heather P. Blum, Paralegal II
P.O. Box 1006 (EC03T)
Charlotte, North Carolina 28201-1006

NOW, THEREFORE, for and in consideration of One Dollar ($1.00) paid by Old Bridge to Duke, and other good and valuable consideration, the receipt, adequacy and sufficiency of which are hereby acknowledged. Old Bridge and Duke do hereby covenant and agree as follows with regard to the Permitted Encroachments:

1. Duke hereby consents to the installation and maintenance of seven septic supply line crossings, upon the Right-of-Way at the locations shown on that certain plat of the Old Bridge, Greenbay Forest, LLC, subdivision recorded in Book 48 at Page 134 in the Iredell County Registry (the "Plat") and designated as follows:

    a) Septic Supply Line Crossing Serving Lot 1; 10 feet wide and 150 feet long
    b) Septic Supply Line Crossing Serving Lot 2; 10 feet wide and 150 feet long
    c) Septic Supply Line Crossing Serving Lot 3; 10 feet wide and 150 feet long
    d) Septic Supply Line Crossing Serving Lot 4; 10 feet wide and 150 feet long
    d) Septic Supply Line Crossing Serving Lot 5; 10 feet wide and 150 feet long
    e) Septic Supply Line Crossing Serving Lot 6; 10 feet wide and 158 feet long
    f) Septic Supply Line Crossing Serving Lot 7; 10 feet wide and 158 feet long

2. Duke hereby consents to the installation of the following main road crossings upon the Right-of-Way at the locations shown on the Plat:

    a) Main road crossing at the southeast corner on Lot 6 near Line 4
    b) Main road crossing the Right-of-Way on Lot 5 near Curve 2 and Line 5
    c) Main road crossing at the northwest corner of the Right-of-Way on Lot 4 near Curve 3

3. Duke hereby consents to the installation of a driveway upon the Right-of-Way at the location on Lot 5 designated on the Plat as "20 feet wide Driveway Easement to Lot 6, at the location shown on the Plat."

4. Duke hereby consents to the installation of a 20 feet wide driveway upon the Right-of-Way on Lot 7.

5. Old Bridge and/or its contractors shall be responsible for marking and describing in detail that an underground septic sewer line crossing is present on the Right-of-Way and is serving each lot. Said markings shall be placed in three (3) separate

locations on the Right-of-Way: at each edge of the Right-of-Way and in the center of the Right-of-Way.

6. Old Bridge and/or its contractors shall be responsible for contacting Duke and obtaining Duke's permission in writing, which may be withheld or conditioned at Duke's sole discretion, prior to commencing any work or operating any equipment on the Right-of-Way that could jeopardize the safety and/or reliability of Duke's transmission line.

7. Old Bridge and/or its contractors shall maintain a safe work clearance under the transmission line as defined by Duke engineering calculations. Old Bridge and/or its contractors shall obtain Duke's specification for such safe work clearance in writing prior to any work being performed or equipment being operated near the transmission line.

8. Old Bridge and/or its contractors will maintain and communicate safe work practices under the transmission line and around associated transmission equipment.

9. Old Bridge and/or its contractors shall indemnify and hold Duke harmless from and against any and all liability for personal injury (including death) or property damage to the extent such injury or damage shall result from, arise out of, or be attributable to, any construction work, maintenance work, or operations undertaken by Old Bridge and/or its contractors upon the Right-of-Way or otherwise, and from any use of the private drive by any persons. Such indemnification shall be effective even in cases where Duke has given permission for certain work.

10. Duke, its agents, officers and employees, shall not be held responsible for any damage to the encroachment caused by or arising from the operation, inspection, maintenance, repair, construction or reconstruction of its line(s) within the Right-of-Way.

11. Old Bridge acknowledges that Duke has an easement and right-of-way interest only on the property described herein and that Old Bridge shall be solely responsible for obtaining permission for the encroachment from the owner of the property. Duke's consent granted herein shall not be deemed to be the consent of the property owner.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed and sealed as of the date and year below written.

DUKE POWER COMPANY LLC,
a North Carolina limited liability company
d/b/a Duke Energy Carolinas, LLC

By: George W. Christian
Name: George W. Christian, Jr.
Title: Manager, Real Estate Acquisitions and Valuations

STATE OF NORTH CAROLINA
COUNTY OF MECKLENBURG

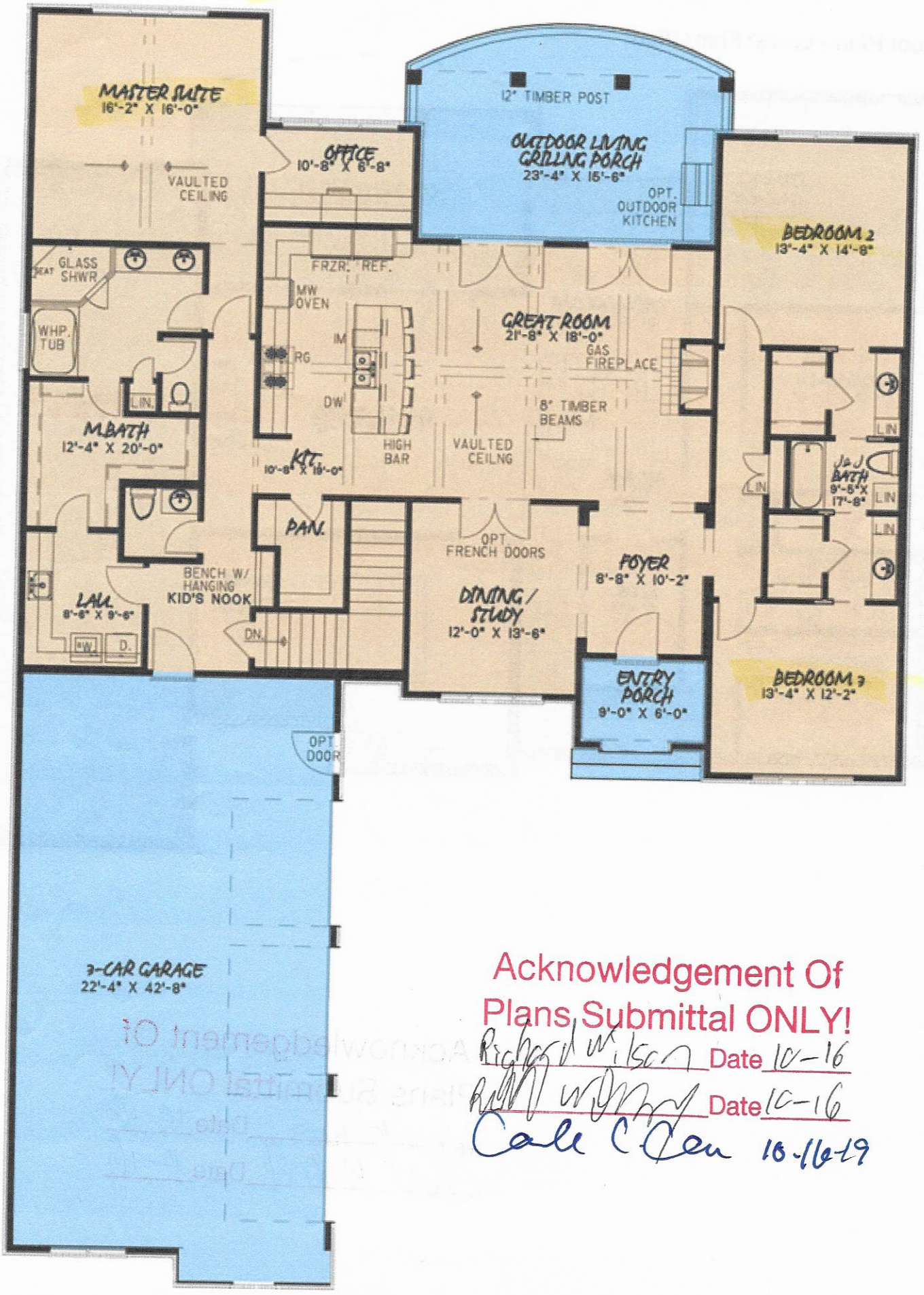
I, Ellen Whitlock, a Notary Public for said County and State, certify that George W. Christian, Jr. personally came before me this day and acknowledged that he is Manager, Real Estate Acquisitions and Valuations of Duke Power Company LLC, a North Carolina company, d/b/a Duke Energy Carolinas, LLC, and that he, as Manager, Real Estate Acquisitions and Valuations, being authorized to do so, executed the foregoing on behalf of the corporation.

WITNESS my hand and official seal this 4th day of May, 2006.

Ellen Whitlock
Notary Public

My Commission Expires: 12-25-2008 Ellen Whitlock

OFFICIAL SEAL
Notary Public, North Carolina
County of Gaston
ELLEN WHITLOCK



Acknowledgement Of Plans Submittal ONLY!

Richard Wilson Date 10-16

Date 10-16

Cale C Dan 10-16-19

IREDELL COUNTY

PO Box 788
349 North Center St.
Statesville, NC 28677

APPLICATION NUMBER
247277
Issue Date: 08/06/2019

ZONING PERMIT

Residential

Parcel Number	Street Address	Jurisdiction
4701943660.000	2602 BUFFALO SHOALS ROAD, STATESVILLE, NC 28677	

Owner Information	Applicant Information
Owner: EDGE WAYNE EDWARD	Applicant: BLALOCK, WALTER
Address: 31831	Address: 240 CORRIHER GRANGE
IREDELL CO, NC 28625	MOORESVILLE, NC 28115
Phone:	Phone: 704-491-5938

Use Requested	Zone Code
SFD	

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
1.570	35.00	50.00	15.00	15.00	CACL	AE

Remarks:

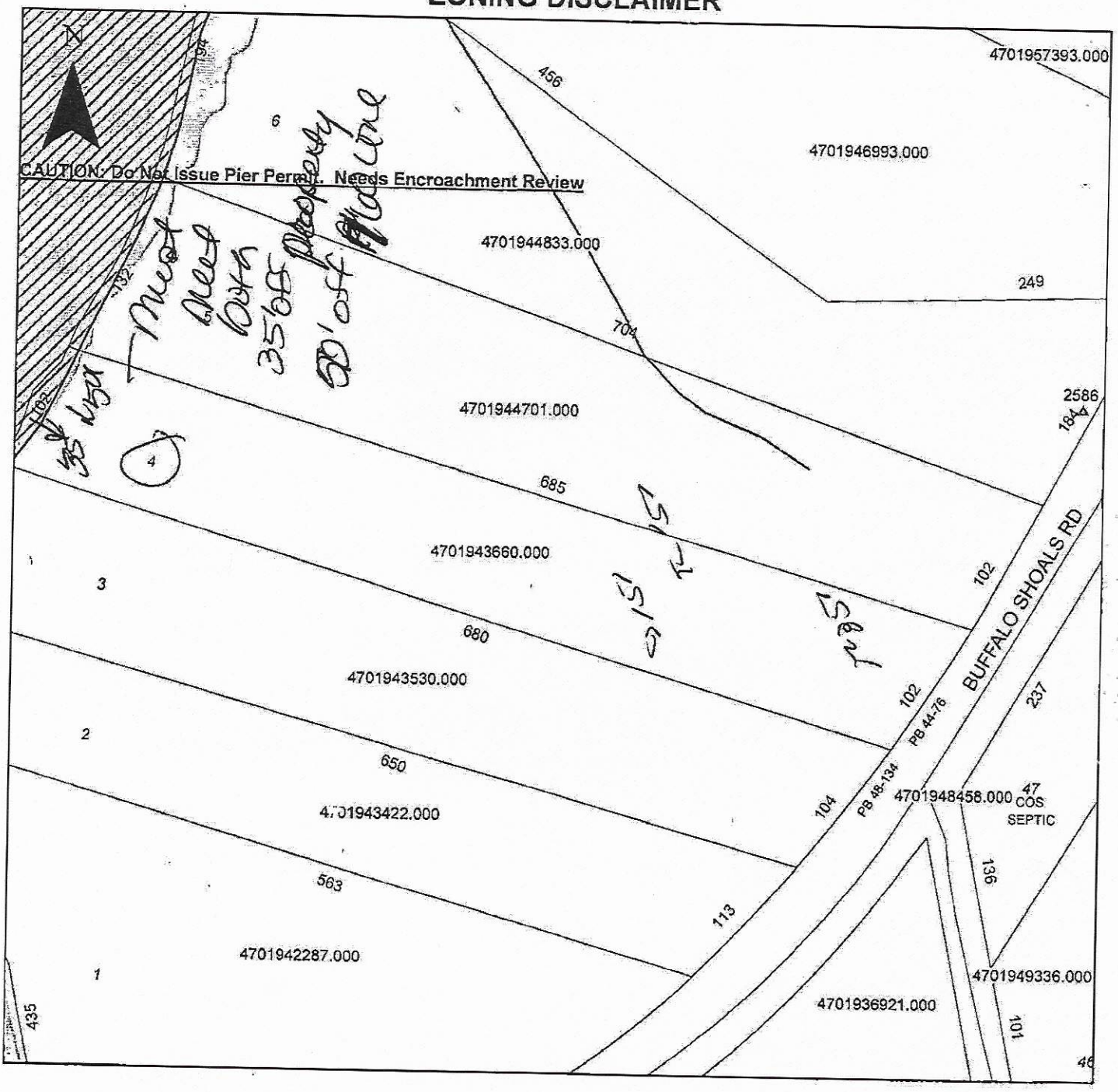
Lake Lots: Must meet both the 50-foot setback from the 760 Æ contour line and the 35-foot setback from the rear property line for any structure.

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. The applicant further acknowledges that enforcement of deed restrictions, plat conditions and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

Applicant: _____ Date: _____

Permit Number	187832	TOTAL FEES:	$ 77.25

ZONING DISCLAIMER



Property Address _____

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. Applicant further acknowledges that the enforcement of deed restrictions, plat conditions, and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

Samuel A Keller

Applicant

8/5/19

Date