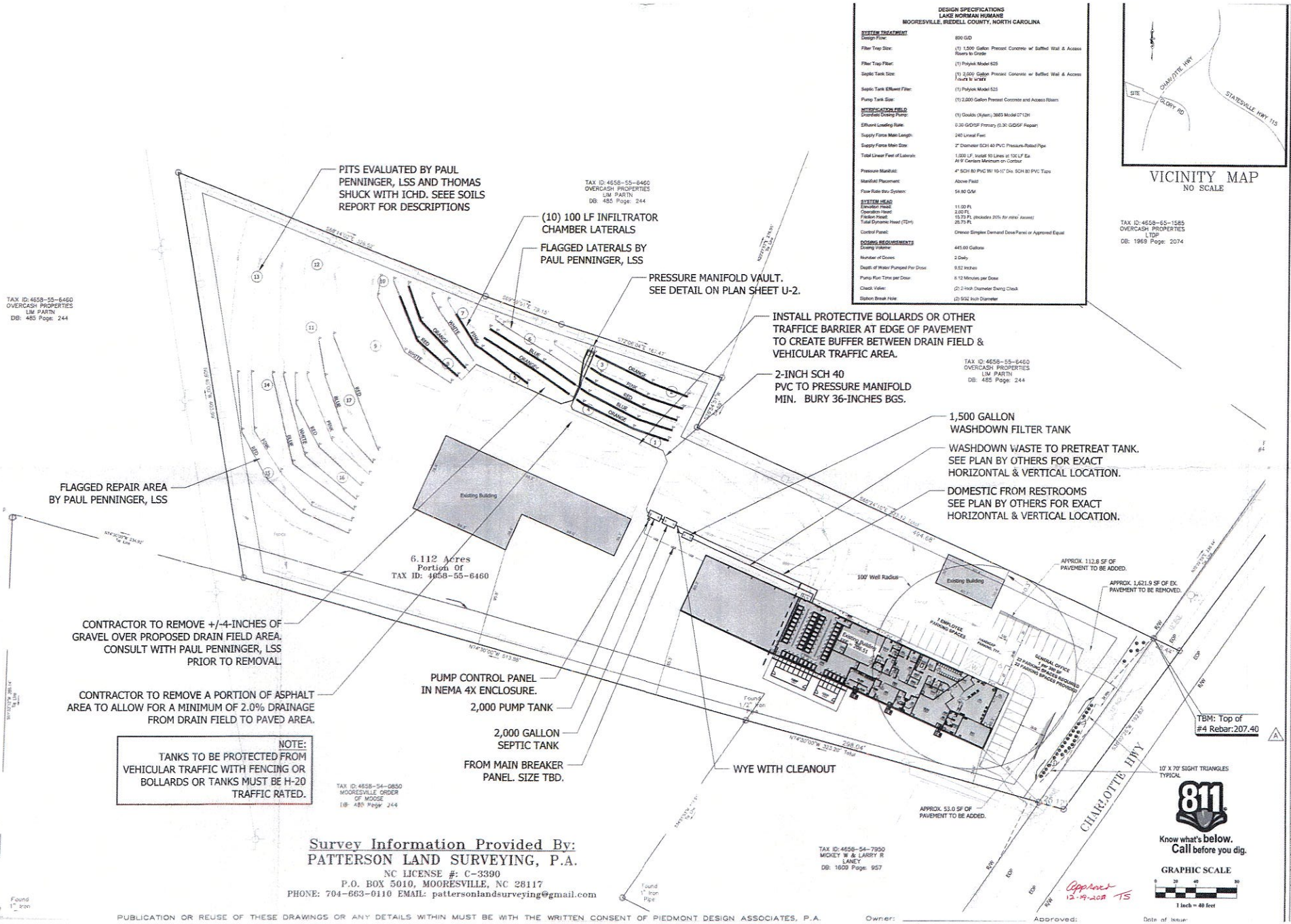


Survey Information Provided By:
PATTERSON LAND SURVEYING, P.A.
NC LICENSE #: C-3390
P.O. BOX 5010, MOORESVILLE, NC 28117
PHONE: 704-663-0110 EMAIL: pattersonlandsurveying@gmail.com

PUBLICATION OR REUSE OF THESE DRAWINGS OR ANY DETAILS WITHIN MUST BE WITH THE WRITTEN CONSENT OF PIEDMONT DESIGN ASSOCIATES, P.A.

Owner: _____ Approved: _____ Date of Issue: _____

PIEDMONT DESIGN
ENGINEERING / SURVEYING / PLANNING
Associates, P.A.
Suite 101 Westfield Center, 125 East Plaza Drive
Mooresville, NC 28115 Phone: (704) 896-2333 Fax: (704) 896-2373
NC BELS License #: C-1807 www.pdapa.com

PREPARED FOR:
LAKE NORMAN HUMANE
110 ROBINSON ROAD
MOORESVILLE, NC 28117
704-663-3330

SEPTIC SYSTEM OVERALL PLAN
LAKE NORMAN HUMANE
2106 CHARLOTTE HIGHWAY
MOORESVILLE, IREDELL COUNTY, NORTH CAROLINA

REVISIONS	BY
REV. PER COMMENTS BY IREDELL CO. HEALTH DEPT. 1ST SUBMIT. (11/12/18)	DMD

Date: 11/19/18
Scale: 1" = 40' FT 1' CONTOURS
Drawn: DMD
Checked: DLM
Project: 2018-11-01-EH
Job: 2018-11-01-EH
Sheet: U-1
A 12/12/18

SPECIFICATIONS, CALCULATIONS, SOILS NOTES AND SUPPORTING MATERIAL

FOR A

SUBSURFACE SEWAGE EFFLUENT DISPOSAL SYSTEM USING SEPTIC TANK AND PUMP TANK

FOR NEW FACILITY TO SERVE

LAKE NORMAN HUMANE
2106 CHARLOTTE HIGHWAY (HIGHWAY 21)
MOORESVILLE, IREDELL COUNTY, NC

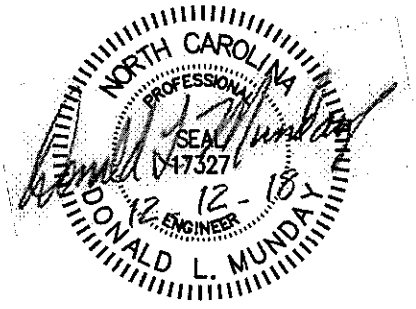
November 12, 2018
Revised December 12, 2018

PREPARED FOR:

Lake Norman Humane
110 Robinson Road
Mooresville, NC 28117
Phone: 704-663-3330

PREPARED BY:

PIEDMONT DESIGN ASSOCIATES, P.A.
Suite 101 Westfield Center
125 East Plaza Drive
Mooresville, NC 28115
Phone: (704) 664-7888
Fax: (704) 664-1778
NCBELS No.: C-1007



APPROVED DEC 19 2018

Owner Copy (Provide w/ OP)

Ground Absorption Sewage Disposal System
Lake Norman Humane Septic System
Mooresville, Iredell County, NC

SECTION I - INTRODUCTION AND DESIGN CONSIDERATIONS

Due to an expanding operation, Lake Norman Humane is proposing to move operations from their current location at the corner of Highway 150 and Robinson Road west of Mooresville. Lake Norman Humane is currently demoing and upfitting the vacant Overcash Electric building located north of Mooresville off Highway 21 in Iredell County, North Carolina. Trish Angoli, PE at DHHS Onsite Water Protection Section, recommended that effluent samples be taken from the existing facility. Statesville Analytical pulled samples for analysis (see attached). Samples were taken for BOD5, Fecal Coliforms Nitrate/Nitrite, TKN, Total Nitrogen and TSS. All were at or below domestic waste strength.

The current septic system at the new facility will be fully abandoned. The facility will consist of 23 cat cages and 38 dog cages at 5 GPD each, 13 indoor dog runs at 10 GPD each, 4 full time employees, 10 part time employees, grooming room, veterinarian room and surgery room. The rear portion of the facility will be used for general business for 4 full time employees.

The facility is planning on using a vac system which collects animal waste and discharges in to waste stream. The Engineer is requiring this waste to pass through a filter tank which consists of a 1,500-gallon grease tank with a 1/32-inch filter screen on the outlet side of the second chamber of the tank. Effluent from this tank will be introduced into the domestic waste stream prior to entering the 2,000-gallon septic tank.

Daily design flow has been set at 890 gallons per day for the system.

The facility is to be served by an existing onsite water supply source located more than 100 feet from any septic system component. Paul Penninger, LSS evaluated the soils at the rear of the property, Mr. Penninger flagged out laterals in areas that, in his professional opinion, were suitable for a nitrification field. Referring to the LSS recommendation, an LTAR has been determined as 0.30 gallons per square foot per day. Soils work was reviewed and agreed upon with Tom Schuck, REHS with Iredell County Health Department on November 8, 2018.

The facilities sewer collection system shall comply with the latest Volume II NC Plumbing Code.

Before any site construction, the area of the nitrification field and reserve area shall be barricaded with orange barricade fence to prevent any access by vehicles, grading equipment and there shall be no earth disturbance of this area unless under the direction of the Soil Scientist. There will be approximately 4 inches of gravel overburden removed from the drain field area. This work shall only be done under the direct supervision of the Soil Scientist.

The following publications shall be a part of these specifications. Any deviation between them and these specifications shall be brought to the attention of the engineer for clarification.

(1) LAWS AND RULES FOR GROUND ABSORPTION SEWAGE TREATMENT & DISPOSAL SYSTEMS. N. C. Department of Environment, Health and Natural Resources; Division of Environmental Health, On-Site Waste Water Section; Administrative Code Section 15A N.C.A.C. 18A.1900, amended effective date July 1, 1995.
(2) PRESSURE MANIFOLD DESIGN FOR GROUND ABSORPTION SEWAGE SYSTEM. Steven J. Berkowitz; February 1986.
(3) GUIDANCE MATERIAL, Onsite Waste Water Management, March 1996, NC DENR Onsite Waste Water Section.

Directions to the Property:
From Highway 150, head north on Highway 21 toward Troutman. Facility is located north of Cornelius Road just past the old Laney's Fish Camp on the left. The facility is the old Overcash Electric building. The new septic system will be located in the rear of the site. Tanks will be located at the rear of the main building as shown on the septic system site plan.

DESIGN SPECIFICATIONS
LAKE NORMAN HUMANE
MOORESVILLE, IREDELL COUNTY, NORTH CAROLINA

SYSTEM TREATMENT

Design Flow:	890 G/D
Filter Trap Size:	(1) 1,500 Gallon Precast Concrete w/ Baffled Wall & Access Risers to Grade
Filter Trap Filter:	(1) Polylok Model 625
Septic Tank Size:	(1) 2,000 Gallon Precast Concrete w/ Baffled Wall & Access Risers to Grade
Septic Tank Effluent Filter:	(1) Polylok Model 525
Pump Tank Size:	(1) 2,000 Gallon Precast Concrete and Access Risers

NITRIFICATION FIELD

Drainfield Dosing Pump:	(1) Goulds (Xylem) 3885 Model 0712H
Effluent Loading Rate:	0.30 G/D/SF Primary (0.30 G/D/SF Repair)
Supply Force Main Length:	240 Lineal Feet
Supply Force Main Size:	2" Diameter SCH 40 PVC Pressure-Rated Pipe
Total Linear Feet of Laterals:	1,000 LF, Install 10 Lines at 100 LF Ea. At 9' Centers Minimum on Contour
Pressure Manifold:	4" SCH 80 PVC W/ 10-½" Dia. SCH 80 PVC Taps
Manifold Placement:	Above Field
Flow Rate thru System:	54.80 G/M

SYSTEM HEAD

Elevation Head:	11.00 Ft.
Operation Head:	2.00 Ft.
Friction Head:	15.73 Ft. *(Includes 20% for minor losses)*
Total Dynamic Head (TDH):	28.73 Ft.
Control Panel:	Orenco Simplex Demand Dose Panel or Approved Equal

DOSING REQUIREMENTS

Dosing Volume:	445.00 Gallons
Number of Doses:	2 Daily
Depth of Water Pumped Per Dose:	9.52 Inches
Pump Run Time per Dose:	8.12 Minutes per Dose
Check Valve:	(2) 2-Inch Diameter Swing Check
Siphon Break Hole:	(2) 5/32 Inch Diameter

or mushy areas compared to surrounding area or evidence of noticeable odor of sewage. Repairs shall be made immediately.

- The pump electrical panel and wiring should be checked to insure tight, clean connections with no corrosion and proper operation.
- Pump switches shall be checked for free operation and proper level set.
- Check grease tanks, septic tank and pump tank for evidence of damage or leakage. Check the quality of effluent including grease and sludge accumulation.
- Pump ON/OFF and Emergency HIGH Level Switches

The pump switches are used to control the operation of the pump. This system is designed such that the pump is on for designated intervals set forth in the design specifications. The pump operation is a demand dosing setup. When there is enough liquid in the tanks, the pump will operate for a designated interval. In periods of higher than normal flows, the pump may operate more frequently.

An emergency high level switch is in the pump basin that triggers an audible and visual alarm in the event the liquid level gets too high. In this situation, the following steps should be taken:

Stop use of all water in the facility (to stop flow into the treatment system) and contact the maintenance personnel immediately.

The current system owner (**Lake Norman Humane and subsequent owners**) shall establish an operation and maintenance program and procedure based on experience obtained from similar installations.

The current system owner (**Lake Norman Humane and subsequent owners**) shall be responsible to comply with all above operating and maintenance procedures in addition to any so specified on the operation permit issued by the Iredell County Health Department or may be necessary in the future for the operation of the system to meet all public health laws, rules and regulation regarding the wastewater system.

Failure to comply with these operating and maintenance procedures will necessitate immediate legal action by the Iredell County Health Department to suspend or revoke the operation permit.

OWNERSHIP RESPONSIBILITY FOR THE SYSTEM:

It must be kept in mind that this system is designed to accept a moderate amount of wastewater at domestic waste strength (which is call the EFFLUENT), in a minimal water absorbing soil.

Conservation measures must be undertaken by all members of the operation to minimize the volume and strength of waste water entering the disposal system, including, but not limited to, the following:

(a) Provide water conserving plumbing fixtures within the facility. Installing water closets that require no more than 1.6 gallons per flush.
(b) Develop conservative water use habits.
(c) Monitor and maintain the system as necessary for proper operation. Establish a procedure to read and record water meter readings on a monthly basis. Retain records.
(d) Check and pump the septic tank sludge on a regular basis as will be specified in the operating permit or as may be required.
(e) Make rapid repairs to leaking plumbing fixtures and faucets.

PIEDMONT DESIGN ASSOCIATES, P.A.
125 East Plaza Drive, Suite 101
Mooresville, North Carolina 28115-8812
Telephone (704) 664-7888 Fax (704) 664-1778
NCBELS License No.: C-1007

Engineering
Surveying
Planning

Job No.: 2018-11-01-EH Date: 11/12/2018
Project: Lake Norman Humane Septic System Revised: 11/12/2018

Tank Anti-Floatation Calculations

Tank Dimensions & Antifloatation: 2,000 Gallon Septic Tank Dimensions

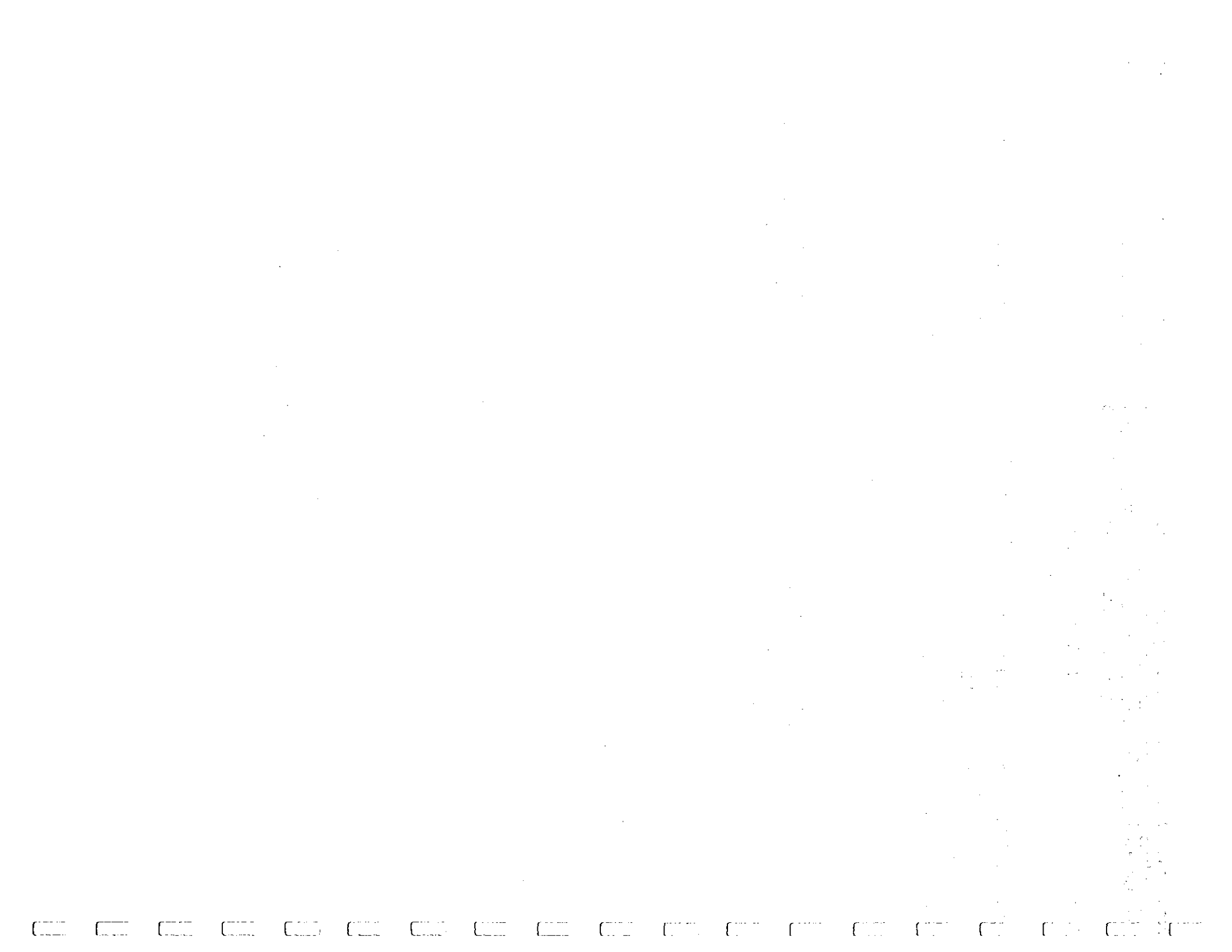
Outer Length	13.00	Ft.	STB-56	
Inner Length	12.50	Ft.		
Outer Width	6.50	Ft.		
Inner Width	6.00	Ft.		
Outer Height	5.83	Ft.		
Inner Height	5.25	Ft.		
Wt. of Water Displaced	30,758.00	Lbs.		*Outer Length x Outer Width x Outer Length x 62.4 Lb/CF (Wt of Water)*
Wt of Tank	8,450.00	Lbs.	*Top & Bottom*	*Outer Length x Outer Width x 150 Lb/CF x 2 (Top & Bottom) x Slab Thickness*
	2,362.50	Lbs.	*Ends*	*Inner Width x Inner Height x 150 Lb/CF x 2 (Ends) x Wall Thickness*
	5,687.50	Lbs.	*Sides*	*Outer Height x Outer Length x 150 Lb/CF x 2 (Sides) x Wall Thickness*
	1,157.81	Lb	*Baffle*	*Inner Width x (Inner Height-3 Inches) x 150 Lb/CF x x Wall Thickness*
	17,657.81	Lbs.	*Total Tank Wt.*	*Sum Above four*
Wt. of Overburden	12,675.00	Lbs.	@ 15" of Cover	*Outer Length x Outer Width x 120 Lb/CF (Saturated Soil Wt) x Soil Thickness*
Total	30,332.81	Lbs.		*Sum of Total Tank Wt. & Soil Overburden*

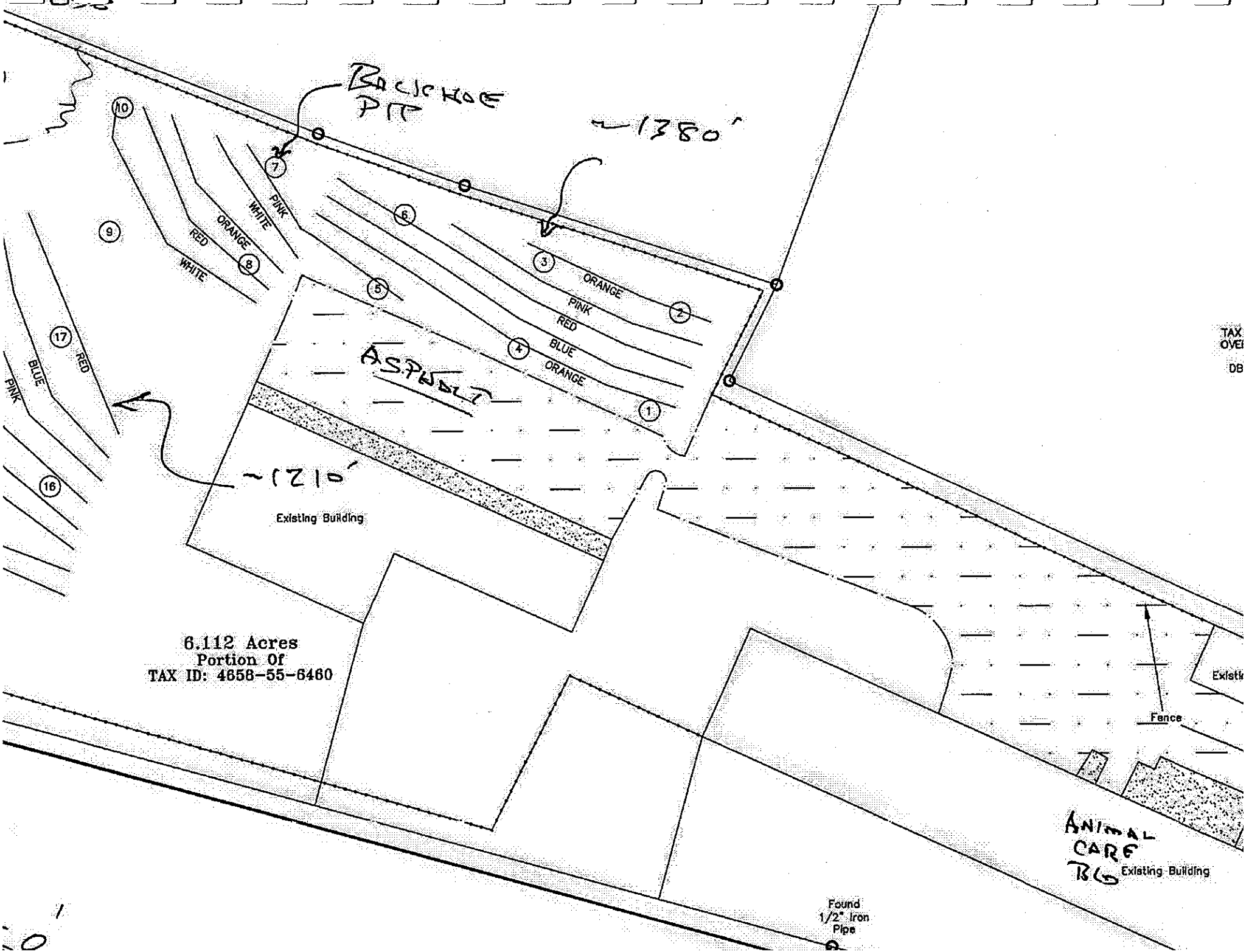
Water	**30,758.00**	<	**30,332.81**	Tank

Tank Dimensions & Antifloatation: 2,000 Gallon Pump Tank Dimensions

Outer Length	13.00	Ft.	PT-495	
Inner Length	12.50	Ft.		
Outer Width	6.50	Ft.		
Inner Width	6.00	Ft.		
Outer Height	5.83	Ft.		
Inner Height	5.25	Ft.		
Wt. of Water Displaced	30,758.00	Lbs.		*Outer Length x Outer Width x Outer Length x 62.4 Lb/CF (Wt of Water)*
Wt of Tank	8,450.00	Lbs.	*Top & Bottom*	*Outer Length x Outer Width x 150 Lb/CF x 2 (Top & Bottom) x Slab Thickness*
	2,362.50	Lbs.	*Ends*	*Inner Width x Inner Height x 150 Lb/CF x 2 (Ends) x Wall Thickness*
	5,687.50	Lbs.	*Sides*	*Outer Height x Outer Length x 150 Lb/CF x 2 (Sides) x Wall Thickness*
	16,500.00	Lbs.	*Total Tank Wt.*	*Sum Above three*
Wt. of Overburden	15,210.00	Lbs.	@ 18" of Cover	*Outer Length x Outer Width x 120 Lb/CF (Saturated Soil Wt) x Soil Thickness*
Total	**31,710.00**	Lbs.		*Sum of Total Tank Wt. & Soil Overburden*

Water	**30,758.00**	<	**31,710.00**	Tank




BACKHOE PIT
~1380'
~1210'
ASPHALT
Existing Building
6.112 Acres
Portion Of
TAX ID: 4658-55-6460
Fence
ANIMAL CARE
Existing Building
Found 1/2" Iron Pipe
WHITE
PINK
ORANGE
RED
WHITE
ORANGE
PINK
RED
BLUE
ORANGE
PINK
BLUE
RED

Penninger Soil Consulting, PLLC
SITE/SOIL EVALUATION

1. LAICE NORTH ADDITION LNH

Project No. LNH **Phone No.** **Date:** 10-4-18
Location Hwy 21 **Pin** **County:** Iredell **Property Size**

Proposed Facility: Animal Barn **Water Supply:** On-Site Well ☒ Community ☐ Public ☐ **Evalulation:** Auger Boring ☐ Pit ☒ Cut ☐

Weather: Hot **Antecedent Moisture** Dry **Surface Water:** N/A

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4
Landscape Position %	L 4/0	L	L	L
Horizon Depth I	0-4	0-6	0-5	0-5
Color Munsell				
Texture	gravel	S		
Structure			S	S
Consistence				
Boundary				
Horizon Depth II	4-20	6-15	5-15	5-13
Color – Munsell	red			
Texture	C			
Mottles	Compacted	S	S	S
Structure	ABlc			sl/fly comp
Consistence	F: slp			
Boundary	Bt/Bc		BC	
Horizon Depth III	20-32	15-20	15-40	13-34
Color – Munsell	red	red	red C/d	red C/d
Texture	c/d	C	C SDP/Ns	c
Mottles	c sm/mia	C SDP/mia	w sBlc	c SDP/m
Structure	W<Blc	m SBlc	fm GrSc	W<Blc
Consistence	Fm ss/sp	Fm slp		Fm ss/sp
Boundary		BC		
Horizon Depth IV	32-58	20-48	40-63	34-66
Color – Munsell	mc	mc	mc	mc
Texture	sl-scl SDP	cl	sl SDP	sl SDP
Mottles	fd/lia	c sm	fid soil	c fa Dist
Structure	mdc	W SBlc	mdc	mdc
Consistence	Fm ss/sp	Fm ss/sp	Fm ss/sp	Fm ss/sp
	C Sandy	48-60	C Sandy	
Boundary		mc		
Soil Wetness		sl-D SDP		
Restrictive Horizon				
Saprolite	32"	mdcs	42"	34"
LTAR	1.5	Fm ss/sp		
Classification	PS	sl		
		SDP	PS 3	PS 3
		~55"		
		W WH		
		PS 3		

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Conclave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	agular blocky
pl	platy
pr	prismatic

Penninger Soil Consulting, PLLC
SITE/SOIL EVALUATION

214

Project No. LW4 **Phone No.** _____ **Date:** 12-4-18
Location _____ **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: _____ **Water Supply:** **On-Site Well** ☐ **Community** ☐ **Public** ☐ **Evalulation:** **Auger Boring** ☐ **Pit** ☒ **Cut** ☐

Weather: _____ **Antecedent Moisture** _____ **Surface Water:** _____

FACTORS	PROFILE 5	PROFILE 6	PROFILE 7	PROFILE 8
Landscape Position %	L < 10			
Horizon Depth I	0 - 9	0 - 10	0 - 15	0 - 24
Color Munsell				
Texture				
Structure				
Consistence				
Boundary				
Horizon Depth II	9 - 30	10 - 20	15 - 24	24 - 72
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Horizon Depth III	30 - 72	20 - 66	24 - 54	
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Horizon Depth IV				
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite	30"	20"		24"
LTAR				
Classification				

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Conclave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	agular blocky
pl	platy
pr	prismatic

Penninger Soil Consulting, PLLC
SITE/SOIL EVALUATION

3/4

Project No. LNN **Phone No.** _____ **Date:** 6-4-18
Location _____ **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: _____ **Water Supply:** On-Site Well ☐ Community ☐ Public ☐ **Evalulation:** Auger Boring ☐ Pit ☒ Cut ☐

Weather: _____ **Antecedent Moisture** _____ **Surface Water:** _____

FACTORS	PROFILE 9	PROFILE 10	PROFILE 11	PROFILE 12
Landscape Position %	C <10			
Horizon Depth I	0-4	0-8	0-5	0-6
Color Munsell	5cm	mix gray	mod	sand
Texture		cl	comp	
Structure			c	
Consistence		24" sand		
Boundary				
Horizon Depth II	4-10	8-32	5-28	6-24
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Horizon Depth III	10-41	32+60 Br	28-46	24-50
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Horizon Depth IV	41-64		46-60	
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite	41		46	
LTAR				
Classification	P3	P3	P3	

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Conclave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
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S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sub	subangular blocky
ab	agular blocky
pl	platy
pr	prismatic

Penninger Soil Consulting, PLLC
SITE/SOIL EVALUATION

474

Project No. LN2 **Phone No.** _____ **Date:** 10-4-18
Location _____ **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: _____ **Water Supply:** On-Site Well ☐ Community ☐ Public ☐ **Evalulation:** Auger Boring ☒ Pit ☐ Cut ☐

Weather: Rain **Antecedent Moisture** _____ **Surface Water:** _____

FACTORS	PROFILE 14	PROFILE 15	PROFILE 16	PROFILE 17
Landscape Position %	LC/S			
Horizon Depth I	10		0-5	0-10
Color Munsell	2.5Y 3/2		2.5Y 3/2	2.5Y 3/2
Texture	comp			comp
Structure	A+rd			
Consistence	C			C
Boundary				
Horizon Depth II	12-27		5-16	
Color – Munsell	4/1			
Texture			C	
Mottles			F SB	
Structure	ABSK		SBK	
Consistence	FI SH		FI SH	
Boundary				
Horizon Depth III	27-40	0-29	16-34	10-30
Color – Munsell	10YR 4/1			
Texture	CL	CL-SCL		
Mottles	F DIS		5	5
Structure	MSBK			
Consistence	FI FI			
Boundary				
Horizon Depth IV	40-72	29-65	34-60	38-72
Color – Munsell	10YR 5/6			
Texture	SCR			
Mottles		5	5	5
Structure	MASS			
Consistence	FI SS PS			
	Cmt			
Boundary	Sedge			
Soil Wetness				
Restrictive Horizon				
Saprolite	40"	29"	34"	38"
LTAR	3	4	4	4
Classification	PS	PS	PS	PS

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Conclave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

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fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	agular blocky
pl	platy
pr	prismatic

2. Statesville Analytical Wastewater Sampling Results and Trish Angoli Email

Analytical Results

STATESVILLE ANALYTICAL

Penninger Soil Company

595 JM Penninger Road
Lexington, NC 27292

Receive Date: 10/01/2018
Reported: 10/11/2018
For:
Comments:

Sample Number	Parameter	Sample ID	Result	Unit	Method	Analyzed	Analyst
181001-10-01	BOD	Inlet End	274	mg/L	SM5210B-2011	10/03/2018	MD
181001-10-01	Fecal Coliforms	Inlet End	>2419.6	MPN/100 ml	IDEXX Colilert 18 MPN	10/01/2018	wc
181001-10-01	Nitrate/Nitrite	Inlet End	0.592	mg/L	SM4500F-2011	10/11/2018	CL
181001-10-01	TKN	Inlet End	94.75	mg/L	SM4500NorgB-2011	10/05/2018	CL
181001-10-01	Total Nitrogen	Inlet End	95.3	mg/L	CALC	10/11/2018	CL
181001-10-01	TSS	Inlet End	28	mg/L	SM2540D-2011	10/05/2018	WC
181001-10-02	BOD	Outlet End	261	mg/L	SM5210B-2011	10/03/2018	MD
181001-10-02	Fecal Coliforms	Outlet End	>2419.6	MPN/100 ml	IDEXX Colilert 18 MPN	10/01/2018	wc
181001-10-02	Nitrate/Nitrite	Outlet End	<0.1	mg/L	SM4500F-2011	10/11/2018	CL
181001-10-02	TKN	Outlet End	95.31	mg/L	SM4500NorgB-2011	10/05/2018	CL
181001-10-02	Total Nitrogen	Outlet End	95.3	mg/L	CALC	10/11/2018	CL
181001-10-02	TSS	Outlet End	73.333	mg/L	SM2540D-2011	10/05/2018	WC

Respectfully submitted,

Dena Myers
NC Cert #440,
NCDW Cert #37755,
EPA #NC00909

Condition of Receipt

Sample Number 181001-10-01 Temp on Arrival: 2.3

	Parameter Schedule:	**TSS**
		Received on Ice
	Parameter Schedule:	**BOD**
		Received on Ice
	Parameter Schedule:	**Fecal Coliforms**
	Sodium Thiosulfate	Received on Ice
		Chemicals in containers, lab
pH on Arrival: <2	Parameter Schedule:	**TKN**
	Sulfuric Acid	Received on Ice
		Chemicals in containers, lab
pH on Arrival: <2	Parameter Schedule:	**Nitrate/Nitrite**
	Sulfuric Acid	Received on Ice
		Chemicals in containers, lab

Sample Number 181001-10-02 Temp on Arrival: 2.3

	Parameter Schedule:	**BOD**
		Received on Ice
	Parameter Schedule:	**TSS**
		Received on Ice
	Parameter Schedule:	**Fecal Coliforms**
	Sodium Thiosulfate	Received on Ice
		Chemicals in containers, lab
pH on Arrival: <2	Parameter Schedule:	**Nitrate/Nitrite**
	Sulfuric Acid	Received on Ice
		Chemicals in containers, lab
pH on Arrival: <2	Parameter Schedule:	**TKN**
	Sulfuric Acid	Received on Ice
		Chemicals in containers, lab

PO Box 228 • Statesville, NC 28687 • 704/872/4697

STATESVILLE ANALYTICAL
122 Court Street • P.O. Box 228
Statesville, NC 28687
(704) 872-4697

Chain of Custody Record

Client: Pennington Seed Company

Address:

Contact Person: Phone #: FAX#:

PO #: Requisitioned by: (Time) (Date)

Customer Sample ID#	Lab-ID #	Time Sampled (Grab Only)	Date Sampled (Grab Only)	Grab	Comp	Matrix: Sludge	Matrix: W	Matrix: WW	Parameters requested for analysis
Influent	181001-1002	12:50PM	10-1-18	X					1:200
End				X					TSS
				X					FC
				X					NO3/NO2
				X					TKN
				X					TN

Relinquished by: _____ Time 3:00 am, pm Date 10/1/18

Received by: Mallory C. Cook Time ____ am, pm Date 10/1/18

Relinquished by: _____ Time ____ am, pm Date __/__/__

Received by: _____ Time ____ am, pm Date __/__/__

Composite Sampling #1: _____

Time begin____ am, pm Date __/__/__

Time end____ am, pm Date __/__/__

Composite Sampling #2: _____

Time begin____ am, pm Date __/__/__

Time end____ am, pm Date __/__/__

Sampled by: _____

Transported by: _____

Holding times met: ✓

Compliance work: ✓

Non-compliance work: _____

Lab Comments:

Samples Transported On Ice:

Initials:

Client: Penninger Soil Company

Address: 595 Tom Penninger Rd
Lexington NC 27292

Contact Person: Paul Penninger Phone #704 996 4330 FAX#

PO # Requisitioned by: (Time) (Date)

STATESVILLE ANALYTICAL
122 Court Street • P.O. Box 228
Statesville, NC 28687
(704) 872-4697

Chain of Custody Record

Customer Sample ID #	Lab-ID #	Time Sampled (Grab Only)	Date Sampled (Grab Only)	GW	DW	Matrix: Biosolid	Matrix: W	Matrix: WW	Parameters requested for analysis
Inlet	181001-10-01	12:45 PM	10-1-18	X					BOD
Final				X					TSS
				X					TC
				X					FMB, MCG
				X					TKN
				X					TP

Relinquished by: _____ Time 3:00 am, pm Date 10/1/18

Received by: _____ Time _____ am, pm Date 10/1/18

Relinquished by: _____ Time _____ am, pm Date __/__/__

Received by: _____ Time _____ am, pm Date __/__/__

Sampled by: _____

Transported by: _____

Holding times met: ✓

Compliance work: ✓

Non-compliance work: _____

Composite Sampling #1: _____

Time begin _____ am, pm Date __/__/__

Time end _____ am, pm Date __/__/__

Composite Sampling #2: _____

Time begin _____ am, pm Date __/__/__

Time end _____ am, pm Date __/__/__

Lab Comments:

email to: pgpenninger@gmail.com

PO Box 228 • Statesville, NC 28687 • 704/872/4697

ON-SITE WASTEWATER SECTION

PROPERTY ID #: 4658-55-3
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Lake Norman Humane
ADDRESS: P.O. Box 3937 Mooresville, NC
APPLICATION DATE 10-24-18
PROPOSED FACILITY: 18 Employees
PROPOSED DESIGN FLOW (.1949):
DATE EVALUATED: 11-8-18
LOCATION OF SITE: 2106 Charlotte Highway Mooresville
PROPERTY SIZE: 6.11 acres
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☒ Other DENR purview (see email)
PROPERTY RECORDED: Yes
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

↑ per Trish Email

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
2	LSS 5%	0-5	Gravel Fill	Firm SS, Sp, Ssp					
		5-22	Clay W-M SBK/ABK	Firm, Sticky, Sp	Ssp				
		22-34	Clay Loam W. SBK common SAP	Friable, SS, Sp	Ssp	34"			0.3 PS
		34-63	MA Loamy Saprolite	V. Friable + well Drained					
3	LSS 4%	0-7	SCL/Fill	SL Firm, SS, Sp, Ssp	Remove 0-4"				
		7-18	Clay W/M. SBK	Firm, Sticky, Sp	Ssp				
		18-34	Clay Loam W. SBK common SAP	Friable, SS, Sp, Ssp		34			0.325 PS
		34-75	MA Loamy Saprolite	Very Friable, well Drained					
5	LSS 2%	0-3	SCL/Fill	Gravel	Remove 3"				
		3-13	Clay W/M SBK	SL Firm, Sticky, Sp, Ssp					
		13-30	Clay Loam W. SBK common SAP	Friable, SS, Sp, Ssp		30"			0.4 PS
		30-48	MA Loamy Saprolite	well Drained/ Friable					
		48-72	MA Sandy Saprolite	Very well Drained Very Friable					
17	LSS 3%	0-3	Compact Fill	Gravel					
		3-25	Clay Loam W. SBK common SAP	Friable, SS, Sp, Ssp		25"			0.425
		25-38	MA Loamy Saprolite	well drained/ Friable					
		38-68	MA Sandy Saprolite	very well Drained/ Friable					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1000+	1000+
System Type(s)	Conv.	Conv
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Tom Shuck
OTHER(S) PRESENT: Paul Pennegar UW

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05		
		O (Organic)	None	None		

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
EFI (Extremely Firm)	NP (Non-plastic)
	SP (Slightly Plastic)
	P (Plastic)
	VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

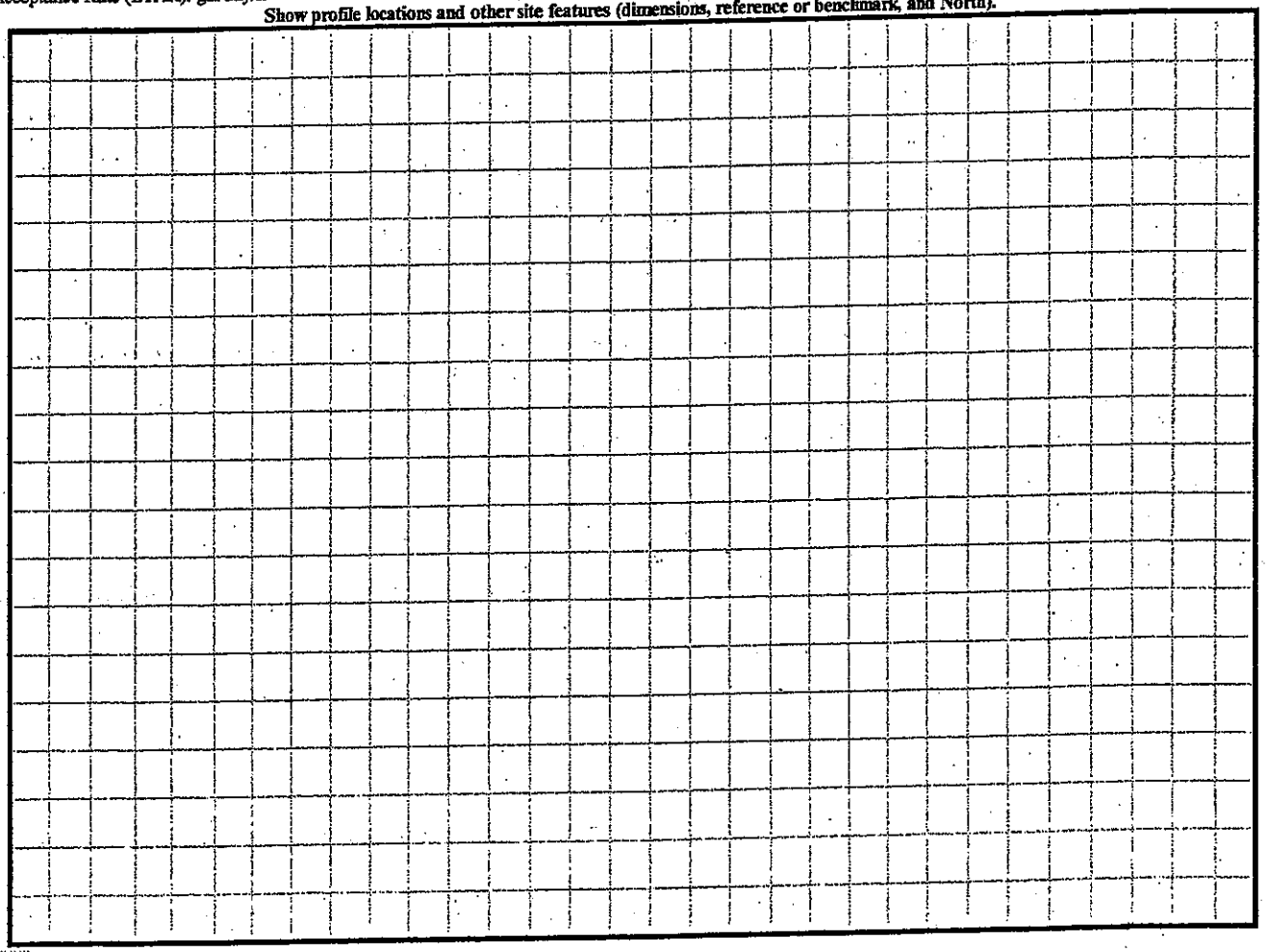
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (######)

Review (#####)

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

PROPERTY ID #: _____
COUNTY: _____

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

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: _____ PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
15	LSS	0-23	Clay Loam W.SBK	Friable, SS, SP, SHP					
		23-44	MA Loamy Saprolite	Friable + well drained		23"			0.425
	3%	44-67	MA Sandy Saprolite	very Friable + very well drained					PS
	Repair								
2									
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

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

COMMENTS: _____

Call Paul Pennington for Pat Review 238793

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM 704-996-6330

Application For:

(X) Septic Improvement Permit (X) Authorization to Construct ( ) New Well Permit ( ) Existing System Inspection ( ) Well Repair Permit ( ) Well Abandonment ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED. APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

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

Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: LAKE NORMAN HUMANE INC **Address:** PO Box 3937 Mooresville, NC **Zip:** 28117

Applicant Email: Jtucker@anchorre.com **Phone:** 704.634.8323 **Alt. Phone:** _____

Owner Name: Same as above **Address:** _____ **Zip:** _____

Owner Email: _____ **Phone:** _____ **Alt. Phone:** _____

Property Information:

Street Address: 2106 Charlotte Highway

Subdivision Name: Iredell County Parcel No. 4658555234.000 **Section/Phase:** _____ **Lot Number:** _____

Driving Directions: Highway 150, north on Charlotte Highway, Site on left at 2106 Charlotte Highway

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

( ) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____

Maximum Number of Bedrooms: _____
Maximum Number of Occupants: _____
( ) Swimming Pool
( ) Other Addition/Structure: _____

CHECK FOUNDATION TYPE

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

Non-Residential Site Development: Type of Business: LAKE NORMAN HUMANE - ANIMAL

Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____ SHELTER

PLAN WILL PROVIDE ENG DESIGN > 600 GPD?

Water Supply: ( ) Replacement Well – Reason: _____

( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____

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

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: _____

( ) No Preference ( ) Alternative (X) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:

( ) Yes (X) No Does the site contain any jurisdictional wetlands?

( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated? NEDHSE TO HEALTH WW.

( ) Yes (X) No Is the site subject to approval by any other public agency?

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

Signature: _____ 10-24-18

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

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

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

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

2. I, Lake Norman Humane, Inc., am the legal owner(s) of the property located at 2106 Charlotte Highway, identified as

PIN (Parcel Identification Number) 4658555234.000, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Piedmont Design Assoicates, PA, Penninger Soil Consulting, PLLC, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

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

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

Josh Turpin — Signature of Owner(s)

10/23/18 — Date

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

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

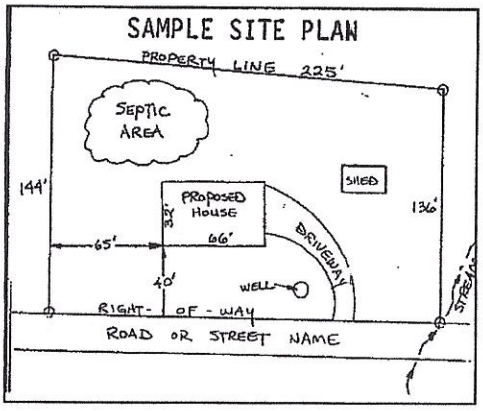
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

SITE PLAN WORKSHEET

SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM OR WELL PERMIT!!!*

Place an (X) beside each item as you complete the site plan:

- (X) Property Line measurements are clearly identified
- ( ) All proposed structures are indicated EX.
- ( ) Front and side setbacks from property line
- ( ) Preferred driveway location EX.
- ( ) Preferred well location EX.
- (X) Preferred septic system location
- (X) North arrow, or other sufficient indicator of direction



Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property N/A
Location of easements and rights of ways on your property N/A
Location of any designated wetlands on the property N/A

USE THIS SPACE TO DRAW YOUR SITE PLAN

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

See attached site plan.

Signature: _____ Agent 10-24-18

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

Number	Room	Wall Finish 1	Wall Finish 2	Base Finish 1	Base Finish 2	Rubber Base
100	FOYER					
101	LOBBY	PT-1	PT-2	LVT-1	LVT-2	RB-1
102	ENTRY RM	PT-1	PT-2	LVT-1	LVT-2	RB-1
103	WAITING	PT-1	PT-2	LVT-1	LVT-2	RB-1
104	HALL	PT-1	PT-2	LVT-1		RB-1
105	WOMEN'S	PT-1	PT-2	LVT-1		RB-1
106	ADOPTIONS	PT-1		LVT-1	LVT-2	RB-1
107	MEN'S	PT-1		LVT-1		RB-1
108	JANITOR	PT-1		LVT-1		RB-1
109	KENNELS	PT-1	PT-2	LVT-1		RB-1
110	HALL	PT-1	PT-2	LVT-1		RB-1
111	KENNELS	PT-1	PT-2	LVT-1		RB-1
112	FLOYER	PT-1	PT-2	LVT-1		RB-1
113	VET	PT-1	PT-2	LVT-1		RB-1
114	PT	PT-1	PT-2	LVT-1		RB-1
115	FOOD STORAGE	PT-1		LVT-1		RB-1
116	QUIET ROOM	PT-1		LVT-1		RB-1
117	KENNELS	PT-1		LVT-1		RB-1
118	BOARDING	PT-1	PT-2	CPT-1		RB-1
119	CONFERENCE RM	PT-1		LVT-1		RB-1
120	CONFERENCE RM	PT-1		LVT-1		RB-1
121	CONFERENCE	PT-1		LVT-1		RB-1
122	KENNELS	PT-1		LVT-1		RB-1
123	BREEDING	PT-1		LVT-1		RB-1
124	BREEDING	PT-1		LVT-1		RB-1
125	KENNELS	PT-1	PT-2	LVT-1		RB-1
126	BLEAVE LOBBY	PT-1	BLEAVE	LVT-1		RB-1
127	HALL	PT-1		LVT-1		RB-1
128	HALL	PT-1		LVT-1		RB-1
129	HALL	PT-1		LVT-1		RB-1
130	HALL	PT-1		LVT-1		RB-1
131	HALL	PT-1		LVT-1		RB-1
132	OFFICE 1	PT-1		LVT-1		RB-1
133	OFFICE 2	PT-1		LVT-1		RB-1
134	ADOPTIONS	PT-1		LVT-1		RB-1
135	ADOPTIONS	PT-1		LVT-1		RB-1
136	LAUNDRY	PT-1		LVT-1		RB-1
137	MEN'S RM	PT-1		LVT-1		RB-1
138	MEN'S	PT-1	PT-2	LVT-1		RB-1
139	CAT	PT-1	PT-2	LVT-1		RB-1
140	CAT	PT-1	PT-2	LVT-1		RB-1
141	RECEPTION	PT-1	PT-2	LVT-1		RB-1
142	CAT FLAT	PT-1	PT-2	LVT-1		RB-1

FINISH SYMBOLS LEGEND & ABBREVIATIONS

WALL FINISHES: FLOOR FINISH(ES) BASE FINISH

ACT	ACOUSTICAL CEILING TILE
ACT	ABOVE CEILING FLOOR
APP	ACOUSTICAL WALL PANEL
CG	CORNER GUARD
CPT	CARPET
CT	CERAMIC TILE
CT	CERAMIC/PORCELAIN TILE
EW	EXISTING WALL
EPT	EPOXY PAINT
ETR	EXISTING TO REMAIN
EW	EXPOSED
GWB	GYPSUM WALL BOARD
HPL	HIGH PRESSURE LAMINATE
PT	PAINT
RB	RUBBER BASE
RT	RESILIENT TILE
SC	SEALED CONCRETE
SLG	SEALED CONCRETE FLOORING
SPC	SOLID SURFACING
SW	SLIDE SWINGING
TG	TEMPERED GLASS
VCT	VINYL COMPOSITION TILE
WC	WALL COVERING
WD	WOOD PLAN
WP	WALL PAPER/CLOTH
WT	WINDOW TREATMENT

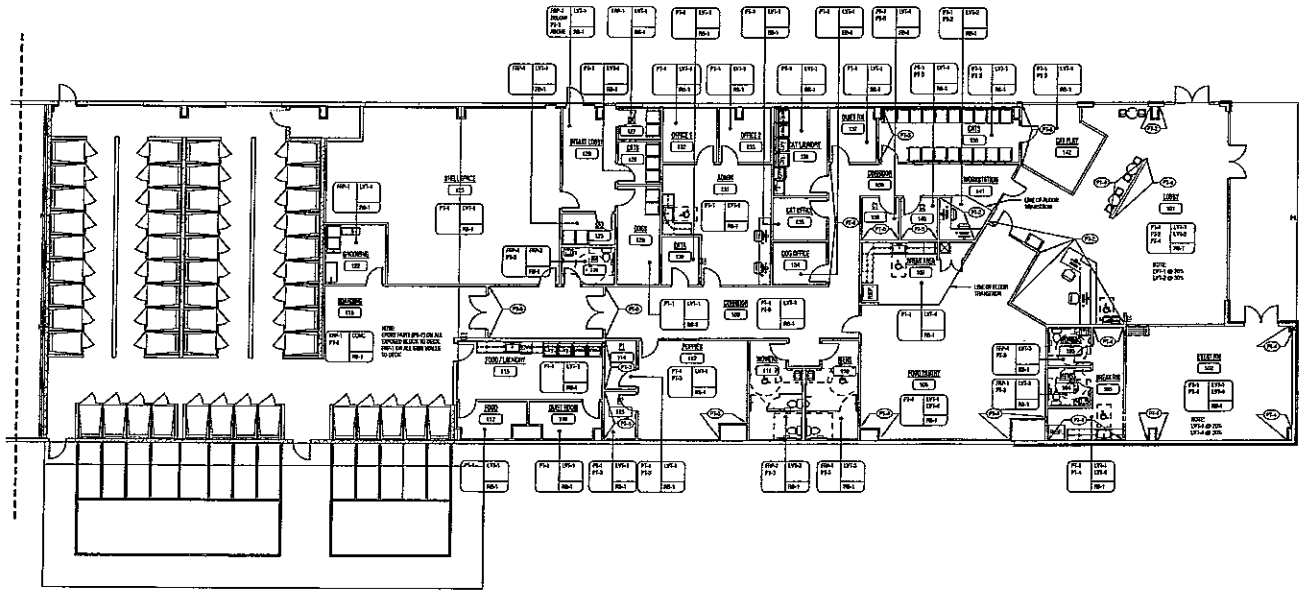
ACCENT WALL FINISH DESIGNATION

EXTENT OF WALL FINISH COLOR

FINISH CODE		MANUFACTURER	STYLE/PATTERN	COLOR	SIZE	ADDITIONAL REQUIREMENTS	REMARKS
ACOUSTICAL CEILING TILE							
ACT	1	ARMSTRONG	CUSTOM ANGLES MEDIUM TEXTURE	TEGULAR	24 x 24		-
ACT	2	ARMSTRONG	WALL CEILINGS	WHITE	24 x 24	-	-
CONCRETE FINISH							
CONC	1	POLISHED CONCRETE	-	-	-	-	-
EPOXY FLOORS							
EPX	1	SHERWIN WILLIAMS	CLEAR MIC FINISH	CLEAR SHEEN	-	-	-
EPX	2	ESKA	DOUBLE BROADCAST EPOX	BISCUIT BLEND	-	-	-
EXPOSED WALL							
CMU	1	BASIC IND.	SCREEN MASONRY	CHARCOAL	WAVES	-	-
FINISH ACCENT WALL PANELS							
PNP	1	MAPLITE	DIAMOND TRIP PANEL	3" HEX-AGE WHITE	SUMMIT TILE	NO GRID (TYPICAL) TO MATCH IN BATHROOMS	-
PNP	2	-	-	-	-	-	-
LAMINATE							
LAM	1	WILSONART	4965-38	SEDAR BANISTER	-	-	ALL COUNTERTOPS
LAM	2	WILSONART	WOOD 60 MATTE FINISH	SEA BOARD	-	-	ALL CABINETS
LINOLEUM TILE							
LVT	1	ARCHITECT	DRAWN LINES	SILVER ARROW	20cm X 1m	TARPERMENT	INSTALL WITH LINOLEUM GLUE (TYP.)
LVT	2	ARCHITECT	DRAWN LINES	ANCIENT ARROW	20cm X 1m	30% ARROW PATTERN	INSTALL WITH LINOLEUM GLUE (TYP.)
LVT	3	ARCHITECT	DRAWN LINES	ACCESSIBLE ARROW	20cm X 1m	TYPICAL IN BATHROOMS	INSTALL WITH LINOLEUM GLUE (TYP.)
LVT	4	ARCHITECT	DRAWN LINES	CURRENT ARROW	20cm X 1m	30% CONTRADICTION TO DRAWN ARROWS DIRECTION	INSTALL WITH LINOLEUM GLUE (TYP.)

FINISH CODE		MANUFACTURER	STYLE/PATTERN	COLOR	SIZE	ADDITIONAL REQUIREMENTS	REMARKS
PAINT							
PT	1	SHERWIN WILLIAMS	SW 6119	ANTIQUE WHITE	-	EGGSHELL; EPOXY PAINT IN BOARDING	-
PT	2	SHERWIN WILLIAMS	SW 6243	TAN	-	EGGSHELL	
PT	3	SHERWIN WILLIAMS	SW 6258	TRICORN BLACK	-	EGGSHELL	
PT	4	SHERWIN WILLIAMS	SW 6204	NAVARRO	-	EGGSHELL	
PT	5	SHERWIN WILLIAMS	SW 6249	CANYON	-	EGGSHELL	
PT	6	SHERWIN WILLIAMS	SW 6239	FADELESS GREEN	-	EGGSHELL	
PT	7	SHERWIN WILLIAMS	SW 7008	ALABASTER WHITE	-	EGGSHELL	
RESILIENT BASE							
RB	1	ROPPE	PINNACLE WALL BASE	123 CHARCOAL	4"	-	-
RUBBER STAIR TREADS							
RUB	1	NAVY STAIR	STAIR COTTON	NAVY	-	-	Contractor to confirm
SHEET PLASTIC							
WP	1	WILSONART	COMPACT LAMINATE PLUS	LAPIS	1/16" THICK	8'0" H.A.F.F.	-

NOTES:
1. ALL INTERIOR FINISHES TO COMPLY WITH ANSI AND ADAM
2. ALL FLOORING TRANSITIONS TO OCCUPY CENTERLINE OF DOOR



1 FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

LaBella
Powered by partnership.
455 South Main Street, Suite 220
Davidson, NC 28036
704-439-2931
labellapc.com

NOT FOR CONSTRUCTION

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LAKE NORMAN HUMANE
Pens in helping Paws

LAKE NORMAN HUMANE SOCIETY
2106 CHARLOTTE HWY,
MOORESVILLE, NC 28117

NO	DATE	DESCRIPTION
REVISIONS		

PROJECT NUMBER: 0182152
DRAWN BY: RH
REVIEWED BY: REL
ISSUED FOR: PRICING
DATE: 8.31.2018
DRAWING NAME:

FIRST FLOOR FINISH PLAN

OWNER'S SEAL

I101

IREDELL COUNTY

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

APPLICATION NUMBER
238943
Issue Date: 10/01/2018

ZONING PERMIT
Commercial

Parcel Number	Street Address	Jurisdiction
4658555234.000	2106 CHARLOTTE HIGHWAY, MOORESVILLE, NC 28115	

Owner Information		Applicant Information	
Owner:	LAKE NORMAN HUMANE INC	Applicant:	PS WEST CONSTRUCTION C
Address:	143 MOORESVILLE COMMON WAY # F	Address:	PO BOX 751
	MOORESVILLE, NC 28117		STATESVILLE, NC 28687
Phone:	704-897-7676	Phone:	704-873-4325

Use Requested	Zone Code
CHANGE OF USE FROM ELECTRIC CO TO LN HUMANE SOCIETY	GBCU

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
					PACL	X

Remarks:

ALL LANDSCAPING AND PARKING MUST BE INSTALLED PRIOR TO A ZONING FINAL AND CO

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

Applicant: Kristina D Wyatt Date: _____

Permit Number	154212	TOTAL FEES:	$ 177.25