SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

☒ NEW SEPTIC ☐ REPAIR ☐ USE EXISTING ☐ MODIFIED PLOT PLAN ☐ ALTERATION

File Number: _____

Assigned Inspector: _____

☐ IP $250.00: _____Initial/Date

☐ IP Commercial $450.00: _____ Initial/Date

☐ CA & OP $400.00: _____ Initial/Date

☐ Alteration Fees $300: _____Initial/Date

☐ Modified Plot Plan Fees $100.00: _____Initial/Date

☐ Use Existing Fees $100.00: _____Initial/Date

☐ Use Existing Approved ☐ Use Existing Denied

☐ Send IP permit for signature: _____ ☐ Signature received: _____

☐ Floor plans reviewed

☐ Generate CA ☐ Approve as Noted in Winchester

☐ This site is served by septic and well. Verify each is complete before final hold is released

☐ This septic system requires a certified operation contract before final hold is released

☐ Certified operator contract is on file: _____

☒ Septic file complete: 7/10/23

☐ Release final hold in Winchester: _____

Comments:

Septic Complete

AGENT AUTHORIZATION FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PHASE _____ PARCEL ID: 19715403

STREET ADDRESS: 11915 Everidge Place
Mint Hill, NC 28227

Please print:

Property Owner: Santiago and Noemi Cruz

Property Owner: _____

The undersigned, registered property owners of the above noted property, do hereby authorize

Larry Thompson, LSS, of Thompson Environmental Consulting, Inc.
(Contractor / Agent) (Name of consulting firm)

to act on my behalf and take all actions necessary for the processing, issuance and acceptance of this permit or certification and any and all standard and special conditions attached.

Property Owner's Address (if different than property above):
11915 Everidge Place Mint Hill, NC 28227

Telephone: 336-252-4549

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3).

Owner Signature:
Santiago Cruz (Aug 28, 2022 07:50 EDT)

Date: Aug 28, 2022

Owner Signature: Noemi Cruz

Date:

Residential Subsurface Wastewater Treatment and Disposal System Proposal

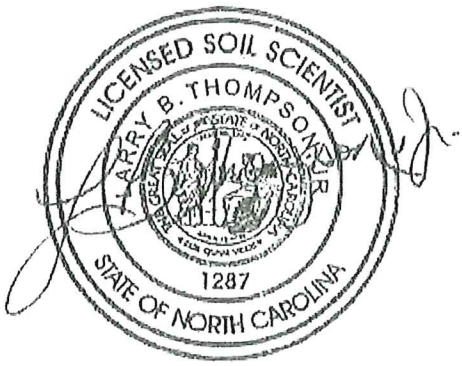
for

11915 Everidge Place
Mint Hill, NC 28227

Tax Parcel # 19715403
August 27, 2022

Prepared for:

Santiago and Noemi Cruz
11915 Everidge Place
Mint Hill, NC 28227
336-252-4549



Prepared by:

Larry Thompson, REHS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
info@thompsonenv.com



Details

Mr. and Mrs. Cruz have contracted with Thompson Environmental Consulting, Inc. (TEC) to develop a proposal for an on-site wastewater treatment and disposal system that would allow for the construction of a 4-bedroom single-family residence served by a private well to be located at 11915 Everidge Place, Mint Hill, North Carolina.

Based upon an investigation performed by TEC, it was determined that a sufficient amount of "Provisionally Suitable" Group IV soil is available within the project study area for the installation of a **Pump-To Accepted System** with a Subsurface Drip Dispersal repair, for a 4-bedroom residence.

The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3). The owners would like to request that the Union County Environmental Health issue an Improvement Permit for a 4-bedroom residence based upon the following proposal and the enclosed Licensed Soil Scientist Evaluation.

Location

From Charlotte, take Hwy 27 to Cabarrus Road, turn right on Ferguson Road, turn left onto Brief Road, turn right on Langtree Lane, and right on Everidge Place. Lot is 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, April 1, 2017.

Accepted Wastewater System No. AWWS-2005-02-R6; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, August 21, 2015.

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

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1,000 gallons (minimum) in capacity.
2. The septic tank will be fitted with an approved effluent filter.
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 1,000 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. The pump and alarm controls shall be provided with manual circuit disconnects within a watertight, corrosion resistant, Nema 4x rated control panel. 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, there must be two electrical circuits for the pump tank controls: one for the pump and one for the alarm controls.
5. Panel and control equipment shall include lightning protection, be protected from unauthorized access, and always remain accessible to the system operator.
6. 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. Pipe, Fittings and Supply Line

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC and fitted with pressure rated couplings.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.
3. Supply line will be approximately 115 feet long and consist of a 2-inch SCH 40 PVC pipe with pressure fittings.

D. Pressure Manifold

1. A pressure manifold shall be used to distribute wastewater to five drainlines.
2. The pressure manifold shall be contained within an adequately sized box/vault that is designed to allow for drainage of effluent that may accumulate in it during flushing and head pressure adjustments. The box should be placed upon a gravel base.
3. A gate valve shall be provided at the pressure manifold box to allow for final pressure adjustment (2 foot of head pressure as per design).
4. The pressure manifold shall be constructed of SCH 80 PVC.
5. There shall be 5 taps - (2 taps) 1 inch SCH. 40 PVC and (3 taps) 1 inch SCH 80 PVC - direct thread or saddle).

D. Drainfield Installation

1. The drainfield has been previously laid out on-site utilizing metal stemmed flags. The property owner/builder should mark this area and isolate it as much as possible from construction traffic
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition.
3. The specified system is an accepted wastewater system, specifically the Infiltrator Quick 4 chamber system or any other system with a state-approved 25% reduction in required drainline length.
4. The drainfield consists of six (6) lateral trenches, (2) 3-foot wide by 76-ft long, a 3-foot wide by 84 ft long, a 3-foot wide by 92 ft long and a 3-foot wide by 32 feet long serial fed to a 3-foot wide by 60-foot long. The total trench length is 420 feet.
5. The maximum trench depth for this system shall be **18 inches on the first 4 lines (upper four drainlines) and the last 2 lines at 13 inches (lower two drainlines).**
6. The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.
7. The trenches should be left open for the final inspection by the health department.

E. Final Landscaping

1. The final soil cover over the drainfield shall be a minimum of 6 inches deep.
2. The drainfield shall be shaped to shed rainwater and be free from low spots.
3. The drainfield area 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.

F. Utility Conflicts

1. The builder and property owner must take special care in planning for water, power, gas, telephone, and cable lines. These utilities shall be kept clear of all parts 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. Lawn irrigation should not be placed over the drainfield area.
3. If there are any questions regarding preferred routes, contact the health department as soon as possible.

Maintenance

G. In General

1. The homeowner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 25 percent of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. When it becomes necessary to clean the effluent filter, the filter should be removed, and the accumulated debris washed back into the septic tank – not onto the lawn.
4. Any damp areas, leakages, or malfunctions in the drainfield area should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

Design Specifics

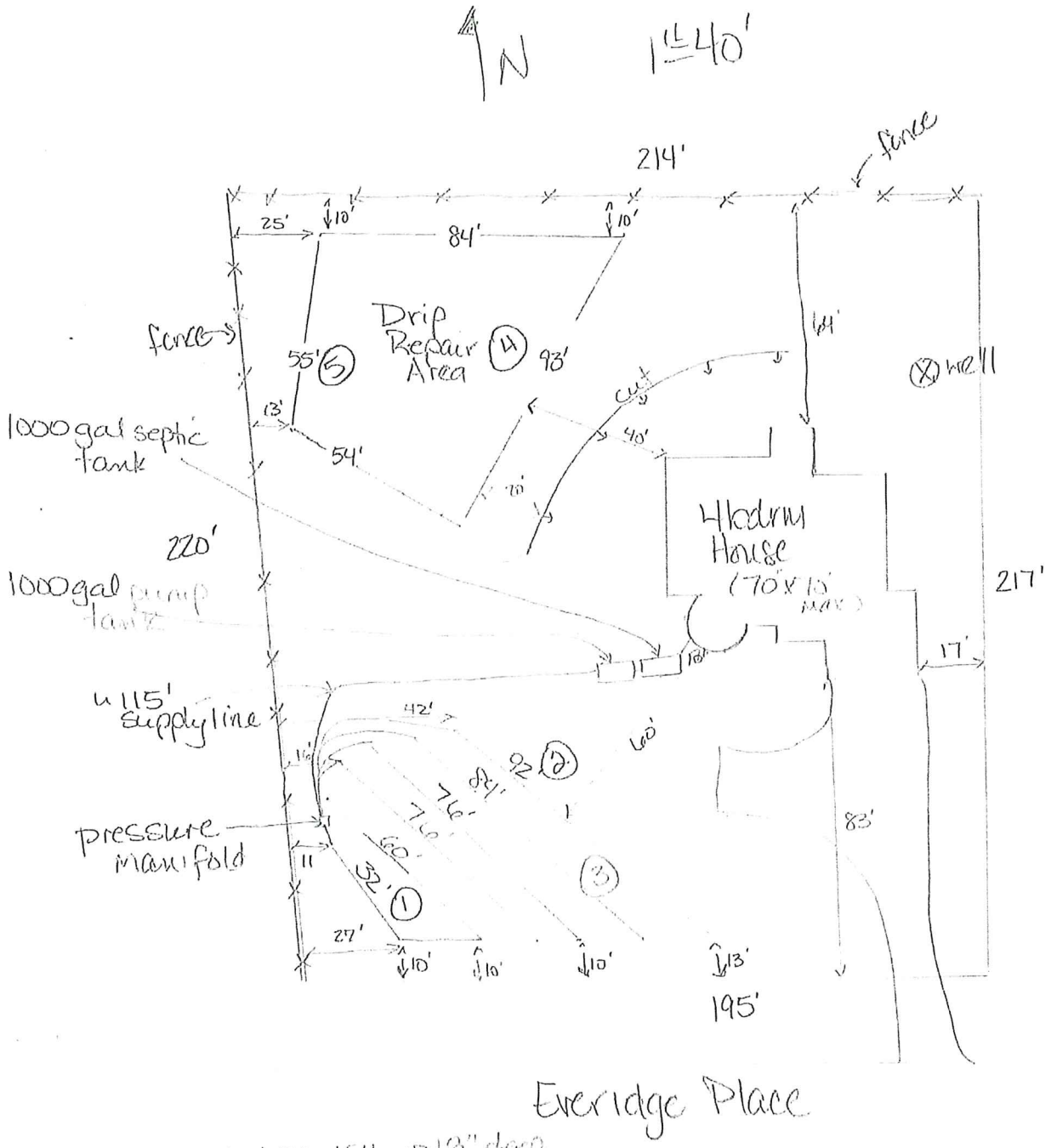
Daily Design Flow:	480 GPD – 4 Bedroom Home
Long Term Acceptance Rate:	0.3 GPD/sq/ft
Septic Tank Requirements:	1,000 Gallon Septic Tank
Pump Tank Requirements:	1,000 Gallon Pump Tank
Pump Requirement:	29.03 GPM at 18-ft TDH
Recommended Pump:	Liberty LE40
Drainfield Type:	Infiltrator Quick4 Plus Standard
Distribution Method:	Pressure Manifold with 5 taps
Taps:	(4) 1-inch SCH 80 PVC taps For the upper four drainlines (1) 1" SCH 40 PVC taps for the For the two lower drianlines

Number of Drainlines:	6 (Upper two drainlines serial fed from 1 tap)
Drain Lines:	(1) 3-ft Wide x 32-ft Long (1) 3-ft Wide x 60-ft Long (1) 3-ft Wide x 76-ft Long (1) 3-ft Wide x 76-ft Long (1) 3-ft Wide x 84-ft Long (1) 3-ft Wide x 92-ft Long Note: 32-ft and 60-ft serial fed
Total Trench Length:	420 Linear Feet
Maximum Trench Depth:	18 Inches - Upper 4 lines (32, 60, 76 and 76 feet long) 13 Inches - Lower 2 lines (84 92 feet long)
Pump Run Time:	12.40 Minutes
Pump Draw Down:	10 Inches
Final Cover Requirement:	6 Inches (minimum)

Repair Option

Effluent Loading Rate:	0.1 GPD per sq. ft.
Drainfield Type:	Subsurface Drip Dispersal
Required Linear Footage:	2,400 Feet
Available Linear Footage:	2,400 Feet
Maximum Trench Depth:	6 Inches

11915 Everidge Place



Everidge Place

Lines = 32', 60', 76 d 76 → 18" deep.
84 d. 92 → 13" deep.
Lines 32' & 60' are small feed.

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

PROPERTY ID #: 19715403
COUNTY: Meck.

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Cruz
ADDRESS:
PROPOSED FACILITY: Res. PROPOSED DESIGN FLOW (.1949): 480 gpd
LOCATION OF SITE: 11915 Everidge Place
WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut

DATE EVALUATED: 8/22/2022
PROPERTY SIZE: 0.89
PROPERTY RECORDED:

TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	L 5%	0-11 11	sl cl sbk sl	friable fissp					PS 0.3
2	L 15%	0-30 30	sic sbk sicl	friable fissp		30"			PS 0.3
3	L 9%	0-33 33	sic sbk sicl	friable fissp		33			PS 0.3
4	L 14%	0-18 18-21 21	sic sbk c sbk R	friable fissp		21"			PS 0.1

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted	Drip
Site LTAR	0.3	0.1

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Provsionally Suitable
EVALUATED BY: Glas
OTHER(S) PRESENT: Glas
L. Thompson, LSS

LICENSED SOIL SCIENTIST LARRY L. THOMPSON JR. 1287 STATE OF NORTH CAROLINA

COMMENTS:

Updated February 2014

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet 2 of 2

PROPERTY ID #: 19115403

DATE OF EVALUATION: 8/27/2022

COUNTY: Meck

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	1 10%	0-4	vfbk	Fissip	10YR 5/2				PS 0.1
		4-14	sbk	Fissip					

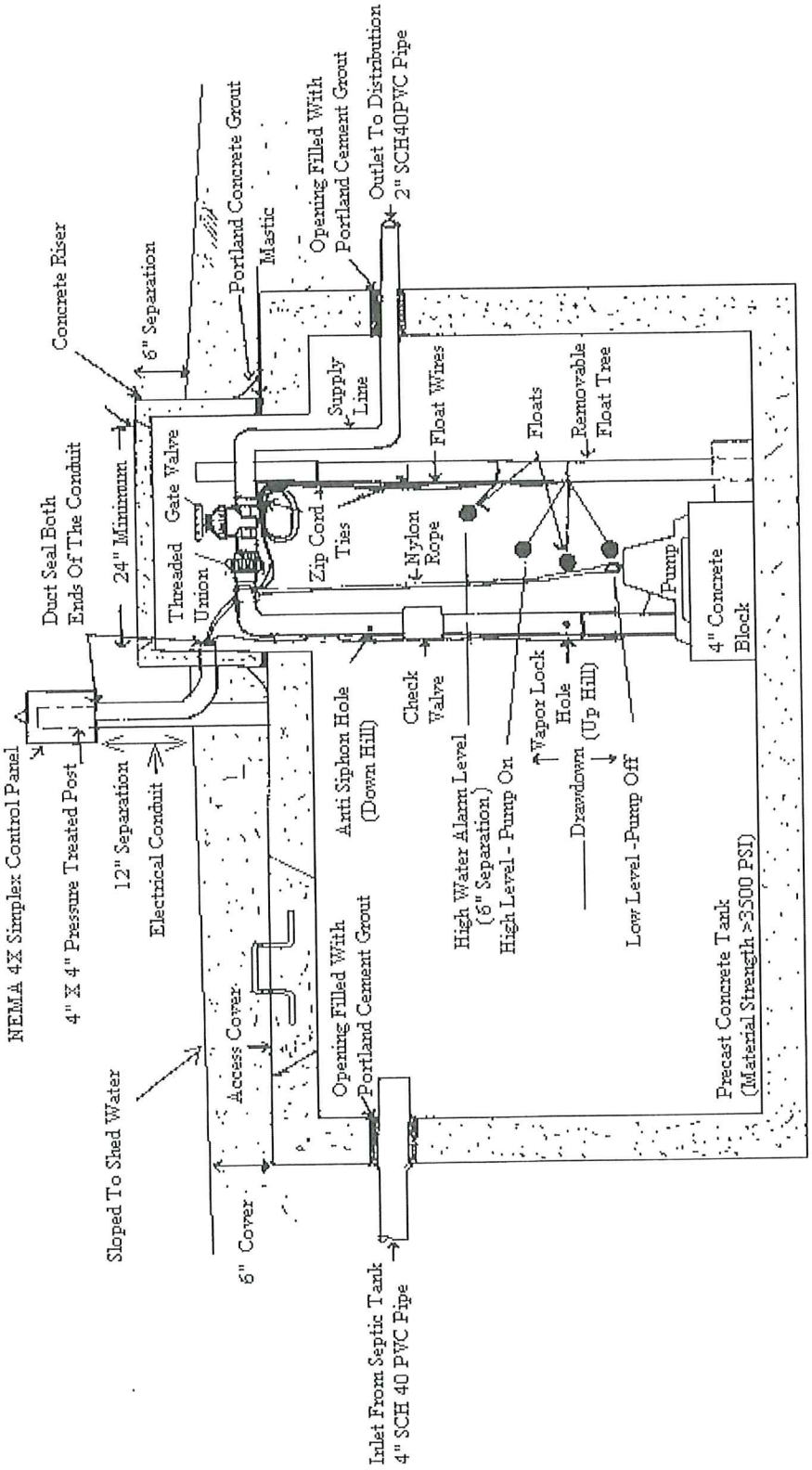
Thompson Environmental Consulting, Inc
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 19715403

Location: 11915 Everidge Place

Date: August 28, 2022

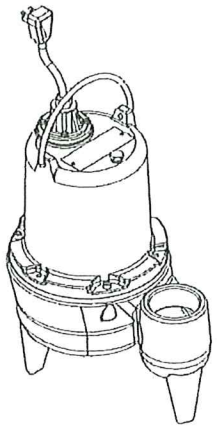
Recommended Pump Tank Design

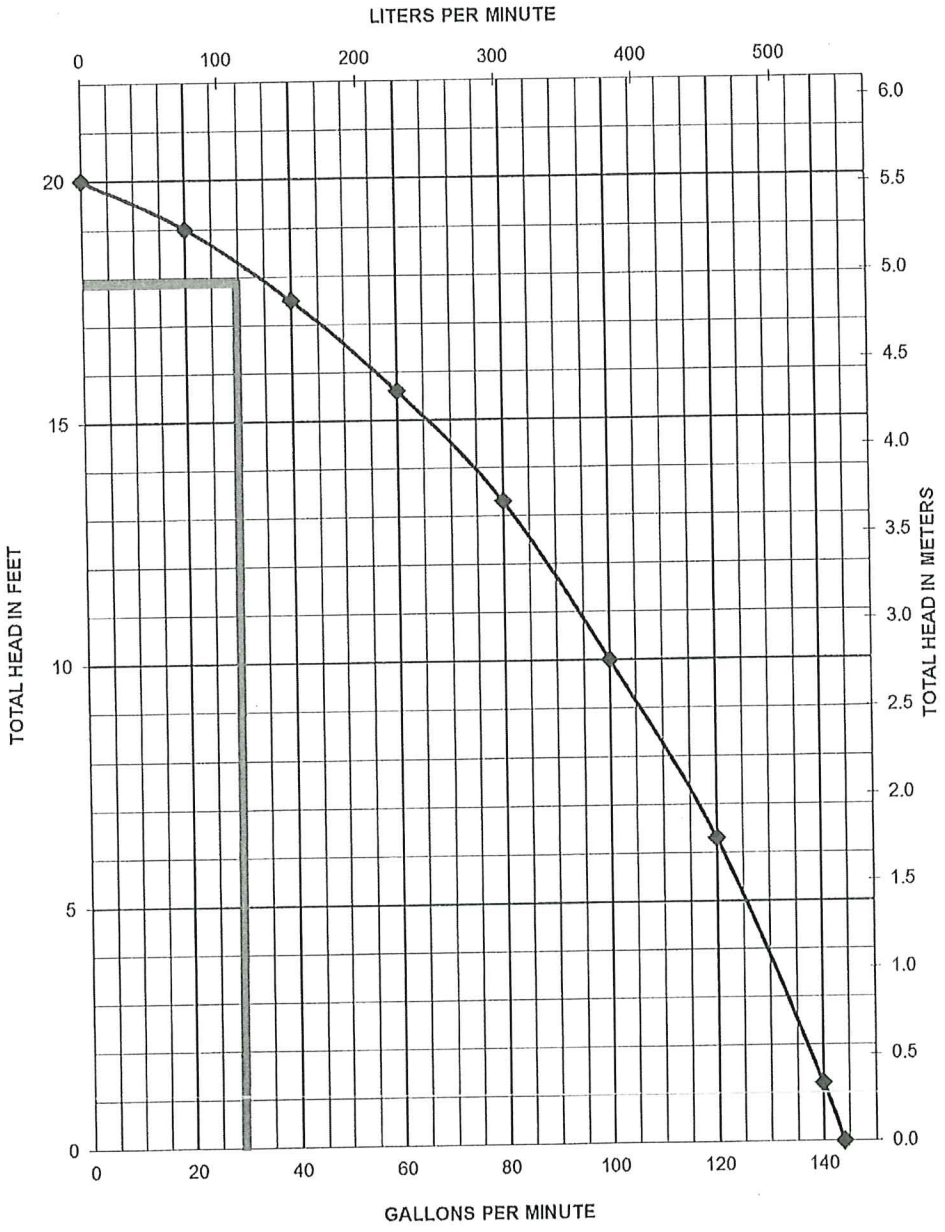


Liberty Pumps®

Pump Specifications

LE40 Series
4/10 HP Submersible Sewage Pump

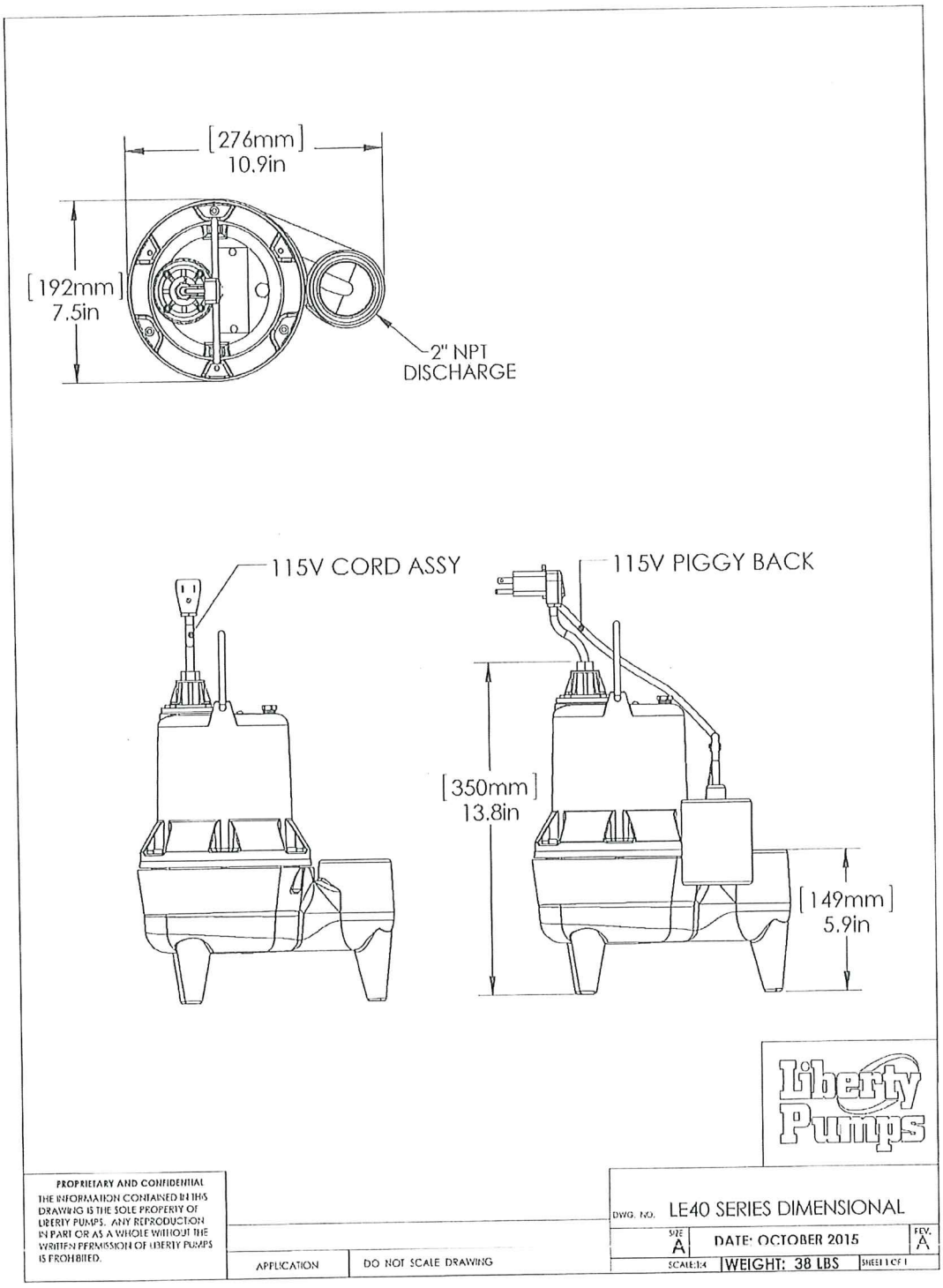




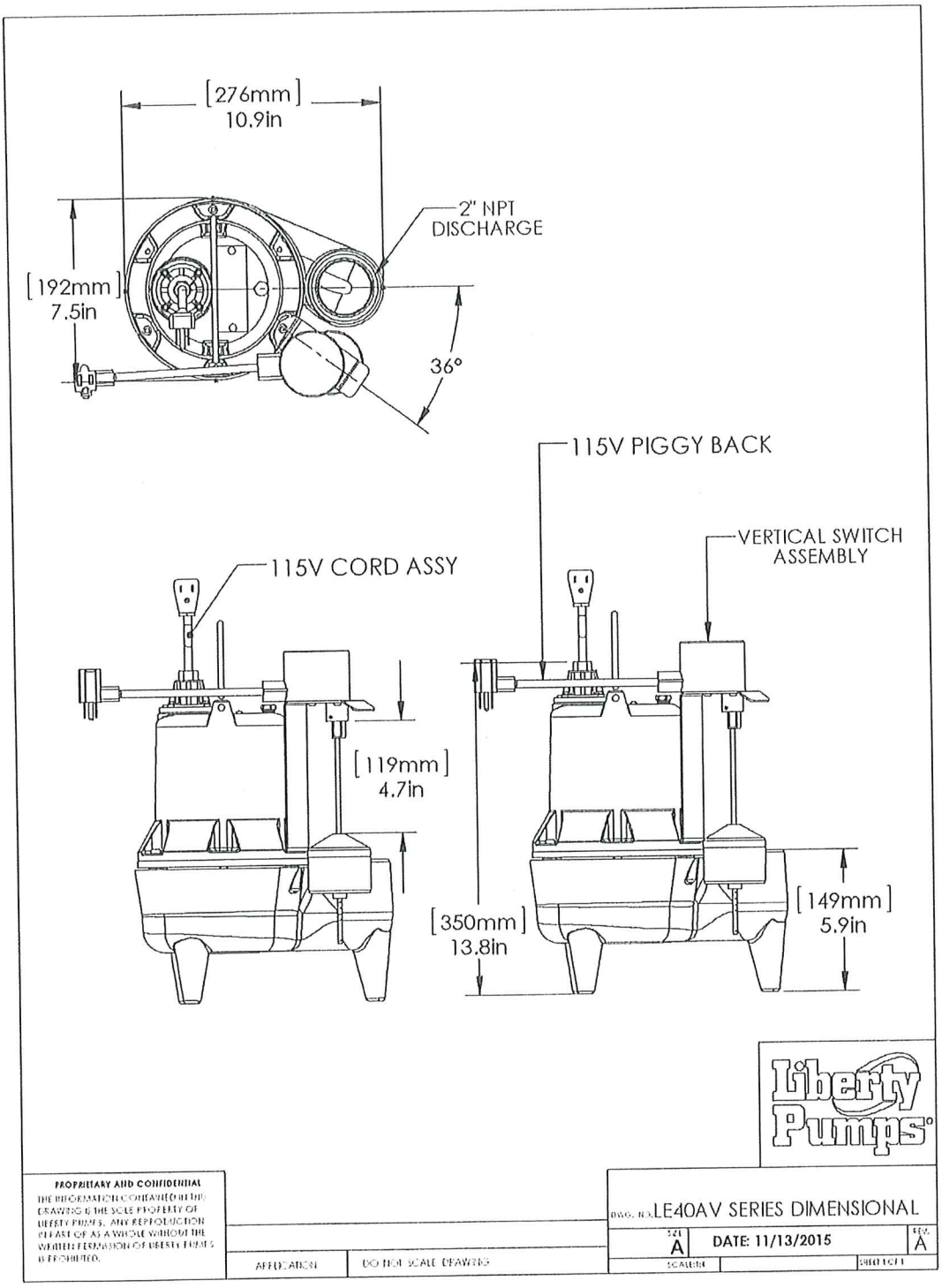
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Liberty Pumps

LE40-Series Dimensional Data



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Liberty Pumps



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Liberty Pumps

LE40-Series Electrical Data

MODEL	HP	VOLTAGE	PHASE	SF	FULL LOAD AMPS	LOCKED ROTOR AMPS	THERMAL OVERLOAD TEMP	STATOR WINDING CLASS	CORD LENGTH FT	DISCHARGE	AUTOMATIC
LE41A	4/10	115	1	1.00	12	22.5	105°C 221°F	B	10	2"	WIDE ANGLE
LE41A -2	4/10	115	1	1.00	12	22.5	105°C 221°F	B	25	2"	WIDE ANGLE
LE41AV	4/10	115	1	1.00	12	22.5	105°C 221°F	B	10	2"	VERTICAL SWITCH
LE41AV -2	4/10	115	1	1.00	12	22.5	105°C 221°F	B	25	2"	VERTICAL SWITCH
LE41M	4/10	115	1	1.00	12	22.5	105°C 221°F	B	10	2"	NO
LE41M-2	4/10	115	1	1.00	12	22.5	105°C 221°F	B	25	2"	NO

LE40-Series Technical Data

IMPELLER	VORTEX ENGINEERED POLYMER
SOLIDS HANDLING SIZE	2"
PAINT	POWDER COAT
MAX LIQUID TEMP	60°C 140°F
MAX STATOR TEMP	130°C 266°F
THERMAL OVERLOAD	105°C 221°F
POWER CORD TYPE	SJTW
MOTOR HOUSING	CLASS 25 CAST IRON
VOLUTE	CLASS 25 CAST IRON
SHAFT	STAINLESS
HARDWARE	STAINLESS
ORINGS	BUNA N
MECHANICAL SEAL	UNITIZED CERAMIC CARBON
WEIGHT	40 LBS

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LE40-Series Specifications

1.01 GENERAL:

The contractor shall provide labor, material, equipment, and incidentals required to provide_____(QTY) centrifugal pumps as specified herein. The pump models covered in this specification are Series LE40 single phase pumps. The pump furnished for this application shall be model _____as manufactured by Liberty pumps.

2.01 OPERATING CONDITIONS:

Each submersible pump shall be rated at 4/10 hp_____volts, single phase, 60 Hz., 1725 RPM. The unit shall produce_____G.P.M. at _____ feet of total dynamic head.

The submersible pump shall be capable of handling residential sewage with 2" solid handling capability. The submersible pump shall have a shut-off head of 20 feet and a maximum flow of 125 GPM @ 5 feet of total dynamic head.

The pump shall be controlled with:

_____A piggy back style on/off float switch.
_____A pre-assembled HD vertical switch
_____A NEMA 4X outdoor simplex control panel with three float switches and a high water alarm.
_____A NEMA 1 indoor simplex control panel with three float switches and a high water alarm.

_____A NEMA 4X outdoor duplex control panel with three float switches and a high water alarm.
_____A NEMA 1 indoor duplex control panel with three float switches and a high water alarm.
_____A NEMA 4X outdoor duplex control panel with four float switches and a high water alarm.
_____A NEMA 1 indoor duplex control panel with four float switches and a high water alarm.

3.01 CONSTRUCTION:

Each centrifugal sewage pump shall be equal to the c us certified Series LE40 SERIES pumps as manufactured by Liberty Pumps, Bergen NY. The castings shall be constructed of class 25 cast iron. The motor housing shall be oil filled to dissipate heat. Air filled motors shall not be considered equal since they do not properly dissipate heat from the motor. All mating parts shall be machined and sealed with a Buna-N o-ring. All fasteners exposed to the liquid shall be stainless steel. The motor shall be protected on the top side with sealed cord entry plate with molded pins to conduct electricity eliminating the ability of water to enter internally through the cord. The motor shall be protected on the lower side with a unitized ceramic/carbon seal with stainless steel housings and spring. The pump shall be furnished with stainless steel handle.

4.01 ELECTRICAL POWER CORD

The submersible pump shall be supplied with 10 or 25 feet of multiconductor power cord. It shall be cord type SJTW, capable of continued exposure to the pumped liquid. The power cord shall be sized for the rated full load amps of the pump in accordance with the National Electric Code. The power cable shall not enter the motor housing directly but will conduct electricity to the motor by means of a water tight compression fitting cord plate assembly, with molded pins to conduct electricity. This will eliminate the ability of water to enter internally through the cord, by means of a damaged or wicking cord.

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5.01 MOTORS

Single phase motors shall be oil filled, permanent split capacitor, class B insulated NEMA B design, rated for continuous duty. At maximum load the winding temperature shall not exceed 130 degrees C unsubmerged. Since air filled motors are not capable of dissipating heat they shall not be considered equal. The pump motor shall have an integral thermal overload switch in the windings for protecting the motor. The capacitor circuit shall be mounted internally in the pump.

6.01 BEARINGS AND SHAFT

An upper and lower ball bearing shall be required. Both bearings shall be permanently lubricated by the oil, which fills the motor housing. The motor shaft shall be made of 300 or 400 series stainless steel and have a minimum diameter of .50".

7.01 SEALS

The pump shall have a unitized carbon / ceramic seal with stainless steel housings and spring equal to Crane Type 6A. The motor plate / housing interface shall be sealed with a Buna-N o-ring.

8.01 IMPELLER

The vortex impeller shall be constructed of engineered polymer, with pump out vanes on the back shroud to keep debris away from the seal area and shall be threaded onto the motor shaft utilizing an integrally molded brass insert.

9.01 CONTROLS

All single phase units can be supplied with CSA and UL approved automatic wide angle tilt float switches or pre-installed heavy duty vertical switch. The switches shall be equipped with piggy back style plug that allows the pump to be operated manually without the removal of the pump in the event that a switch becomes inoperable. Manual Pumps are operable by means of a pump control panel.

10.01 PAINT

The exterior of the casting shall be protected with Powder Coat paint.

11.01 SUPPORT

The pump shall have cast iron support legs, enabling it to be a free standing unit. The legs will be high enough to allow 2" solids to enter the volute.

12.01 SERVICEABILTY

Components required for the repair of the pump shall be shipped within a period of 24 hours.

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13.01 FACTORY ASSEMBLED TANK SYSTEMS WITH GUIDE RAIL AND QUICK DISCONNECT DISCHARGE

_____Guide factory mounted rail system with pump suspended by means of bolt on quick disconnect which is sealed by means of nitrile grommets or o-rings. The Discharge piping shall be schedule 80 PVC and furnished with a check valve and PVC shut-off ball valve. The Tank shall be wound fiberglass or roto-molded plastic. An inlet hub shall be provided with the fiberglass systems.

_____Stainless steel Guide Rail

_____Zinc plated steel Guide Rail

_____"diameter of basin size

_____"height of basin size

_____"distance from top of tank to discharge pipe outlet

_____Fiberglass cover

_____Structural foam polymer cover

_____Steel cover

_____Simplex System with Outdoor panel and alarm

_____Duplex System with Outdoor panel and alarm

_____Simplex System with Indoor panel and alarm

_____Duplex System with Indoor panel and alarm

_____Separate Outdoor Alarm

_____Remote Outdoor Alarm

14.01 TESTING

The pump shall have a ground continuity check and the motor chamber shall be Hi-potted to test for electrical integrity, moisture content and insulation defects. The motor and volute housing shall be pressurized, and an air leak decay test is performed to ensure integrity of the motor housing. The pump shall be run, voltage current monitored, and the tester checks for noise or other malfunction.

15.01 QUALITY CONTROL

The pump shall be manufactured in an ISO 9001 certified Facility.

16.01 WARRANTY

Standard limited warranty shall be 3 years.

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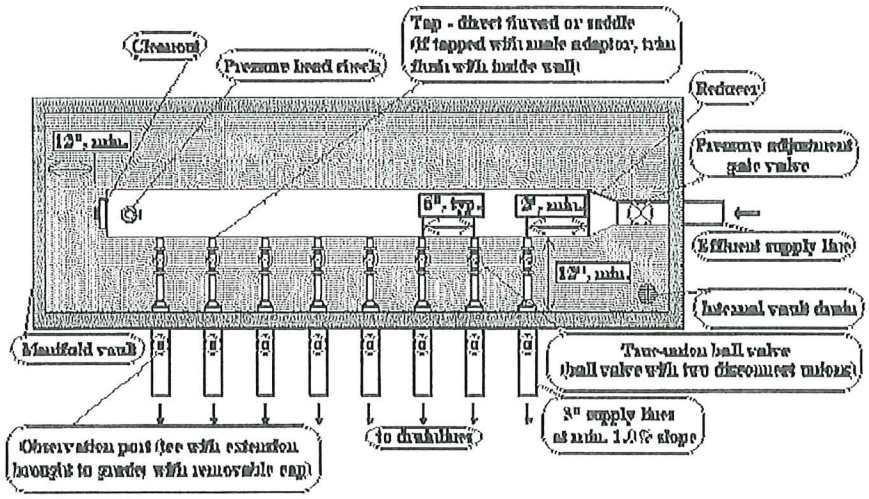
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 19715403

Location: 11915 Everidge Place

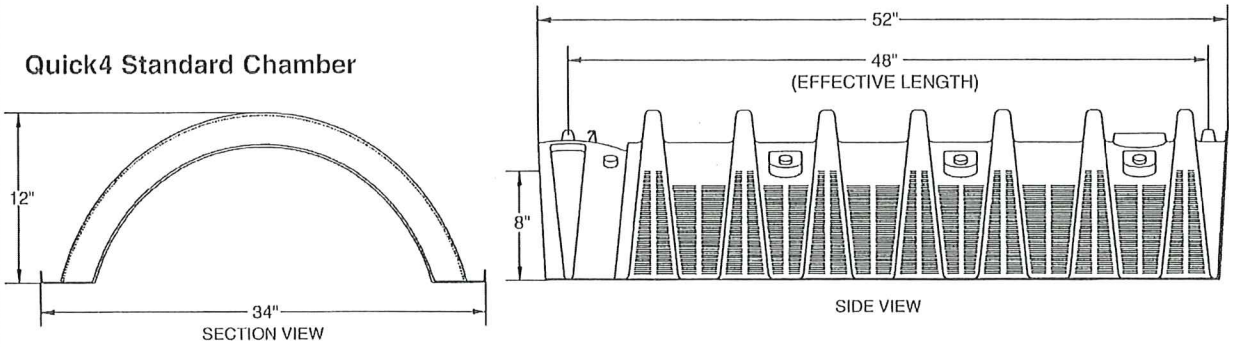
Date: August 28, 2022

Recommended Pressure Manifold Design
(Number of Taps May Vary)

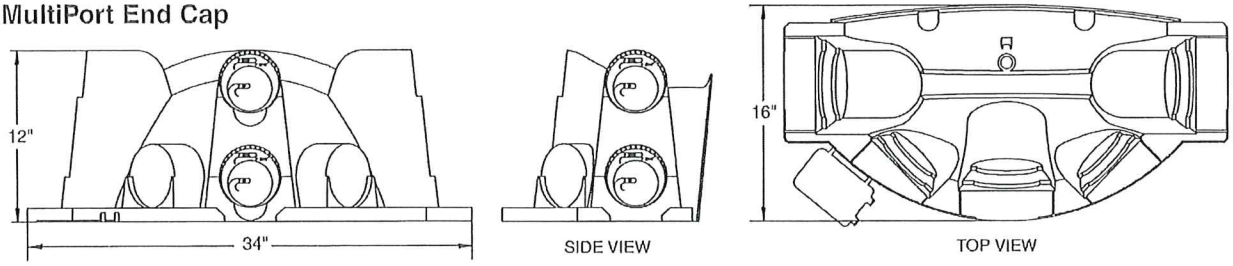


Quick4™
STANDARD CHAMBER

Quick4 Standard Chamber



MultiPort End Cap



Quick4 Standard Chamber Nominal Specifications	
Size (W x L x H)	34" x 52" x 12"
Effective Length	48"
Invert Height	8"

MultiPort End Cap Nominal Specifications	
Size (W x L x H)	34" x 16" x 12"
Invert Height	8" or 1.25"

INFILTRATOR SYSTEMS, INC. STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, end plate, wedge and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty.

Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR® SYSTEMS INC
Environmental Onsite Wastewater Solutions℠
6 Business Park Road • P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • FAX 860-577-7001
800-221-4436

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844
Canadian Patents: 1,329,959; 2,004,564 Other patents pending.

Infiltrator, Equalizer and SideWinder are registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico. Contour, Contour Swivel Connection, MicroLeaching, PolyTuff, SnapLock, ChamberSpacer, PosiLock, QuickCut, QuickPlay and Quick4 are trademarks of Infiltrator Systems Inc. © 2003 Infiltrator Systems Inc. Printed in U.S.A.

RECYCLED PAPER

County: Mecklenburg

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 19715403

Issued To: Santiago and Noemi Cruz

Property Location: 11915 Everidge Place, Mint Hill, NC 28227

Subdivision: Mint Hill Estates Lot #: 11 Block: B Section: _____

LSS Report Provided: Yes ☑ No ☐

If yes, name and license number of LSS: Larry Thompson, LSS

New ☑ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: Single-family residence

Proposed Wastewater System Type: Accepted (Initial) Non-treated Drip Dispersal (Repair)

Fill System: ☐ Yes ☑ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area please provide a fill plan)

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.1

Design Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process

Number of bedrooms: 4 Number of Occupants: 8 Other: _____

Pump Required: ☑ Yes ☐ No ☐ May be required based upon final location and elevations of facilities

Artificial Drainage Required: ☐ Yes ☑ No If yes, please specify details: _____

Type of Water Supply: ☑ Private well ☐ Public well ☐ Municipal Supply ☐ Spring ☐ Other: _____

Drainfield location meets requirements of Rule .1945: Yes ☑ No ☐

Drainfield location meets requirements of Rule .1950: Yes ☑ No ☐

Permit valid for: ☑ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Installer shall be pre-approved by Thompon Environmental Consulting, Inc.

Licensed Soil Scientist Print Name: Larry Thompson, LSS

Licensed Soil Scientist Signature: Larry Thompson Digitally signed by Larry Thompson Date: 2022.08.28 17:21:53 -04'00' Date: 8/28/22

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3).

County: Mecklenburg

This Section for Local Health Department Use Only

Initial submittal received: 5/9/22 by SM
Date 8/24/22 *Initials*

Permit Number: 30013130

G.S. 130A-335(a4) states the following: *'If a local health department fails to act on an application for an improvement permit submitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.'*

In accordance with G.S. 130A-335(a3) the improvement permit application is:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

_____

_____

Copies of this were sent to the LSS and the Owner on _____
Date

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the LSS and the Owner on _____
Date

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: _____ Date of Issuance: 9/12/22

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: 9/12/2027

See attached site sketch

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30013130 GWS File #: 11394B Tax Parcel #: 197-154-03

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 9/12/2027

Type of Installation: Residential - New System Lot Number: 0

Structure Type: SINGLE MOBILE HOME Size (ft^2): 6200 # Bedrooms: 4 Max. Occup.: 8

Building Foundation: Crawl Space Water Supply: Private Well

II. Initial System Type: Pump to Accepted **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd): 480 LTAR (gpd/ft^2): 0.3 Septic Tank Size (gal): 1000 Pump Tank Size (gal): 1000

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 1200 Total Trench Length (ft): 400

Maximum Trench Depth (in): 13 Depth of Media (in): 12 Distribution Device: Pressure Manifold

III. Repair System Type: Drip Irrigation **System Classification:** Va

Repair System Specifications:

Design Flow (gpd): 480 LTAR (gpd/ft^2): 0.1 Septic Tank Size (gal): 1000 Pump Tank Size (gal): 1000

Trench Width (ft): 2 Trench Spacing (ft): 2 Absorption Area (ft^2): 4800 Total Trench Length (ft): 2400

Maximum Trench Depth (in): 6 Depth of Media (in): N/A Distribution Device: Headworks (Drip Irr.

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Noemi Cruz

Authorized Agent: Jeremy Michelone Owner/Legal Agent: _____

Print Name

Signature: _____ Signature: _____

Date Issued: 9/12/2022

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30013130 GWS File #: 11394B

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The permitted system design requires a pressure manifold with varying tap diameters and/or pipe schedules. The contractor should review the specification detail provided by the system designer prior to bidding the project.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 25 feet from any foundation drain.

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone

Date Issued: 9/12/2022

Noemi Cruz

Owner/Legal Agent: _____
Print Name

Signature: Noemi Cruz

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 500SB App#_____ Tax Parcel# 19715403

Property Owner: Santiago + Noemi Cruz

Job Location Address: 11915 Everidge Pl

City: Mint Hill State: NC Zip Code: 28227

1. Does System design match facility, flow & wastewater characteristics?

   ☒YES ☐ NO

   Comments: * Ready to be installed 6/29/23 Larry confirmed design. Removed retaining wall. -BS

2. Is there sufficient available space for the septic systems initial and repair areas?

   ☒ YES ☐ NO

   Comments:

3. Can the septic system be installed per the permit conditions and drawing on file?

   ☐ YES ☒ NO

   Comments: * 130A.-335(a2). Permit, need LSS to verify make correction to system. Observed retaining wall through supply line area. Encroaching on 2 lines. (Bottom Line)

*If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☒ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Braedon Shelton — Authorized Agent

6/5/23 — Date

Stevens Septic — Others Present

THOMPSON ENVIRONMENTAL CONSULTING, INC.
WATER ♦ WASTEWATER ♦ WETLANDS

July 5, 2023

Braedon Shelton, REHS
Valerie C. Woodard Center
3205 Freedom Drive, Suite 8000
Charlotte, NC 28208

Dear Mr. Shelton,

The purpose of this letter is to inform you that the system installed for 11915 Everidge Place, Mint Hill, NC 28227 has been installed in general accordance with the proposal submitted to your office in August of 2022.

Please feel free to call on me if you have any further questions or concerns regarding this project.

Sincerely,

Larry B. Thompson, Jr., NCEHS, LSS

PO BOX 541 • MIDLAND, NC • 28107-0541
PHONE: 704-301-4881 • FAX: 206-350-8895
E-MAIL: LARRY@THOMPSONENV.COM
WEB: WWW.THOMPSONENV.COM

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 5005B Permit #: 30013130 Tax Parcel #: 19715403

Property Owner: _____

Job Location Address: 11915 Everidge Pl

City: Mint Hill State: NC Zip Code: 28227

Operation Permit Issuance Date: 7/7/23 Contractor Name: Stevens Septic

Permitted Design Flow: 480 GPD Liquid Capacity of Dosing Tank: 1000 (5-9-23) gallons

Liquid Capacity of Septic Tank: 1000 (5-2-23) gallons Tank Manufacture 1000 Effluent Pump Model: Liberty

Drainfield Installation ☐ N/A

Trench Depth: 18" top 4 lines 13" bottom 2 inches (according to design).

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 420 feet → (32', 60', 76', 76', 84', 92')

# of Lines: 6 @ Varied feet

Depth of Media: 12 inches (Type) Infiltrator Quick-4

Depth of Cover: ≥ 6 inches

Distribution Device: Pressure Manifold

Inspection Dates

Tank(s) Inspected: 6/30/23

Excavation Inspected: 6/29/23

Pump & Controls Inspected: _____

Bed Installation *(For Repair Installations ONLY.)*

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

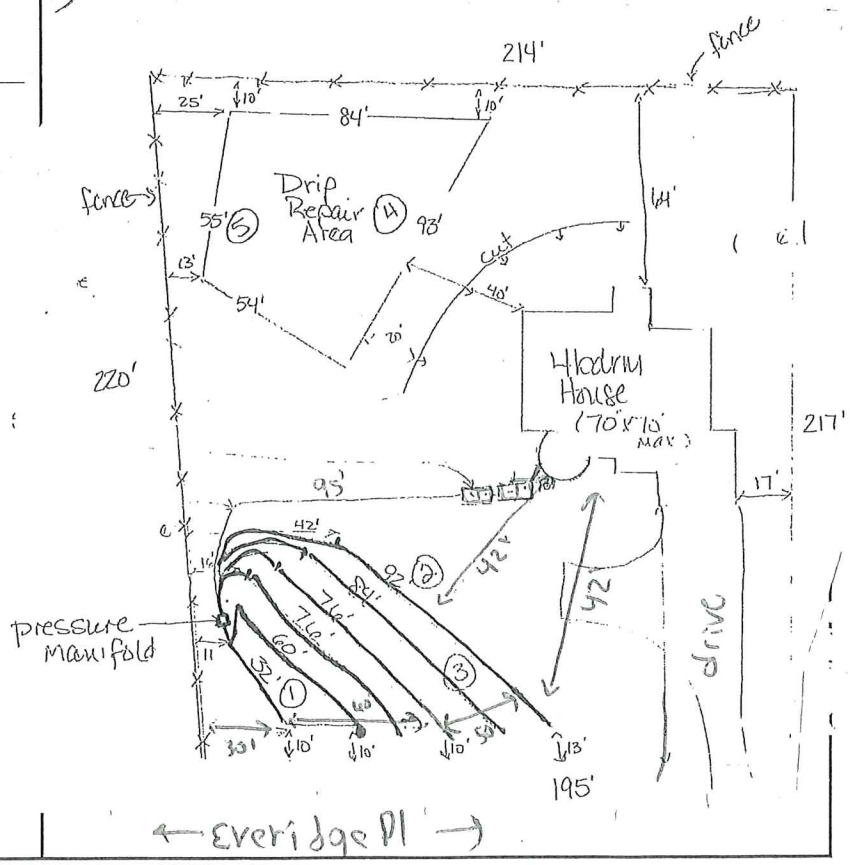
☐ Other _____

System Installation Setbacks

Distance from Building Foundation: ≥ 5 feet

Distance from Property Line: ≥ 10 feet

Distance from Water Supply Source: ≥ 50 feet



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☒ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: IIIb, CHM-36/91 NA/NA, 4-Bedroom Pump to Accepted System.

DENR Authorized Agent: Braedon Shelton Signature: Braedon Shelton

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 5005B Permit #: 30013130 Tax Parcel #: 19715403

Property Owner: _____

Job Location Address: 11915 Everidge Pl

City: Mint Hill State: NC Zip Code: 28227

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIb

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☒ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

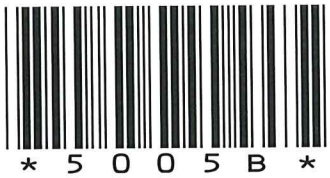
☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other: 4-Bedroom System

DENR Authorized Agent: Braedon Shelton Date: 7/7/23

Signature: Braedon Shelton



11915 EVERIDGE PL

19715403

1/7/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 5005B WASPS App #: 7075

Primary ES assigned to project: Bryan Davenport

Secondary ES assigned to project:

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☐	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☐	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☐	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☐	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☑
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☐	No ☐	N/A ☑
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☑	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 9 Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.275 Initial 0.125 Repair	Yes ☐	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

5005 B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

App # 7075

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ○ N/A ☒ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ○ N/A ☒ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. **JOB LOCATION INFORMATION:**

TAX PARCEL NUMBER: 19715403 & 19715404
STREET ADDRESS: Everidge Place
CITY: Charlotte
STATE: NC ZIP: 28227
SUBDIVISION NAME: _____
LOT #: 10, 12 LOT SIZE (acres): .45/ea.
TOWNSHIP:

○ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ☒ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. **BUILDING INFORMATION:**

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
☒ HOUSE ○ OTHER _____

HEATED SQUARE FOOTAGE: 3700 Sq. Ft.
NUMBER OF BEDROOMS: 4 bed / 3½ bath.
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:

○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
☒ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☒ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ○ MUNICIPAL ☒ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ○ N/A ☒ IRRIGATION ☒ POTABLE (DRINKING WATER) ○ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*

☐ N/A ☒ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. **RANK:** ____ ____ ____ ____ ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ☒ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ☒ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ☒ NO	JURISDICTIONAL WETLANDS	○ YES ☒ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ☒ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ☒ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ☒ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ☒ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ☒ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ☒ NO
WASTE STORAGE	○ YES ☒ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ☒ NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** _____ ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** 10/30/14 ☐ N/A

12. **PROPERTY OWNER:**

NAME: Noemi Cruz
ADDRESS: PO Box 690234
CITY: Charlotte
STATE: NC ZIP: 28227
WORK PHONE: 704 310-8107
MOBILE PHONE: _____
FAX: 704 531-9703
E-MAIL: crsmile@msn.com

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____ ZIP: _____
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. 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. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

NC (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. 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. The permit is valid for a period of twelve (12) months from the date of issuance.

NC (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Naomi Cruz — Property Owner's or Owner's Legal Representative Signature

9/22/14 — Date

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ 250 DATE FEE RECEIVED: 9/22/14

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: Dews

GWS FILE NUMBER ASSIGNED: 50058

APPLICATION ID NUMBER ASSIGNED: 7075

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

File #: _____

PROPOSED PLOT PLAN

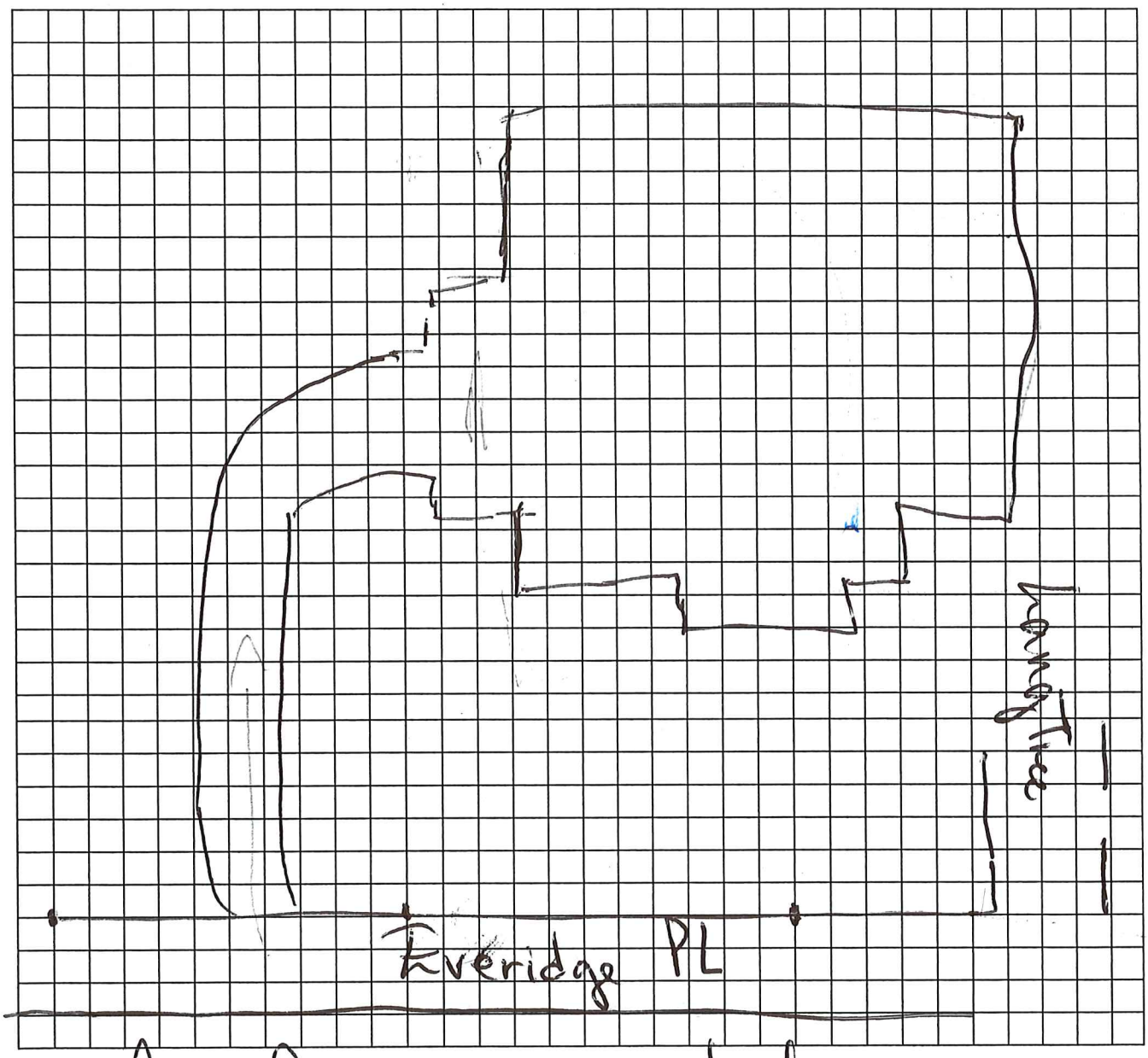
A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: Everidge Place.

Tax Parcel #: 19715403 & 19715404

Subdivision Name: none

Lot #: 6 & 7



Property Owner's or Owner's Legal Representative Signature

9/20/14
Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

5005 B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

App # 7075

COPY

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ☒ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ○ N/A ☒ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 19715403 & 19715404

STREET ADDRESS: Everidge Place

CITY: Charlotte

STATE: NC ZIP: 28227

SUBDIVISION NAME: _____

LOT #: 11 & 12 LOT SIZE (acres): .45/ea.

TOWNSHIP:

○ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ☒ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
☒ HOUSE ○ OTHER _____

HEATED SQUARE FOOTAGE: 3700 Sq. Ft.

NUMBER OF BEDROOMS: 4 bed! 3½ bath.

NUMBER OF OCCUPANTS: 4

FOUNDATION TYPE:

○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
☒ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☒ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ○ MUNICIPAL ☒ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ○ N/A ☒ IRRIGATION ☒ POTABLE (DRINKING WATER) ○ OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:

☐ N/A ☒ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ☒ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ☒ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ☒ NO	JURISDICTIONAL WETLANDS	○ YES ☒ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ☒ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ☒ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ☒ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ☒ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ☒ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ☒ NO
WASTE STORAGE	○ YES ☒ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ☒ NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____ ☐ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 10/30/14 ☐ N/A

12. PROPERTY OWNER:

NAME: Noemi Cruz
ADDRESS: PO Box 690234
CITY: Charlotte
STATE: NC ZIP: 28227
WORK PHONE: 704 310-8107
MOBILE PHONE: _____
FAX: 704 531-9703
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NAME: _____
ADDRESS: _____
CITY: _____
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WORK PHONE: _____
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E-MAIL: _____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

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NC (Initial here for septic system applications)

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NC (Initial here for well applications)

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Naomi Cruz — 9/22/14

Property Owner's or Owner's Legal Representative Signature — Date

---

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ 250 DATE FEE RECEIVED: 9/22/14

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: Dws

GWS FILE NUMBER ASSIGNED: 50058

APPLICATION ID NUMBER ASSIGNED: 7075

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

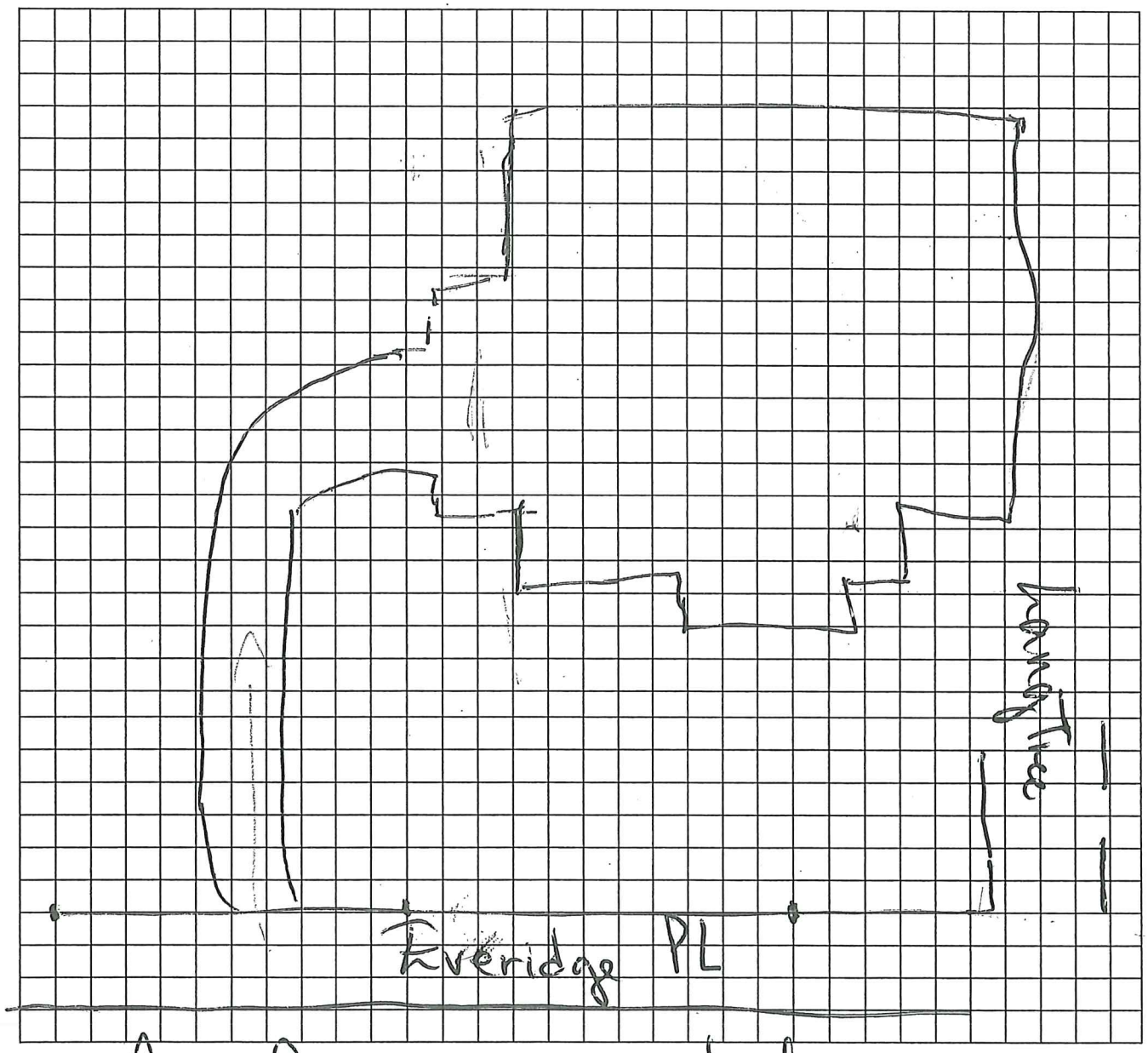
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: Everidge Place. Tax Parcel #: 19715403 & 19715404

Subdivision Name: none Lot #: 6 & 7



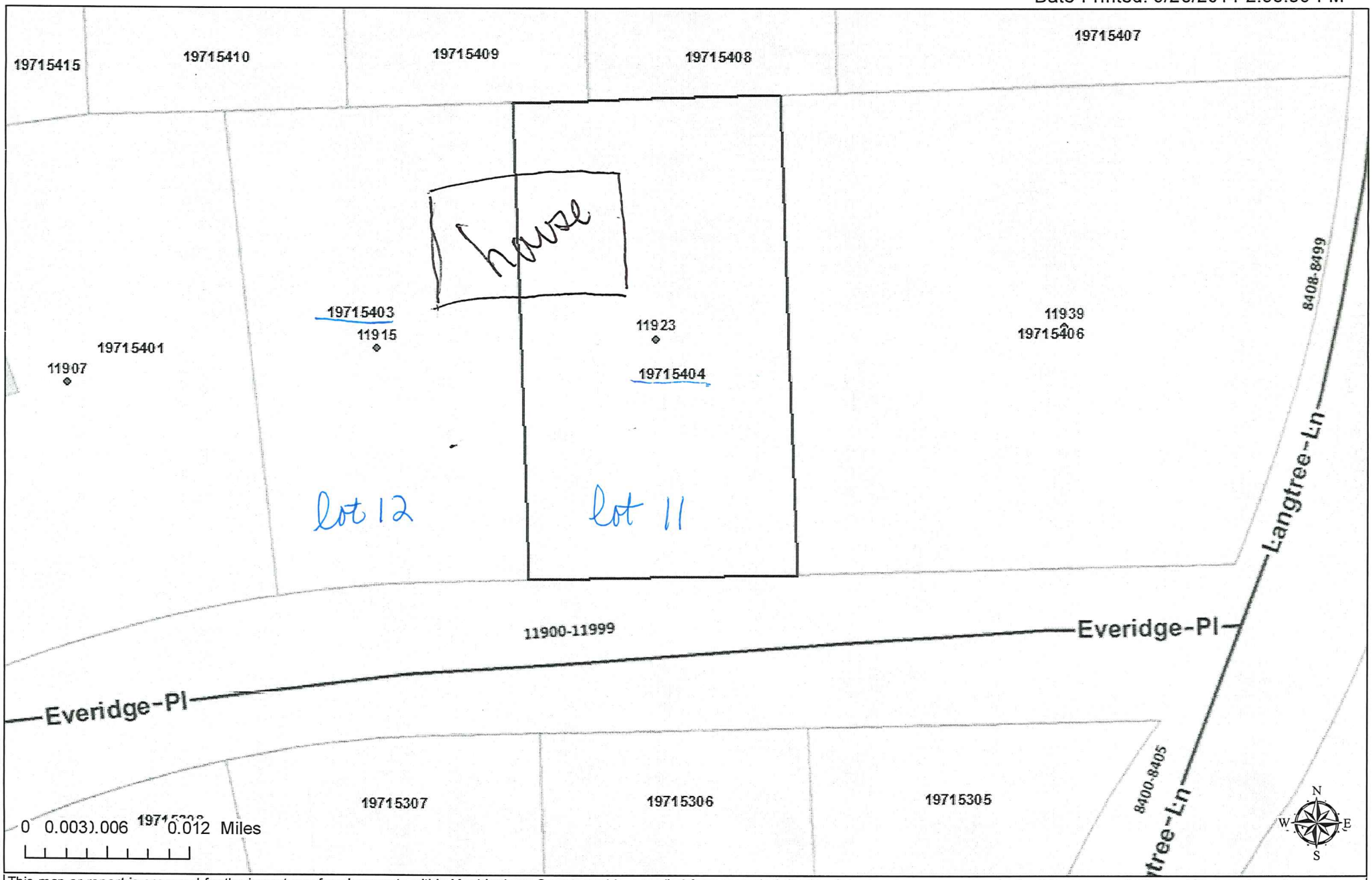
Property Owner's or Owner's Legal Representative Signature — Date: 9/22/14

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

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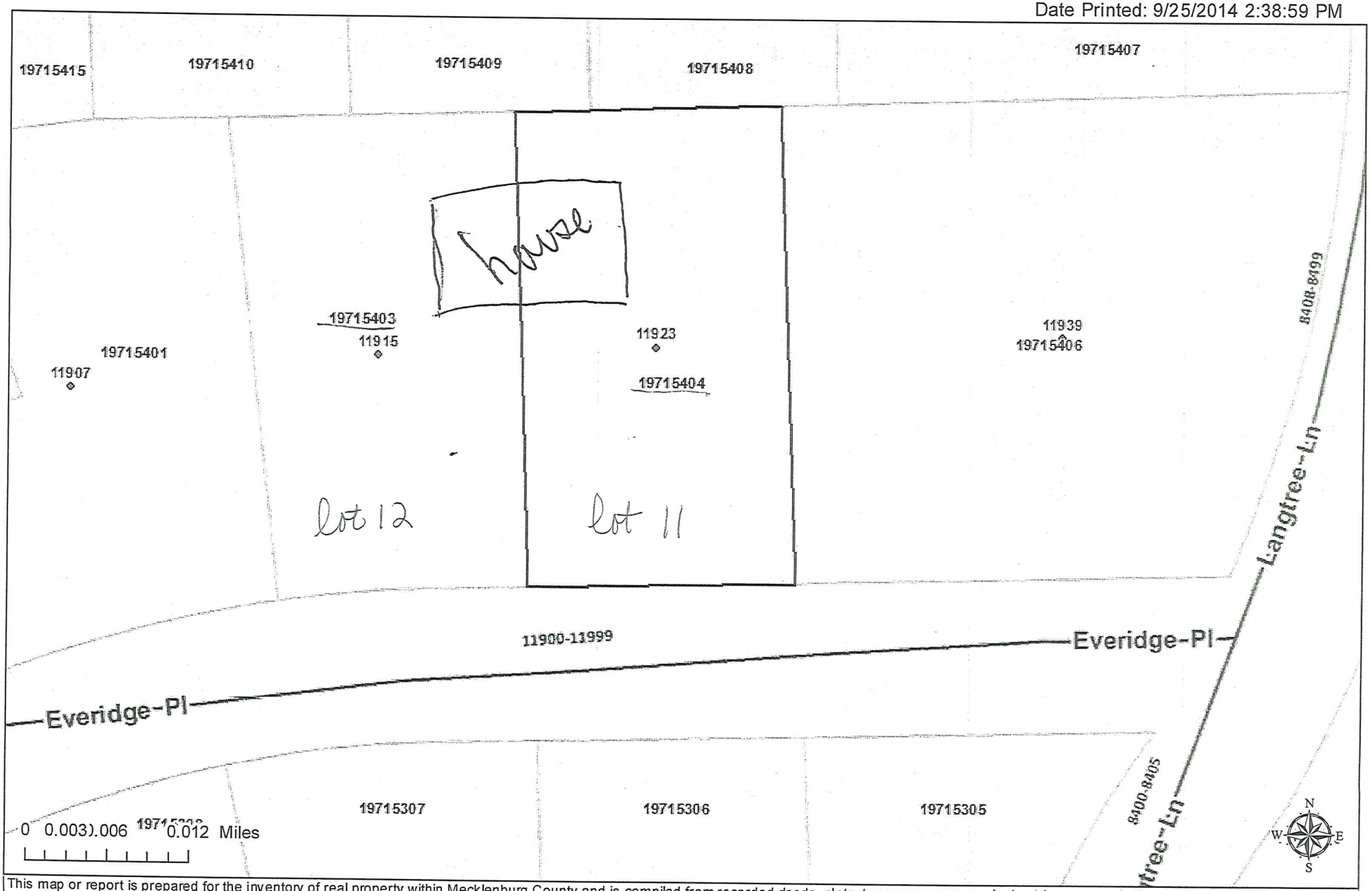
Polaris 3G Map – Mecklenburg County, North Carolina

Date Printed: 9/25/2014 2:38:59 PM



This map or report is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map or report are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

Polaris 3G Map – Mecklenburg County, North Carolina



This map or report is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map or report are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

Parcel # 197-154-03 & 04
File # 5005B
AppID: 7075



Map Created By:
Map Created On:

0 25 50 Feet

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 09/22/14
Receipt #: 90853
Check / Auth #: CHECK 1319
Received By: WALKEVA

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: ABC DRYWALL, INC.
Attn:
Address: P.O. BOX 690234
Address:
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen EVERIDGE PLACE		1	250.00	250.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
	~~587.40~~		~~270.00~~	~~1,859.65~~	

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 3
Property ID: 197-154-03 & 04
Lot #: 11 & 12
File #: 5005B
AppID: 7075

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: Noemi Cruz
Address: PO Box 690234, Charlotte, NC 28227
Proposed Facility: 4 Bedroom House
Design Flow (.1949): 480 GPD
Location of Site: Everidge Pl, Charlotte, NC 28227
Water Supply: [ ] Public [X] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: owner
Date Evaluated: 10/21/2014
Property Size: 0.9 ac
Property Recorded: 10/2/06

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		b PROFILE FACTORS				General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz			
Pit #A	R 3%	0 - 10	gr SIL	FR SEXP	>20"	10	NA	NA	gravelly 0 -10"	US	NA
		10 - 20	Rock w/Sap								
Pit #B	LS 13%	0 - 8	gr SIL	FR SEXP	>27"	16	NA	NA	gravelly 0 - 16"	US	NA
		8 - 16	wmsbk SIC	FI SEXP							
		16 - 27	Rock w/Sap								
Pit #C	LS 12%	0 - 7	gr SIL	FR SEXP	>42"	34	US	NA	unconsolidated rock inclusions	PS IV 0.275	18"
		7 - 14	wfsbk SICL	FR SEXP							
		14 - 34	wmsbk C	FI SEXP							
		34 - 42	mass SICL	S P FI SEXP							
Pit #D	LS 14%	0 - 6	gr SIL	FR SEXP	>45"	45	NA	NA	unconsolidated rock inclusions	PS IV 0.275	28"
		6 - 19	wfsbk SICL	FR SEXP							
		19 - 34	wmsbk C	FI SEXP							
		34 - 43	wfsbk SICL	FI SEXP							
Pit #E	LS 10%	0 - 4	gr SIL	FR SEXP	>43"	40	US	NA	unconsolidated rock inclusions	PS IV 0.275	24"
		4 - 35	mfsbk C	FI SEXP							
		35 - 40	wfsbk SICL	FI SEXP							
		40 - 44	mass SICL	S P FI SEXP							
Pit #F	LS 14%	0 - 5	gr SIL	FR SEXP	2 chroma @ 26"	29	US	NA	unconsolidated rock inclusions	US (LPP or Drip 0.125)	NA
		5 - 29	mmabk C	FI SEXP							
		29 - 40	mass SICL	S P FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)	0.275	0.125

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, REHSI, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #G	LS 13%	0 - 6 6 - 24 24 - 39	gr SIL mmsbk C wfsbk SIC	FR SEXP FI SEXP FI SEXP	2 chroma @ 28"	39	NA	NA	unconsolidated rock inclusions	**US (LPP or Drip 0.125)**	**NA**
Pit #H	LS 12%	0 - 6 6 - 16 16 - 24	gr SIL wmsbk C Rock	FR SEXP VFI EXP	2 chroma @ 12"	16	NA	NA	unconsolidated rock inclusions	**US**	**NA**
Pit #I	LS 12%	0 - 4 4 - 20 20 - 32	gr SIL mmsbk C wfsbk SIC	FR SEXP FI SEXP FI SEXP	2 chroma @ 27"	32	NA	NA	unconsolidated rock inclusions	**US (LPP or Drip 0.125)**	**NA**

COMMENTS:

Sheet: 3 of 3
File #: 5005B
AppID: 7075

Landscape Position
R-Ridge
SS-Shoulder Slope
LS-Linear Slope
FS-Foot Slope
NS-Nose Slope
HS-Head Slope
CC-Concave Slope
CV-Convex Slope
T-Terrace
FP-Flood Plain
D-Drainage Way

Group	Texture	.1955 LTAR
I	S-Sand LS-Loamy Sand	1.2 - 0.8
II	SL-Sandy Loam L-Loam	0.8 - 0.6
III	Si-Silt SiCL-Silty Clay Loam CL-Clay Loam SCL-Sandy Clay Loam SiL-Silt Loam	0.6 - 0.3
IV	SC-Sandy Clay SiC-Silty Clay C-Clay	0.4 - 0.1

Structure
sg-Single Grain
mass-Massive
cr-Crumb
gr-Granular
sbk-Subangular Blocky
abk-Angular Blocky
pl-Platy
pr-Prismatic
Sap-Saprolite

Structure Prefixes
w-weak
m-moderate
s-strong
f-fine
m-medium
c-coarse

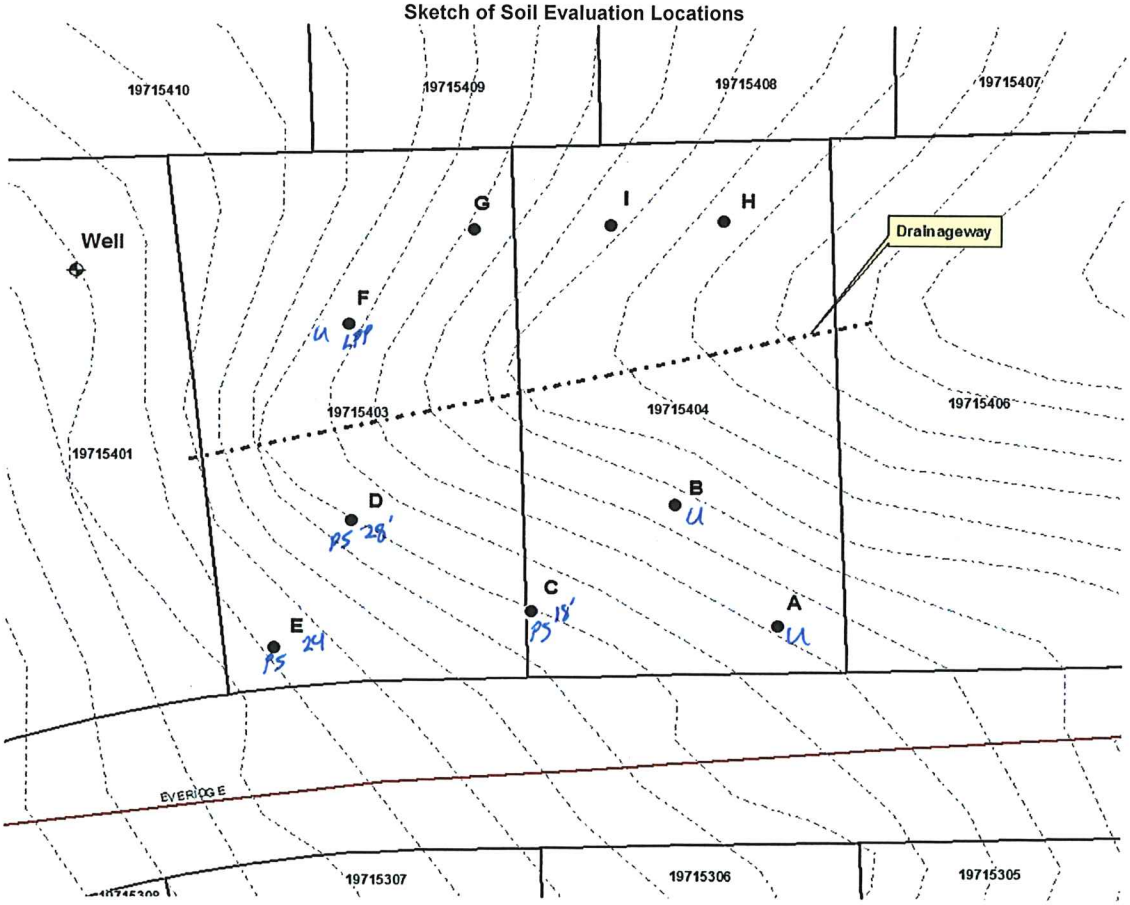
Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive

Classification
US-Unsuitable
PS-Provisionally Suitable
S-Suitable
NA-Not Applicable

Sketch of Soil Evaluation Locations



Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30007075** GWS File #: **5005B** Tax Parcel #: **197-154-03**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 12/4/2022

Type of Installation: Residential - New System Lot Number: 12

Structure Type: HOUSE Size (ft^2): 3700 # Bedrooms: 4 Max. Occup.: 8

Building Foundation: Water Supply: Private Well

II. Initial System Type: Pump to Accepted **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1309	Total Trench Length (ft):	436
Maximum Trench Depth (in):	18	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Low Pressure Pipe (LPP) **System Classification:** 5a

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	.125	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	2304	Total Trench Length (ft):	768
Maximum Trench Depth (in):	6	Depth of Media (in):	N/A	Distribution Device:	Headworks (Drip Irr.		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Bryan Davenport

Signature: Bryan Davenport

Date Issued: 12/4/2017

Owner/Legal Agent: Naomi Cruz Naomi Cruz
Print Name

Signature: Naomi Cruz

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30007075** GWS File #: **5005B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- The system must be water tested during the final inspection to verify proper operation and set system pressure.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 15 feet from any foundation drain.
- Repair requires consultant letter stating system was installed correctly

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Authorized Agent: Bryan Davenport

Signature: Bryan Davenport

Date Issued: 12/4/2017

Owner/Legal Agent: Noemi Cruz
Print Name

Signature: Noemi Cruz

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Property ID: 197-154-03 & 04
Lot #: 11 & 12
File #: 5005B
AppID: 7075

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: Noemi Cruz
Address: PO Box 690234, Charlotte, NC 28227
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Design Flow (.1949): 480 GPD
Location of Site: Everidge Pl, Charlotte, NC 28227
Water Supply: [ ] Public [X] Individual [X] Well
Evaluation Method: [ ] Auger Boring [X] Pit
Type of Wastewater: [X] Sewage [ ] Industrial Process

Applicant: owner
Date Evaluated: 10/21/2014
Property Size: 0.9 ac
Property Recorded: 10/2/06
[ ] Spring [ ] Other
[ ] Cut
[ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #A	R 3%	0 - 10	gr SIL	FR SEXP	>20"	10	NA	NA	gravelly 0 -10"	US	NA
		10 - 20	Rock w/Sap								
Pit #B	LS 13%	0 - 8	gr SIL	FR SEXP	>27"	16	NA	NA	gravelly 0 - 16"	US	NA
		8 - 16	wmsbk SIC	FI SEXP							
		16 - 27	Rock w/Sap								
Pit #C	LS 12%	0 - 7	gr SIL	FR SEXP	>42"	34	US	NA	unconsolidated rock inclusions	PS IV 0.275	18"
		7 - 14	wfsbk SICL	FR SEXP							
		14 - 34	wmsbk C	FI SEXP							
		34 - 42	mass SICL	S P FI SEXP							
Pit #D	LS 14%	0 - 6	gr SIL	FR SEXP	>45"	45	NA	NA	unconsolidated rock inclusions	PS IV 0.275	28"
		6 - 19	wfsbk SICL	FR SEXP							
		19 - 34	wmsbk C	FI SEXP							
		34 - 43	wfsbk SICL	FI SEXP							
Pit #E	LS 10%	0 - 4	gr SIL	FR SEXP	>43"	40	US	NA	unconsolidated rock inclusions	PS IV 0.275	24"
		4 - 35	mfsbk C	FI SEXP							
		35 - 40	wfsbk SICL	FI SEXP							
		40 - 44	mass SICL	S P FI SEXP							
Pit #F	LS 14%	0 - 5	gr SIL	FR SEXP	2 chroma @ 26"	29	US	NA	unconsolidated rock inclusions	US (LPP or Drip 0.125)	NA
		5 - 29	mmabk C	FI SEXP							
		29 - 40	mass SICL	S P FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIb	IVa
Site LTAR (gpd/sq ft)	0.275	0.125

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, REHSI, LSS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: BD
Others Present:

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 2 of 3
File #: 5005B
AppID: 7075

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

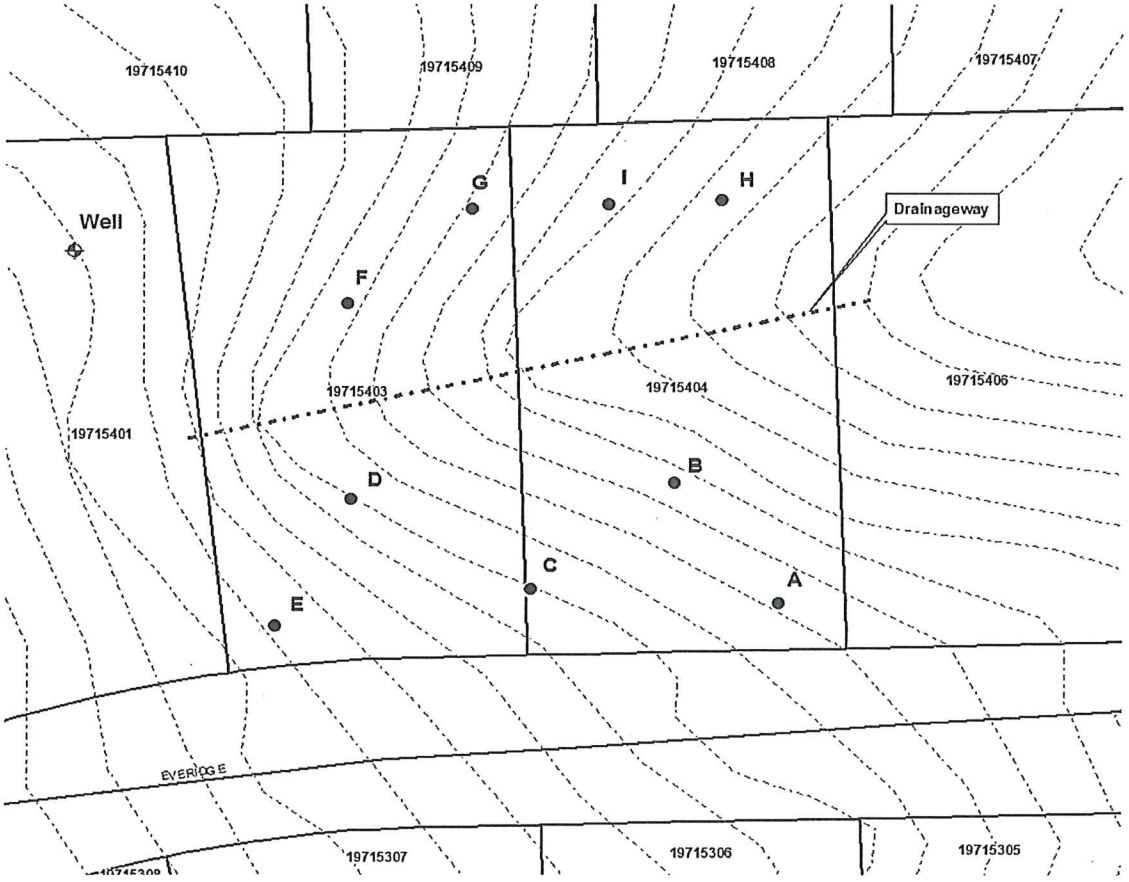
PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		b PROFILE FACTORS				General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz			
Pit #G	LS 13%	0 - 6 6 - 24 24 - 39	gr SIL mmsbk C wfsbk SIC	FR SEXP FI SEXP FI SEXP	2 chroma @ 28"	39	NA	NA	unconsolidated rock inclusions	**US (LPP or Drip 0.125)**	**NA**
Pit #H	LS 12%	0 - 6 6 - 16 16 - 24	gr SIL wmsbk C Rock	FR SEXP VFI EXP	2 chroma @ 12"	16	NA	NA	unconsolidated rock inclusions	**US**	**NA**
Pit #I	LS 12%	0 - 4 4 - 20 20 - 32	gr SIL mmsbk C wfsbk SIC	FR SEXP FI SEXP FI SEXP	2 chroma @ 27"	32	NA	NA	unconsolidated rock inclusions	**US (LPP or Drip 0.125)**	**NA**

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace		CL-Clay Loam		Sap-Saprolite
FP-Flood Plain		SCL-Sandy Clay Loam		**Structure Prefixes**
D-Drainage Way		SiL-Silt Loam		w-weak
				m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



GWS Septic System Design Review

GWS File #: ~~5005~~ 5005B

Design Review: [signature] ☐ Approved ☐ Disapproved

Field Review: BD ☑ ☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

Everidge Place – Lots 11 and 12
Charlotte, North Carolina

Tax Parcel # 197-154-03 and 04
MCGWS File # 5005B
January 22, 2015

Prepared for:

Noemi Cruz
PO Box 690234
Charlotte, NC 28227
704-310-8107

LICENSED SOIL SCIENTIST
LARRY B. THOMPSON JR.
1287
STATE OF NORTH CAROLINA

Prepared by:

Larry Thompson, REHS, PWS, LSS
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Midland, NC 28107-0541
Phone: 704-301-4881
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NORTH CAROLINA REGISTERED ENVIRONMENTAL HEALTH SPECIALIST
SEAL 1208
LARRY B. THOMPSON JR.

cc: Mr. Bradley Hallman, REHS
Mecklenburg County Environmental Health

The property owner and builder must assure that the driveway and all utilities are routed around the proposed septic drainfield and septic drainfield repair area. These areas must be protected from traffic and any form of encroachment.

Details

Mrs. Cruz has contracted with Thompson Environmental Consulting, Inc. (TEC) to develop a proposal for an on-site wastewater treatment and disposal system that would allow for the construction of a 4-bedroom single family residence served by a private water supply to be located on the combined Lots 11 and 12 at Everidge Place, Charlotte, North Carolina.

Based upon an investigation performed by TEC it was determined that a sufficient amount of "Suitable" Group IV soils are available on this property for the installation of pump-to accepted system with a state approved 25% reduction approval. The proposed repair system would be a low-pressure pipe system.

Mrs. Cruz requests that Mecklenburg County Groundwater and Wastewater Services (MCGWS) consider issuing an Improvement Permit and Construction Authorization for a 4-bedroom residence to be located at the above address based upon the following revised proposal.

Location

From Charlotte, travel east on NC 27 approximately 17.4 miles and turn right onto Cabarrus Road. Turn right onto Ferguson Road in 2.7 miles and left onto Brief Road in 1.4 miles. Travel approximately 0.5 mile and turn right onto Langtree Lane. Take the first right onto Everidge Place. Lots 11 and 12 are 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, October 2011.

Accepted Wastewater System No. AWWS-05-01; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 2, 2005.

Accepted Wastewater System No. AWWS-05-02-R1; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 2, 2005.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287

NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1500 gallons in capacity.
2. The septic tank will be fitted with an approved effluent filter.
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, there must be two electrical circuits for the pump tank controls: one for the pump and one for the alarm controls.
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 95 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

1. A pressure manifold shall be used to distribute wastewater equally to each of the three drainlines.
2. The pressure manifold shall be contained within an adequately sized box/vault that will allow future repair lines to be installed and is designed to allow for drainage of effluent that may accumulate in it during flushing and head pressure adjustments. The box should be placed upon a gravel base.
3. A gate valve shall be provided at the pressure manifold box to allow for final pressure adjustment (2 foot of head pressure as per design).
4. The pressure manifold shall be constructed of SCH 80 PVC.
5. There shall be 5 taps (SCH. 40 and SCH. 80 PVC - direct thread or saddle), ½ inch in diameter, each to have a true union ball valve that will allow for future removal/replacement. Upper two lines (L1 and L2) will be serial fed from one SCH. 40 ½ inch tap, L3 and L4 will be fed by two SCH. 80 ½ inch taps, L5 will be fed by a SCH. 40 ½ inch tap and L6 will be fed by a SCH. 80 ¾ inch tap (see attached TAP CHART).
6. The connecting pipe between the Pressure Manifold taps and the drain field shall be constructed of PVC.

E. Drain Field Installation

1. The drainfield has been previously laid out on-site utilizing metal stemmed flags. Once this area has been approved by the MCGWS, 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 MCGWS and the system designer for a preconstruction conference at which time the drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drain field 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 MCGWS should be contacted for permission to proceed with the installation.
3. The specified system is an approved accepted system; the **EZ*flow* 1203H,** the **Infiltrator Quick4 Standard Chamber System** or other systems with a 25% reduction approval granted by the state.
4. The drainfield consists of six (6) lateral trenches to be constructed 3 foot wide by various lengths (1 at 35 feet, 1 at 50 feet, 2 at 70 feet, 1 at 95 feet and 1at 120 feet).

5. The maximum trench depth for this system shall be **18 inches.**
6. The drainlines are to be fed serial distribution.
7. The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.
8. The trenches should be left open for the final inspection by the MCGWS.

F. Final Landscaping

1. Final cover over the drainfield shall a **minimum of 6 inches deep.**
2. The drainfield shall be shaped to shed rainwater and be free from low spots.
3. The drainfield area 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.

G. Utility Conflicts

1. The builder and property owner must take special care in planning for water, power, gas, telephone and cable lines. These utilities shall be kept clear of all parts 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. If there are any questions regarding preferred routes, contact the MCGWS as soon as possible.
2. Lawn irrigation should not be placed over the drain field area.

Maintenance

H. In General

1. The homeowner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 25 percent of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. When it becomes necessary to clean the effluent filter, the filter should be removed and the accumulated debris washed back into the septic tank – not onto the lawn.
4. Any damp areas, leakages or malfunctions in the drainfield area should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

I. Suggestions to the Homeowner

1. As previously mentioned, if you plan to use a garbage disposal in your home you should plan to have your septic and pump tanks cleaned out annually. 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. Use liquid detergents. Powdered detergents have binding agents in them that tend to solidify in the wastewater disposal system.
7. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
8. 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.

Design Specifics

Daily Design Flow:	480 GPD – 4 bedroom house
Septic Tank Size:	1500 gallons (minimum)
Pump Tank Size:	1000 gallons (minimum)
Pump Requirements:	25GPM at 20 Feet TDH
Recommended Pump:	Goulds WEO3L or equivalent
Effluent Loading Rate:	Design = 0.275 GPD per sq. ft.
Drain Field Type:	Accepted 25% Reduction
Distribution Method:	Pressure Manifold L1 and L2 – (1) ½" Sch. 40 tap (L1 and L2 will be serial fed) L3 – ½ inch Sch. 80 tap L4 – ½ inch Sch. 80 tap L5 – ½ inch Sch. 40 tap L6 – ¾ inch Sch. 80 tap
Number of Drainlines:	6
Drain Lines:	(6) 3' Wide x Various Lengths - 1 at 35 feet - 1 at 50 feet - 2 at 70 feet - 1 at 95 feet

	- 1 at 120 feet
Total Trench Length:	440 Linear Feet
Maximum Trench Depth:	18 inches
Final Cover Requirement:	6 inches (minimum)

Repair Specifics

Effluent Loading Rate for Repair System:	0.125 GPD per sq. ft.
Repair Drainfield Type:	Low-Pressure Pipe
Number of Drainlines:	16
Supply Line Length:	Approximately 70 Feet
Number and Size of Drainlines:	(16) 18" Wide x 50' Long
Maximum Trench Depth:	13 Inches Deep
Drainline Spacing:	5 Foot on Centers
Total Length of Drainline:	800 Feet
Lateral Hole Size:	See Attached Design Sheet
Hole Spacing:	See Attached Design Sheet
Dosing Volume:	240.00 gallons per dose
Flow Rate Through System:	35.69 gallons per minute
Elevation/Friction Head:	18 feet
Pressure Head:	4 feet
Pump Requirements:	35.69 GPM at 22 Feet TDH
Recommended Pump:	Goulds WEO3L or equiv.
Depth of Water Pumped:	12" – Assumes 20 gallons per inch. Check with individual tank manufacturer (1 cu. Ft. of water equals 7.5 gal.)

TAP CHART

PID: 197-154-03 & 04
File: 5005B
AppID: 7075

Bench Mark	0.5	is = 100.00	set at				**Design Head:**	2	
Pump tank elev.		9.7	90.80	**Pump elev.**	85.80		**Manifold elev**	96.70	
line	**color**	**rod read**	**Elevation**	**length**	**hole size**	**flow/tap**	**gal/day**	**trench area**	**LINE LTAR**
1		7.3	93.20	85	1/2in SCH 40	7.11	96.73	255	0.379
2		6.3	94.20	70	1/2in SCH 80	5.48	74.56	210	0.355
3		4.8	95.70	70	1/2in SCH 80	5.48	74.56	210	0.355
4		4.4	96.10	95	1/2in SCH 40	7.11	96.73	285	0.339
5			98.50	120	3/4in SCH 80	10.1	137.41	360	0.382
6			98.50	0	ERROR	0	0.00	0	#DIV/0!
7			100.50	0	ERROR	0	0.00	0	#DIV/0!
		total	**feet =**	**440**	**gal/min =**	**35.28**		**LTAR =**	**0.28**
% of Dose Vol.		65		**Des. Flow**	480			**(ltar + 5%)**	0.29
Dose Volume		186		**Pump Run=**	13.61			**(ltar W/ INOV**	0.37
Dose Pump Time		5.27		**Tank Gal/IN**	21			**(ltar + 5%)**	0.39
Drawdown in Inches		8.9		**Elev. Head**	10.90				
Supply Line Length		130							

PLAN NOTES:

1. VERIFY ALL LOCAL CODES, ENERGY TYPES, AND SITE CONDITIONS PRIOR TO CONSTRUCTION.
2. REVIEW SELECTED MECHANICAL SYSTEMS WITH OWNER PRIOR TO CONSTRUCTION.
   RECOMMENDED LOCATIONS ARE AS FOLLOWS:
   THE WATER HEATER MAY TYPICALLY BE PLACED IN THE CRAWL SPACE OR IN THE GARAGE.
   H.V.A.C. UNIT(S) MAY TYPICALLY BE PLACED IN THE CRAWL SPACE OR IN THE ATTIC FOR ON STORY HOUSES, IN THE CRAWL SPACE FOR THE FIRST FLOOR AND IN ATTIC FOR THE SECOND FLOOR IN TWO STORY HOUSES.
   H.V.A.C. EQUIPMENT IN ATTIC SPACE SHALL BE ACCESSIBLE BY AN OPENING AS LARGE AS THE LARGEST PIECE OF EQUIPMENT AND IN NO CASE LESS THAN 22"X36".
3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. INSULATE AROUND ALL BATHS AND UTILITY ROOM.
5. TYPICAL WALL 2X4'S @ 16" O.C. UNLESS OTHERWISE DIMENSIONED.
6. PROVIDE SMOKE DETECTORS AS REQUIRED BY CODE.
7. PROVIDE DOORBELLS, TRANSFORMER, AND CHIME.
8. ALL I-JOISTS SHALL BE 14" TJI 230 SPACED AT 16" ON CENTER UNLESS NOTED OTHERWISE

HEADER NOTES

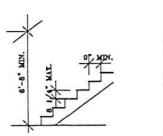
1. ALL EXTERIOR HEADERS SHALL BE (2) 2x10 SYP#1 U.N.O. ALL HEADERS SHALL BE SUPPORTED BY (2) JACK STUDS U.N.O.
2. ALL INTERIOR LOAD-BEARING HEADERS SHALL BE (2) 2x8 SYP#1 U.N.O. ALL HEADERS SHALL BE SUPPORTED BY (2) JACK STUDS U.N.O.
3. ALL INTERIOR NON LOAD-BEARING HEADERS SHALL BE (2) 2x6 SYP#1 U.N.O. ALL HEADERS SHALL BE SUPPORTED BY (1) JACK STUD U.N.O.
4. THE NUMBER OF KING STUDS SHALL EQUAL THE NUMBER OF JACK STUDS UNLESS NOTED OTHERWISE.
5. ALL MULTIPLY LVL (3 OR MORE) SHALL BE BOLTED WITH (2) ROWS OF 1/2" ANCHOR BOLTS @ 24" O.C. w/ THE TOP & BOT ROWS STAGGERED 12".

⊙ - INDICATES THE NUMBER OF 2x JACK STUDS REQUIRED.
⊡ - INDICATES THE NUMBER OF LVL JACK STUDS REQUIRED.

WALL BRACING NOTES:

1. THE WALL BRACING REQUIRED BY THIS DRAWING IS DIAGNOSTED TO RESIST THE LATERAL LOADS, WIND AND SEISMIC, AS CALCULATED BY THE ENGINEER OF RECORD.
2. THE WALL BRACING SHALL CONSIST OF FULLY SHEATHED EXTERIOR WALLS UTILIZING 7/16" ORIENTED STRAND BOARD (OSB) ATTACHED WITH 8d NAILS AT 6"oc AT THE PANEL EDGES (TOP AND BOTTOM WALL PLATES AND OPENINGS) AND AT 12"oc IN THE FIELD. ALL EXTERIOR WALLS SHALL BE SHEATHED FULL AS SHOWN.
3. THE HOME & CAR GARAGE WALL BRACING SHALL CONSIST OF FULLY SHEATHED INTERIOR AND EXTERIOR WALLS AT THE OPENINGS AND SHALL UTILIZE 7/16" ORIENTED STRAND BOARD (OSB) AND SHALL BE ATTACHED WITH 8d NAILS AT 6" oc AT THE PANEL EDGES AND 12" oc IN THE FIELD. AT THE BOTTOM, THE WALL PLATE SHALL BE SECURED TO THE FOUNDATION WALL WITH A MINIMUM OF (2) 1/2" DIAMETER ANCHOR BOLTS WITH 9" EMBEDMENT PER U.G.

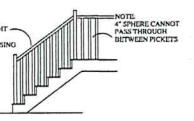
STANDARD DETAIL



TYPICAL STAIR DETAIL

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

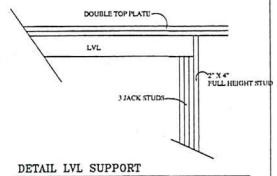
STANDARD DETAIL



TYPICAL HANDRAIL DETAIL

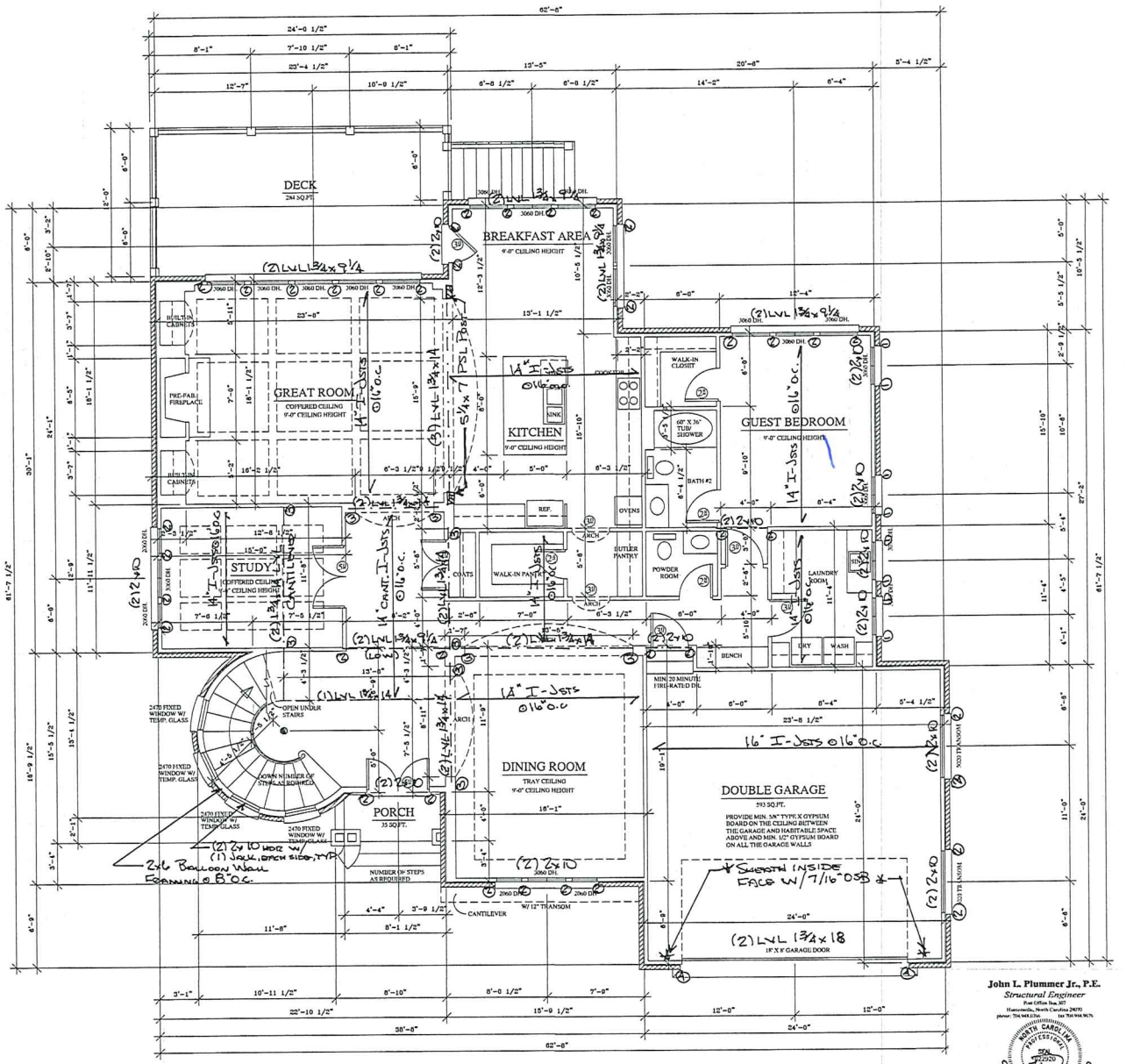
SCALE: 1/4" = 1'-0"

STANDARD DETAIL



DETAIL LVL SUPPORT

SCALE: 1/2" = 1'-0"



FIRST FLOOR PLAN

2350 SQ.FT.

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

John L. Plummer Jr., P.E.
Structural Engineer
Post Office Box 307
Huntersville, North Carolina 28070
phone: 704.948.1754 fax: 704.948.9676

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032920 JOHN L. PLUMMER

06/28/17

DATE PLANS WERE SEALED FOR COMPLIANCE WITH THE STRUCTURAL REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE, 2012 EDITION. THIS SEAL APPLIES TO THE STRUCTURAL MEMBERS ONLY. NO OTHER INFORMATION ON THIS SHEET IS THE RESPONSIBLE CHARGE OF THE SEAL HOLDER.

JEFFERY D. GRAY
RESIDENTIAL DRAFTING & DESIGN
1290 SOUTH BAY STREET ELLENBORO, NORTH CAROLINA 28040
(828) 453-4760

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND COORDINATE ANY CORRECTIONS OR REVISIONS WITH THE OWNER AND DESIGNER. JEFFERY D. GRAY WILL ASSUME NO LIABILITY FOR ANY ERRORS ONCE CONSTRUCTION BEGINS.

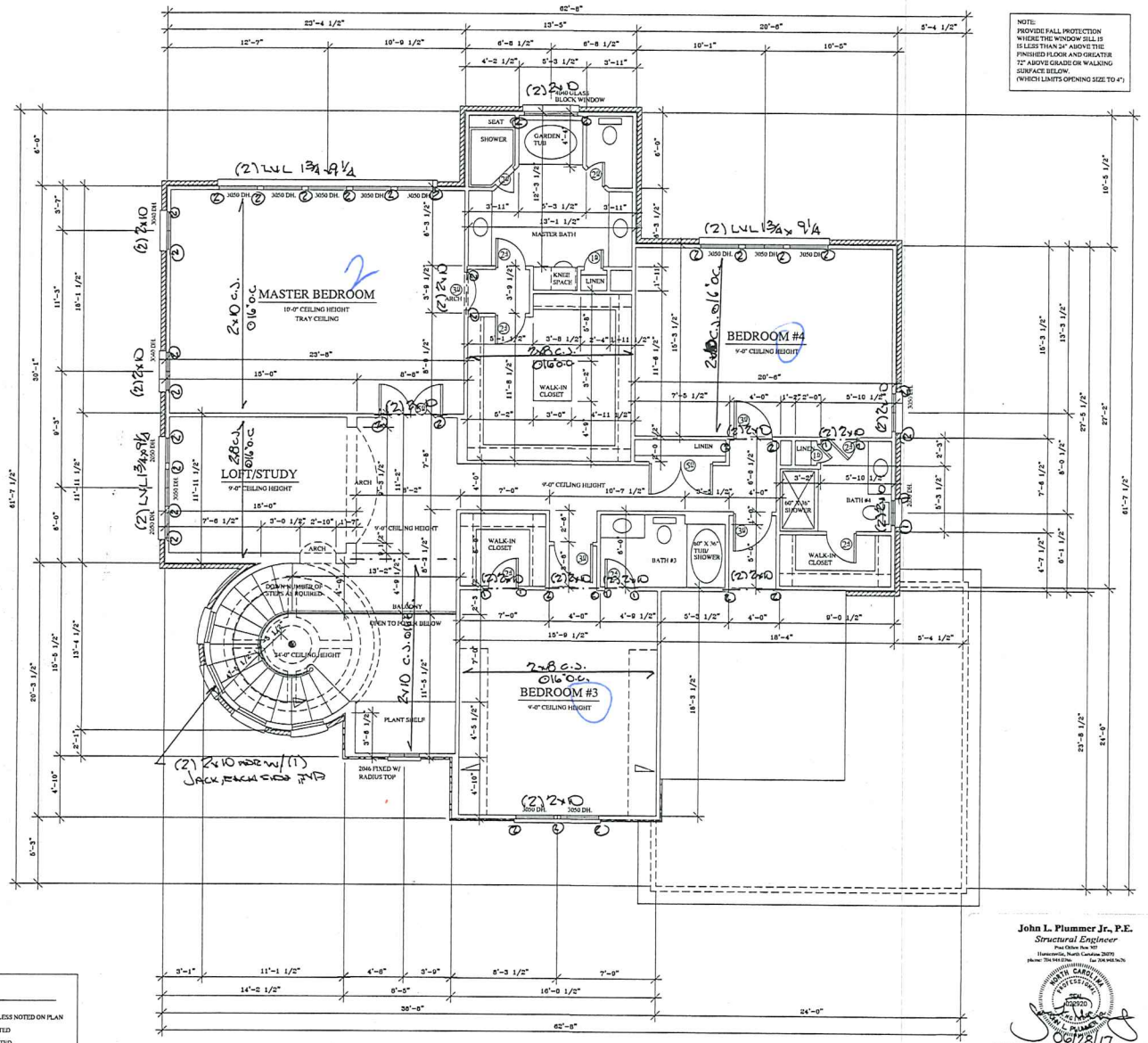
PROJECT:

CRUZ RESIDENCE

DATE: JULY 22, 16
REVISION:
APR. 26, 17

FILE NUMBER
2017-CRUZ-2

SHEET:
4 OF: 6



NOTE:
PROVIDE FALL PROTECTION WHERE THE WINDOW SILL IS LESS THAN 24" ABOVE THE FINISHED FLOOR AND GREATER 72" ABOVE GRADE OR WALKING SURFACE BELOW.
(WHICH LIMITS OPENING SIZE TO 4")

CEILING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS.
2. DO NOT SCALE DIMENSIONS FROM PRINTS. PLANS AND DETAILS ARE NOT ALWAYS DRAWN TO SCALE. USE DIMENSIONS GIVEN OR CONSULT DESIGNER FOR FURTHER CLARIFICATION.
3. ALL JOIST SPANS ARE DETERMINED FLOOR A DEAD LOAD OF 10 PSF AND A LIVE OF 20 PSF
4. CEILING JOISTS SHALL BE (SYP #2) @ 16" O.C., U.N.O.

HEADER NOTES

1. ALL EXTERIOR HEADERS SHALL BE (2) 2x10, SYP#2, U.N.O. ALL HEADERS SHALL BE SUPPORTED BY (2) JACK STUDS, U.N.O.
2. ALL INTERIOR LOAD-BEARING HEADERS SHALL BE (2) 2x10, SYP#2, U.N.O. ALL HEADERS SHALL BE SUPPORTED BY (2) JACK STUDS, U.N.O.
3. ALL INTERIOR NON LOAD-BEARING HEADERS SHALL BE (2) 2x8, SYP#2, U.N.O. ALL HEADERS SHALL BE SUPPORTED BY (1) JACK STUD, U.N.O.
4. THE NUMBER OF KING STUDS SHALL EQUAL THE NUMBER OF JACK STUDS ON EACH SIDE OF THE OPENING.
5. ALL MULTIPLY LVL (3 OR MORE) SHALL BE BOLTED WITH (2) ROWS OF 1/2" ANCHOR BOLTS @ 24" O.C. =/ THE TOP & BOT ROWS STAGGERED 12".

⊙ – IDICATES THE NUMBER OF 2x JACK STUDS REQUIRED.

⊡ – IDICATES THE NUMBER OF LVL JACK STUDS REQUIRED.

NOTES:

ALL WINDOW AND DOOR HEADERS SHALL BE 2-2" X 10" MIN. SPRUCE PINE UNLESS NOTED ON PLAN
ALL FLOOR JOISTS SHALL BE 2" X 10" @ 16" O.C. MIN. SPRUCE PINE UNLESS NOTED
ALL CEILING JOISTS SHALL BE 2" X 8" @ 16" O.C. MIN. SPRUCE PINE UNLESS NOTED
SHEATHING 1/2" MIN. GYPSUM BOARD
INSULATION R-19 FLOOR, R-15 EXTERIOR WALLS, R-30 CEILING

SECOND FLOOR PLAN

2150 SQ.FT.

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

John L. Plummer Jr., P.E.
Structural Engineer
Post Office Box 707
Huntersville, North Carolina 28070
phone: 704.948.0766 fax: 704.948.9676

SEAL 022920 PROFESSIONAL ENGINEER JOHN L. PLUMMER
06/28/17

THESE PLANS HAVE BEEN EXAMINED BY THE SEAL HOLDER FOR COMPLIANCE WITH THE STRUCTURAL REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE, 2012 EDITION. THIS SEAL APPLIES TO THE STRUCTURAL MEMBERS ONLY. NO OTHER INFORMATION ON THIS SHEET IS THE RESPONSIBLE CHARGE OF THE SEAL HOLDER.

JEFFERY D. GRAY
RESIDENTIAL DRAFTING & DESIGN
1208 SOUTH MAIN STREET LINCOLNTON, NORTH CAROLINA 28092
OFFICE (704) 933-4729

CONTRACTOR SHALL CHECK AND VARIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND COORDINATE ANY CORRECTIONS OR REVISIONS WITH THE OWNER AND DESIGNER. JEFFERY D. GRAY WILL ASSUME NO LIABILITY FOR ANY ERRORS ONCE CONSTRUCTION BEGINS.

PROJECT:

CRUZ RESIDENCE

DATE: JULY 22, 16
REVISION:
APR. 26, 17

FILE NUMBER
2017-CRUZ-2

SHEET:
5 OF: 6

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
704-301-4881

SHEET 1 OF 1

COUNTY: Mecklenburg
TAX ID: 197-154-03 and 04

OWNER: Noemi Cruz
LOCATION: Everidge Place - Lots 11 and 12

DATE: November 3, 2014

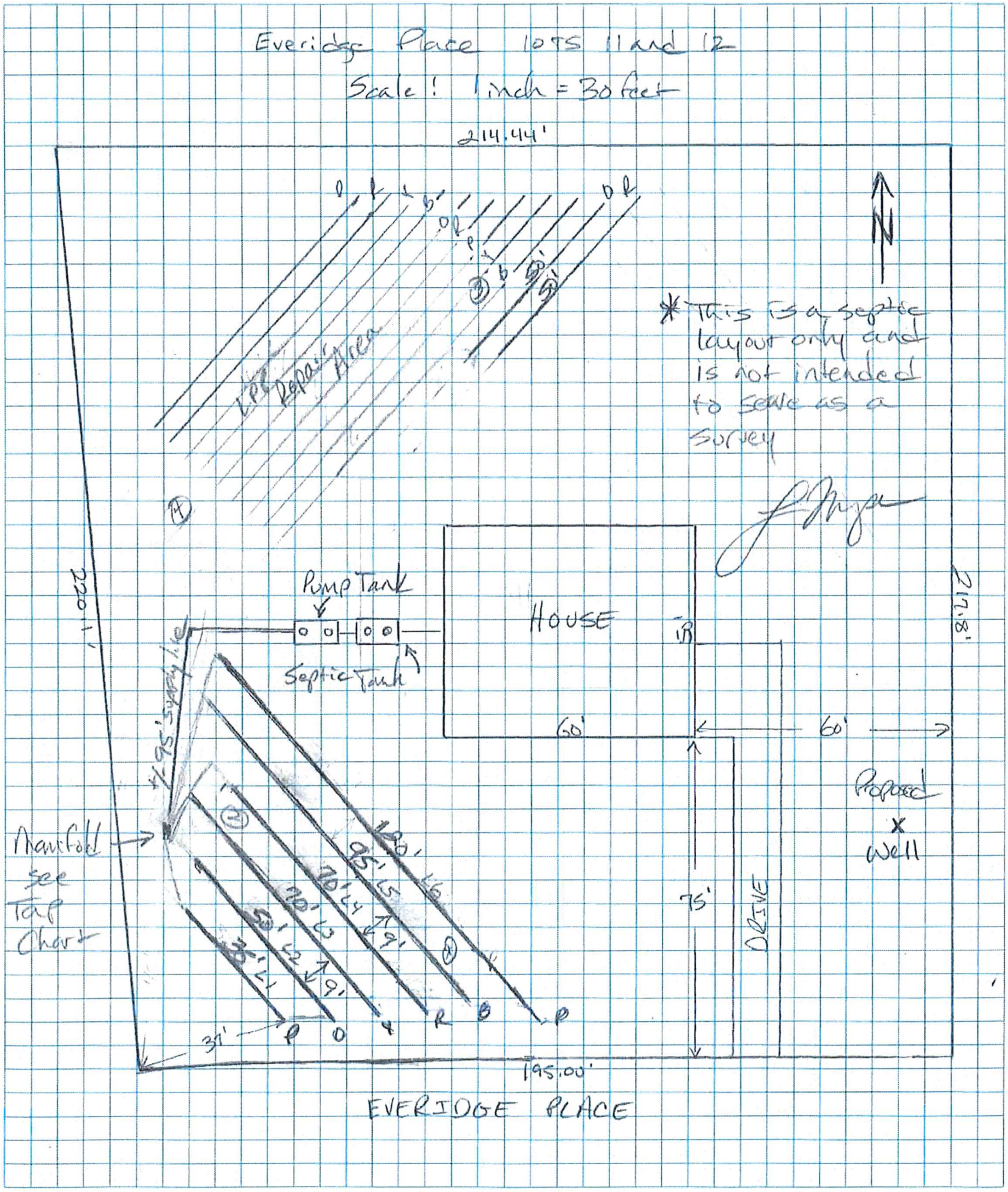
PROFILES		SB-1	SB-2	SB-3	SB-4						
LANDSCAPE POSITION	.1940	ls	ls	ls	ls						
SLOPE (%)	.1940	10%	10%	13%	12%						
HORIZON 1 DEPTH	.1943	0-14	0-13	0-6	0-10						
TEXTURE	.1941 (a)(1)	sicl	sicl	sicl	sicl						
CONSISTENCE	.1941	fr	fr	fr	fr						
STRUCTURE	.1941 (a)(2)	sbk	sbk	sbk	sbk						
CLAY MINERALOGY	.1941 (a)(3)	se	se	se	se						
HORIZON 2 DEPTH	.1943	14-48	13-44	6-32	10-29						
TEXTURE	.1941 (a)(1)	c	c	c	c						
CONSISTENCE	.1941	fi	fi	fi	fi						
STRUCTURE	.1941 (a)(2)	sbk	sbk	sbk	sbk						
CLAY MINERALOGY	.1941 (a)(3)	se	se	se	se						
HORIZON 3 DEPTH	.1943										
TEXTURE	.1941 (a)(1)										
CONSISTENCE	.1941										
STRUCTURE	.1941 (a)(2)										
CLAY MINERALOGY	.1941 (a)(3)										
HORIZON 4 DEPTH	.1943										
TEXTURE	.1941 (a)(1)										
CONSISTENCE	.1941										
STRUCTURE	.1941 (a)(2)										
CLAY MINERALOGY	.1941 (a)(3)										
SOIL WETNESS	.1942										
RESTRICTIVE HORIZON	.1944										
SAPROLITE	.1943/.1956		44	32	29						
CLASSIFICATION	.1948	s	ps	ps	ps						
L.T.A.R. (gpd/ft^2)	.1955	0.275	0.275	0.125	0.125						

OTHER FACTORS (.1946):		**SITE LTAR (gpd/ft^2):**	**0.275/0.125**
AVAILABLE SPACE (.1945):	provisionally suitable		
SITE CLASSIFICATION (.1948):	provisionally suitable	SYSTEM TYPE:	PPBPS initial/LPP repair
EVALUATED BY:	Larry Thompson	OTHERS PRESENT:	

COMMENTS:

Thompson Environmental Consulting, Inc.
114 Orchard Ridge Road
Locust, NC 28097-8748

File Number: 5005B
Location: Lots 11 and 12 – Everidge Place
Date: November 11, 2014



LPP DESIGN

Everidge Place - Lots 11 and 12 REPAIR

subfield 1													
line	color	rod read	elev.	elev. dif.	head	length	hole size	flow/hole	spacing	# holes	1st/last	flow/lat	inst. flow rat
1	red	12.47	87.53	0.00	4.00	100	1/8	0.3684	10.00	10	5.00	3.68	0.0368
2	orange	11.55	88.45	0.92	3.08	100	1/8	0.3233	10.00	10	5.00	3.23	0.0323
3	blue	10.25	89.75	2.22	1.78	100	5/32	0.3840	10.00	10	5.00	3.84	0.0384
4	yellow	10.16	89.84	2.31	1.69	100	5/32	0.3742	10.00	10	5.00	3.74	0.0374
5	pink	8.78	91.22	3.69	0.31	100	5/32	0.1603	4.00	22	8.00	3.53	0.0353
				total	feet =	500					gal/min =	18.03	
subfield 2													
6	red	8	92.00	0.00	3.00	100	1/8	0.3191	7.00	14	4.50	4.47	0.0447
7	orange	7.95	92.05	0.05	2.95	100	5/32	0.4944	10.00	10	5.00	4.94	0.0494
8	blue	6.45	93.55	1.55	1.45	50	5/32	0.3466	4.00	12	3.00	4.16	0.0832
9	yellow	6.20	93.80	1.80	1.20	50	5/32	0.3153	3.50	13	4.00	4.10	0.0820
				total	feet =	300					gal/min =	17.67	

Total Feet = 800

Total gal/min = 35.69

Max Reduction = 100.00

EZ*flow* by INFILTRATOR



EZ*flow* by Infiltrator is an environmentally friendly replacement to traditional stone and pipe drainfields using an engineered geosynthetic aggregate modular design. The **EZ*flow*** system is designed to improve infiltration performance by eliminating the fines associated with crushed stone, and reducing compaction and embedment associated with stone. Preassembled units include a 3" or 4" perforated pipe surrounded by aggregate and held in place with a durable high-strength netting. This product comes in easy-to-contour 5' and 10' lengths and in diameters of 7, 8, 9, 10, 12, 13, or 14 inches.

Compared with stone and pipe, benefits include:

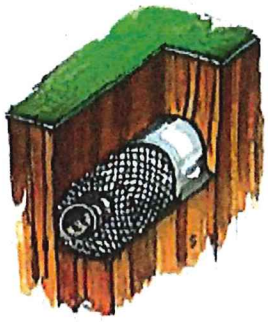
- Always clean and free of fines
- Bundles are quick to install, saving costs on heavy machinery and labor
- Modular construction allows configurations to match trench dimensions for most system shapes and sizes
- Engineered for optimal storage and absorption efficiencies
- Ability to contour along sloped sites and around trees or landscaping
- Lightweight system is perfect for repairs and tight job sites
- Easily hand-carried into position reducing time and labor
- 5' or 10' lengths with simple snap, internal couplers
- Easier cleanup at the job site with the elimination of stone
- Manufactured from recycled materials rather than a mined natural resource
- A wide variety of diameters and configurations to meet any installation professional's needs
- Approved in many jurisdictions with an increased efficiency rating, reducing drain field size
- Also useful for foundation and other drainage applications
- Backed by the leader in the onsite wastewater industry

EZ*flow*™ by INFILTRATOR

For technical assistance, installation instructions or customer service, call Infiltrator Systems at 800.689.7759.

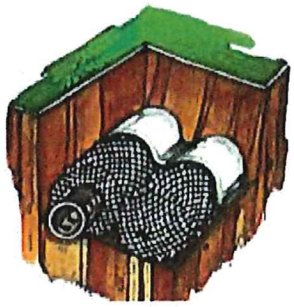
EZ*flow* by INFILTRATOR

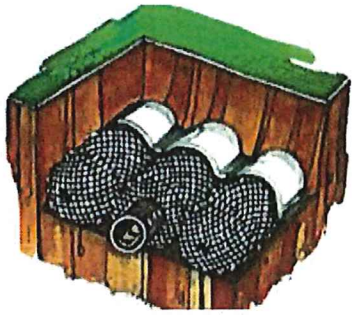
Configurations: Available in 7", 8", 9", 10", 12", 13" and 14" diameter bundles.



Single Pipe Systems

0701P-GEO
0801P-GEO
1001P-GEO
1001LPP-GEO
1201P-GEO
1201LPP-GEO
1401P-GEO





Horizontal Systems

0705H-GEO
0904H-GEO
1002H-GEO
1003H-GEO
1006H-GEO
1202H-GEO
1203H-GEO
1203HP-GEO
1206H-GEO
1209H-GEO
1303H-GEO
1402H-GEO





Vertical Systems

1002V-GEO
1003V-GEO
1004V-GEO
1006V-GEO
1202V-GEO
1203V-GEO
1204V-GEO
1206V-GEO
1402V-GEO



Triangular Systems

1003T-GEO
1203T-GEO
1303T-GEO
1403T-GEO

Notes:

1. *Other systems include 12" square and 10" and 12" bed systems. Bed systems will dictate the number of bundles.*
2. *System dimensions are dependent upon bundle diameter and configuration.*
3. *LLP is for "Low Pressure Pipe" in which a pressurized distribution pipe is field installed within the corrugated pipe.*
4. *Internal pipe and couplings meet the requirements of ASTM F405.*
5. *Bundles are also available without geotextile between the netting and synthetic aggregrate.*

INFILTRATOR SYSTEMS INC. STANDARD LIMITED WARRANTY

(a) The structural integrity of each EZflow by Infiltrator expanded polystyrene drainfield system and other accessories manufactured by EZflow by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by EZflow by Infiltrator to be covered by this Limited Warranty. EZflow by Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b)THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This Limited Warranty shall be void if any part of the EZflow system is manufactured by anyone other than EZflow by Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

* * * * * * * *

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR®
systems inc.

6 Business Park Road • P.O. Box 768
Old Saybrook, CT 06475
860.577.7000 • FAX 860.577.7001

800.689.7759
www.ezflowlp.com
www.infiltratorsystems.com

For technical assistance, installation instructions or customer service, call Infiltrator Systems at 800.689.7759.

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EZ010609AW-0

The **Quick4® Standard** Chamber

INFILTRATOR® systems inc.





The evolutionary patent-pending Quick4® Standard Chamber fits in a 36" wide trench and is ideal for curved or straight systems. It features the patent-pending Contour Swivel Connection™ which permits 10-degree turns, right or left. The MultiPort™ end cap allows multiple piping options and eliminates pipe fittings. The chamber's four-foot length provides optimal installation flexibility.

The Quick4 Standard Chamber Offers You These Unique Benefits:

- Advanced contouring connections swivel 10-degrees, right or left
- Latching mechanism allows for quick installation
- Compact nesting provides more trench length in an equivalent stack height
- Four-foot chambers are easy to handle and install
- The Quick4 Standard Chamber supports wheel loads of 16,000 lbs/axle with only 12" of cover
- Certified by the International Association of Plumbing and Mechanical Officials (IAPMO)

The MultiPort End Cap Offers These Unique Benefits:

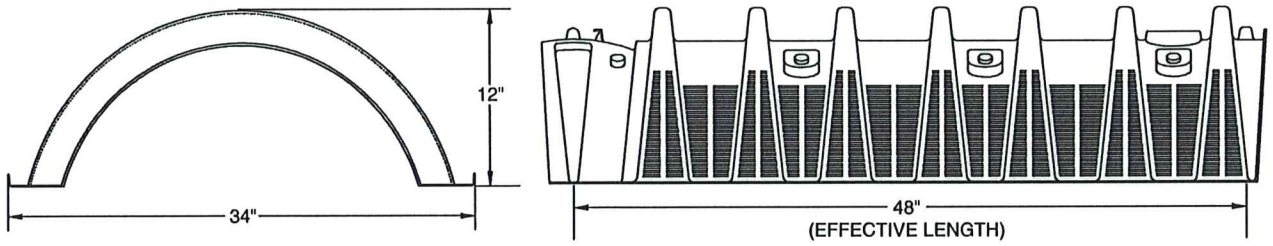
- Patent-pending tear-out seals on inlet ports provide a tight fit to the pipe
- Eight molded-in inlets/outlets allow for maximum piping flexibility
- Multiple ports eliminate pipe fittings and make looping ends easy
- Patent-pending MultiPort end cap fits on either end of the Quick4 Standard Chamber

Infiltrator is the number-one septic leachfield chamber system in the onsite industry, with over 42 million units in-ground in all 50 states and 24 countries.

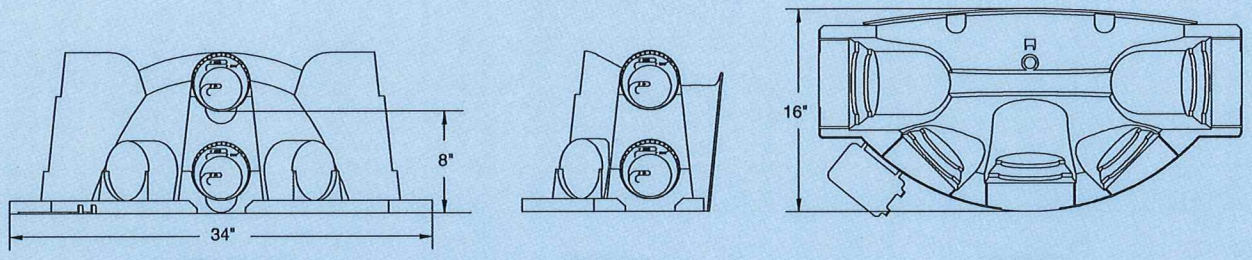
Approved in _____

The **Quick4® Standard** Chamber

The Quick4 Standard Chamber



MultiPort End Cap



FRONT VIEW | SIDE VIEW | TOP VIEW

Quick4 Standard Chamber Specifications

Size (W x L x H) .....34" x 53" x 12" (86 cm x 135 cm x 31 cm)	Louver Height.....8" (20 cm)
Effective Length .....48" (122 cm)	Invert Height.....8" (20 cm)

INFILTRATOR SYSTEMS, INC. STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, end cap and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b)THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

.....

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR®
systems inc.
6 Business Park Road • P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • FAX 860-577-7001

1-800-221-4436
www.infiltratorsystems.com

For technical assistance, installation instructions or customer service, call Infiltrator Systems at 1-800-221-4436.

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844
Canadian Patents: 1,329,959; 2,004,564 Other patents pending.

Infiltrator, Equalizer, Quick4 and SideWinder are registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico. ChamberSpacer, Contour, Contour Swivel Connection, MicroLeaching, MultiPort, PolyTuff, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Systems Inc. © 2006 Infiltrator Systems Inc. Printed in U.S.A.

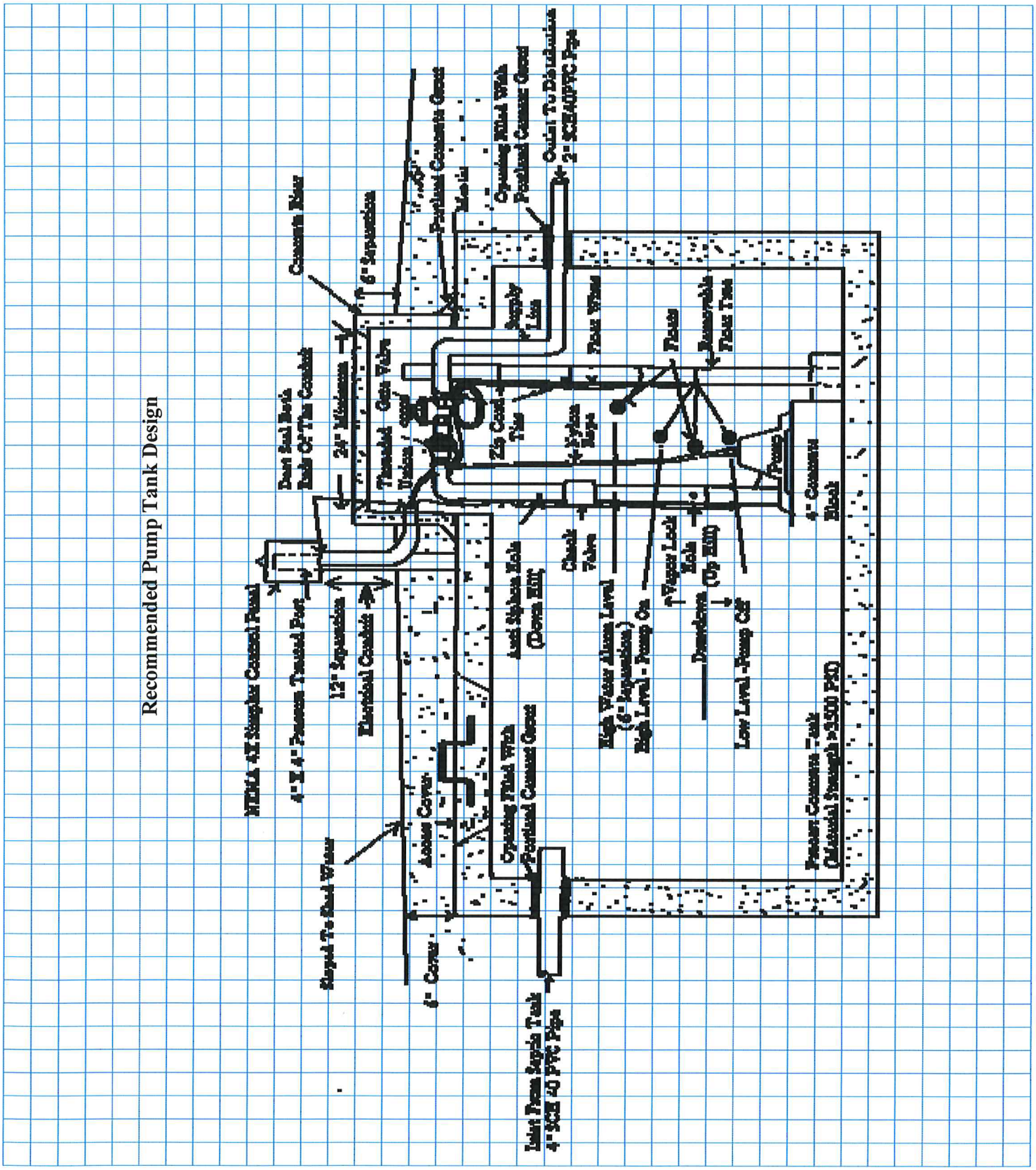
Thompson Environmental Consulting
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 197-154-03 and 04

Location: Everidge Place – Lots 11 and 12

Date: November 10, 2014

Recommended Pump Tank Design



GOULDS PUMPS



Submersible Effluent Pump

MODEL 3885

WE Series

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ Class B insulation on ⅓-1½ HP models.
■ Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ⅓ and ½ HP models have NEMA three prong grounding plugs.
- ¾ HP and larger units have bare lead cord ends.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

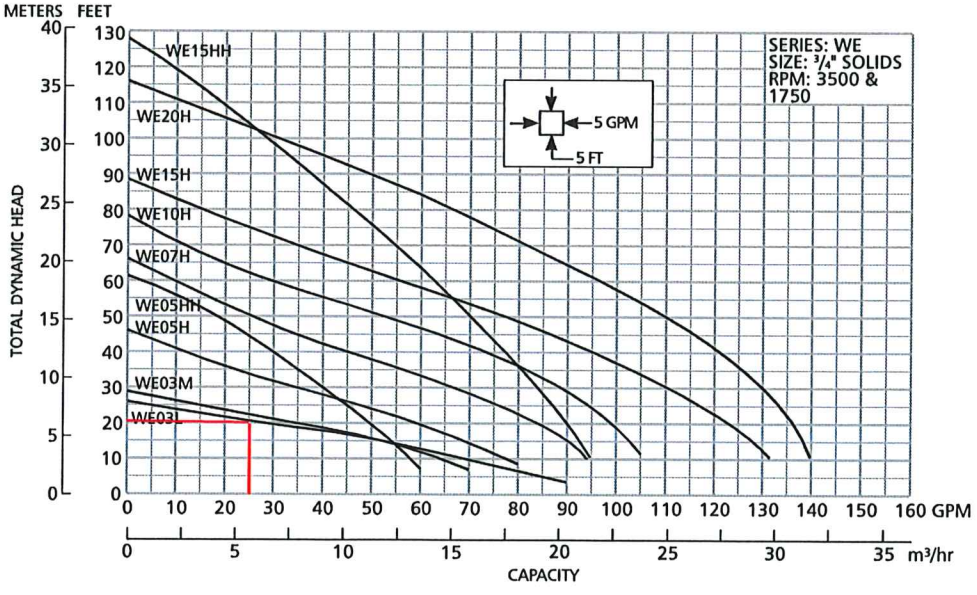
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

C SA US — Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

Goulds Pumps is ISO 9001 Registered.



Goulds Pumps

ITT Industries

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Effective July, 2003
B3885

www.goulds.com

GOULDS PUMPS

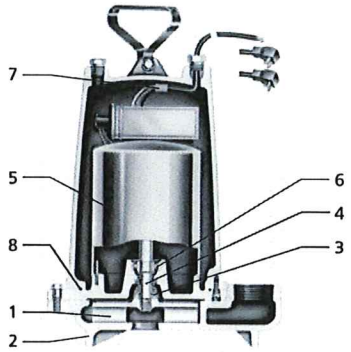
Submersible Effluent Pump

MODEL 3885

WE Series

COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



MODELS

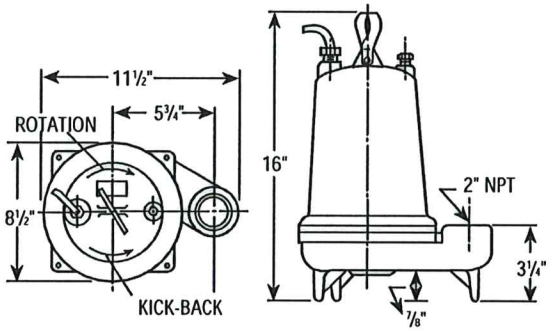
Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids	Wt. (lbs.)
WE0311L	1/3	115	1	10.7	1750	3/4"	56
WE0318L		208		6.8			
WE0312L		230		4.9			
WE0311M		115		10.7			
WE0318M		208		6.8			
WE0312M		230		4.9			
WE0511H	1/2	115	1	14.5	3500		60
WE0518H		208		8.1			
WE0512H		230		7.3			
WE0538H		200	3	4.9			
WE0532H		230		3.3			
WE0534H		460		1.7			
WE0537H		575		1.4			
WE0511HH		115	1	14.5			
WE0518HH		208		8.1			
WE0512HH		230		7.3			
WE0538HH		200	3	4.9			
WE0532HH		230		3.6			
WE0534HH		460		1.8			
WE0537HH		575		1.5			
WE0718H	3/4	208	1	11.0			70
WE0712H		230		10.0			
WE0738H		200	3	6.2			
WE0732H		230		5.4			
WE0734H		460		2.7			
WE0737H		575		2.2			
WE1018H	1	208	1	14.0			
WE1012H		230		12.5			
WE1038H		200	3	8.1			
WE1032H		230		7.0			
WE1034H		460		3.5			
WE1037H		575		2.8			
WE1518H	1 1/2	208	1	17.5			80
WE1512H		230		15.7			
WE1538H		200	3	10.6			
WE1532H		230		9.2			
WE1534H		460		4.6			
WE1537H		575		3.7			
WE1518HH		208	1	17.5			
WE1512HH		230		15.7			
WE1538HH		200	3	10.6			
WE1532HH		230		9.2			
WE1534HH		460		4.6			
WE1537HH		575		3.7			
WE2012H	2	230	1	18.0			83
WE2038H		200	3	12.0			
WE2032H		230		11.6			
WE2034H		460		5.8			
WE2037H		575		4.7			

PERFORMANCE RATINGS (gallons per minute)

Order No.		WE03L	WE03M	WE05H	WE07H	WE10H	WE15H	WE05HH	WE15HH	WE20H
Total Head Feet of Water	HP	1/3	1/3	1/2	3/4	1	1 1/2	1/2	1 1/2	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
	5	86	–	–	–	–	–	–	–	–
	10	70	63	78	–	–	–	58	–	–
	15	52	50	70	90	–	–	53	–	–
	20	27	35	60	83	98	123	49	90	136
	25	–	–	48	76	94	117	45	87	133
	30	–	–	35	67	88	110	40	83	130
	35	–	–	20	57	82	103	35	80	126
	40	–	–	–	45	74	95	30	77	121
	45	–	–	–	35	64	86	25	74	116
	50	–	–	–	25	53	77	–	70	110
	55	–	–	–	–	40	67	–	66	103
	60	–	–	–	–	30	56	–	63	96
	65	–	–	–	–	20	45	–	58	89
	70	–	–	–	–	–	35	–	55	81
	75	–	–	–	–	–	25	–	51	74
	80	–	–	–	–	–	–	–	47	66
	90	–	–	–	–	–	–	–	37	49
	100	–	–	–	–	–	–	–	28	30

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



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Goulds Pumps

ITT Industries

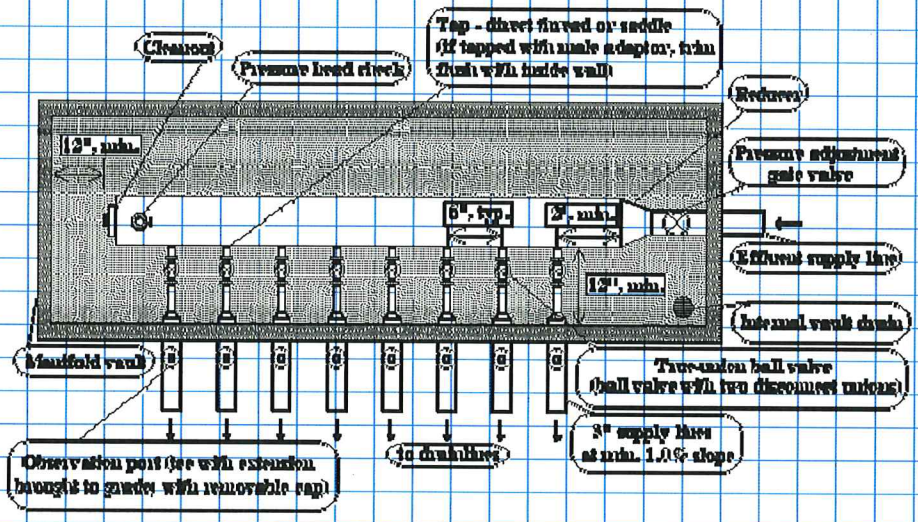
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

Tax ID Number: 197-154-03 and 04

Location: Everidge Place – Lots 11 and 12

Date: January 22, 2015

Recommended Pressure Manifold Design



* See TAP CHART for tap size details

11

BK: 07108 PG: 0852/0853 #:0188 $.00

REGISTERED NOV/20/1992 12:32PM ANNE A. POWERS REGISTER OF DEEDS MECK. CO. N.C.

Excise Tax | Recording Time, Book and Page

Tax Lot No. ... Parcel Identifier No. 19715403, 19715404

Verified by Mecklenburg County on the 13th day of Nov. ..., 1992

by ...

Mail after recording to David P. Coss, Olive-Monnett, PA, P. O. Box 31515, Charlotte, NC 28231

This instrument was prepared by David P. Coss

Brief description for the Index: Lots 11 & 12, Block B, Mint Hill Est.

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 13 day of November, 1992, by and between

GRANTOR	GRANTEE
TIMOTHY J. WALTERS and wife, TINA R. BLACK	THOMAS R. BLACK and wife, PATTIE B. BLACK 65 Pinyon Circle Pinehurst, NC 28374

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of Mint Hill, Clear Creek Township, Mecklenburg County, North Carolina and more particularly described as follows:

Being Lots 11 and 12 in Block B of Mint Hill Estates, as shown on a map thereof which is recorded in Map Book 10, page 75, in the Office of the Register of Deeds for Mecklenburg County, North Carolina.

Being a portion of the same property conveyed to Thomas R. Black and wife, Pattie B. Black, by Ruth S. Civil (Widow) and William G. Allen, Jr. and wife, Nell Beck Allen, in a deed recorded in Book 2735 at Page 127 in the Office of the Register of Deeds for Mecklenburg County, North Carolina dated December 23, 1965 and recorded March 4, 1966.

This being the same property conveyed to John K. Civil and wife and William G. Allen, Jr. and wife, Nell Beck Allen in a deed recorded in Book 2285, Page 11, in the Mecklenburg County Public Registry.

This is a deed of gift.

... Revised ... 1977 ... 1981

10 700 PG 871

-0-

The property hereinabove described was acquired by Grantor by instrument recorded in .....

Book 5552, Page 858, in the Office of the Register of Deeds for Mecklenburg County, NC.

A map showing the above described property is recorded in Plat Book .. . . page . . ..

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated. Title to the property hereinabove described is subject to the following exceptions:

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

..... (Corporate Name)

By: .....

.....President

ATTEST:

.....Secretary (Corporate Seal)

USE BLACK INK ONLY

Timothy J. Walters .....(SEAL.)

Timothy J. Walters

Tina R. Black .....(SEAL.)

Tina R. Black

.....(SEAL.)

.....(SEAL)

SEAL-STAMP

NOTARY PUBLIC MECKLENBURG COUNTY, N.C.

NORTH CAROLINA, Mecklenburg County.

I, a Notary Public of the County and State aforesaid, certify that Timothy J. Walters and Tina R. Black Grantors personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 13th day of November, 19 92.

My commission expires: 6/29/97 Geraldine N. Burrows Notary Public

Use Black Ink

SEAL-STAMP

NORTH CAROLINA, ...County.

I, a Notary Public of the County and State aforesaid, certify that .....

personally came before me this day and acknowledged that .... he is ..... Secretary of

..... a North Carolina corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its ..... President, sealed with its corporate seal and attested by ..... as its ..... Secretary.

Witness my hand and official stamp or seal, this .....day of ....., 19.....

My commission expires: ..... Notary Public

Use Black Ink

The foregoing Certificate(s) of .....

.....

.....

is are certified to be correct. This instrument and first page hereof.

.....

By .....

State of North Carolina, County of Mecklenburg

The foregoing Certificate(s) of Jeraldine N. Burrows

.....

.....

.....

Notary(ies) Public is/are certified to be correct. This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page hereof.

.....

on the

OUNTY

ANNE A. POWERS, REGISTER OF DEEDS

By Geraldine N. Burrows Deputy - Register of Deeds

N. C. Bar Assoc. Forms Nos. 3 & 1976, Revised © 1977 Printed by Agreement with the N. C. Bar Assn. - 1968 Forms Publishing Co., Inc. Box 199 Smithfield, N. C. 27577

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	07/03/02	**Amount:**	200.00
Receipt #:	9096	**Tendered:**	200.00
Check / Auth #:	CHECK 1632	**Returned:**	0.00
Received By:	FOSTERV		

Account Information

Account #: 200000
Contractor: SANTIAGO CRUZ
Attn: DBA CRUZ CONSTRUCTION
Address: PO BOX 690234
Address:
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen EVERIDGE PL LOTS 11 & 12		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
[illegible]00					

FEE: 200
DATE: 7/3/02 RP

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

[ ] CRT

TYPE APPLICATION: ___ NEW SYSTEM __ EXPANSION/ ALTERATION OF EXISTING SYSTEM ___ REPAIR OF EXISTING SYSTEM

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: 5005B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 197154.04 & 197.154.03

STREET ADDRESS: 11915 & 11923 Everidge Place

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: 11, 12

TYPE OF BUILDING (CHECK ONE):

___ SINGLE MOBILE HOME(S)
___ DOUBLE WIDE (D)
✓ HOUSE (H)
___ MODULAR HOME (M)
___ MULTIPLE FAMILY (U)
___ OTHER (O)

HEATED SQUARE FOOTAGE: 4,500 Sq. Ft.

NUMBER OF BEDROOMS: 4

NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
✓ WITH BASEMENT /PLUMBING
___ WITH BASEMENT /NO PLUMBING

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
___ 1 CHARLOTTE
___ 2 DAVIDSON
___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
___ 7 MINT HILL

CLOSING DATE _____

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ✓ YES ___ NO TYPE: _____

WATER SUPPLY (CHECK ONE):

___ COMMUNITY (C)
___ MUNICIPAL (M)
✓ PRIVATE WELL (P)
___ SHARED WELL (S)
___ OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES	___ YES ___ NO	WELL, SPRINGS OR WATERLINES	___ YES ___ NO
EXISTING WASTEWATER SYSTEMS	___ YES ___ NO	DESIGNATED WETLANDS	___ YES ___ NO
EASTMENTS OR RIGHT-OF-WAYS	___ YES ___ NO		

PROPERTY OWNER:

NAME: (LAST) Black (FIRST) Pattie (MI) and thomas

ADDRESS: PO Box 1365

CITY: Pineburst STATE: NC ZIP: 28374

DAYTIME PHONE: ( ) ---

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) Cruz (FIRST) Santiago + wife (MI) Naemi

DAYTIME PHONE: ( ) 704-- 573-4279
363-1860
363-1820

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Naemi Cruz DATE: 7/3/02

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

Placed info Billie's hot on 7/3/02 RP see 4:50

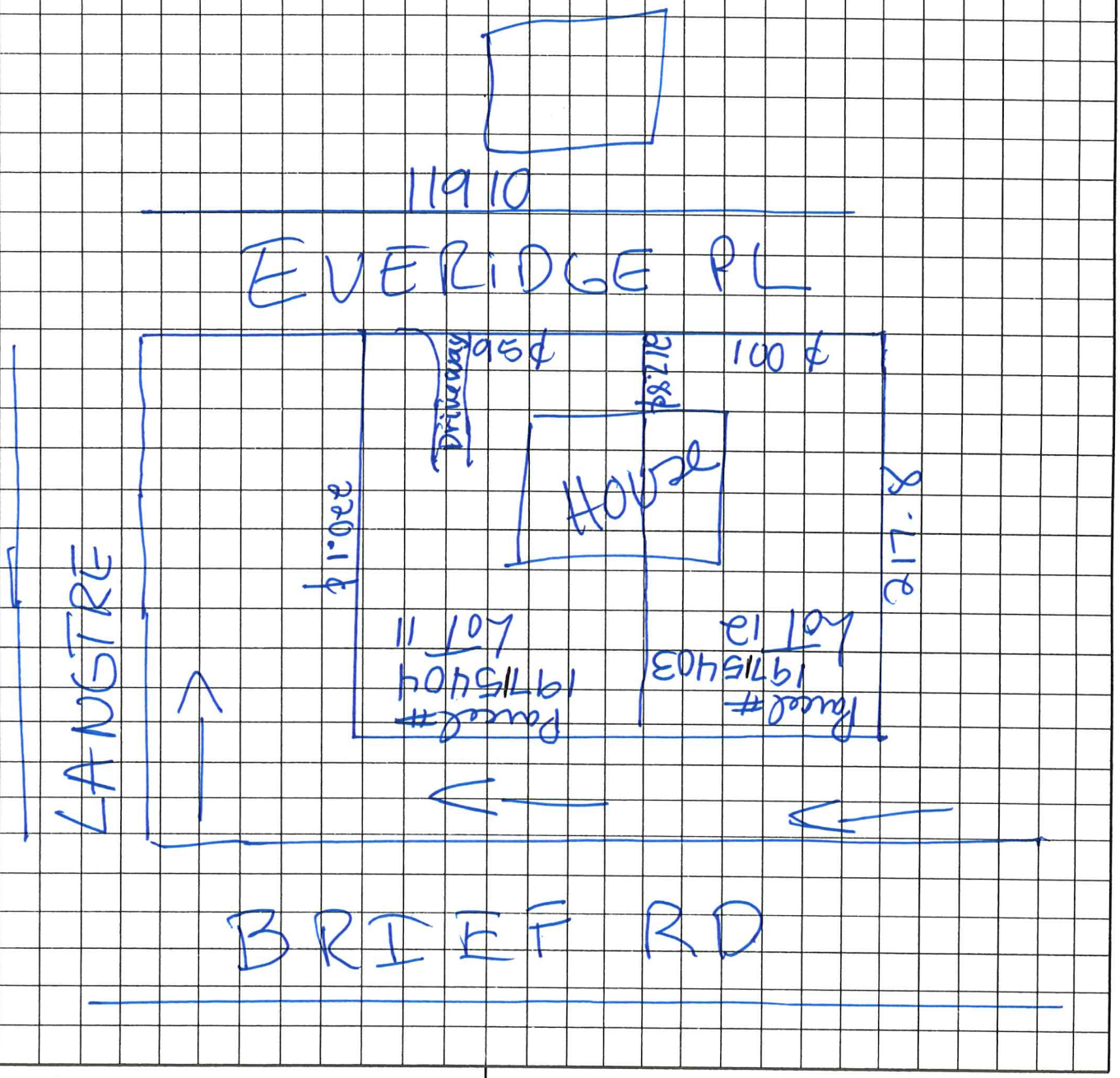
PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 5005B

TC: 197.154.03 & 197.154.04

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



OWNER/AGENT SIGNATURE Maeni Cruz

DATE 7/3/02

APPROVAL DATE _____

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	12/04/17	**Amount:**	200.00
Receipt #:	108409	**Tendered:**	200.00
Check / Auth #:	MC 001860	**Returned:**	0.00
Received By:	ABDUSAI		

Account Information

Account #: 200000
Contractor: CRUZ, NOEMI
Attn:
Address: 8403 RED SETTER LN
Address:
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 11915 EVERIDGE PL		1	200.00	200.00

----------**Outstanding Balances**----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	12/04/17	**Amount:**	200.00
Receipt #:	108410	**Tendered:**	200.00
Check / Auth #:	MC 001860	**Returned:**	0.00
Received By:	ABDUSAI		

Account Information

Account #: 200000
Contractor: CRUZ, NOEMI
Attn:
Address: 8413 RED SETTER LN
Address:
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 11915 EVERIDGE PL		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

FEE: 200.00

DATE: 12/22/2017

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY

GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 5005B

PERMIT NUMBER: 30007075

PARCEL NUMBER: 19715403

JOB LOCATION INFORMATION

ADDRESS: 11915 EVERIDGE PL

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: Noemi Cruz

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 12/11/2017

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30007075, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, AND MAY BE ISSUED AT THE SAME TIME THE IMPROVEMENT PERMIT IS ISSUED.

Authorized Agent Signature Bryan Dapsak