IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 215023

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

PIN # 4646-65-7357.000

APPLICANT: TRYON CRAFT BUILDERS APPLICANT ADDRESS: 2929 SHADY BROOK LN. LINCOLNTON NC

SITE ADDRESS: 268 BRIDGEWATER LN. MOORESVILLE NC PHONE: 828-429-0624 ALT. PHONE: 980 429 0624

SITE DIRECTIONS: 77 S, TO EXIT 33, TR, TR BRIDGEWATER LN. SITE ON R

SUBDIVISION: BRIDGEWATER LANDING SECTION: — LOT # 7 LOT AREA: 0.91 ACRE DESIGN FLOW: 480 GPD L.T.A.R.: .3

Septic Tank	1000 (gal)	STB	Plastic	Date	Infrador		
Pump Tank	1000 (gal)	PT		Date			
Pump Make	ZOELLER	Model	N153	Serial #			
# Nitrification Fields	1	# Lines	3 @ 90'	Linear Ft:	267'		
Trench Width	24"	Max. Trench Bottom Depth	* 36" *	Gravel Depth	N/A		

☑ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI

System Description: LP-PPBPS

Repair System Description: LP-PPBPS

Maintenance Agreement Required: ☑ YES ☐ NO

☐ GRAVITY ☑ PRESSURE

☑ Residence No. Bedrooms 4

☐ Business No. Persons 8

☐ Other No. Employees

☑ Slab (GARAGE) ☐ Crawl Space

☑ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☑ Private ☐ Public ☐ Community

Comments / Conditions: EXISTING SYSTEM WAS REMOVED @ TIME OF GRADING PRIOR TO EVALUATION. EXISTING PIT REMAINS. COVER EXISTING PIT WITH MINIMUM 6" COVER; INSTALL NEW SYSTEM @ 36" TRENCH BOTTOM; EXISTING TANK WAS CRUSHED & FILLED PRIOR TO SITE VISIT. IF FILLED TANK IS ENCOUNTERED DURING INSTALL, HARD PIPE ACROSS ANY FILL MATERIAL. MAINTAIN 15' FROM CENTER OF POWER LINES. FOLLOW ALL NC SEPTIC RULES.

INITIAL SITE SKETCH

SEE ATTACHED / APPROVED

DESIGN BY ROLLANS

SOIL & ENVIRO. SERVICES

AS BUILT SKETCH

6/24/16 Reviewed Floor plans, in compliance with Septic plan

9/23/16 Checked ST/PT Plastic tanks

11-9-16 CHECKED 1ST LINE BA

11-10-16 CHECKED REST OF DRAWFIELD BA

11:30

	Date	Initials
Drain Lines Checked	11-10-16	BA
Tanks Checked	9/23/16	MD
Pressure Manifold or Valve Box Checked	11-16	BA
Pressure Head Set	11-16	BA
Electrical Checked	1-11-17	BA
Floats Set	11-16	BA
Alarm Checked	1-11-17	BA
Maintenance Contract (Y) / N	1-11-17	BA

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: [signature] Date: 6/24/16 Installed by: [signature] Dellinger 3A-0029

IMPROVEMENT PERMIT by: [signature] APPROVED JUN 21 2016 OPERATION PERMIT by: [signature] Date: 1-11-17

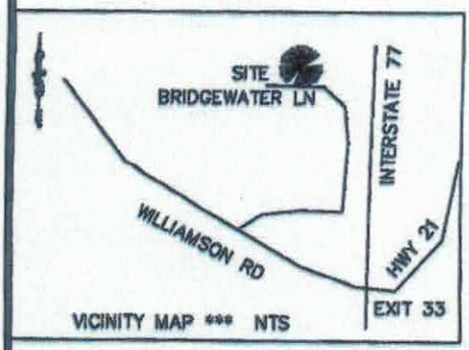
AUTHORIZATION TO CONSTRUCT by: Maria Dotson Date: 6/24/16 Existing System Inspected by: [signature] Date:

Health Dept. Copy - WHITE Applicant (Final Approval) - YELLOW Applicant (Conditional Approval) - PINK

plat book ____, page ____, that the ratio of precision is 1:10,000, that this map was prepared in accordance with the General Statutes of North Carolina, Chapter 89C. my hand and seal on the 23, day of MAY, A.D. 20

NORTH CAROLINA PROFESSIONAL SEAL L-3508 LAND SURVEYOR DOUGLAS L. DOWELL JR.
Douglas L. Dowell Jr 5/2/08

LAKE NORMAN



VICINITY MAP *** NTS

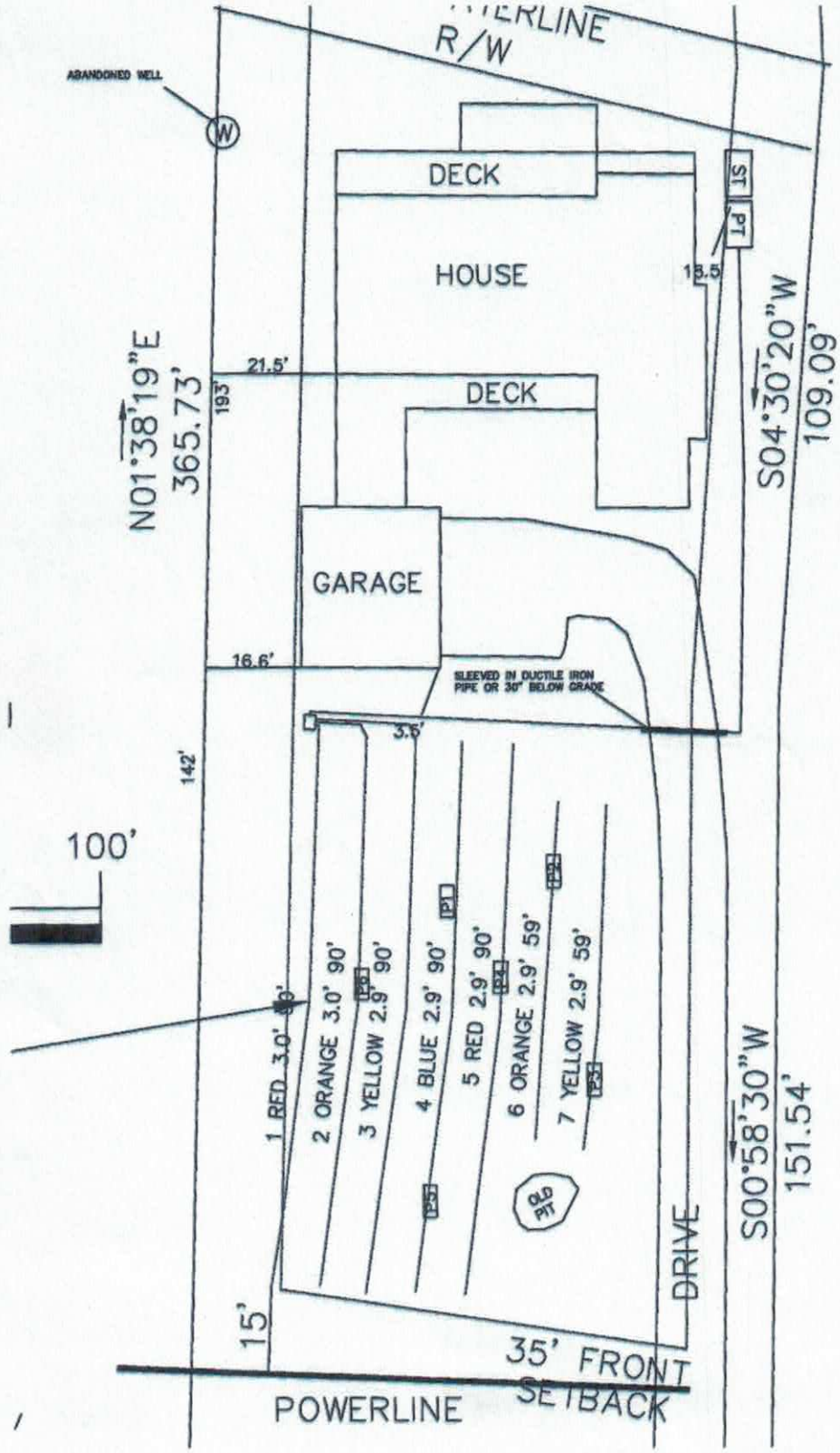
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NOTES
1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) OVER HEAD POWER
4) THAT THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND.
5) NO TITLE DOCUMENTS SUPPLIED FOR THIS SURVEY.

LEGEND
P.P. = POWER POLE
DUKE POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
W = WELL

N49°06'49"E 34.71'
N46°17'30"E 39.50'
S15°11'49"W 45.42'
N75°09'38"E 54.15'
35' REAR YARD
15' SIDE YARD
15' SIDE YARD
LOT 7
0.91 AC
S02°25'58"E 140.32'
15' WATERLINE R/W
DECK
HOUSE
DECK
GARAGE
N01°38'19"E 365.73'
S04°30'20"W 109.09'
KEVIN M DAVIDSON
2378/1751
DONALD C MATHESON
1050/1589
0' 25' 50' 100'
SCALE IN FEET
1" = 50'
PROPOSED SEPTIC FIELD
1 RED 3.0' 90'
2 ORANGE 3.0' 90'
3 YELLOW 2.8' 90'
4 BLUE 2.5' 90'
5 RED 2.5' 90'
6 ORANGE 2.5' 89'
7 YELLOW 2.5' 38'
S00°58'30"W 151.54'
DRIVE
15'
35' FRONT SETBACK
POWERLINE
N81°32'02"W 100.24' (TIE ONLY)
N81°36'22"W 101.58'
N89°32'25"W 35.04'
KEVIN M DAVIDSON
947/771
BRIDGEWATER LANE
SR 1206
60' PUBLIC R/W

OK THD
APPROVED JUN 2 1 2016



OK TEHD

APPROVED JUN 2 1 2016

1" = 30'

RECEIVED JUN 3 2016

ROLLANS ***Soil & Environmental Services, PA.***
P.O. Box 832, Mooresville, NC 28115 Phone: (704) 746-5046 Fax: (704) 278-0989

Ashley Rollans, NC Licensed Soil Scientist
Mobile: (704) 746-5046
Email: rollans.ashley@yahoo.com

Attached is a proposed design for a PPBPS Septic System with Low Pressure distribution for a 4 bedroom single family residence on Bridgewater Landing Lot # 7 (PIN# 4646657357), Bridgewater Lane, Iredell County, North Carolina.

A
268

Contents: **Page**

Information for the Installer---------- 1

Design Information
- Design Specifications---------- 2-3
- Layout Specifications---------- 4
- System Tapsheet---------- 5

Site Plan/System Plan---------- 6-8

Calculations---------- 9

Profile Descriptions---------- 10-11

Septic Application----------SUBMITTED

Zoning Permit & Receipt----------SUBMITTED

Agent Authorization----------SUBMITTED

Expedited Review Process Checklist---------- 12

LICENSED SOIL SCIENTIST Samuel A. Rollans 1231 STATE OF NORTH CAROLINA

6/8/16

June 1, 2016
Project #: 01-3145
Design By: Rollans Soil & Environmental Services, 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 NC DENR, 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.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- 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 a PPBPS installation with low pressure distribution.
- Repair is specified as a PPBPS installation with low pressure distribution.
- Backfill 4 - 6" of material (County Approved) over panels, rake trench walls, lime side-walls, install trenches 24" wide and have no more than 1/4" fall in 10 feet.

LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Jeff Jackson
Current Address:	P.O. Box 3484 Mooresville, NC 28117
Phone:	980.429.0624
County:	Iredell
Location:	268 Bridgewater Lane
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480 gpd
System Flow:	25.83

Design Specifications

Drainfield Size:	270
Loading Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Trench Depth:	36 in., Repair 36 in. Trench Depth
Trench Width:	24 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	170
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	29.58
Dosing Volume:	151.96
Supply Manifold:	N/A
Supply Manifold Length:	N/A
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:	3.03
Elevation Head:	20.50
Total Dynamic Head:	29.35
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 per lateral
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Rollans Soil & Environmental Services

O/L Ltr'd

APPROVED JUN 2 1 2016

268 Bridgewater Lane
LP PPBPS

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	540
TOTAL LATERAL LENGTH:	270
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	266.6666667
SUPPLY LINE LENGTH:	170
TOTAL DYNAMIC HEAD:	29.35
MANIFOLD SIZE:	N/A
DOSING VOLUME:	151.96
PUMP TANK DRAW DOWN*:	7.2
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.*

OK ICH

APPROVED JUN 2 1 2016

268 BRIDGEWATER LANE (BRIDGEWATER LANDING LOT # 7)

Project #: 01-3145

LAYOUT FOR 4 BEDROOM HOME

June 1, 2016

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		3.3			100.00		
INSTR. 1			103.30				
HOUSE CNR				3.50	99.80		
P. TANK				18.50	84.80		
1	***RED***			***3.00***	***100.30***	***90***	***90***
2	***ORANGE***			***3.00***	***100.30***	***90***	***90***
3	***YELLOW***			***2.90***	***100.40***	***90***	***90***
4	BLUE			2.90	100.40	90	90
5	RED			2.90	100.40	90	90
6	ORANGE			2.90	100.40	59	59
7	YELLOW			3.00	100.30	59	59
					Total	**568**	**568**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***270***	***0.300***	***MOD.***	***0.350***	***PPBPS***	**LOW PRESSURE**
Repair	298	0.300	***MOD.***	0.350	***PPBPS***	LOW PRESSURE

Notes:

** TBM located on top of ground at EIP (SEE SITE PLAN)
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings

OK ELHD
APPROVED JUN 2 1 2016

LP PPBPS TAPSHEET -Bridgewater Landing Lot # 7

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
1	*RED*	*100.30*	*90*	*0.156*	*0.41*	*270*	*21*
2	*ORANGE*	*100.30*	*90*	*0.156*	*0.41*	*270*	*21*
3	*YELLOW*	*100.40*	*90*	*0.156*	*0.41*	*270*	*21*

total	feet =	270	gal/min =	25.83	63
		Des. Flow	480		
		Pump Run=	5.88		
		soil LTAR	0.3		
		LTAR +5%	0.315		
		LTAR with mod.	0.6		
		LTAR with mod.. + 5%	0.63		

.156 equals 5/32 inch hole

OIC Tech

APPROVED JUN 2 1 2016

CALCULATIONS

Location	Bridgewater Landing Lot # 7	
Project Number	01-3145	
Lot No:	7	
No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	170	ft.
Supply Line Volume	29.58	gal.
Required Feet of Line	266.6667	ft.
Amount of Line from Layout	270	ft.
Gallons per Minute	25.83	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Pump Tank Capacity	1000	gal.
Panel Volume	3.6	gal.
# of Panels	63	
Dosing Volume	151.96	gal.

Note: Dosing Volume based on 67% of # of panels times 3.6 gal/panel

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

Tank Draw Down	7.2	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.88	minutes
Elevation Head	20.5	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	3.03	ft.
Total Dynamic Head (+15%)	29.35	ft.

OK TDH

APPROVED JUN 2 1 2016

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

Sheet 1 of 2
PROPERTY ID #: 464665
COUNTY: Iredell

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

OWNER: Jeff Jackson
ADDRESS: P.O. Box 3484 Mooresville NC 28117
PROPOSED FACILITY: 4-BR Single Family PROPOSED DESIGN FLOW (.1949): 480 gpd
LOCATION OF SITE: 268 Bridge Water Lane, Mooresville NC 28117
WATER SUPPLY: ☐ Private ☐ Public ☑ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut

APPLICATION DATE 5/2016
DATE EVALUATED: 4/2016
PROPERTY SIZE: .914c
PROPERTY RECORDED:
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
P 1	L/4%	0-32	RYCL wmsbk/mbk	Fr SS SP	Few to C SHP	32"			PS .35-.4
		32-88	VAR L/SL MASS	Fr SS SP	Few Rock Incln.				
P 2	L/5%	0-12	RC wmsbk	F SS SP	Few SHP	24"			PS .35-.4
		12-24	RBCL wfsbk	Fr SS SP					
		24-96	VAR SL/L MASS	Fr SS SP					
P 3	L/5%	0-12	RC wmsbk	F SS SP	Few to C SHP				PS .35
		12-40	RCL wfsbk	Fr SS SP					
		40-90	VAR L/SL MASS	Fr SS SP					
P 4	L/4%	0-14	RBC wmsbk/sbk	F SS SP	Few to C SHP				PS .35
		14-40	RBCL wmsbk	Fr SS SP					
		40-90	VAR L/SL MASS	Fr SS SP					

APPROVED JUN 9 2016
.35
IEMP

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	0.3-0.4	0.3-0.4
Site LTAR	PPBPS	PPBPS

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Williams
OTHER(S) PRESENT: Chad Wagner SC

COMMENTS:

SOIL/SITE EVALUATION

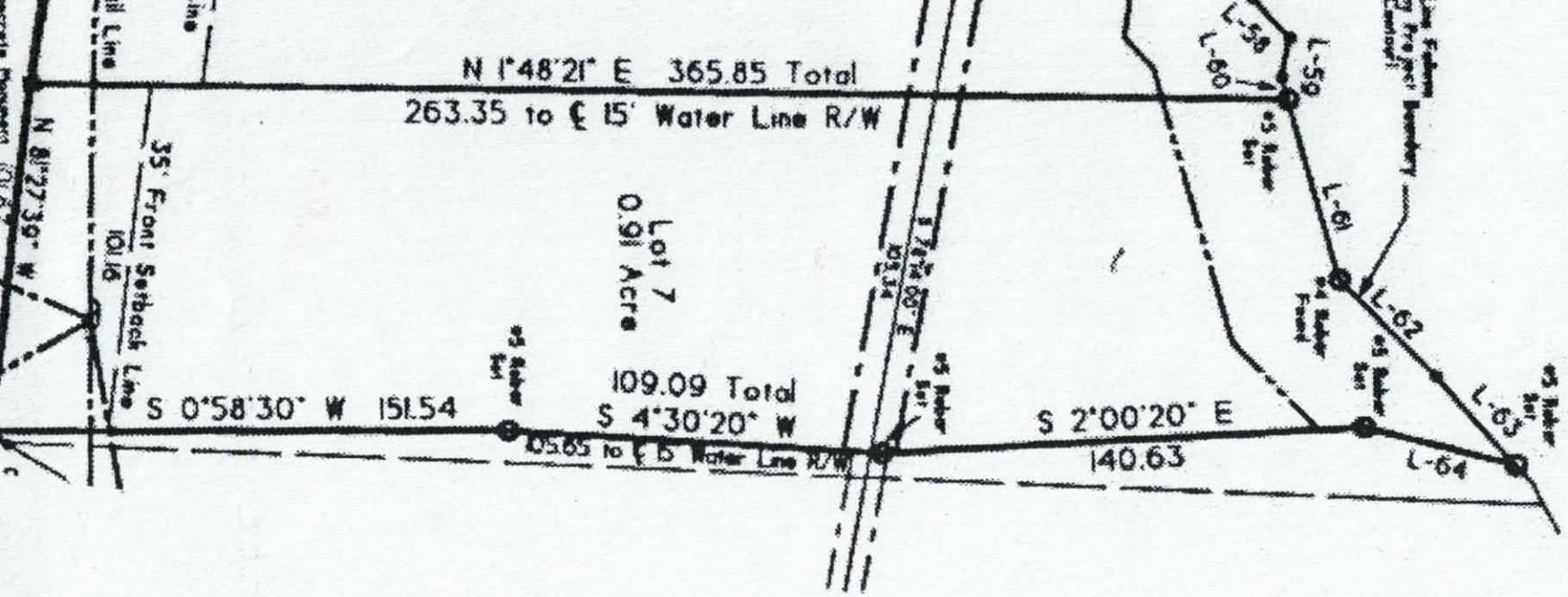
(Continuation Sheet-Complete all field in full)

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

PROPERTY ID #: 4646573572
DATE OF EVALUATION: 4/2016
COUNTY: Iredell

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
P5	L/4%	0-44	RC wmsbk	F SS P	few SAP	78"		APPROVED JUN 2 1 20 IND	~~PS~~ PS, 3-.35 .3
		44-78	RBCL wmsbk	Fr SS SP					
P6	L/4%	6-17	RC wmAbk	F SS P	C. SAP			APPROVED JUN 2 1 20 IND	.325-.35
		17-33	RBCL wfsbk	Fr SS SP					
		33-68	VAR L/SL MASS	Fr SS SP					

COMMENTS:



1" = 50'

R/W is for waterline

100' from system on Lot 6 w/ well

4646-05-8265
4646-05-8851

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

(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)

1. **APPLICATION FOR:** ___Improvement Permit ✓ **Authorization To Construct** ___ Existing System Inspection

2. 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 check ( ) beside whichever is submitted if applicable ___Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. **Applicant Information:**

Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
TrueCraft Builders	2929 Shady Brook Ln	Caleb 980-429-0624	
Owner Name	Mailing Address	Home Phone #	Alternate Phone #
Jeff Jackson	1178 Park Cir Lincolnton NC		704-654-7080

4. **Property Information:**

Street Address	Subdivision Name	Section/Phase and Lot Number
268 Bridgewater		

Driving Directions: Hwy 150 west, turn left on Williamson Rd., Aproximately 4 miles turn left onto Bridgewater Ln. (beside Food lion) house is on Right

5. **RESIDENTIAL Site Development Information:** *(Check or Complete ALL that apply)*

(✓) New, Single Family Residence — Maximum Number of Bedrooms 4 — ( ) Crawl Space Foundation?
( ) New, Multi-Family Residence — Maximum Number of Occupants ___ — ( ) Concrete Slab Foundation?
( ) Expansion of Existing Septic System — If Expansion, Current Number of Bedrooms ___ — ( ) Basement w/Plumbing?
( ) Repair To Failing Septic System due to ___ — ( ) Basement w/out Plumbing?
( ) Other ___

IF Non- Residential Site Development: Type of Business ___
Square Footage of Building ___
Maximum Number of Employees ___
Maximum Number of Seats ___

6. **Proposed Water Supply:**

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

7. **Desired Septic System Type:** *(You may rank in order of preference, if any)* ( ) EXISTING SYSTEM installed ____ *Year*

( ) Alternative ( ) Conventional (✓) Innovative ( ) Modified Conventional ( ) Other ____

8. **Please Answer The Following** ( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
   To The Best of Your Ability: ( ) Yes (✓) No Is any non-domestic sewage (i.e. industry) 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.

9. **Signature:** ___ 6/22/16
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

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.

I, Jeffery N. Jackson, am the legal owner(s) of the property located at 268 Bridgewater Dr., Mooresville, NC 28117, identified as PIN (Parcel Identification Number) _____, located in Iredell County, North Carolina.

I do hereby authorize (print legal representative/company name) Caleb P. Williams, True Craft Builders, Inc., 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.

Signature of Owner(s)	Date	Signature of Witness	Date
	5/11/2016		5-11-16

Please return this signed form to the appropriate office:

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

Paid $500. ~~00~~ EFT RECEIVED NOV 23 2015

Accom 05/43 ~~Address~~ 01503

IREDELL COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION # 215023

(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) Paid $700.00

1. APPLICATION FOR: ✓ Improvement Permit ___ Authorization To Construct ___ Existing System Inspection

2. 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 check ( ) beside whichever is submitted if applicable ___ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

TriveCraft Builders Inc 2939 Shady Brook Ln, Lincolnton NC		828-429-0624
Applicant Name / Mailing Address	Home Phone #	Alternate Phone #
Jeff Jackson		
Owner Name / Mailing Address	Home Phone #	Alternate Phone #

4. Property Information:

268 Bridgewater Ln. Mooresville 4	268 Bridgewater Landing Bridgewater Landing	Lot 7
Street Address	Subdivision Name	Section/Phase and Lot Number

Driving Directions: 77 South to Exit 33 turn right at light right onto Alcove Rd. 3/4 Mile

5. RESIDENTIAL Site Development Information: *(Check or Complete ALL that apply)*

(✓) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
(✓) Repair To Failing Septic System due to _____
( ) Other _____

Maximum Number of Bedrooms 4
Maximum Number of Occupants 2
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
(X) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non-Residential Site Development: Type of Business / Square Footage of Building / Maximum Number of Employees / Maximum Number of Seats

PAID NOV 23

6. Proposed Water Supply:

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

7. Desired Septic System Type: *(You may rank in order of preference, if any)* ( ) EXISTING SYSTEM installed ____ Year

( ) Alternative (✓) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other _____

8. Please Answer The Following ( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
To The Best of Your Ability: ( ) Yes (✓) No Is any non-domestic sewage (i.e. industry) 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.

9. Signature: Cody Miller 11/8/15
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

B5743

dotloop signature verification:

AUTHORIZATION TO ACT AS AGENT FOR OWNER

Any application/document/permit requiring a signature must be signed by the property owner or their authorized agent. This form shall be provided by the owner to allow specified individuals to act as agents for the owner. This form allows the specified individuals to sign or receive any application/document/permit on behalf of the owner. This form allows the authorized agent to make decisions on behalf of the owner pertaining to modifications of permits in the field. It is the responsibility of the owner to assure that any/all permit conditions specified on permits issued by this Division are followed.

I, Greta Watts, am the legal owner of the property located at 268 Bridgewater Lane, Mooresville, identified as PIN(Parcel Identification Number) 4646-65-7357, located in Iredell County, North Carolina.

I do hereby authorize (print authorized agent/company name) Jeff Jackson, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

1. Improvement Permit (IP)/ Authorization to Construct (AC).
2. Application for soil-site evaluation (new/repair).
3. Application/permit for water well/well abandonment.
4. Application for existing system.
5. Application for Improvement Permit (IP)/ Authorization to Construct (AC).

I agree to abide by any and all decisions and/or conditions between the agent acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division. This form must be fully executed before the individual's specified above will be recognized as the authorized agent.

Greta Watts — dotloop verified 11/17/15 3:34PM EST FMER-VCNM-JWGI-JCN9

Date

Aaron Marshall — dotloop verified 11/17/15 1:01PM EST U3XO-CBOK-KE58-SVTN

Signature of Witness Date

Please return this signed form to the appropriate office:

Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115
or
Statesville - Environmental Health
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*:

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:

_____ Property Line measurements are clearly identified… **_____ All proposed structures are indicated…**

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

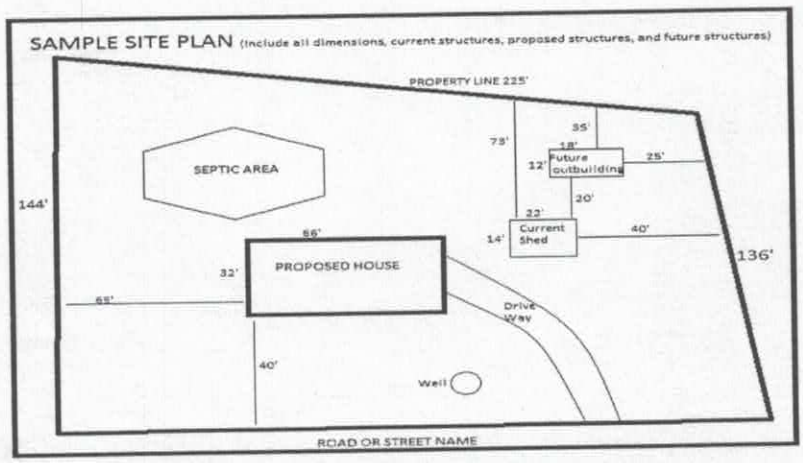
_____ Front and side setbacks from property line… **_____ Preferred driveway location and configuration, preferred well location…**

_____ Area you prefer your septic system to be placed… **_____ North arrow, or other sufficient indicator of direction…**

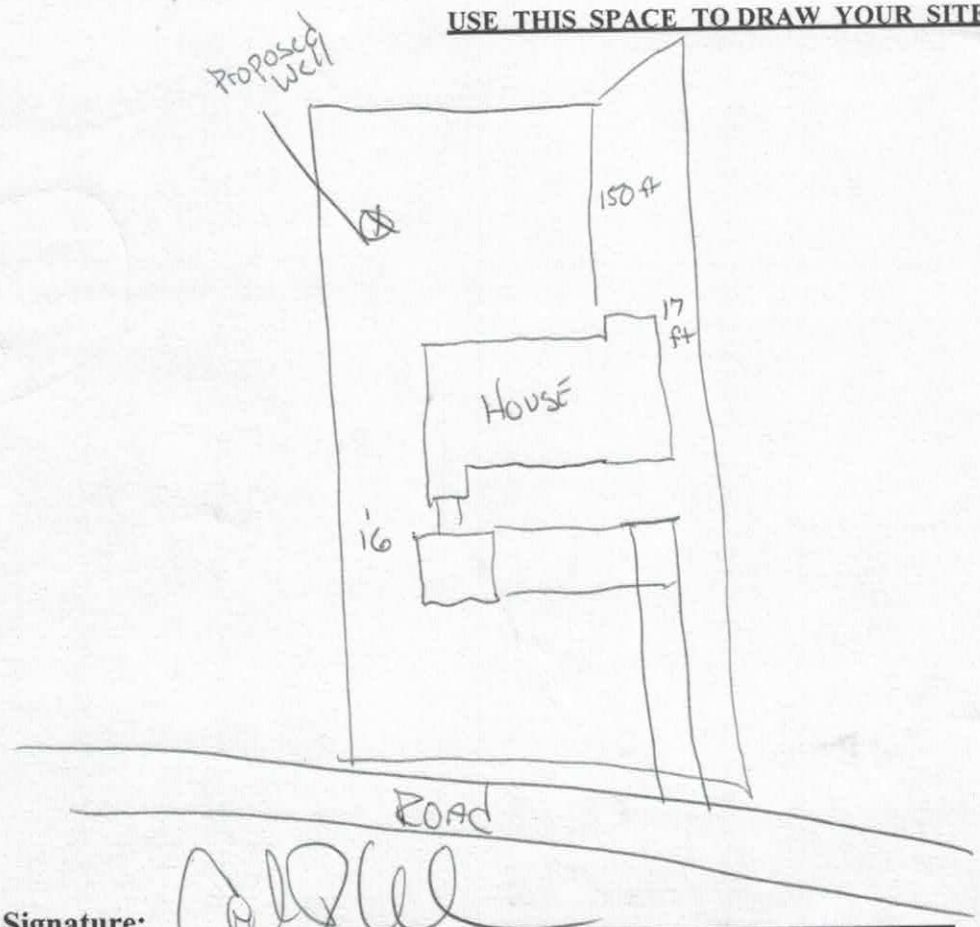
Circle N/A on the following if appropriate:

_____ 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



Signature: _____ 6/22/16

REQUIRED **property owner or owner's legal representative signature.** **DATE**

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION:*

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:

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

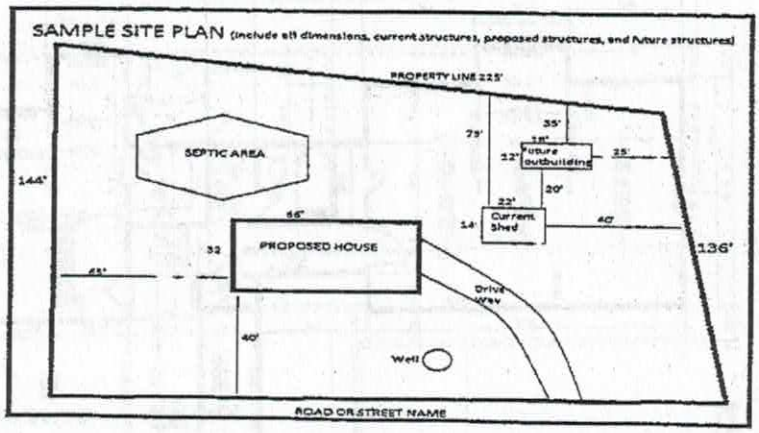
_____ Front and side setbacks from property line... _____ Preferred driveway location and configuration, preferred well location...

_____ Area you prefer your septic system to be placed... _____ North arrow, or other sufficient indicator of direction...

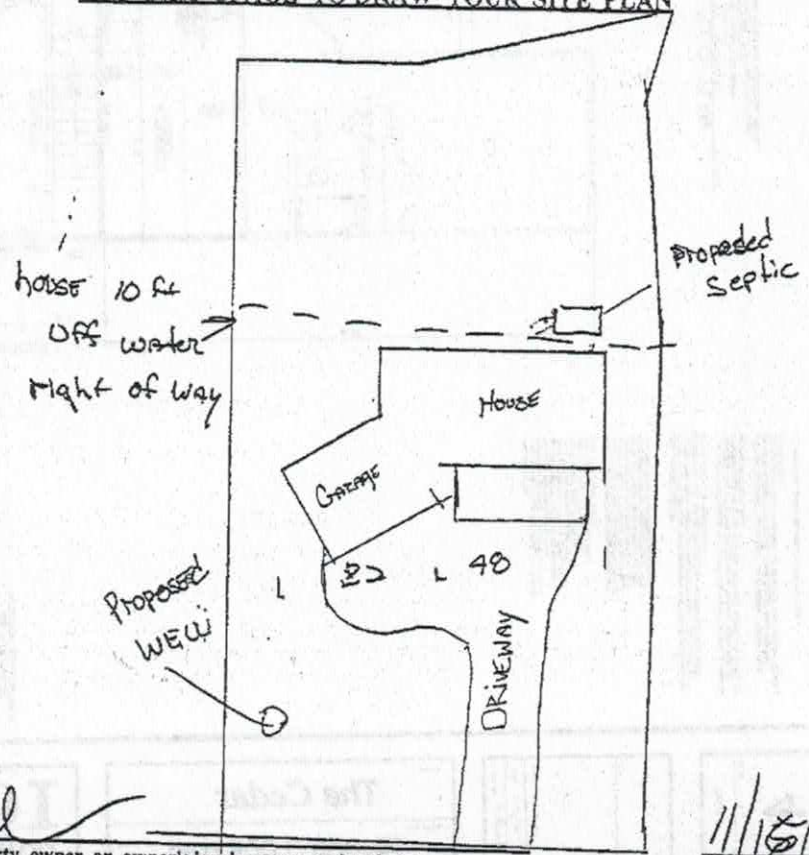
Circle N/A on the following if appropriate:

_____ 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



Signature: _____

REQUIRED property owner or owner's legal representative signature.

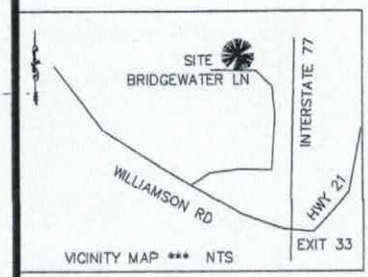
11/16/15

DATE

DOWELL & COMPANY, P. C.
ENGINEERING * SURVEYING * PLANNING
344 Rolling Hill Road Suite 103 * Mooresville , N.C. 28117
(704) 660-9697 (704) 664-5177 Fax Email: leland7896@aol.com

I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book 2400, page 100, and/or plat book 28, page 33, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Caroling Chapter 89C. my hand and seal on the 23, day of MAY, A.D. 20

NORTH CAROLINA PROFESSIONAL SEAL L-3508 LAND SURVEYOR DOUGLAS L. DOWELL JR
Douglas L. Dowell Jr 5/2/08



VICINITY MAP *** NTS

NOTES
1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) OVER HEAD POWER
4) THAT THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND.
5) NO TITLE DOCUMENTS SUPPLIED FOR THIS SURVEY.

LEGEND
P.P. = POWER POLE
= DUKE POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
W = WELL

0' 25' 50' 100'
SCALE IN FEET
1" = 50'

PROPOSED SEPTIC FIELD

PLOT PLAN SURVEY

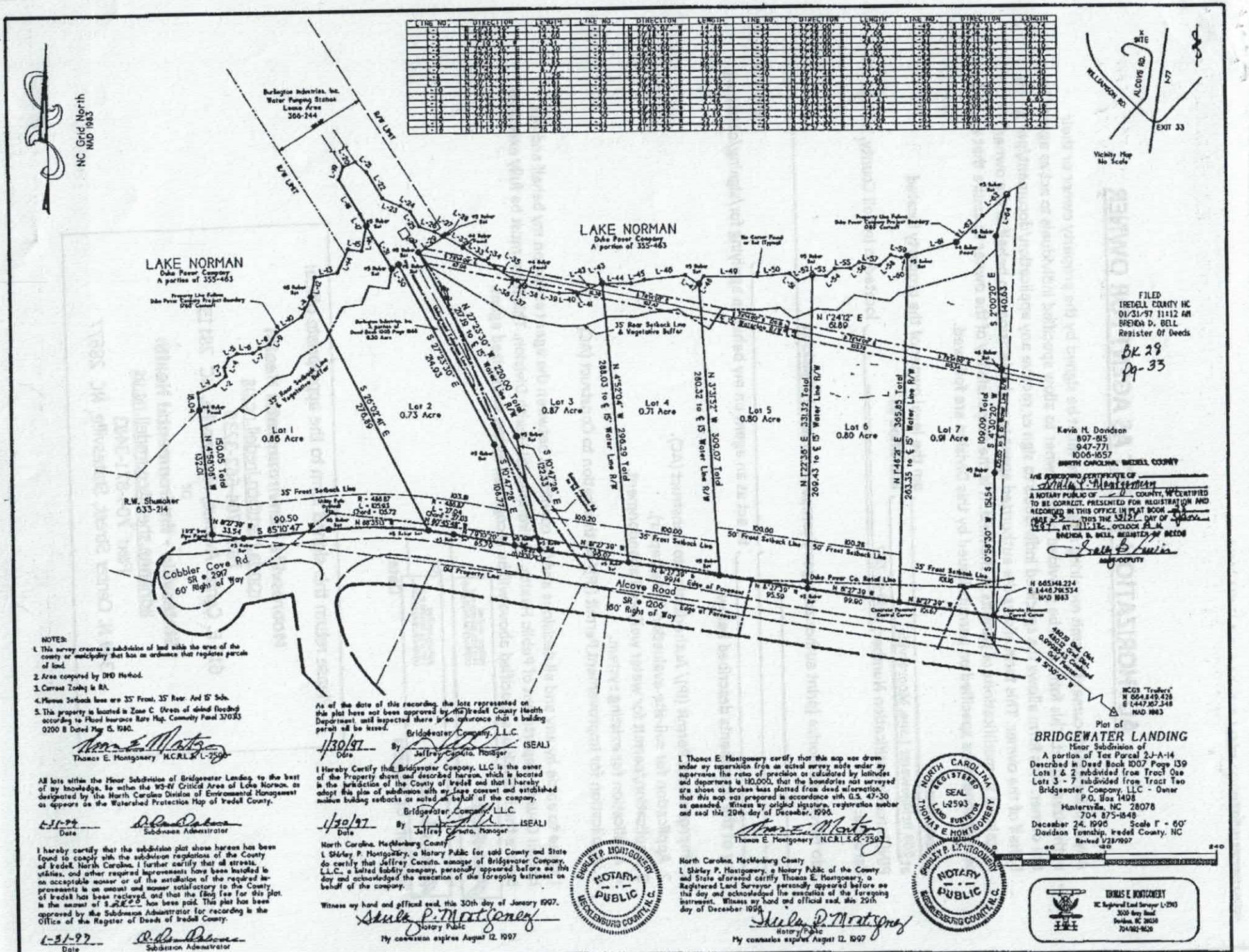
OF

LOT 7 BRIDGEWATER LANDING

SCALE 1" = 50' DAVIDSON TWSP., IREDELL CO., NC

ACQUIRED BY: JEFF JACKSON

FIELD BOOK:
FILE: 15070/SURVEY
TAX MAP NO: 4646-65-7357



NOTES:

1. This survey creates a subdivision of land within the area of the county or municipality that has an ordinance that regulates parcels of land.
2. Area computed by DMD Method.
3. Current Zoning is RA.
4. Minimum Setback lines are 35' Front, 35' Rear And 15' Side.
5. This property is located in Zone C (Areas of minimal flooding) according to Flood Insurance Rate Map, Community Panel 370183 0200 B Dated May 15, 1980.

Thomas E. Montgomery N.C.R.L.S. L-2593

All lots within the Minor Subdivision of Bridgewater Landing to the best of my knowledge, lie within the WS-IV Critical Area of Lake Norman, as designated by the North Carolina Division of Environmental Management as appears on the Watershed Protection Map of Iredell County.

1-31-97 Date — Subdivision Administrator

I hereby certify that the subdivision plat shown hereon has been found to comply with the subdivision regulations of the County of Iredell, North Carolina. I further certify that all streets, utilities, and other required improvements have been installed in an acceptable manner or of the installation of the required improvements in an amount and manner satisfactory to the County of Iredell has been recieved, and that the filing fee for this plat, in the amount of $ 25.00 has been paid. This plat has been approved by the Subdivision Administrator for recording in the Office of the Register of Deeds of Iredell County.

1-31-97 Date — Subdivision Administrator

As of the date of this recording, the lots represented on this plat have not been approved by the Iredell County Health Department, until inspected there is no assurance that a building permit will be issued.

Bridgewater Company, L.L.C.

1/30/97 Date — By Jeffrey Corsuto, Manager (SEAL)

I Hereby Certify that Bridgewater Company, LLC is the owner of the Property shown and described hereon, which is located in the jurisdiction of the County of Iredell and that I hereby adopt this plan of subdivision with my free consent and established minimum building setbacks as noted on behalf of the company.

Bridgewater Company, L.L.C.

1/30/97 Date — By Jeffrey Corsuto, Manager (SEAL)

North Carolina, Mecklenburg County

I, Shirley P. Montgomery, a Notary Public for said County and State do certify that Jeffrey Corsuto, manager of Bridgewater Company, L.L.C., a limited liability company, personally appeared before me this day and acknowledged the execution of the foregoing instrument on behalf of the company.

Witness my hand and official seal, this 30th day of January 1997.

Shirley P. Montgomery
Notary Public

My commission expires August 12, 1997

SHIRLEY P. MONTGOMERY NOTARY PUBLIC MECKLENBURG COUNTY, N.C.

I, Thomas E. Montgomery certify that this map was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book as noted; Map Book as noted) that the ratio of precision or the positional accuracy as calculated by latitudes and departures is 1:10,000, that the boundaries not surveyed are shown as broken lines plotted from deed information, that this map was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, registration number and seal this 29th day of December, 1996.

Thomas E. Montgomery N.C.R.L.S. L-2593

North Carolina, Mecklenburg County

I, Shirley P. Montgomery, a Notary Public of the County and State aforesaid certify Thomas E. Montgomery, a Registered Land Surveyor personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official seal, this 29th day of December 1996.

Shirley P. Montgomery
Notary Public

My commission expires August 12, 1997

NORTH CAROLINA REGISTERED SEAL L-2593 LAND SURVEYOR THOMAS E MONTGOMERY

SHIRLEY P. MONTGOMERY NOTARY PUBLIC MECKLENBURG COUNTY, N.C.

I, Shirley P. Montgomery, a Notary Public for Iredell County, North Carolina, do certify that Thomas E. Montgomery, a Registered Land Surveyor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official seal, this 31st day of January 1997.

Shirley P. Montgomery
Notary Public

My commission expires August 12, 1997

I, Kevin M. Davidson, Register of Deeds for Iredell County, North Carolina, certify that Shirley P. Montgomery, a Notary Public of Mecklenburg County, NC certified to be correct, presented for registration and recorded in this office in Plat Book 28 Page 33 this the 31st day of January 1997 at 11:12 o'clock A.M.

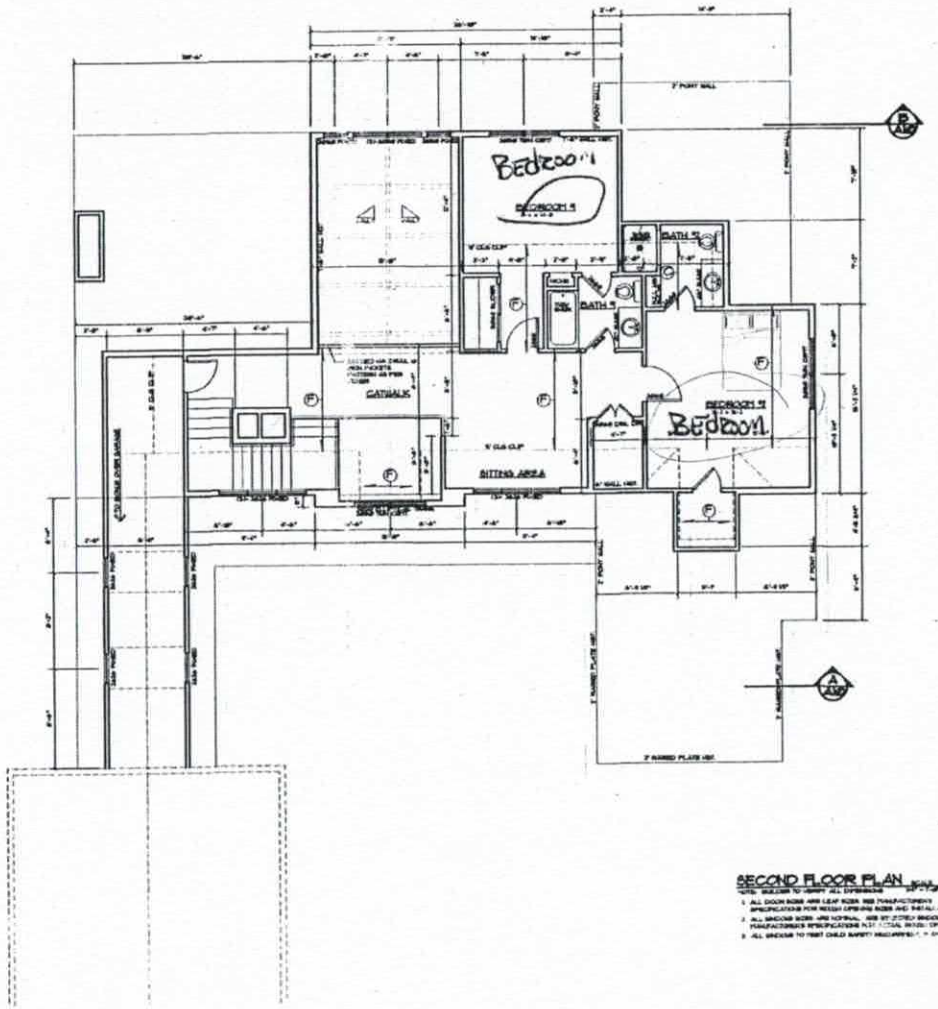
BRENDA D. BELL, REGISTER OF DEEDS

Brenda D. Bell
ASST/DEPUTY

Acknowledgement of
Plans Submittal ONLY!

Date 6/22/16

Date _____



SECOND FLOOR PLAN

CORNERSTONE HOME DESIGNS, LLC.

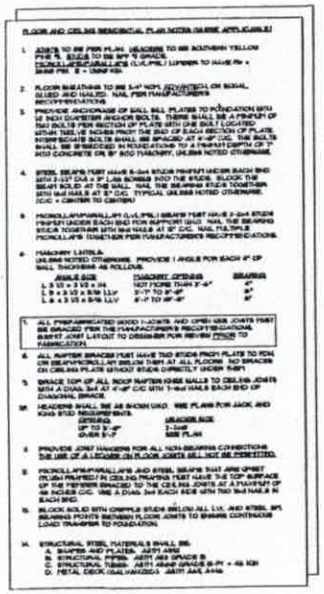
PROJECT NAME:
JACKSON RESIDENCE
268 BRIDGEWATER LANE
IREDELL CO. NORTH CAROLINA

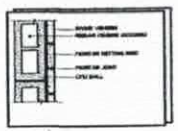
A-3

Acknowledgement of
Plans Submittal ONLY!

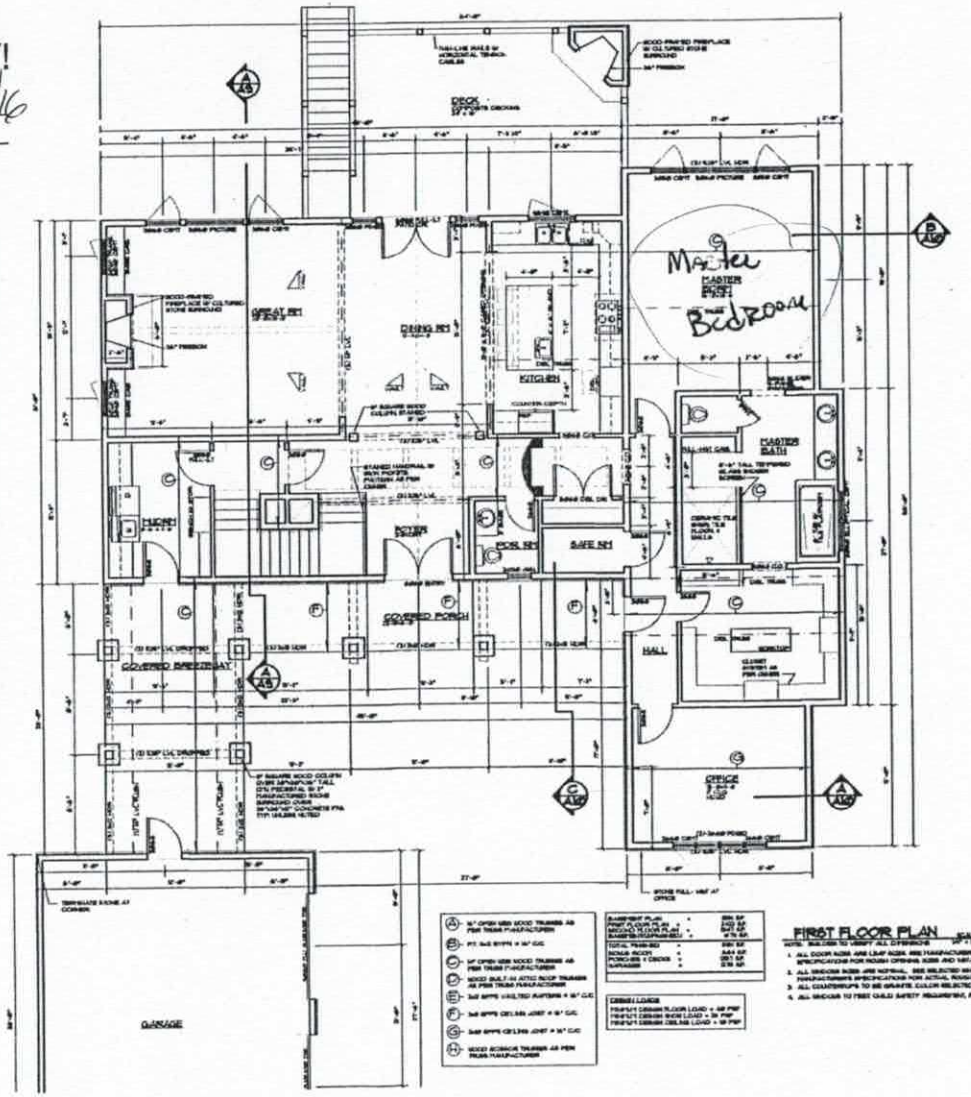
Date 6/23/16

Date





STONE DETAIL

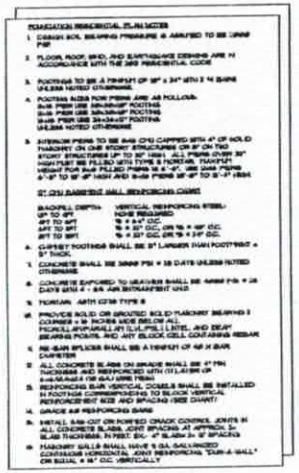


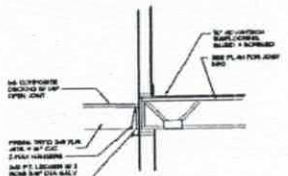
FIRST FLOOR PLAN

CORNERSTONE HOME DESIGNS LLC.
JOEL L. DAVIS - DESIGNER
828-438-7305
EMAIL: CHDLLC@GMAIL.COM

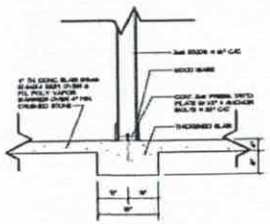
PROJECT NAME:
JACKSON RESIDENCE
268 BRIDGEWATER LANE
IREDELL CO. NORTH CAROLINA

SHEET NO.
A-2

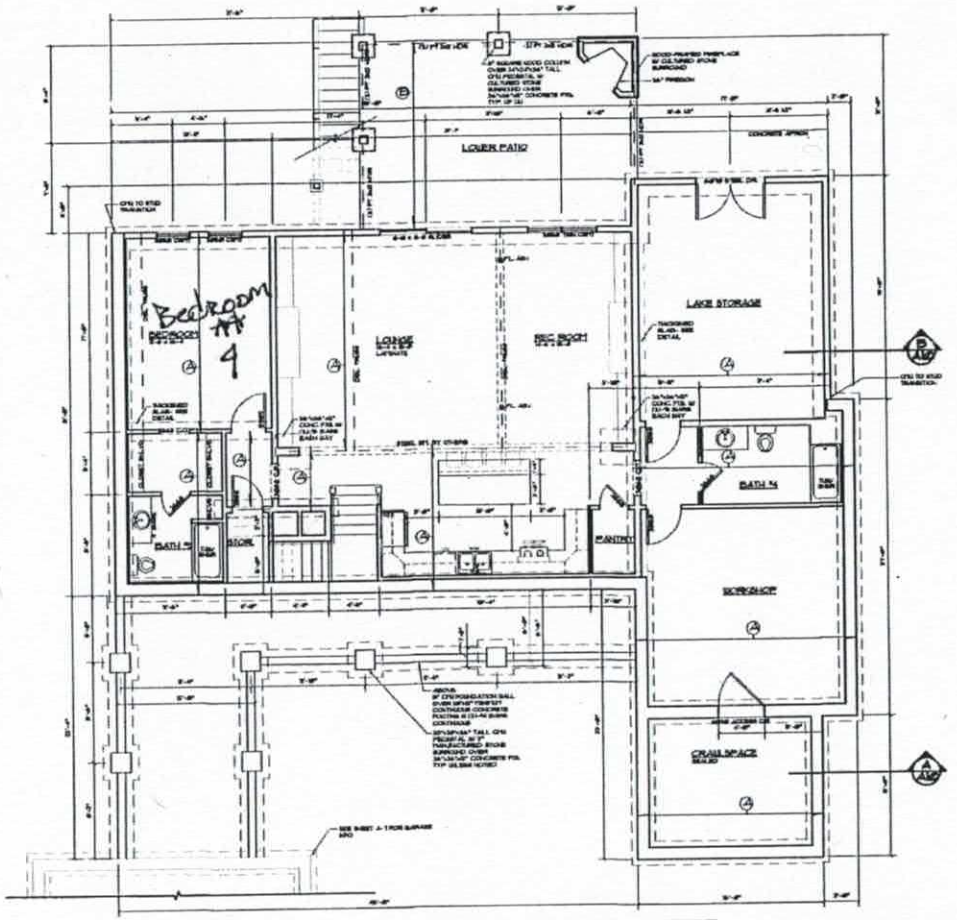




DECK DETAIL



THICKENED SLAB DETAIL



BASEMENT FLOOR PLAN

Acknowledgement of
Plans Submittal ONLY!

Date 6/22/16

Date

CORNERSTONE HOME DESIGNS, LLC.

PROJECT NAME:
JACKSON RESIDENCE
269 BRIDGEWATER LANE
REIDSELL CO. NORTH CAROLINA

SHEET NO.
A-1

Town of Mooresville Jurisdiction

ZONING APPROVAL

For building permit applications

Development Services 413 North Main St. Mooresville, NC 28115 Phone 704-662-7040

Number: 215023 Subdivision: BRIDGEWATER LANDING

Proposed Use: PERT TEST FOR SINGLE FAMILY HOME

Location: 268 BRIDGEWATER LANE

Tax PIN: 4646657357.000 Zoning: Corridor Mixed Use Conditional Lot: 7 Size: 0.910

Owner:	BUNKIE INVESTMENTS LLC	Applicant:	TRUE CRAFT BUILDERS INC
Address:	% P O BOX 3484	Address:	2929 SHADY BROOK LANE
	MOORESVILLE NC 28117		LINCOLNTON NC 28092
Phone:		Phone:	828-428-3530
Email:		Email:	truecraftbuildersinc@ymail.com

I certify that all statements made in this application and any attached documents are true, complete, and correct to the best of my knowledge and belief and are made in good faith. I understand that false information may be grounds for rejection of this application. Authorized Health Department and Inspection Department Representatives are granted right of entry to make evaluations or inspections and to release information upon public request.

Signature of Owner or Authorized Agent Date

If permitted, the following minimum zoning requirements must be met, unless Health Department requires more land area or other qualifications are indicated in the remarks.

Lot Area: Front Yard Depth: 30.00 Side Yard Depth: 15.00
Rear Yard Depth: 40.00 Corner Yard Depth:

Remarks: APPROVAL FOR PERT TEST FOR SINGLE FAMILY HOME
MUST OBTAIN ALL IREDELL COUNTY PERMITS AND INSPECTIONS.

HP
Approved By:

11/19/2015
Date

$50
Application Fee

215 Little Creek Road
Mooresville, NC, 28115
Phone: (704) 663-7631
Fax: (704) 660-9612
Email: twaseptic@gmail.com
Website: www.ammonsseptic.com

Maintenance Contract Form

(Revision 1)

Maintenance Contract for:
State of North Carolina
County of:

This agreement is made between: TrueCraft Builders, Inc and T.W. Ammons Septic Service, Inc., on: 1-9-17

This contract is for twelve months. Renewal will be due within thirty days prior to the expiration of the contract.

T.W. Ammons Septic Service, Inc., will visit the property twice a year to perform routine maintenance as required on Type IV septic systems by the state of North Carolina. This contract is for routine maintenance only. It does not include the costs for any repairs if needed. In the case of a needed repair, you will be notified.

T.W. Ammons Septic Service, Inc., will perform the above services at: Jeff Jackson
268 Bridgewater Ln.
Mooresville, NC 28117

Tim Ammons
N.C Subsurface Operator #12272
T.W. Ammons Septic Service, Inc.

Paulette Williams Sec
Owner or Representative