IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 230828

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

PIN # 4634994092

APPLICANT/OWNER: Kingswood Custom Homes APPLICANT ADDRESS: 115 College St. Pineville NC 28134

SITE ADDRESS: 255 Knoxview Lane, Mooresville NC 28117 PHONE: 704 889 1600 ALT. PHONE —

SITE DIRECTIONS: I-77 South ⓡ on Langtree Rd ⓛ on Knoxview Lane SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Kings Landing SECTION: — LOT # 20 LOT AREA: .68 Acres DESIGN FLOW: 480 gpd L.T.A.R.: .30

Septic Tank	1000 (gal)	STB	ALIN-11-16 Date	☐ New System	☐ Repair	☒ Expansion	System Type: I II (III) IV V VI	☒ Residence	No. Bedrooms 4
Pump Tank	1000 (gal)	PT	ALIN-11-16 Date	System Description:	Existing 25% - Pressure manifold			☐ Business	No. Persons 8
Pump Make	Zoeller Model	N 140	Serial #	Repair System Description:	LP Panel Block 50% Reduction			☐ Other	No. Employees
# Nitrification Fields	EXT # Lines	EXT	Linear Ft EXT	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☐ Crawl Space
Trench Width	EXT Trench Bottom Depth(Low side)	EXT	Gravel Depth EXT		☐ GRAVITY	☒ PRESSURE		☒ Basement w/plumbing	☐ Basement w/o plumbing

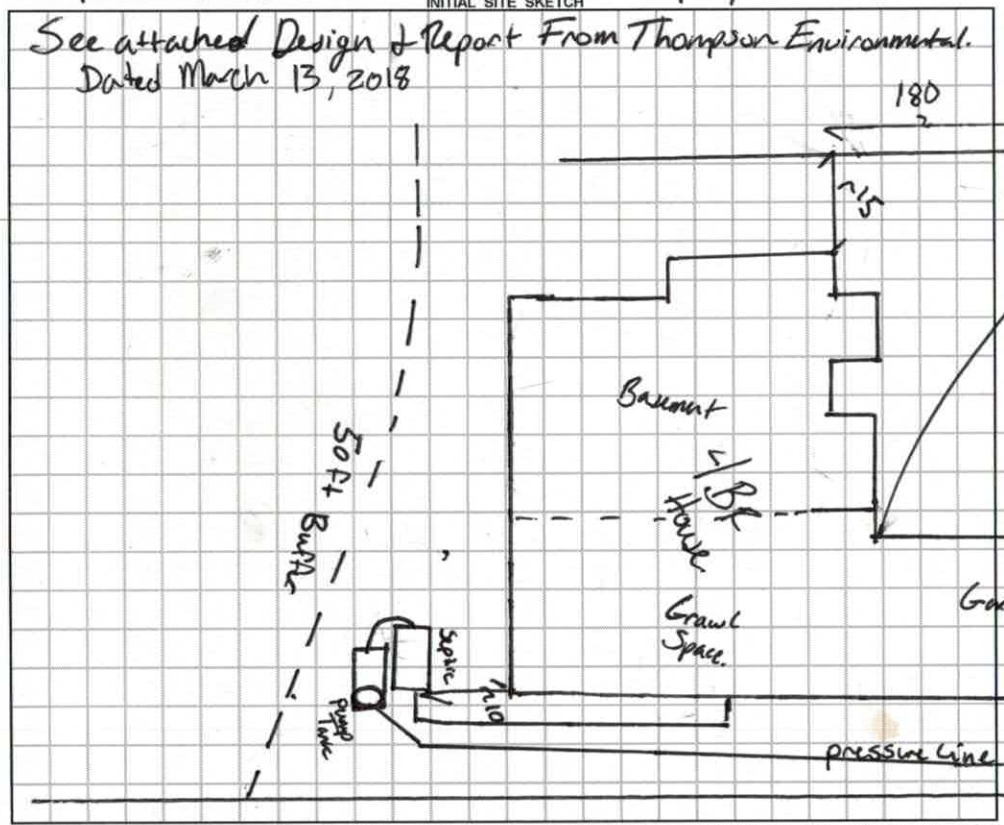
Water Supply: ☐ Private ☒ Public ☐ Community

Comments / Conditions: Crush & Fill existing Septic and Pump Tank. Install new tanks as shown. Soft Buffer must be staked prior to installation. Pumpline must remain a min of 5ft from Property Line.

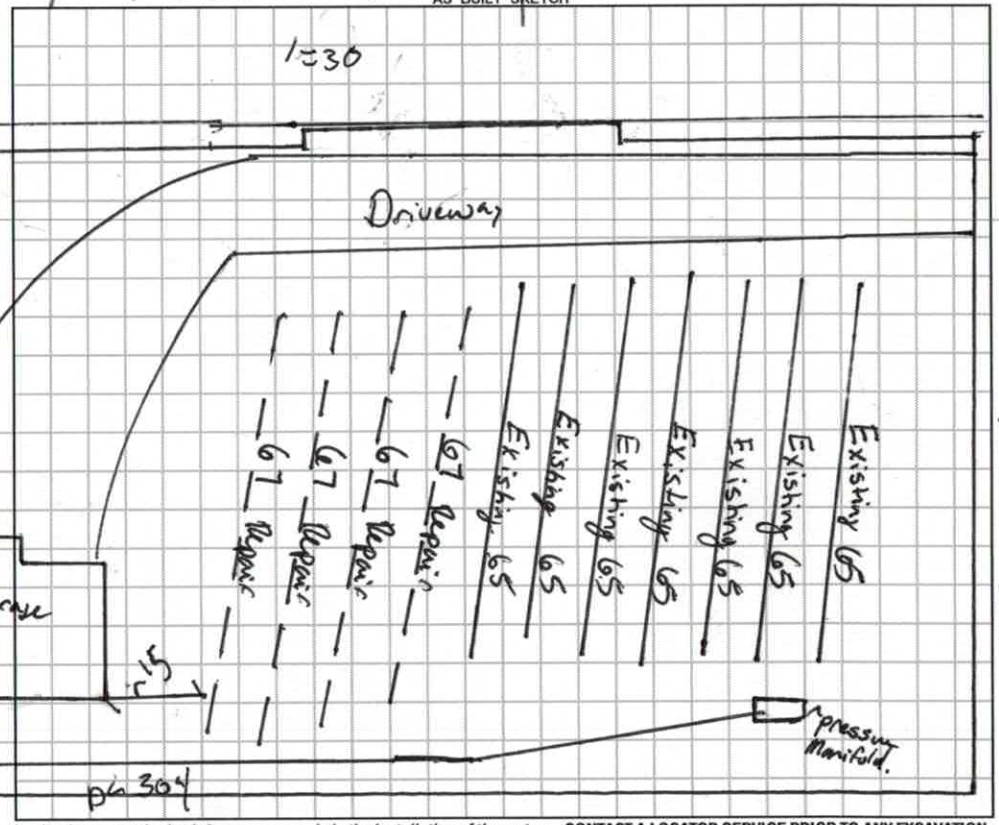
* No whole-Home ejector pump allowed *
Only basement fixtures maybe on ejector pump.
1/25/19 Set 2ft pressure head

INITIAL SITE SKETCH

See attached Design & Report From Thompson Environmental.
Dated March 13, 2018



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**

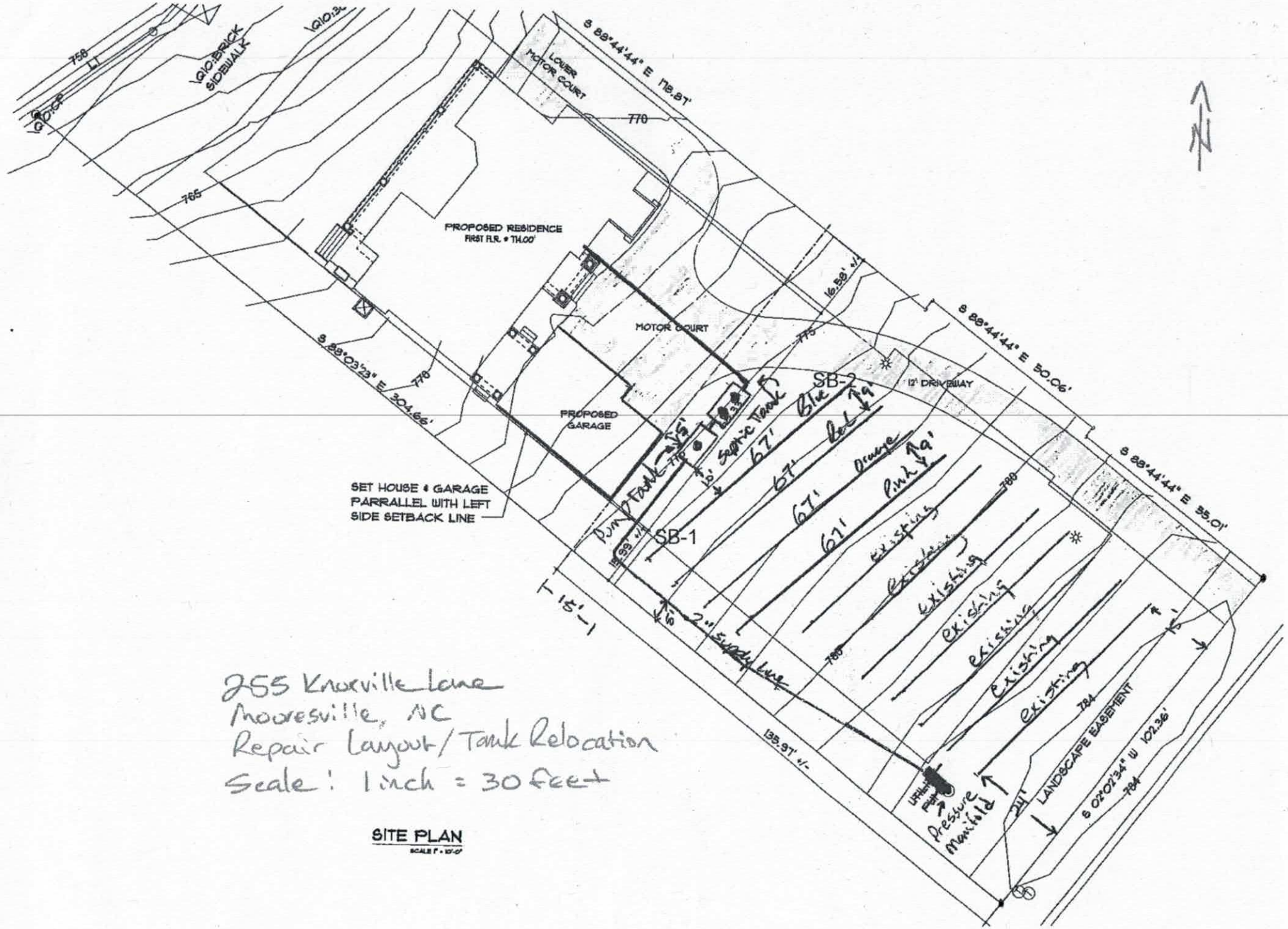
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Date: Installed by: Specialty Septic

IMPROVEMENT PERMIT by: Benjamin A Bolton Date: 1/9/2019 OPERATION PERMIT by: Kayla Watson Date: 3-14-19

AUTHORIZATION TO CONSTRUCT by: Benjamin A Bolton Date: 1/9/2019 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.



255 Knoxville Lane
Mooresville, NC
Repair Layout / Tank Relocation
Scale: 1 inch = 30 feet

SITE PLAN
SCALE 1" = 10'-0"

RECEIVED MAR 13 2018

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

Lot 20 – Kings Landing
255 Knoxview Lane
Mooresville, North Carolina 28117

Tax Parcel # 4634994092
March 13, 2018

Prepared for:

Brian Hedgepeth, AC
Managing Partner
Kingswood Homes
115 College Street
Pineville, NC 28134



Prepared by:

Larry Thompson, REHS, PWS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
Fax: 206-350-8895
larry@thompsonenv.com



cc: Benjamin Botkins, REHS
Iredell County Environmental Health

Details

Kingswood Homes has contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare a septic repair proposal for a 4-bedroom single family residence to be located at 255 Knoxview Lane, Mooresville, North Carolina.

Based upon a soil and site evaluation performed by TEC on the 0.68-acre lot, we have determined that a sufficient amount of "Provisionally Suitable" soil is available for the installation of a Pump-To Prefabricated Permeable Block Panel System (PPBPS) for both the proposed repair system. The proposed long-term acceptance rate for the soils is 0.3 gpd/sq. ft. The residence will be served by a municipal water source.

Kinswood Homes would like to request that Iredell County Environmental Health (ICEH) issue the appropriate approvals for the construction of a new 4-bedroom residence on the property based upon the following repair proposal.

Location

The subject property is located at 255 Knoxview Lane, Mooresville, NC. From Statesville, take I-77 South to Exit 31. Turn left onto Langtree Road and, at the traffic circle, take the second exit to remain on Langtree Road. Travel approximately 1.1 miles and turn left onto Knoxview Lane. 255 Knoxview Lane will be located on the right.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, July 2016.

Design, Installation and Maintenance of the T & J Panel Wastewater Treatment System; Sixth Edition, published by T & J Panel.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
SC Certified Professional Soil Classifier No. 111
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621
Professional Wetland Scientist No. 1346

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1000 gallons in capacity.
2. The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

B. Pump Tank

1. The pump tank shall be State approved, of one-piece construction, watertight, structurally sound and 1000 gallons in capacity. Again, it is the responsibility of the septic tank contractor to thoroughly inspect each pump tank prior to accepting delivery.
2. All pipe penetrations into the tank shall be booted (i.e., C-293 boot with a stainless-steel strap).
3. The pump tank shall have access risers that extend, at a minimum, 6 inches above finished grade and must have less than 36 inches of fill over its top once finished grade has been established (a reinforced concrete tank will be required if finished soil cover is 36 inches or greater in depth).
4. Floats, pump and control circuits, and the control panel shall meet the requirements of Rule .1952(c). Panel and control equipment shall include lightning protection, be protected from unauthorized access, and remain accessible at all times to the system operator.
5. The pump and alarm controls shall be provided with manual circuit disconnects within a watertight, corrosion resistant, Nema 4x rated control panel. The control panel must be securely mounted outside, adjacent to the pump tank riser and at a minimum of 12 inches above finished grade. Pump and float control wiring should be long enough to reach from the tank to the control panel without splicing, routed through wire conduit, and sealed at the openings within the pump tank as well as the control panel enclosure. It is paramount that the conduit is properly sealed to prevent the escape of flammable gases from the pump tank. Furthermore, <u>there must be two electrical circuits for the pump tank controls: one for the pump and one for the alarm controls</u>.
6. Float switch tie downs must be made of a corrosion resistant material (per OWPS, all metal in the tanks shall be stainless steel). Floats should be mounted on a separate "float tree" rather than the pump supply line (see pump tank detail).
7. The pump removal system will be via a pump tether made of nylon rope or its equivalent. The tether material should be resistant to mildew and rot.

C. Pipes and Fittings

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.

2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.
3. The supply line from the pump tank to the pressure manifold shall be 2-inch Schedule 40 PVC (approximate length of supply line is 125 feet).
4. There shall be a threaded PVC union above each pump to facilitate easy removal of the pumps for maintenance or replacement.

D. Pressure Manifold/Valve Box

1. The control valves (gate valves) for each lateral distribution line shall be contained within one manifold box/vault of adequate size. The box should be placed upon a gravel base.
2. The supply manifold conveys effluent from the pump to the lateral distribution lines.
3. The supply manifold can be constructed by connecting a series of (4) 2" x 2" x 2" tees to create the manifold. The manifold shall have a gate valve on the inlet side and a threaded PVC plug on the opposite end for a threaded standpipe.

E. Backfill

1. Backfill sand shall be clean, washed, medium sand that is naturally occurring and falls within the gradation of ASTM C-33 specification (used in the ready-mix industry and is readily available).

F. Drainfield Installation

1. The drainfield, repair field and the proposed septic tank location have been marked on-site utilizing metal stemmed flags. Once this area has been approved by the county, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the county for a preconstruction conference at which time the repair drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether or not the drain field area is dry enough to begin construction, the environmental health specialist for this area should be contacted for permission to proceed with the installation.
3. The specified system is a pump-to pre-fabricated permeable block panel system – specifically the 16-inch-high panel system manufactured by T&J Panel Wastewater Treatment System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the T&J Panel System and should request an installation manual from the manufacturer prior to beginning construction.
4. The initial drain field consists of four (4) lateral trenches 2 feet wide by one 67 feet in length.
5. It is essential that the lateral trenches be constructed on contour with the land, with each trench being excavated level from beginning to end. The use of a tripod

mounted engineer's level is essential to assure that each trench is constructed as level as possible.

6. The maximum trench depth for this system shall be **32 inches**. Each trench shall be placed on a minimum of 8 foot on centers.
7. Once trenches are dug, the side walls shall be raked, and a light dusting of lime applied.
8. Backfill the trench with 6 inches of sand and level to grade. Once leveled, place 1 x 4 or 6-inch boards on top of the sand the entire length of each trench. Once the grade boards have been set, the panels may be set into the trench. The panels should be placed 6 inches apart.
9. Once the panels have been set, line the top chamber of each panel with 10 – 12 pounds of clean particle sand (medium sand blasting sand). Coverage depth should be approximately 1 inch thick. *Please note that this sand is not the same material specified for backfill.*
10. Tar seal rope, or approved foam, should be placed in the "U" outs of each end of the panel to form seals. Once the tar rope is in place, the 2 inch Schedule 40 PVC connections can be added and the seal completed by the addition of more tar rope on the top and sides of the pipe. Now that the connection and seals are complete, a block cap is placed on each end of the panel so that all openings are covered.
11. The end of each lateral should be fitted with a short turn up topped by a threaded female coupling with cap. Each turn up must be fitted with a turf/gate valve box with lid fitted flush to finished grade.
12. Once the lateral has been installed and the panels closed, the trench is ready to be backfilled to the top with the sand used in the trench bottom. At this point, the trenches should be left open for the final inspection by the ICEH.

G. Proper Operation Check

1. After all components of the waste water disposal system have been installed and connected, the system shall be checked for proper operation.
2. With the electrical power turned off, fill the pump tank with water until the liquid rises to a level high enough to activate the high-water alarm float. Turn on the electrical power. The alarm, alarm light and pump should activate at this time. Turn off the electrical power once these checks have been performed and prepare to set the head pressure at the valve box.

H. Pressure Head Adjustment

1. The pressure head must be adjusted to match the design specifications. The pressure head is measured by the height of the liquid coming from the pressure manifold.
2. Prepare a length of pipe (stand pipe), cut to the desired head pressure height and fitted with a threaded adapter that will screw into the pressure manifold. Turn on pump and adjust the manifold gate valve within the supply manifold box to achieve the specified head pressure (liquid height in the stand pipe should equal the design head pressure).

3. Once the pressure head has been adjusted, allow the pump to run through the remainder of the cycle. The pump float switch will automatically turn the pump off if it is operating properly. Make sure that the effluent pump is completely submerged in the remaining water, making adjustments to the float switch(es) as needed. This completes the checks for proper operation of the pump, alarm and float switches.
4. At this point, the manifold standpipe may be removed and replaced with a threaded plug.

I. Final Landscaping

1. The drainfield shall be shaped to shed rainwater and be free from low spots.
2. The entire area of the drainfield should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

J. Utility/Drive Conflicts

1. The builder and property owner must take special care in planning for utilities (water, power, gas, telephone, cable lines, etc.). All utilities shall be kept clear of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation.
2. Water lines must be kept at least ten (10) feet from any portion of the septic system.
3. Irrigation systems should not be placed in the drain field area.
4. The builder must also take special care in planning for a drive into the property. The driveway must be installed along the property sideline to allow enough clearance for the proposed repair drainlines.

Maintenance

K. Operation and Maintenance

1. The designed repair system will require ongoing maintenance. The local health department is required to inspect the system once every three years.
2. The septic and pump tanks shall be pumped out when the solids within the septic tank reach an elevation that is equivalent to 25% of the volume of the tank. In some situations, the tanks may need to be pumped more frequently; for example, if you are using a garbage disposal, it is recommended that the septic and pump tanks be cleaned out annually.
3. Pressure head for the manifold should be checked and adjusted annually, flushing with clean water as necessary to remove any accumulated solids.
4. The effluent filter should be inspected annually. When it becomes necessary to clean the effluent filter, the filter should be removed, and the accumulated debris washed back into the septic – not onto the lawn.

5. All piping and valves should be inspected annually for damage and corrections/repairs made immediately.
6. The pump and float controls/switches should be inspected annually to assure proper operation.
7. The drainfield area should be maintained to prevent over growth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
8. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

L. Suggestions to the Homeowner

1. As previously mentioned, a garbage disposal is not recommended. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.
2. Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
3. Used motor oil or any oily liquids should not be disposed of in a septic tank.
4. Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drain field.
5. Run dishwashers and washing machines only when you have a full load.
6. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
7. Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

Repair Design Specifics

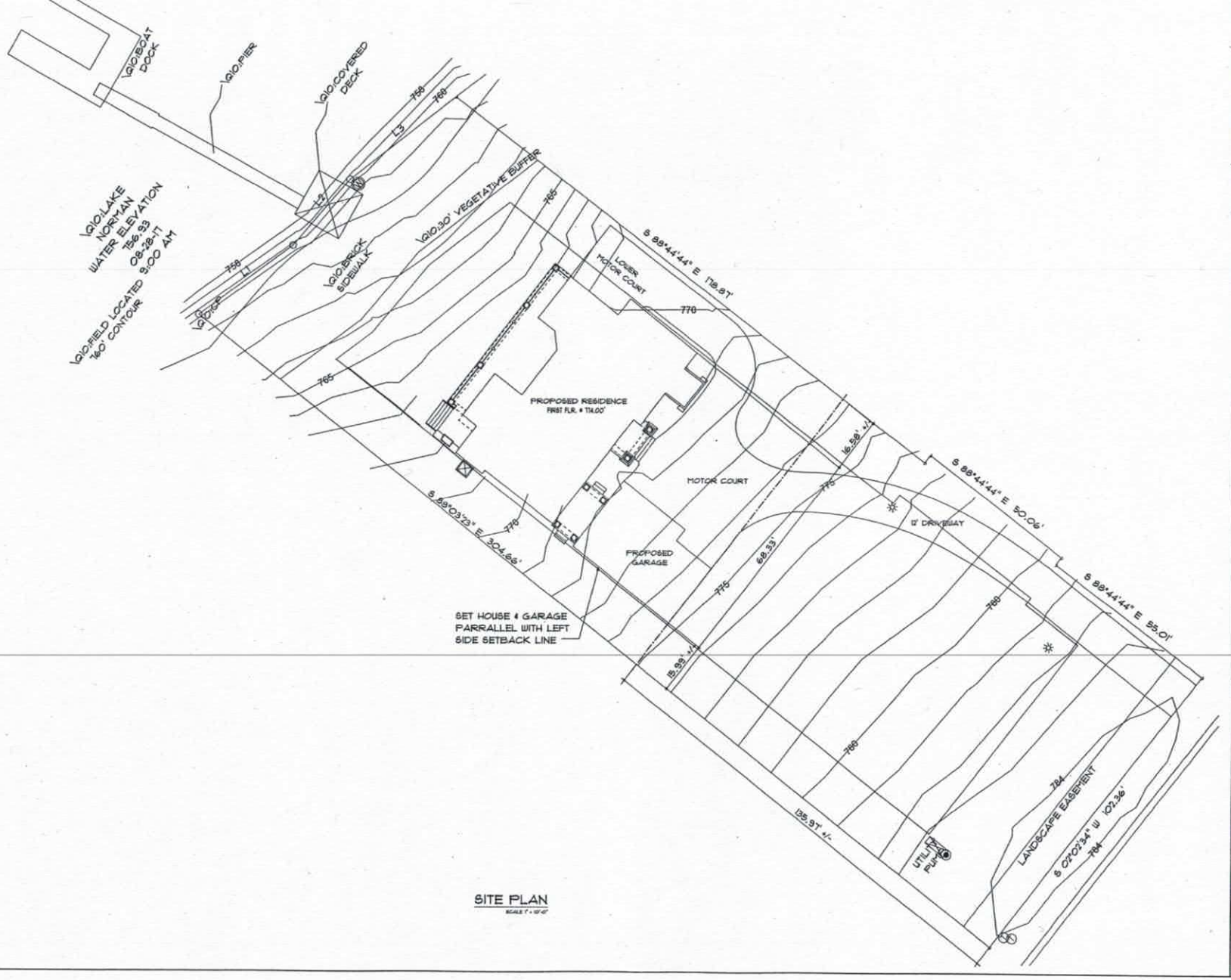
Daily Design Flow:	480 GPD – 4 Bedrooms
Septic Tank Size:	1000 Gallons
Pump Tank Size:	1000 Gallons
Effluent Loading Rate:	Design = 0.3 GPD sq. ft. (50% reduction - PPBPS)
Supply Line Size:	2 Inch
Supply Line Length:	Approximately 125 Feet
Number and Size of Drainlines:	(4) 2' Wide x 67' Long
Total Length of Drainline:	270 Feet
Maximum Trench Depth:	32 Inches Deep

Drainline Spacing:	8 Foot on Centers
Total Number of Panels:	60
Dosing Volume:	216 gallons per dose
Flow Rate Through System:	21.92 gallons per minute
Elevation/Friction Head:	10 feet
Pressure Head:	2 feet
Pump Requirements:	21.92 GPM at 10 Feet TDH
Check Valve Required:	Yes
Depth of Water Pumped:	Determined by Tank Size (1 Cu. Ft. of water = 7.48 Gal.)

PPBPS Design Worksheet		
System Requirements		
Design Flow	480	gpd
LTAR	0.300	gpd/ft.^2
Linear footage	533	ft. (conventional)
Linear footage	267	ft. (50% Reduction)
Design Layout		
Laterals	Length (ft)	# Panels
Line # 1	67.5	15
Line # 2	67.5	15
Line # 3	67.5	15
Line # 4	67.5	15
Totals	**270**	**60**
Absorption Area		
Length (ft)	Width (ft)	Area (ft^2)
270	2	540

File #:	
Tax #:	4634994092
Address:	255 Knoxview Lane
	Kings Landing - Lot 20
Consultant:	Larry Thompson
Phone:	704-301-4881
Reviewed By:	
Date:	

T & J Panels	
Linear Feet	# Panels
50	11
60	14
70	16
80	18
90	21
100	23



SITE PLAN

SCALE 1" = 10'-0"

ENGINEERED BY:

PROJECT:

JONES RESIDENCE

NOTE: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS AND ANGLES IN FIELD.

704-320-5201

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DATE:

MARCH 12, 2018

SHEET

SP-1

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

Property ID: 4634994092
Lot #: 20

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

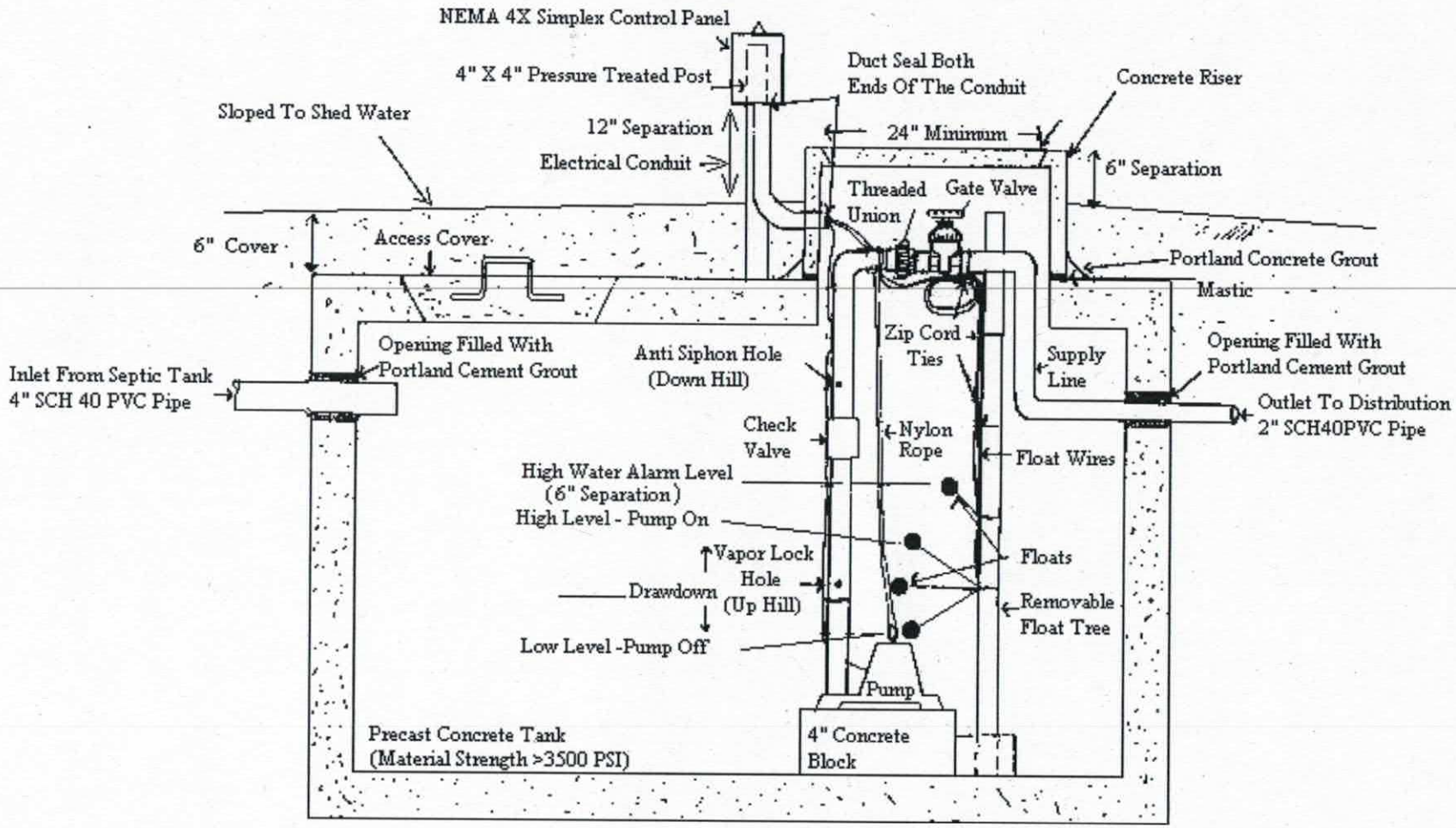
Owner: Mark and Theresa Jones
Applicant:
Address: PO Box 33461, Charlotte, NC 28233
Date Evaluated: 12/18/2017
Proposed Facility: Residence Design Flow (.1949) 480 GPD
Property Size: 0.68 acre
Location of Site: 255 Knoxview Lane, Mooresville, North Carolina
Property Recorded:
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		b PROFILE FACTORS				Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	
1	LS 8%	0-5	SBK/CL	FR/NS/NP/NE	N/A	46	N/A	N/A	PS 0.3
		5-22	SBK/C	FI/SS/SP/SEXP					
		22-46	SBK/C	FI/SS/SP/SEXP					
		46+	M/CL	FI/SS/SP/SEXP					
2	LS 8%	0-6	SBK/CL	FR/NS/NP/NE	N/A	48+"	N/A	N/A	S 0.3
		6-24	SBK/C	FI/SS/SP/SEXP					
		24-48	SBK/C	FI/SS/SP/SEXP					

Description	Initial System	Repair System
Available Space (.1945)		PS
System Type(s)		PPBPS
Site LTAR		0.3

Other Factors (.1946):
Soil Evaluation By: Larry Thompson, LSS
Others Present:
Site Classification (.1948): Provsionally Suitable
Site Evaluation By:
Others Present:

Recommended Pump Tank Design



Thompson Environmental Consulting, Inc
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 4634994092

Location: 255 Knoxview Lane

Date: March 13, 2018

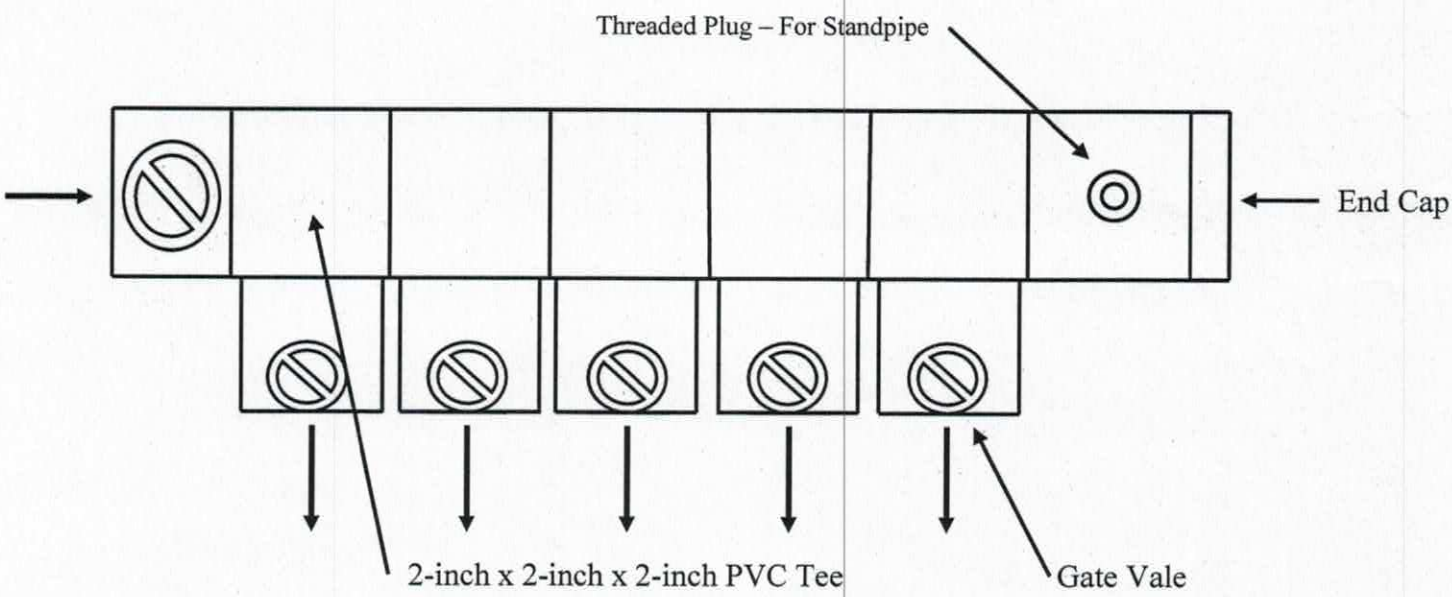
Thompson Environmental Consulting
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 4634994092

Location: 255 Knoxview Lane

Date: March 13, 2018

Recommended PPBPS Manifold Setup



ATTN: Ben DOT Mills 10:00 on Thursday

RECEIVED MAR 13 2018

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Paid $850.00

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) Septic Improvement Permit ( ) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair
Fast Track by Larry Thompson

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 #230828

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: Kingswood Custom Homes Address: 115 College St., Pineville, NC Zip: 28134
Applicant Email: Brian@Kingswoodhomes.com Phone: 704-889-1600 Alt. Phone: _____
Owner Name: _____ Address: _____ Zip: _____
Owner Email: _____ Phone: _____ Alt. Phone: _____

Property Information:

Street Address: 255 Knoxview Ln, Mooresville, NC 28117
Subdivision Name: Kings Landing Section/Phase: _____ Lot Number: 20
Driving Directions: I77 south, R at Longtree Rd, L at Knoxview Lane

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

(X) New Single Family Residence Maximum Number of Bedrooms: 4
( ) New Multi-Family Residence Maximum Number of Occupants: 2
( ) Accessory Building ( ) Swimming Pool
( ) Bedroom(s) Addition ( ) Other Addition/Structure: _____
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____
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: _____

( ) 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 ( ) Other: _____

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: BK, Kingswood Custom Homes, Inc. 3/12/18
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

* No - will have jetted pump - Septic only *

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, Mark Jones, am the legal owner(s) of the property located at 855 Knoxview Ln, Mooresville, NC 28117, identified as PIN (Parcel Identification Number) 4600814448, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Kingswood Custom Homes Inc. + Larry Thompson, 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: 3/12/18

Signature of Witness — Date: 3.12.18

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

Int. Redraw 230828

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

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

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Place an (X) beside whichever is submitted if applicable

Applicant Information: (PRINT CLEARLY)

Applicant Name: Kingswood Custom Homes Address: 115 College St, Pineville NC Zip: 28134
Applicant Email: thomas@kingswoodhom.com Phone: 704-941-5913 Alt. Phone: 704-889-1600
Owner Name: Mark Jones Address: 255 Knoxview Lane, Mooresville NC Zip: 28117
Owner Email: _____ Phone: _____ Alt. Phone: _____

Property Information:

Street Address: 255 Knoxview Lane, Mooresville NC
Subdivision Name: Kings Landing Section/Phase: M2 Lot Number: 20
Driving Directions: I77 - exit 31 West on Langtree, left on Knoxview

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

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
(X) Repair to failing septic system

Maximum Number of Bedrooms: ~~3~~ 4 TF
Maximum Number of Occupants: ~~5~~ 4 TF
( ) Swimming Pool
( ) Other Addition/Structure: _____
~~X~~ Tank ___ Drain lines Describe Problem: Installing New tanks and pump

CHECK FOUNDATION TYPE

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

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

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

( ) New Well ( ) Existing Well (X) 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 ( ) Other: _____

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: _____ 12/11/18
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, Mark A Jones, am the legal owner(s) of the property located at 255 Knoxview Cove Mooresville NC, identified as

PIN (Parcel Identification Number) 4634 94 0092.000, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Kingswood Homes, Thomas Feinstein Mack, 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.

_____ 12-19-18

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

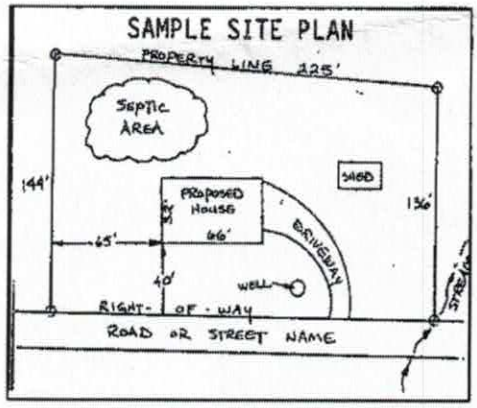
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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
- ( ) Preferred well location N/A
- (X) Preferred septic system location
- (X) North arrow, or other sufficient indicator of direction

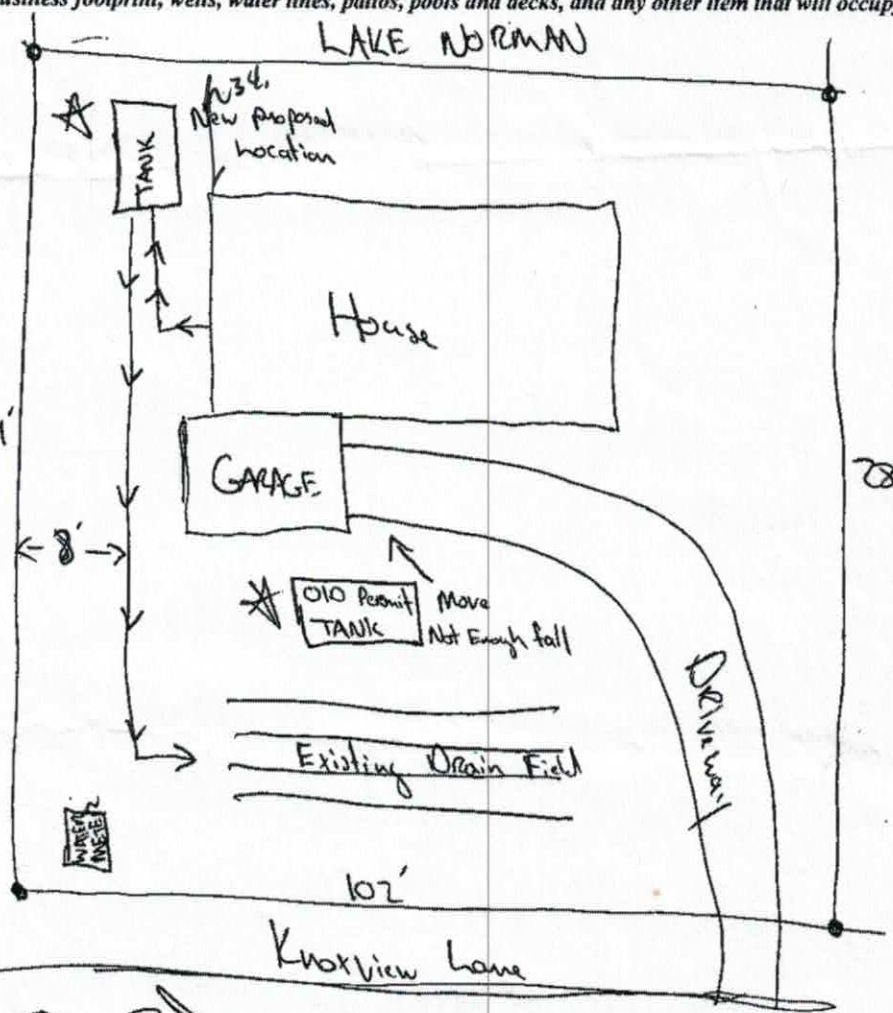


Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property (Neighbor) 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

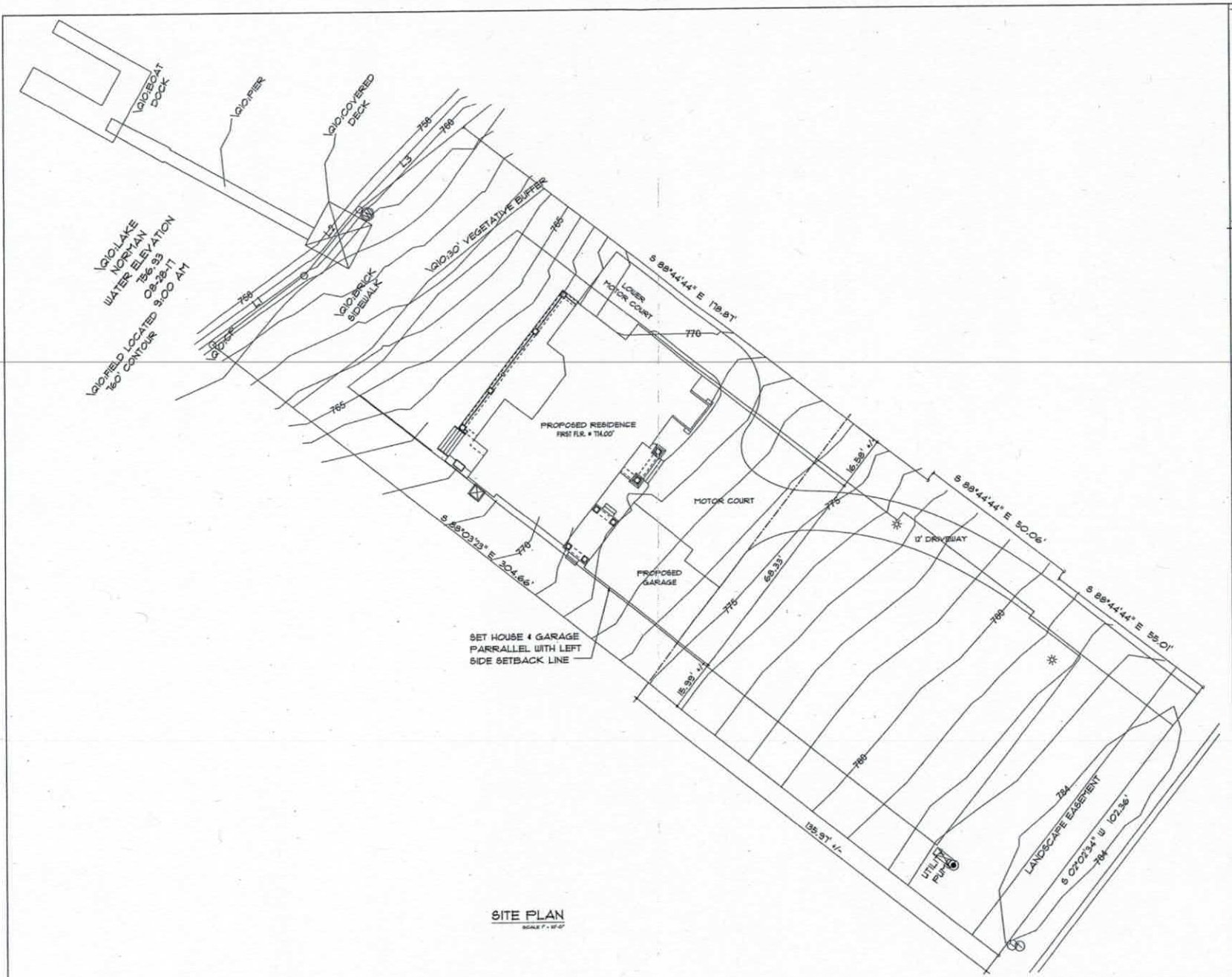
Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site



* Proposed relocation of tanks from previous Application. Not enough fall from house as originally designed.

Signature: _____ **DATE** 12/11/18

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



SITE PLAN

SCALE 1" = 10'-0"

ENGINEERED BY:

PROJECT:

JONES RESIDENCE

NOTE: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS AND ANGLES IN FIELD.

704-320-5201

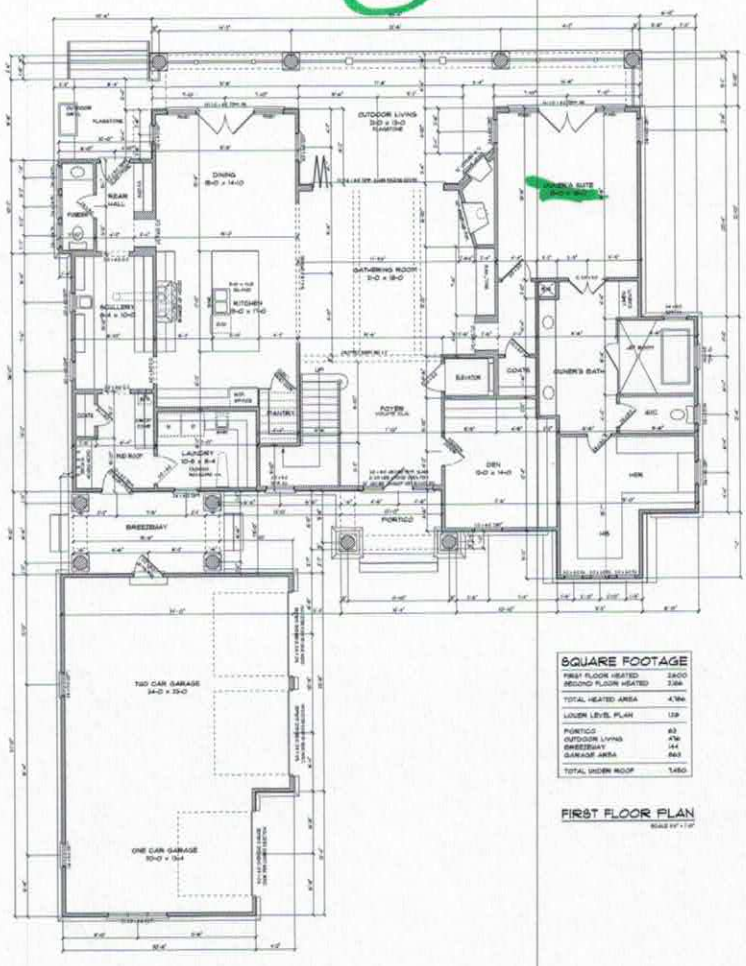
© 2018 COPYRIGHT: REFLECTIVE DESIGNS
THESE PLANS THEY ARE PROTECTED UNDER THE FEDERAL COPYRIGHT ACT, 17 U.S.C. 101 ET SEQ. ANY REUSE OF THESE PLANS PROHIBITED.

DATE:
MARCH 12, 2018

SHEET
SP-1

Acknowledgement Of
Plans Submittal ONLY!
Date 3/26/18
Date 3/27/18

P.O. Box 691286
Mint Hill, NC 28227
tel: 704-545-2928



SQUARE FOOTAGE	
FIRST FLOOR HEATED	2600
SECOND FLOOR HEATED	2186
TOTAL HEATED AREA	4786
LOWER LEVEL PLAN	139
PORTICO	83
OUTDOOR LIVING	476
BREEZEWAY	144
GARAGE AREA	863
TOTAL UNDER ROOF	5480

FIRST FLOOR PLAN

PROJECT:
THE JONES RESIDENCE

© COPYRIGHT 2017

ELITE DESIGN GROUP

DRAWN BY:

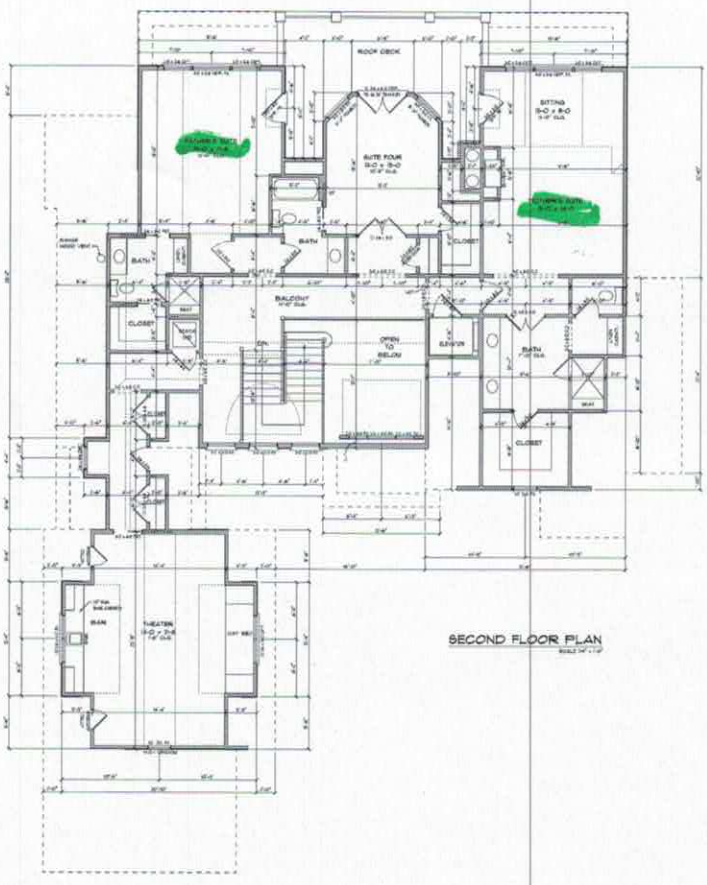
DATE:
October 23th, 2017

REVISED:

SHEET
OF 15

Acknowledgement Of
Plans Submittal ONLY!
Date 3/26/18
Date 3/27/18

P.O. Box 691286
Mint Hill, NC 28227
tel: 704-545-2928



SECOND FLOOR PLAN

PROJECT:
THE JONES RESIDENCE
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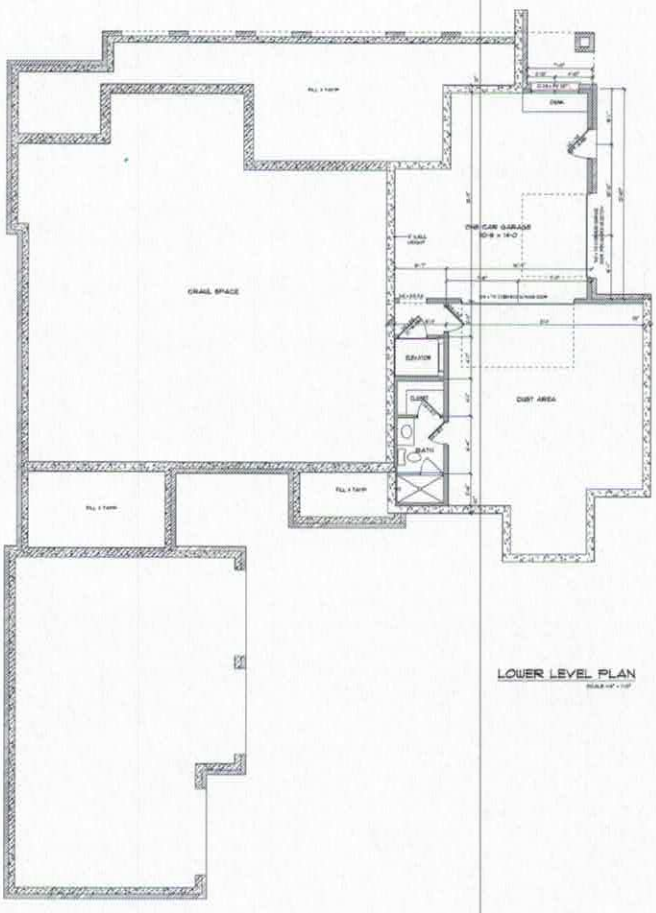
ELITE DESIGN GROUP

DRAWN BY:
DATE:
October 25th, 2017
REVISED:

SHEET ____
OF 15

Ack[illegible]ement Of
Pl[illegible]al ONLY!
Benjamin Bell Date 3/20/2018.
Date 3/27/18

P.O. Box 681286
Mint Hill, NC 28227
tel: 704-545-2928



LOWER LEVEL PLAN

PROJECT:
THE JONES RESIDENCE

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ELITE DESIGN GROUP

DRAWN BY:

DATE:
October 23th, 2017

REVISED:

SHEET ____
OF 15