IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 22154?

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

PIN # 4639390910

APPLICANT: ES JOHNSON BUILDERS APPLICANT ADDRESS: PO BOX 1402 CORNELIUS NC 28031

SITE ADDRESS: 195 TIMBERLAKE DR. - Troutman PHONE: ALT. PHONE: 704-987-7950

SITE DIRECTIONS: PERTH(S) - TR STATE PARK RD - TL MORRISON FARM - TL SILVER FALLS - TL TIMBER LAKE - ON LT

SUBDIVISION: FALLS COVE - Parkwood SECTION: 6 LOT # 624 LOT AREA: 1.013 AC DESIGN FLOW: 480 L.T.A.R.: .3

Septic Tank	1000	(gal)	STB	Infiltrator	Date		☑ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI		☑ Residence	No. Bedrooms	4	Water Supply	
Pump Tank	1000	(gal)	PT	Infiltrator	Date		System Description:	PUMP 25% REDUCTION				☐ Business	No. Persons	8	☐ Private	
Pump Make	Liberty 3/4	Model	3/4hp	Serial #	2490		Repair System Description:	LP PPBPS				☐ Other	No. Employees		☐ Public	
# Nitrification Fields	1	# Lines	4	Linear Ft:	400		Maintenance Agreement Required:	☐ YES	☑ NO			☐ Slab	☑ Crawl Space		☑ Community	
Trench Width	36"	Max. Trench Bottom Depth	36"	Gravel Depth	N/A			☐ GRAVITY	☑ PRESSURE			☐ Basement w/plumbing		☐ Basement w/o plumbing		

Comments / Conditions:

INITIAL SITE SKETCH

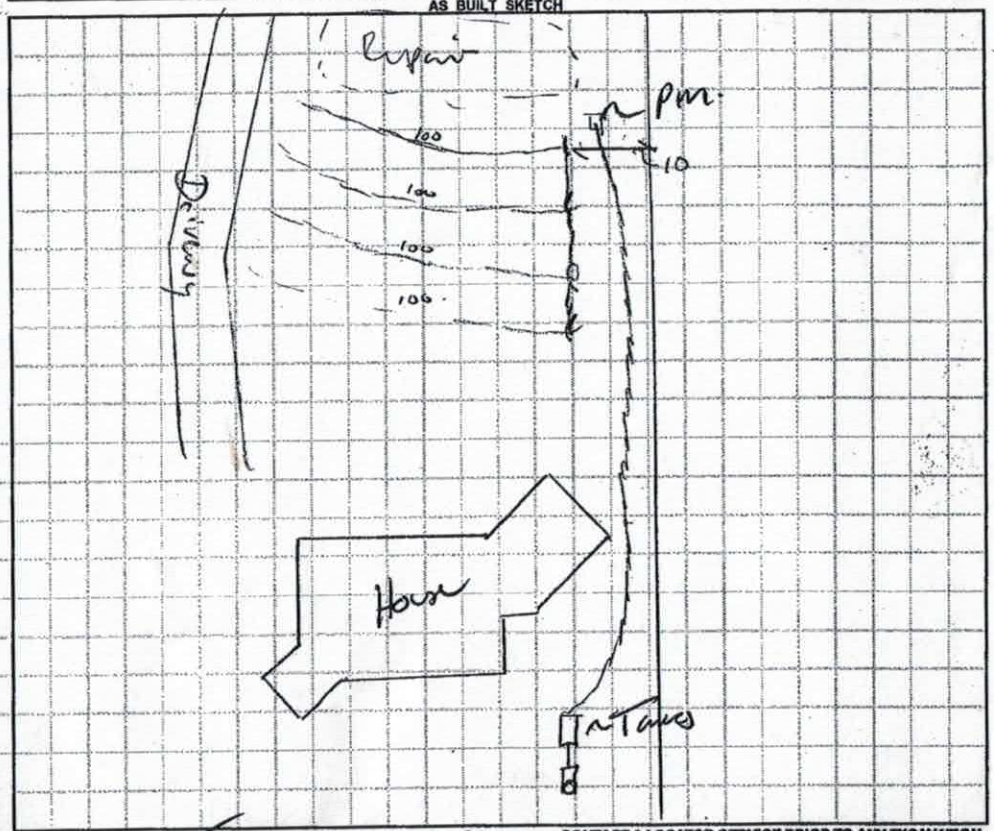
See Soil + Forestry Services Design.

12:60

	Date	Initials
Drain Lines Checked	9/20/17	BB.
Tanks Checked	9/20/17	BB.
Pressure Manifold or Valve Box Checked	9/20/17	BB.
Pressure Head Set	9/20/17	BB
Electrical Checked	10/12/17	MD
Floats Set	9/20/17	BB.
Alarm Checked	10/12/17	MD
Maintenance Contract Y (N)		

Timberlake RD

AS BUILT SKETCH



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.*

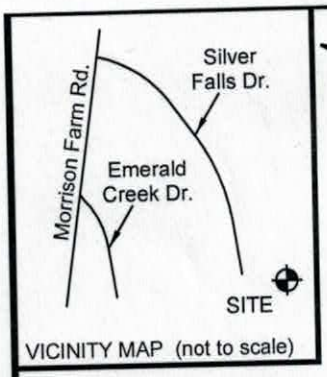
Owner / Applicant Signature: Date: 10/31/16 Installed by: BW Christian Zephi

IMPROVEMENT PERMIT by: Date: 10/26/16 OPERATION PERMIT by: Marcus Dotson Date: 10/12/17

AUTHORIZATION TO CONSTRUCT by: Date: 10/26/16 Existing System Inspected by: Date:

Health Dept. Copy - WHITE Applicant/Contractor - YELLOW

PLOT PLAN



VICINITY MAP (not to scale)

Map Bk. 52, Pg. 44 Iredell Co. Registry

LINE	BEARING	DISTANCE
L1	S 24°53'39" E	36.02'
L2	S 24°53'39" E	3.21'
L3	S 26°04'21" W	9.21'
L4	S 19°59'17" E	34.03'
L5	S 42°14'34" E	1.31'
L6	S 42°14'34" E	25.52'
L7	S 28°39'11" E	32.44'

LEGEND
R/W - RIGHT OF WAY
D&U - DRAINAGE & UTILITY
EoP - EDGE OF PAVEMENT
□ - WATER METER

S 19°59'17" E
45.02'
N 71°53'08" E 113.71'
S 71°53'08" W 119.58'
Pier Zone
Lake Norman
Lake Norman
1/2" REBAR
1/2" REBAR
L1
L2
L3
L4
L5
L6
L7
Edge of Lake
10' D&U Esmt
50' Rear Yard/ Lake Setback
22.5'
PT
ST
15' Side Yard
90.00'
Proposed House Envelope
85.00'
85.00'
11.8'
16.2'
90.00'
Lot #624
PIN #4639390910
44115.05 sf
1.013 AC
N 71°58'16" E 396.04'
S 76°15'43" W 362.61'
10' Drainage & Utility Easement
15' Side Yard Setback
35' Front Yard
10' D&U Esmt
15" RCP
C1
C2
1/2" REBAR
1/2" REBAR
Timber Lake Drive
45' Public R/W
EoP
R 9.0 100'
P 8.2 100'
B 7.2 100'
Y 6.3 100'
O 5.6 100'
R 4.9 100'
B 4.2 80'
B1
B2
B3
B4
P.MANIFOLD

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	122.50'	124.53'	119.24'	N 42°51'41" W
C2	177.50'	0.98'	0.98'	N 71°49'25" W

NOW OR FORMERLY
Eric K. Troutman & Wf. Kendall F.
Deed Bk. 2379, Pg. 1143
Lot #623, Falls Cove
Map Bk. 52, Pg. 43-45
PIN #4639299977
Iredell Co. Registry

NOW OR FORMERLY
Sandra Baxley Hinson & Husband
Robert Ervin Hinson, Jr.
Deed Bk. 2380, Pg. 2375
Lot #625, Falls Cove
Map Bk. 52, Pg. 43-45
PIN #4639390785
Iredell Co. Registry

(A) - 0-4 BSCL
4-26 RC SMM Ex SSSP
26-48 RCL WSMH Ex SSSP
,3 Common SAP

B 0-28 RC SMM Ex SSSP
28-48 RCL WSMH Ex SSSP
,3

PRELIMINARY
Not for Conveyances, Sales or Recordation

NOTES:
* Deed Reference - Deed Bk. 2406, Pg. 297 David B. Guay & Wf. Patricia J.

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

PO Box 832
Mooresville, NC 28115

A proposed Accepted Septic System with pressure manifold distribution for a 4 bedroom single family residence at 195 Timber Lake Drive for ES Johnson Builders
Iredell Co. PIN #: 4639390910

Contents: **Page**

Information for the Installer---------- 1
Design Information
Design Specifications---------- 2-3
Layout Specifications---------- 4
System Tapsheet Flow---------- 5
Site Plan/System Plan---------- 6-7
Calculations---------- 8
Pressure Manifold Specifications---------- 9
Expedited Review Checklist---------- 10
Iredell County Application for Improvements Permit---------- 11
Iredell County Site Plan Form---------- 12
Environmental Health Requirements for Septic Permits---------- 13
Zoning Permit---------- 14
Owner Authorization Form---------- 15
Profile Descriptions---------- 16
Prior Iredell County Improvements Permit---------- 17

Owners: David and Patti Guay
411 Ardan Oaks Circle, Cape Carteret, NC 28584

September 30, 2016
W. Overby



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 DENR, and certification supplied by the manufacturer.
- 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
- Pump tank 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 innovative (25% reduction) install w/p.manifold distribution.
- Repair is specified as PPBPS type
- System install at 24" depth
- Iredell County has approval to move system components (e.g. tanks)

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

Sheet 1 of 1
PROPERTY ID #: 463939691
COUNTY: IREDELL

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

OWNER: DAVID & PATTI GUAY
APPLICATION DATE: 9/5/16
ADDRESS: 411 MEADOW OAKS CIR, CAPE CARTERET NC 28584
DATE EVALUATED: 9/27/16
PROPOSED FACILITY: RESIDENCE
PROPOSED DESIGN FLOW (.1949): 480
PROPERTY SIZE: 1 AC
LOCATION OF SITE: 195 TIMBER LAKE DRIVE - FALLS COVE - LOT 624 PH 6
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
1	L/11%	0-5	RB SL WFGR	VFR SS SP	N/A	48	—	—	PS .3
		5-20	RC WMS/A	FR SS SP					
		20-43	RB CL WMS	FR SS SP					
		43-48	RB CL WMS	VFR SS SP C SAP					
2	L/10%	0-3	RB SL WFGR	VFR SS SP	N/A	50	—	—	PS .3
		3-26	BR C MMA	FR SS SP					
		26-40	BR CL MMA	FR SS SP					
		40-50	BR CL WMS	VFR SS SP C SAP					
3	L/8%	0-3	RB SL WFGR	FR SS SP	N/A	48	—	—	PS .3
		3-24	BR C MFA	FR SS SP					
		24-36	R C WMA	FR SS SP FEW SAP					
		36-48	RB CL WMS	VFR SS SP C SAP					
4	L/8%	0-4	R CL WMS	FR SS SP	N/A	44	PS	—	PS .3
		4-24	RC WMS/A	FR SS SP					
		24-44	BR CL WMS	FR SS SP FE SAP					
		44-48	BR L MMS	VFR SS SP					

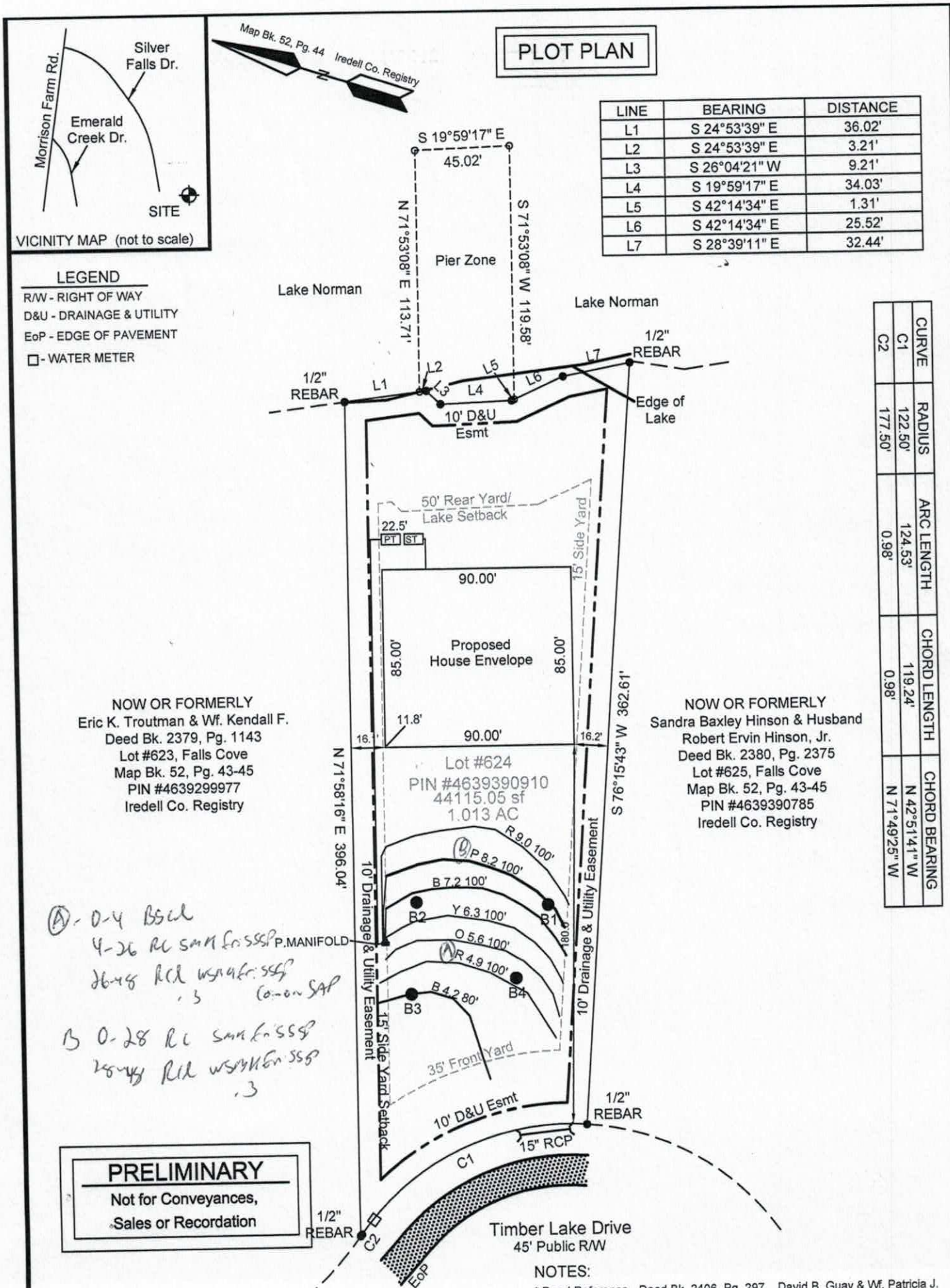
DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	400	267
System Type(s)	ACCEPTED	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946): PS
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: DUGGAN
OTHER(S) PRESENT:

JAMES DUGGAN LICENSED SOIL SCIENTIST IREDELL COUNTY NORTH CAROLINA 1218 STATE OF NORTH CAROLINA

COMMENTS:

Updated February 2014



LINE	BEARING	DISTANCE
L1	S 24°53'39" E	36.02'
L2	S 24°53'39" E	3.21'
L3	S 26°04'21" W	9.21'
L4	S 19°59'17" E	34.03'
L5	S 42°14'34" E	1.31'
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L7	S 28°39'11" E	32.44'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	122.50'	124.53'	119.24'	N 42°51'41" W
C2	177.50'	0.98'	0.98'	N 71°49'25" W

PRESSURE MANIFOLD DISTRIBUTION
FOR INNOVATIVE WASTEWATER SYSTEM

Owner:	David and Patti Guay	
Address:	411 Ardan Oaks Circle Cape Cateret, NC 28584	
Phone:		
County:	Iredell	
Location:	195 Timber Lake Drive	
Source of Wastewater Flow:	4 Bedroom Single Family Residence	
Estimated Daily Wastewater Production:	480 gpd	
System Flow:	28.44	gpm

Design Specifications

Drainfield Size:	400	lf
Loading Rate:	0.3	gpd/ft
Depth of Gravel in Trench:	NA (25% reduction)	
Gravel Size:	NA (25% reduction)	
Trench Depth:	24 in	
Trench Width:	36 in.	
Septic Tank Size:	1000	gal
Pump Tank Size:	1000	gal
Estimated Supply Line Length:	200	ft
Supply Line Diameter:	2 in. SCH 40 PVC	
Supply Line Volume:	34.80	gal
Dosing Volume:	182.84	gal
Supply Manifold:	4" Sch80 PVC	
Supply Manifold Length:	3.5' (min)	
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:	3.24	ft
Elevation Head:	21.20	ft
Total Dynamic Head:	26.93	ft
Threaded Union:	In tank	
Gate Valves:	1 in tank 1 in manifold	
Check Valves:	in tank	
Anti-Siphon Hole:	N/A	
Additional Comments:	Soil suitability was performed by S&FS	

195 Timber Lake Drive

INNOVATIVE PRESSURE MANIFOLD DISTRIBUTION DESIGN

DESIGN FLOW:	480	gpd
SOIL APPLICATION RATE:	0.3	gpd/ft
TOTAL AREA TRENCH BOTTOM:	1200	sqft
TOTAL LATERAL LENGTH:	400	ft
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	400	ft
SUPPLY LINE LENGTH:	200	ft
TOTAL DYNAMIC HEAD:	26.93	ft
MANIFOLD SIZE:	4" Sch80	
DOSING VOLUME:	182.84	
PUMP TANK DRAW DOWN*:	8.7	inches
SEPTIC TANK SIZE:		1000 gal
PUMP TANK SIZE:		1000 gal

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

195 Timber Lake Drive

LAYOUT FOR 4 BEDROOM HOME

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LENGTH	DESIGN LENGTH
TBM		11.8			100.00		
INSTR. 1			111.80				
HOUSE CNR				11.80	100.00		
P. TANK				22.50	89.30		
			REPAIR				
1	Blue			4.20	107.60	80	67
2	Red			4.90	106.90	100	100
3	Orange			5.60	106.20	100	100
			SYSTEM				
4	*Yellow*			*6.30*	*105.50*	*100*	*100*
5	*Blue*			*7.20*	*104.60*	*100*	*100*
6	*Pink*			*8.20*	*103.60*	*100*	*100*
7	*Red*			*9.00*	*102.80*	*100*	*100*

SYSTEM	LINE LENGTH *400*	LTAR GPD/FT2 *0.3*	SYSTEM TYPE *ACCEPTED*	TRENCH SYSTEM *CHAMBER*	DISTRIBUTION *MANIFOLD*
Repair	267	0.3	MOD CONV	PPBPS	LPP

Notes:

** TBM located top of ground at front left house stake

**TBM assumed at 100'

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

**BS, HI, and FS indicate rod readings

PRESSURE MANIFOLD TAPSHEET - 195 Timber Lake Drive

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	Line LTAR
4	Yellow	105.5	100	SCH 40 1/2	7.11	300	0.15
5	Blue	104.6	100	SCH 40 1/2	7.11	300	0.15
6	Pink	103.6	100	SCH 40 1/2	7.11	300	0.15
7	Red	102.8	100	SCH 40 1/2	7.11	300	0.15
	total	feet =	400	gal/min =	28.44		

Des. Flow	480
Pump Run=	6.43
soil LTAR	0.3
LTAR +5%	0.32
LTAR with INNOV	0.40
LTAR with INNOV + 5%	0.42

CALCULATIONS

Location 195 Timber Lake Drive

Lot No:	624
No. of Bedrooms	4
Design Flow	480 $^{gal}/_{day}$
LTAR	0.30 $^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES
Supply Line Length	200 ft.
Supply Line Volume	34.8 gal.
Required Feet of Line	400 ft.
Amount of Line from Layout	400 ft.
Gallons per Minute	28.44 $^{gal}/_{min}$
Required Septic Tank Capacity	1000 gal.
Minimum Standard Tank Size	1000 gal.
Lateral Line Volume	261.2 gal.
Dosing Volume	182.84 gal.

Note: Dosing Volume based on70% of lateral line volume

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

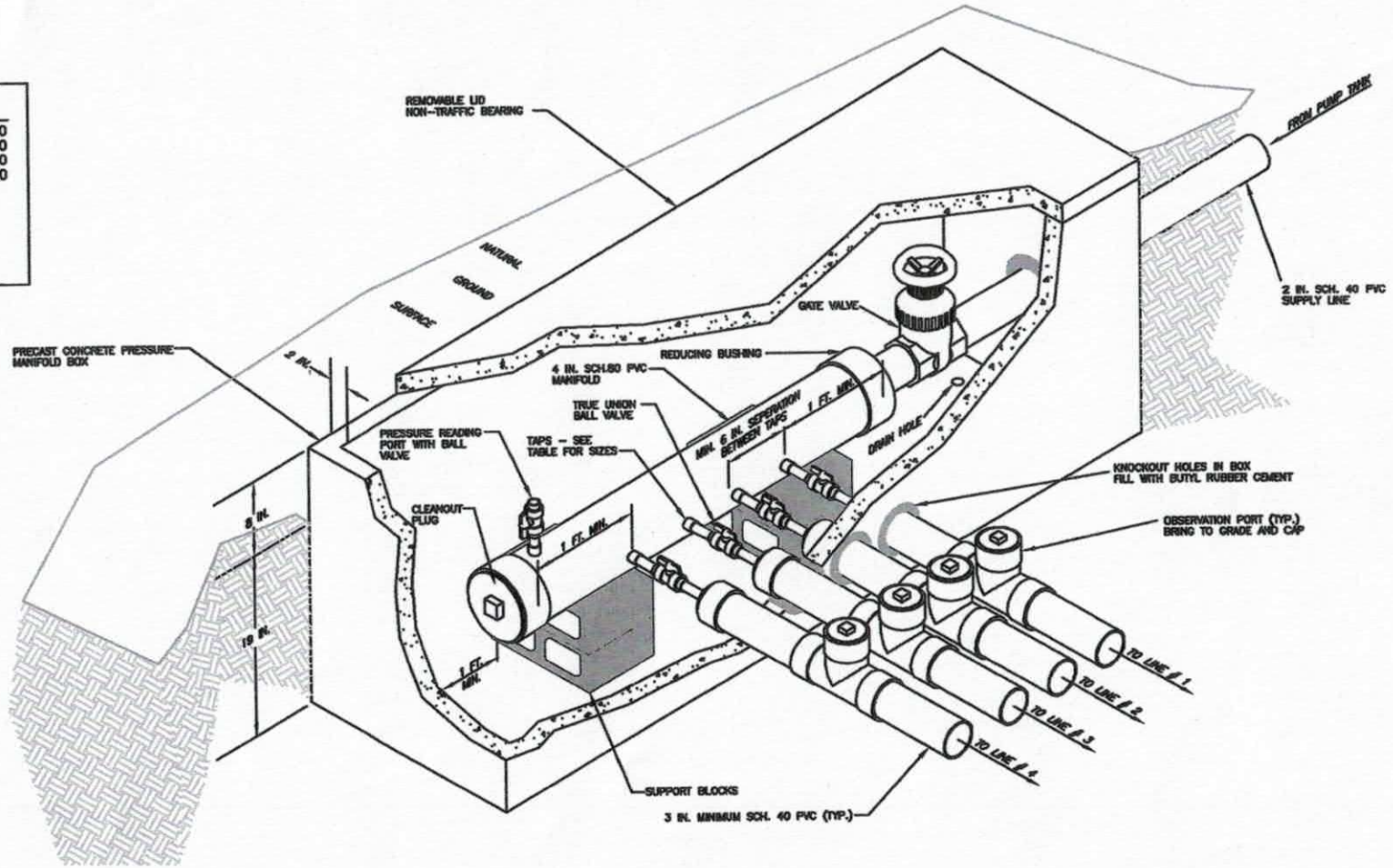
GPM	*f*
20	0.84
21.33	0.95
25	1.27
28.44	1.62
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Tank Draw Down	8.7 inches *(Generic Draw Down of 21 gal.per in.)*
Pump Run Time	6.43 minutes
Elevation Head	21.2 ft.
Pressure Head	2 ft.
Friction Factor	1.62 ft./100 ft. *(From the interpolater.)*
Friction Head	3.24 ft.
Friction Head + 15%	3.726
Total Dynamic Head (+15%)	26.93 ft.

PRESSURE MANIFOLD DETAILS
FOR
195 TIMBER LAKE DRIVE

TAP SIZES

LINE No.	TAP SIZE
1	1/2" SCH. 80
2	1/2" SCH. 80
3	1/2" SCH. 80
4	1/2" SCH. 80



221547 3 pd 500 (owe $350)

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:** X Improvement Permit X 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: X 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:**

2S Johnson Bldrs	PO Box 1402 Cornelius NC 28031		704-987-7950
Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
David & Patti Gray	411 Meadow Oaks Cir Cape Carteret NC, 28584		
Owner Name	Mailing Address	Home Phone #	Alternate Phone #

4. **Property Information:**

195 Timberlake Dr	Falls Cove - Parkwood	Lot # 629 ph 6
Street Address	Subdivision Name	Section/Phase and Lot Number

Driving Directions: State Park Rd, TL Morrison Farm, TL Silver Falls, TL Timber Lake

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

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

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

(X) Crawl Space Foundation?
( ) Concrete Slab Foundation?
( ) 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 _____

6. **Proposed Water Supply:**

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

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

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

8. **Please Answer The Following** ( ) Yes (X) No Does the site contain any jurisdictional wetlands?
To The Best of Your Ability: ( ) Yes (X) 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:** Charles McCarty — 9-5-16
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, David B Creecy, am the legal owner(s) of the property located at 195 Timber Lake DR Troutman NC, identified as PIN (Parcel Identification Number) 4659390910, located in Iredell County, North Carolina.

I do hereby authorize (print legal representative/company name) Rollans Soil & Environmental Services, 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.

David B Creecy 9/29/16 Kelly A Farmer 9/29/16

Signature of Owner(s) Date 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

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

IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 MOORESVILLE 704-664-5281

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

PERMIT# 140182 PIN# 4730109262.624 DATE 6-18-07

OWNER OR APPLICANT Falls Cove Dev. LLC PHONE: Business _____ Home _____

ADDRESS 2215 Brawley School Rd Mooresville NC 28115

LOCATION State Park Rd TL Morrison Farm Th Silver Falls Th Timber Lake Lp 7th on left

SUBDIVISION Parkwood @ Falls Cove BLOCK / SECTION 6 LOT 624 LOT AREA 44119 ft² SITE CLASS. PS DESIGN FLOW 480gpd L.T.A.R. .3gpd/ft²

Septic Tank: 1500* Gallons; STB _____ Date _____

Pump Tank: 1500* Gallons; PT _____ Date _____

Pump Make: _____ Model _____ Serial No. _____

Nitrification Field: No Fields 1 Square Feet 1600 Linear Feet 400

No Lines 4@100' Trench Width 36"* Max Trench Bottom Depth 36" Gravel Depth NA ☐ Gravity ☒ Pressure

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

System Description: 25% reduction pm

Repair System Description: LP PPBPS

Maintenance Agreement Required: ☐ Yes ☒ No

☒ House/Mod. Home ☐ Mobile Home ☐ Business ☐ Other

No. Bedrooms 4 No. Persons 8 No. Employees ____

Water Supply: ☐ Individual ☒ Public ☐ Community

☐ Slab ☒ Crawl Space ☒ Basement w/plumbing ☐ Basement wo/plumbing

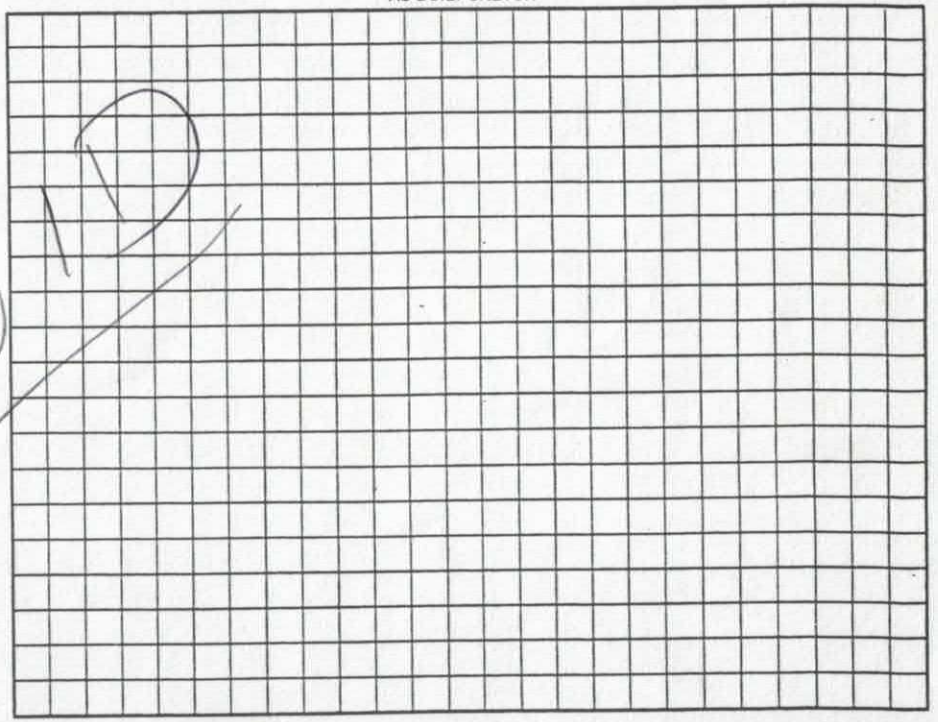
Comments:/Conditions: * per plan Specs

Comments:/Conditions: ½ Basement

INITIAL SITE SKETCH



AS BUILT SKETCH



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. Improvement Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Permit with plat valid without expiration ☐ Improvement Permit with site plan valid for sixty months ☒

Signed: _____ date 06/25/07

Improvement Permit by: _____ date 6-18-07

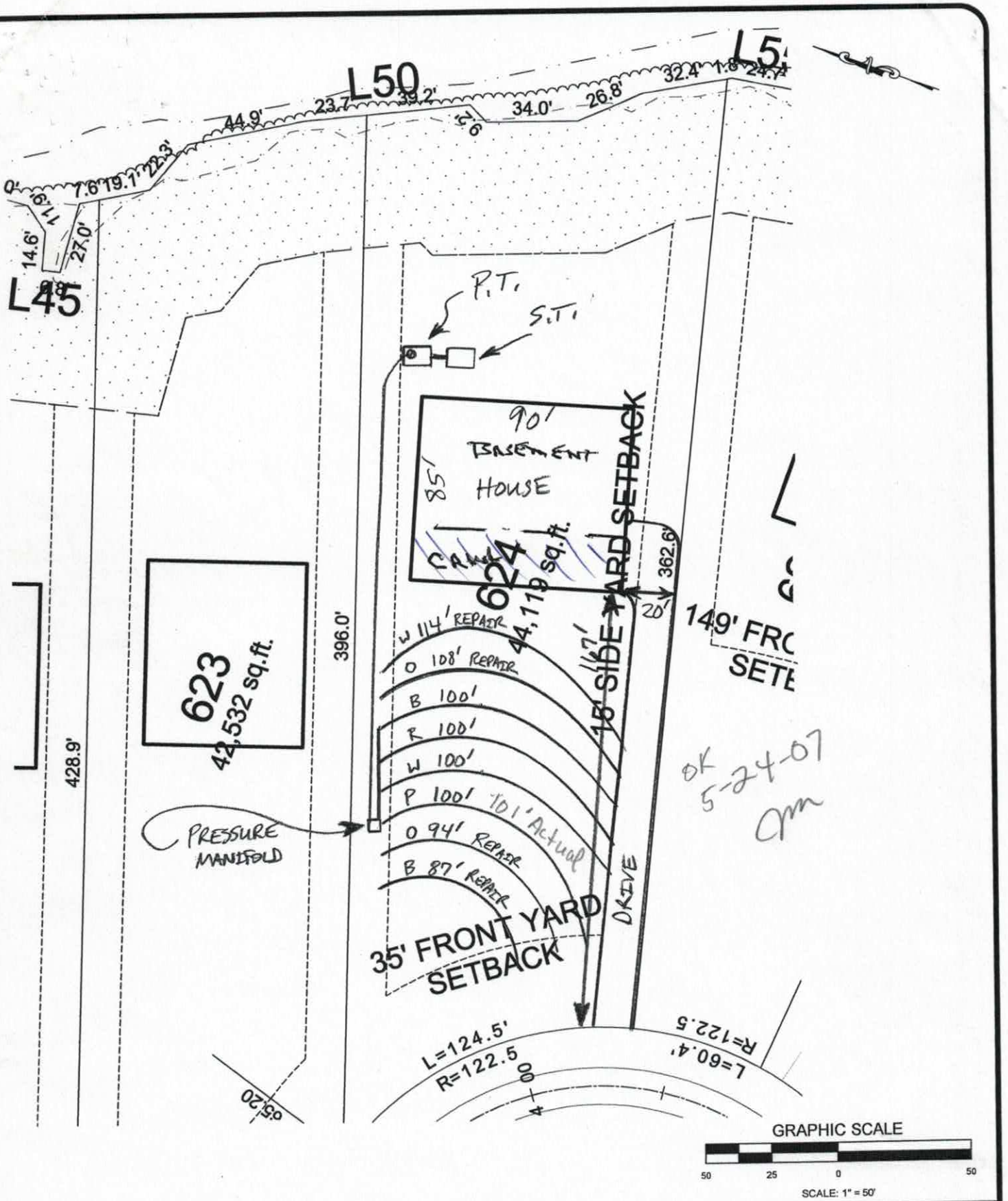
Authorization to Construct by: _____ date _____

Installed by: _____

Operation Permit by: _____ date _____

Existing System Inspection by: _____ date _____

HEALTH DEPT. COPY: WHITE OWNER COPY (FINAL): YELLOW OWNER COPY (INITIAL): PINK



SCALE:	AS SHOWN
DATE:	MAY 2007
DRAWN BY:	RDM
PROJECT NO:	1588-06-091

S&ME
WWW.SMEINC.COM

LOT #624
CRESCENT PARKWOOD - PHASE 6
IREDELL COUNTY, NORTH CAROLINA

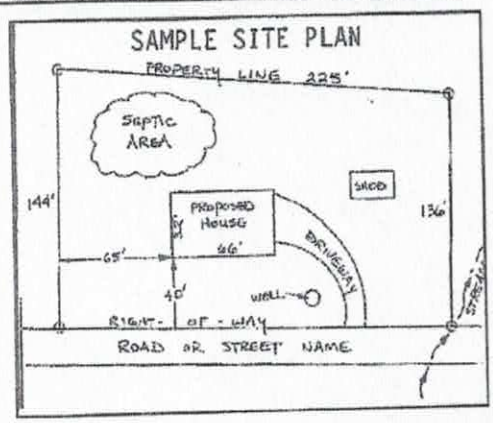
FIGURE NO.

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

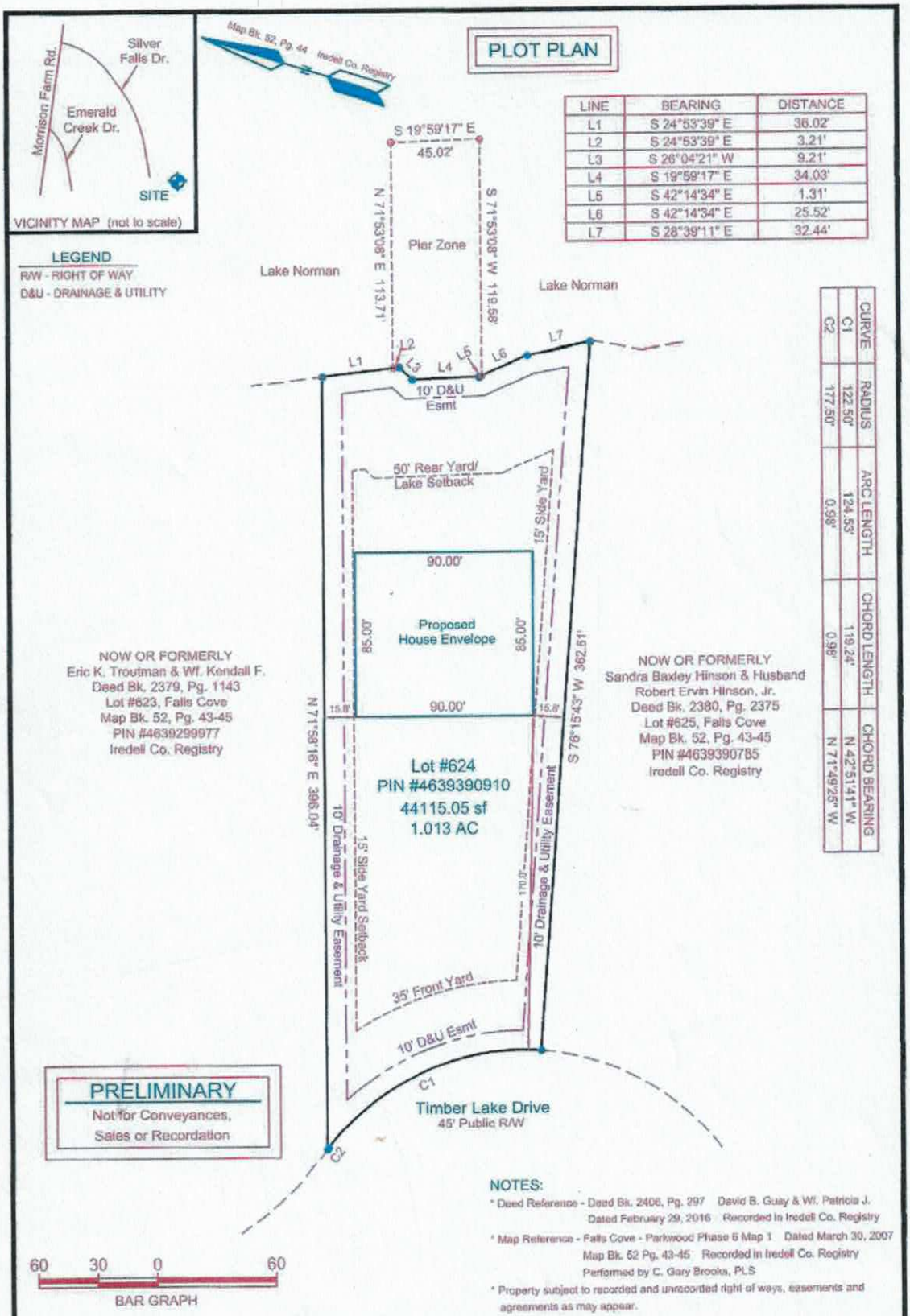
See Attached

Signature: Charles McGarity

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

9-5-16

DATE



LINE	BEARING	DISTANCE
L1	S 24°53'39" E	36.02'
L2	S 24°53'39" E	3.21'
L3	S 26°04'21" W	9.21'
L4	S 19°59'17" E	34.03'
L5	S 42°14'34" E	1.31'
L6	S 42°14'34" E	25.52'
L7	S 28°39'11" E	32.44'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	122.50'	124.53'	119.24'	N 42°51'41" W
C2	177.50'	0.98'	0.98'	N 71°49'25" W

NOTES:

* Deed Reference - Deed Bk. 2406, Pg. 297 David B. Guay & Wf. Patricia J. Dated February 29, 2016 Recorded in Iredell Co. Registry
* Map Reference - Falls Cove - Parkwood Phase 6 Map 1 Dated March 30, 2007 Map Bk. 52 Pg. 43-45 Recorded in Iredell Co. Registry Performed by C. Gary Brooks, PLS
* Property subject to recorded and unrecorded right of ways, easements and agreements as may appear.

I, R. Scott Dyer, certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book 2406, page 297, etc.); that the boundaries not surveyed are clearly indicated as drawn from information found in Book n/a, page n/a; that the ratio of precision as calculated exceeds 1:10,000; and that this map meets the requirements for The Standards of Practice for Land Surveying in North Carolina (21 NCAC 56, 1600). Witness my original signature, registration number and seal this 16th day of Aug., A.D., 2016.

R. Scott Dyer, PLS #4444

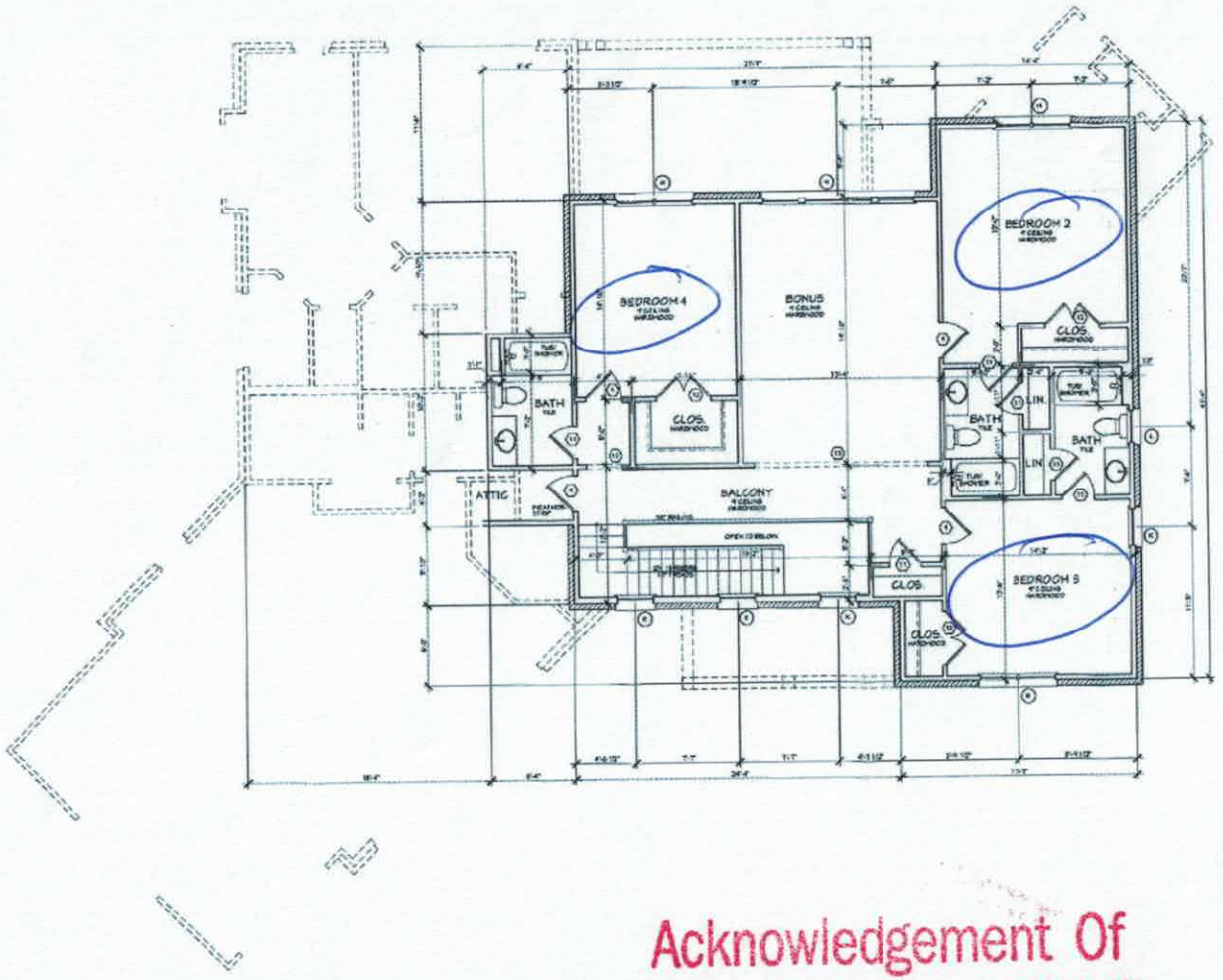
DRAWN BY: S. Kimrey	NLS NO.: 16123
DATE: August 16, 2016	SCALE: 1" = 60'

NORSTAR LAND SURVEYING 2002

NorStar Land Surveying, Inc.
552-B Newell Street NW
Concord, NC 28025
Ph 704 721 6651
Fax 704 721 6653
Firm Lic. # C-2294

David & Patricia Guay
195 Timber Lake Drive

City of Fallstown Township Iredell County, NC



WINDOW SCHEDULE

NO.	SIZE	DESCRIPTION
A	3'-0" x 5'-0"	DOUBLEHUNG
B	3'-0" x 4'-6"	DOUBLEHUNG
C	3'-0" x 4'-0"	DOUBLEHUNG
D	3'-0" x 1'-0"	FIXED
E	2'-0" x 5'-0"	DOUBLEHUNG
F	2'-0" x 4'-0"	DOUBLEHUNG
G	5'-0" x 5'-0"	PAIR OF 2'-6" x 5'-0" EA. SIDE OF 8'-0" MULLION
H	2'-0" x 5'-0"	DOUBLEHUNG
J	2'-0" x 1'-0"	FIXED
K	2'-0" x 5'-0"	DOUBLEHUNG
L	2'-0" x 4'-0"	DOUBLEHUNG
M	5'-0" x 5'-0"	PAIR OF 2'-6" x 5'-0" EA. SIDE OF 8'-0" MULLION

DOOR SCHEDULE

NO.	SIZE	DESCRIPTION
1	3'-0" x 6'-8"	SW GLAZED 18" SIDELIGHT(S) EA. SIDE
2	2'-6" x 6'-8"	SOLID PANEL
3	2'-6" x 6'-8"	CASED OPENING
4	2'-6" x 6'-8"	20 MIN. FIRE RATED
5	2'-8" x 6'-8"	SOLID PANEL
6	6'-0" x 6'-8"	SOLID PANEL BYPASS
7	2'-6" x 6'-8"	CASED OPENING
8	2'-6" x 6'-8"	FRENCH
9	2'-6" x 6'-8"	SOLID PANEL
10	2'-6" x 6'-8"	CASED OPENING
11	2'-6" x 6'-8"	SOLID PANEL
12	2'-6" x 6'-8"	SOLID PANEL
13	6'-0" x 6'-8"	CASED OPENING
14	2'-6" x 6'-8"	SOLID PANEL PANEL

Acknowledgement Of
Plans Submittal ONLY!
Date 10/28/16
Date 10/31/16

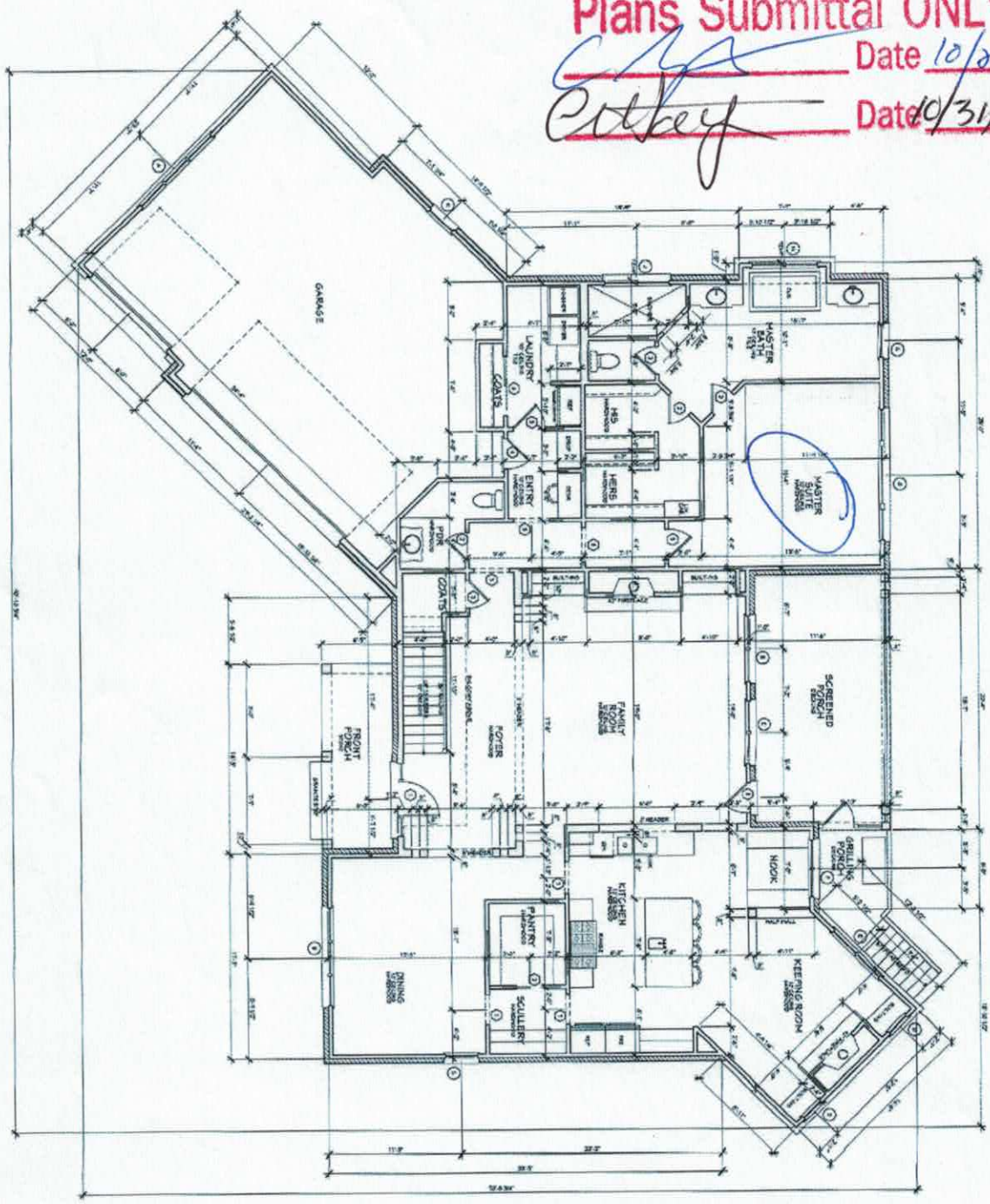
UPPER LEVEL
FLOOR PLAN
SCALE: 1/4" = 1'-0"

C.J. Johnson BUILDERS

The Edisto

July 11, 2016
Sheet

Acknowledgement Of
Plans Submittal ONLY!
Date 10/28/16
Date 10/31/16



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

DOOR SCHEDULE

NO	SIZE	DESCRIPTION
1	3'-0" x 6'-8"	
2	3'-0" x 6'-8"	
3	3'-0" x 6'-8"	
4	3'-0" x 6'-8"	
5	3'-0" x 6'-8"	
6	3'-0" x 6'-8"	
7	3'-0" x 6'-8"	
8	3'-0" x 6'-8"	
9	3'-0" x 6'-8"	
10	3'-0" x 6'-8"	
11	3'-0" x 6'-8"	
12	3'-0" x 6'-8"	
13	3'-0" x 6'-8"	
14	3'-0" x 6'-8"	

WINDOW SCHEDULE

NO	SIZE	DESCRIPTION
1	3'-0" x 5'-0"	
2	3'-0" x 5'-0"	
3	3'-0" x 5'-0"	
4	3'-0" x 5'-0"	
5	3'-0" x 5'-0"	
6	3'-0" x 5'-0"	
7	3'-0" x 5'-0"	
8	3'-0" x 5'-0"	
9	3'-0" x 5'-0"	
10	3'-0" x 5'-0"	
11	3'-0" x 5'-0"	
12	3'-0" x 5'-0"	
13	3'-0" x 5'-0"	
14	3'-0" x 5'-0"	

Square Footage (Stud)

Main Level Heated	2,469	Sq.Ft.
Upper Level Heated	1,376	Sq.Ft.
Total Heated	3,844	Sq.Ft.
Garage	839	Sq.Ft.
Front Porch	96	Sq.Ft.
Screened Porch	246	Sq.Ft.
Total Under Roof	5,021	Sq.Ft.

July 11, 2016	The Edisto	E.S. Johnson BUILDERS
Sheet		

Zoning Permit # 221547
Fee $ 45 Code 104

See reverse for new construction.

Zoning Permit

LOCATION	Date (mm/dd/yy)	9-2-16	Tax Parcel #	6393909 10
	Business Name or Property Owner	MR. GUAY		
	Street Address & Lot Number	195 TIMBERLAKE DR. TROUTMAN		
	Business Type and/or Project Description	SFR.		
APPLICANT	Applicant	E.S. Johnson Bldrs	Preferred Phone	704 987 7950
	Address City/State/Zip	PO 1402 Cornelius NC 28031		
	E-Mail	Margie@ESJohnson.com		
	Would you like your e-mail address added to: (check any of interest)	☐ The Whistle Stop (Town of Troutman newsletter) ☐ Troutman Business Council (Local Chamber of Commerce) ☐ Sunshine List (Agenda for Town Board Meetings)		

Following approval of this permit proceed to Iredell County Building Inspections (349 N Center St, Statesville, NC 28677). All Applicants, please note that final inspection by the Town is required prior to occupancy (exception, single family residential additions/expansions). Business Applicants, please note that proof of RPZ (backflow) inspection is required prior to occupancy (in addition, restaurants may be required to have a grease trap inspection).

Office Use Only

Zoning District(s)	RS	TL ☑ ETJ ☐	Plans Attached: Yes ☑ No ☐
Utilities	Public water / Septic		Floodplain: Yes ☐ No ☑
Permitted Use of Property	SFR		
Minimum Setback Requirements	Front 25 Rear 25' Left Side 10' Right Side 10' *Setback measured from nearest projecting point of structure to Property Line.*		

Comments: 2 trees required.

I hereby certify that all of the information provided for this application is, to the best of my knowledge, accurate and complete. I understand that this permit will expire and become invalid unless the work for which it was issued is started within six (6) months of the date of issue or is the work authorized is suspended or abandoned for a period of one (1) year.

Signature of Applicant

To the best of my knowledge, this application is deemed complete and approved based on the information provided to me and my knowledge of the Town of Troutman Unified Development Ordinance.

Signature of Zoning Administrator

Iredell County
Planning & Enforcement
227 S. Center St. PO Box 788
Statesville, NC 28687
704-878-3113

Zoning Permit

Permit Number: 140182ZO

Master #: 140182

Associated Permits:
140182ZO Zoning

Applicant

Name: S&ME INC. ENGINEERING (Toney Jacob **Phone:** 704-662-8625
Address: 105D DENVER BUSINESS PARK DR
Mooresville, NC 28115

Parcel

Parcel Number: 4730109262.624
Address: 000 Timber Lake Lp.
Mooresville, NC 28115
Subdivision: Parkwood at Falls Cove Ph 6
Zoning: RA
Township: 1500
Area: 44119
Lot(s): 624
Directions to Parcel: South on Morrison Farm Rd, left on Silver Falls Dr, left on Timber Lake Lp, 7th on left

Owners

Name: Falls Cove Dev., LLC
Address: 2215 Brawley School Rd
Mooresville, NC 28115

Contractors

Contractor Type: Enviromental Services
Name: S&ME INC. ENGINEERING (Toney Jacobs) **Phone:** 704-662-8625
Address: 105D DENVER BUSINESS PARK DR
Mooresville, NC 28115

Fees and Receipts:

Number	Description	Amount
FEE-142995-07	Zoning - Permit / Inspection	$45.00
FEE-143130-07	Environmental Health - Type I or II Fast Track	$200.00
	Total Fees:	**$245.00**

Total Receipts: $0.00

Conditions

Date: **Status:** **Code:**

Condition Description:

Condition Comments:

Permit Information:

Max Built Upon Area:	
Watershed:	WSIV-CA
Flood Zone:	No
Set Backs:	F35 R50 LS15 RS15
Minimum Lot Size:	25000
Minimum Lot Width:	100
Min # Parking Spaces:	
Land Use Permitted:	Yes
Community Sewer:	No
Site Plan Reviewed:	
Staff:	
Zoning Permit:	Yes
Septic Typet:	New System
Proposed Use:	Single Family
Property Recorded:	No
Community Water:	Yes
Provider:	Town of Troutman
Provider:	
Date:	
# of Stories:	0
# of Bedrooms:	0
# of Units in Building	0

Site Plan Conditions:

Zoning Permit Comments: Hold building permit until plat is recorded