ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 320336

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

PIN # 4728 --90 --2177.

APPLICANT/OWNER: WJH LLC APPLICANT ADDRESS: 9325 Center Lake Drive Ste 160 Charlotte NC 28216.

SITE ADDRESS: 220 Grassy Meadow Lane Statesville, NC 28625 PHONE: 704-488-1100 ALT. PHONE -

SITE DIRECTIONS: NC-115 N to Brantwood SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Ridgecrest SECTION: - LOT # 55 LOT AREA: .908 ac DESIGN FLOW: 480 L.T.A.R.: .30

Septic Tank	1000	(gal)	STB	Infiltrator	Date		☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	
Pump Tank	1000	(gal)	PT	Infiltrator	Date		System Description:	Gravity - 25% Reduction			
Pump Make	Zoeller	Model		Inf	Serial #		Repair System Description:	Horizontal - PPRP3 - 50% Reduction			
# Nitrification Fields	1	# Lines		6	Linear Ft	400	Maintenance Agreement Required:	☐ YES	☒ NO		
Trench Width	36 in.	Trench Bottom Depth(Low side)		14 in	Gravel Depth	-		☐ GRAVITY	☒ PRESSURE		

☒ Residence	No. Bedrooms	4	Water Supply
☐ Business	No. Persons	8	☐ Private
☐ Other	No. Employees		☒ Public
☐ Slab	☐ Crawl Space		☐ Community
☐ Basement w/ plumbing			☐ Basement w/o plumbing

Comments / Conditions: No Foundation Drain to be installed along side of house with Septic due to Setbacks.
ICHD Approval once received

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

Thompson Environmental Consulting Inc.

LSS # 1219

Dated Sept 15, 2021

AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

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

Owner / Applicant Signature: Date: 9-17-21 Installed by: Sid Gaskins

IMPROVEMENT PERMIT by: Date: 9-16-2021 OPERATION PERMIT by: Date: 12/14/22

AUTHORIZATION TO CONSTRUCT by: Date: 9-17-2021 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

CERTIFICATE OF SURVEY AND ACCURACY

I, CHRISTOPHER L COLE, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN (REFERENCES AS SHOWN); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN (REFERENCES AS SHOWN); THAT THE RATIO OF PRECISION AS CALCULATED EXCEEDS 1:15,000; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600):

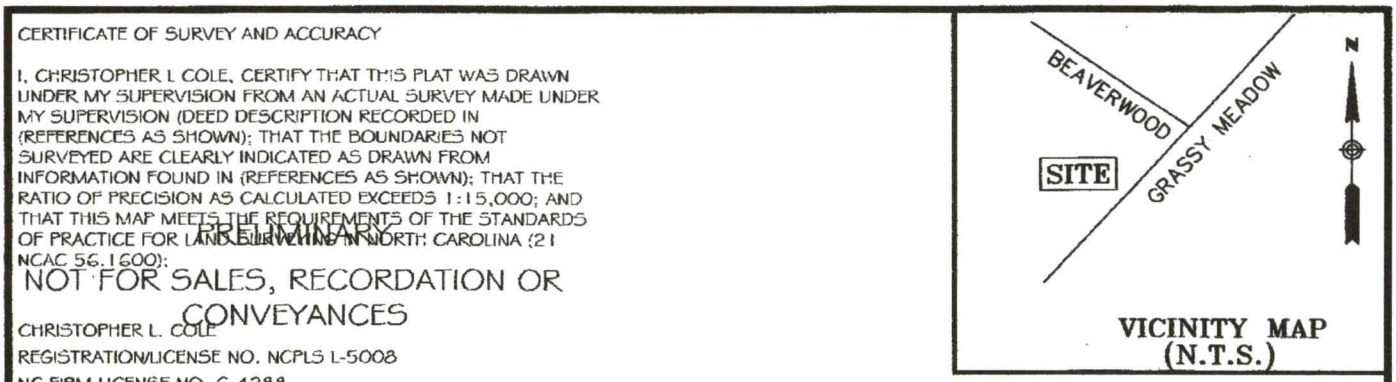
PRELIMINARY

NOT FOR SALES, RECORDATION OR CONVEYANCES

CHRISTOPHER L. COLE

REGISTRATION/LICENSE NO. NCPLS L-5008

NC FIRM LICENSE NO. C-4288



VICINITY MAP (N.T.S.)

60 0 30 60

(IN FEET)

1 inch = 60 ft.

LEGEND

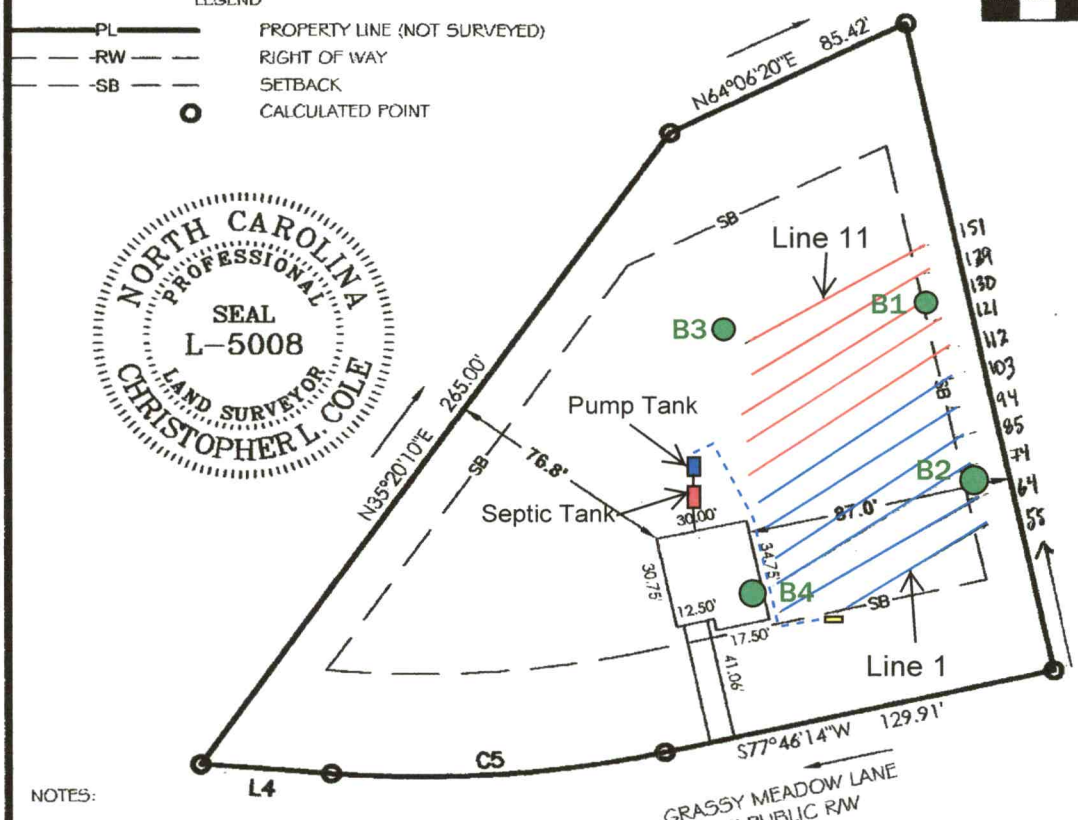
PL — PROPERTY LINE (NOT SURVEYED)

RW — RIGHT OF WAY

SB — SETBACK

CALCULATED POINT

NORTH CAROLINA PROFESSIONAL SEAL L-5008 LAND SURVEYOR CHRISTOPHER L. COLE



N

NOTES:

1) EASEMENTS AND BUFFERS DERIVED BY PLAT
2) BOUNDARY LINES DERIVED BY PLAT, NO FIELD WORK COMPLETED FOR THIS MAP.
3) ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
4) LINES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM
5) THIS SURVEY DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY AND IS INTENDED TO DEPICT THE NEW BUILDING LOCATION RELATIVE TO THE BOUNDARIES.
6) CONTRACTOR TO VERIFY ALL DIMENSIONS

Initial Drainlines
Repair Drainlines
Supply Line ~75'
Soil Borings
Energy Dissapator

Ascension Land Surveying P.C.
Professional Land Surveying & Consulting
116 Williams Road, Mocksville, NC 27028
Phone: (704) 579-7197
Email: surveyor.chris007@gmail.com
NC FIRM LICENSE NO: C-4288
NC PLS NO: L-5008

5/4/2021
PIN: 4728902177

DRAWN BY: CC
CHECKED BY: JH
SCALE: 1"=60'
JOB: 21-05-46

PLOT PLAN
LOT-55
220 GRASSY MEADOW
RIDGECREST PH 3
STATESVILLE, IREDELL CO., NC

Residential Subsurface Wastewater Treatment and Disposal System Proposal

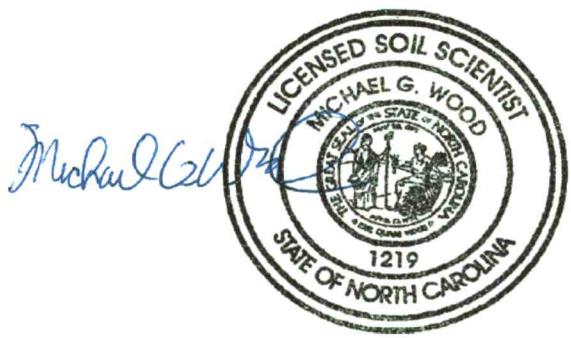
for

Lot 55 – Ridgecrest
220 Grassy Meadow Lane
Statesville, Iredell County, NC

Tax Parcel # 4728902177
September 15, 2021

Prepared for:

Glenn Bird
Century Complete
9325 Center Lake Dr., Suite 160
Charlotte, NC 28216
1-833-791-0192



Prepared by:

Michael Wood, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
larry@thompsonenv.com

Details

Century Complete has contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare Session Law 2018-114 Section 11 (c) septic proposal for the 4-bedroom single family residence on Lot 55 – Ridgecrest located at 220 Grassy Meadow Lane, Statesville, North Carolina.

Based upon a soils investigation performed by TEC, it has been determined that a sufficient amount of "Suitable" Group IV soils is available for the installation of a **Pump-To Accepted System** with a 25% reduction approval at a 0.3 GPD/ft. sq. long term acceptance rate (LTAR) for both the initial system. The repair will be a Horizontal Prefabricated Permeable Block Panel System (H-PPBPS). The property will be served by a municipal water supply

Century Complete would like to request that Iredell County Environmental Health (ICEH) issue the appropriate permits for a subsurface wastewater treatment and disposal system based upon the following proposal and the enclosed Licensed Soil Scientist Evaluation, which is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11. (c).

Location

From Statesville, take NC-115 north 7.1 miles. Turn left on Branchwood Road for 0.8 miles, then left onto Riverfield Drive, first right onto Grassy Meadow Lane. Lot 55 will be approximately 0.1 mile on the left.

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 Licensed Soil Scientist No. 1219
SC Certified Professional Soil Classifier No. 114

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 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 75 feet long and consist of a 2-inch SCH 40 PVC pipe with pressure fittings.

D. Distribution Method

1. The system will be fed by serial distribution.
2. An energy dissipator pad/splash pad will be required at the beginning of the receiving chamber.

E. 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 the shallow placed innovative wastewater system Infiltrator Quick4 Chamber System.
4. The drainfield consists of one (1) 3-foot wide and 50 feet long and five (5) 3-foot wide and 70 feet long lateral trenches.
5. The trench depth for this system shall be **14 inches maximum on the low-side trench**.
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 County

Initial & Repair Systems - Ridgecrest Lot 55

	Field Line #	Color	Initial/Repair	Field Length	System Length	Setup #1	Setup #4	Relative Elevation
✓	1	Red	Initial	55	50	7.4		100.0
✓	2	Blue	Initial	75	70	9.05		98.4
✓	3	Yellow	Initial	75	70	10.75		96.7
✓	4	Red	Initial	75	70	12.95		94.5
✓	5	Blue	Initial	75	70	14.65		92.8
✓	6	Yellow	Initial	75	70	16.5	5.9	90.9
	7	Red	Repair	75	67		7.8	89.0
	8	Blue	Repair	75	67		9.75	87.1
	9	Yellow	Repair	75	67		11.6	85.2
	10	Red	Repair	70	67		13.55	83.3
	11	Blue	Repair	65	Extra		15.6	81.2

F. Final Landscaping

1. The final soil cover over the drainfield shall be a minimum of 6 inches deep. Additional soil cover may be required to achieve the 6-inch soil depth requirement.
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.
2. Lawn irrigation should not be placed over the drainfield 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 drainfield and septic and pump tanks.

Design Specifics

Daily Design Flow:	480 GPD (4-bedroom house)
Septic Tank Size:	1,000 Gallons (minimum)
Pump Tank Size:	1,000 Gallons (minimum)
Effluent Loading Rate:	0.3 GPD per sq. ft.
Drainfield Type:	Accepted with 25% Reduction
Distribution Method:	~~Serial~~ Manifold
Pump Requirement:	41.03 GPM at 28.02 Feet TDH
Recommended Pump:	Goulds WEO7H (or equiv.)
Supply Line Length:	Approximately 75 Feet
Number of Lines:	6
Drainline Width and Length	(1) 3' wide x 50' long (5) 3' wide x 70' long
Total Trench Length:	400 Linear Feet
Maximum Trench Depth:	14 inches on low-side
Final Cover Requirement:	6 inches (minimum)

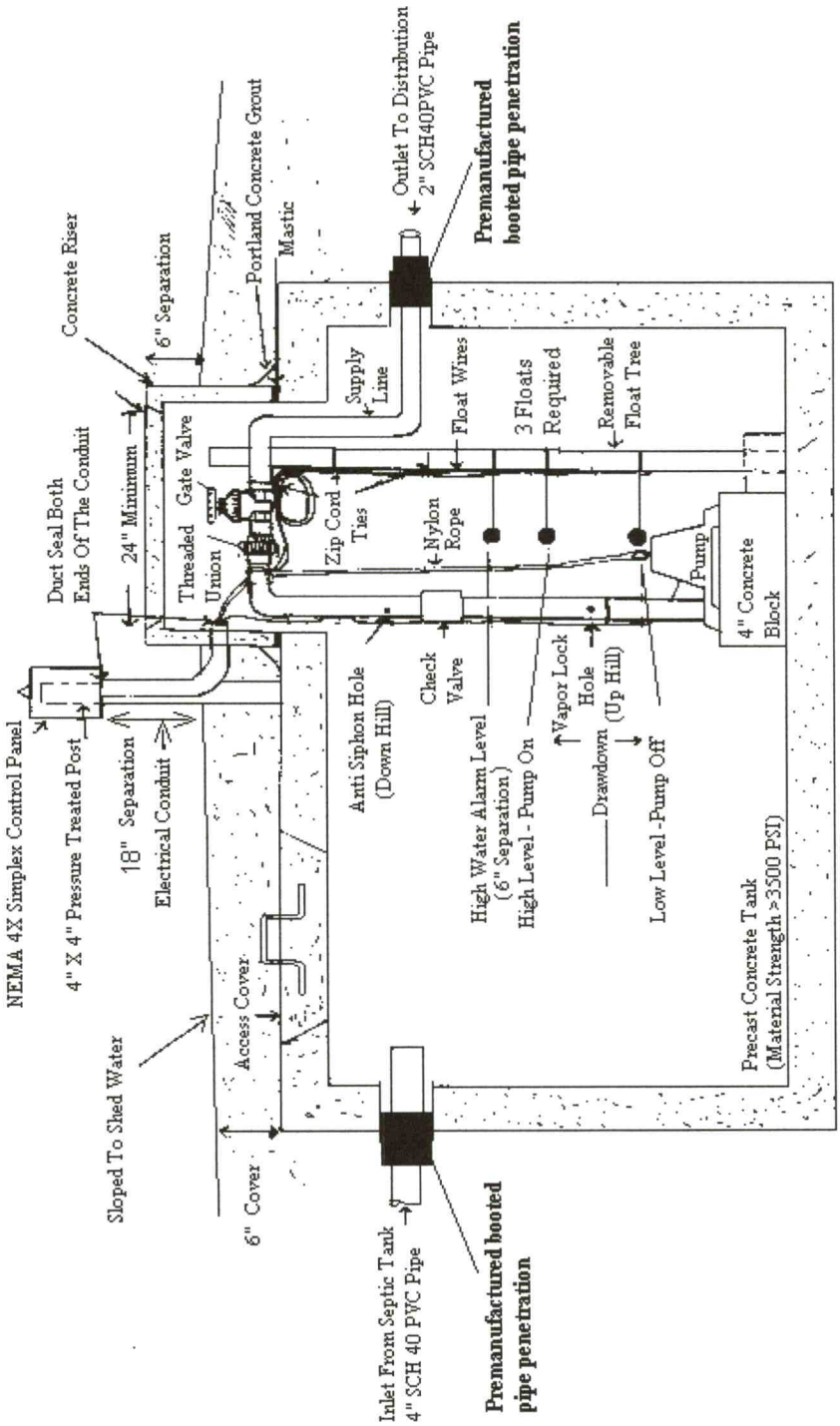
Repair Specifics

Effluent Loading Rate:	0.30 GPD per sq. ft.
Drainfield Type:	Horizontal PPBPS (50% Reduction)
Maximum Trench Depth:	24 Inches on low side
Number of Drainlines:	4
**Drain Lines:	(4) 3' Wide x 67' Long
**Drainline Spacing:	9 Foot on Centers
Total Trench Length:	~~280~~ 268 Linear Feet

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

Lot 55 Ridgecrest
220 Grassy Meadow Lane

Recommended Pump Tank Design



Name: Century Complete **P.I.N. #:** 4728902177

Address: 220 Grassy Meadow Lane **Subdiv:** Ridgecrest **Lot#:** 55

# of BDR: 4 **Daily Flow:** 480 **gal/day** **L.T.A.R.:** 0.30 **gal/day/sq.ft**

Septic Tank: 1000 **gals** **Pump Tank:** 1000 **gals** **Sq. Foot:** 1200 **Stone Depth:**

Number of Taps: 6 **Length of Trenches:** 400 **ft(See Tap Chart for Details)**

Depth of Trenches: 15 **in** **Manifold Length:** 54 **in**

Manifold Diameter: 4in sch 80pvc Manifold **Tap Configuration: 6 in spacing** 1 **side(s) of manifold**

Supply Line: length: 75 **ft** **Diameter:** 2 **in sch 40pvc**

Friction Loss + Fitting Loss: 5.40 **ft(supply line length + 70' for fittings in pump tank)**

Design Head: 2 **ft** **Elevation Head:** 20.80 **ft**

Total Head: 28.20 **ft** **Pump to Deliver:** 41.03 **gals/min at** 28.20 **ft head**

Dosing Volume: 182 **gals,**

Drawdown: 182 **gals divided by** 20 **gals/in =** 9.1 **inches**

TAP CHART

Bench Mark	7.4	is = 100.00	set at Line 1				**Design Head:**	2	
Pump tank elev.		0	85.20	**Pump elev.**	80.20		**Manifold elev.**	101.00	
line	**color**	**rod read**	**Elevation**	**length**	**hole size**	**flow/tap**	**gal/day**	**trench area**	**LINE LTAR**
1	Red	7.40	100.00	50	1/2in SCH 80	5.48	64.11	150	0.427
2	Blue	9.05	98.35	70	1/2in SCH 40	7.11	83.18	210	0.396
3	Yellow	10.75	96.65	70	1/2in SCH 40	7.11	83.18	210	0.396
4	Red	12.95	94.45	70	1/2in SCH 40	7.11	83.18	210	0.396
5	Blue	14.65	92.75	70	1/2in SCH 40	7.11	83.18	210	0.396
6	Yellow	16.50	90.90	70	1/2in SCH 40	7.11	83.18	210	0.396
		total	**feet =**	**400**	**gal/min =**	**41.03**		**LTAR =**	**0.30**
% of Dose Vol.		70		**Des. Flow**	480			**(ltar + 5%)**	0.32
Dose Volume		182		**Pump Run=**	11.70			**(ltar W/ INOV)**	0.40
Dose Pump Time		4.44		**Tank Gal/IN**	20			**(ltar + 5%)**	0.42
Drawdown in Inches		9.1		**Elev. Head**	20.80				
Supply Line Length		50							

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.

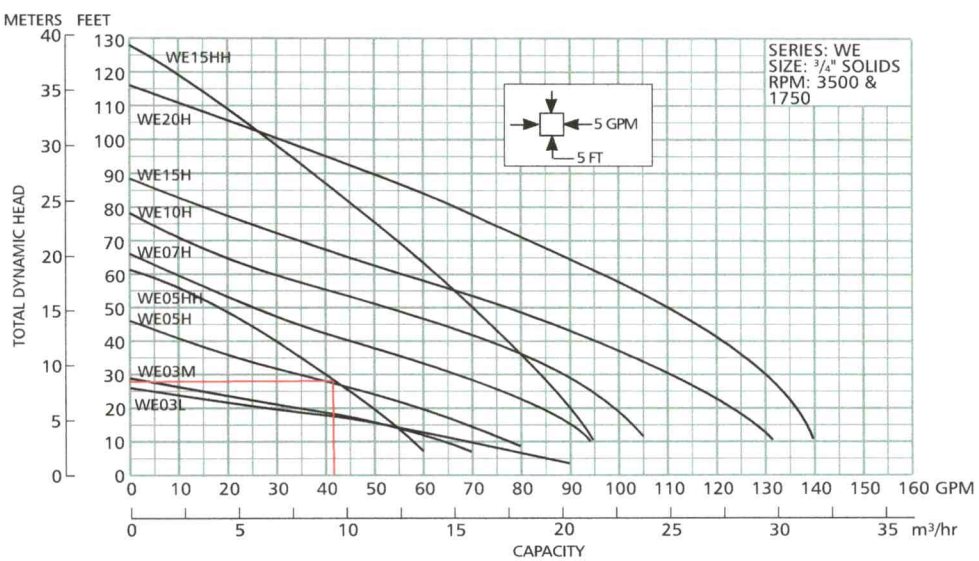
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

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

AGENCY LISTINGS

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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GOULDS PUMPS

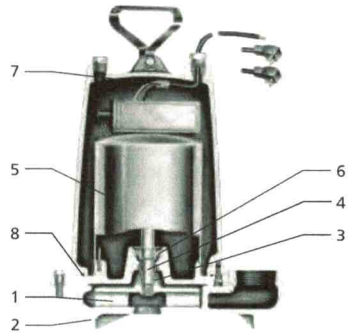
Submersible Effluent Pump

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

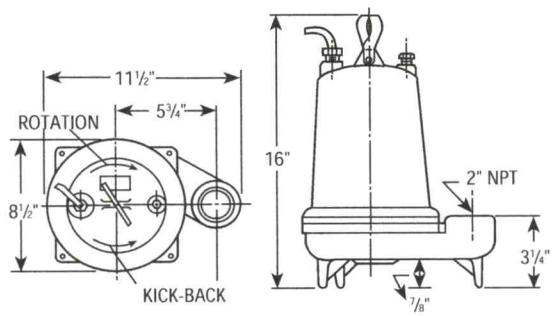
Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids	Wt. (lbs.)
WE0311L	1/3	115	1	10.7	1750	3/4"	56
WE0318L		208		6.8			
WE0312L		230		4.9			
WE0311M		115		10.7			
WE0318M		208		6.8			
WE0312M		230		4.9			
WE0511H	1/2	115		14.5	3500		60
WE0518H		208		8.1			
WE0512H		230		7.3			
WE0538H		200	3	4.9			
WE0532H		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.)



Goulds Pumps and the ITT Engineered Blocks Symbol are registered trademarks and tradenames of ITT Industries.

PRINTED IN U.S.A.

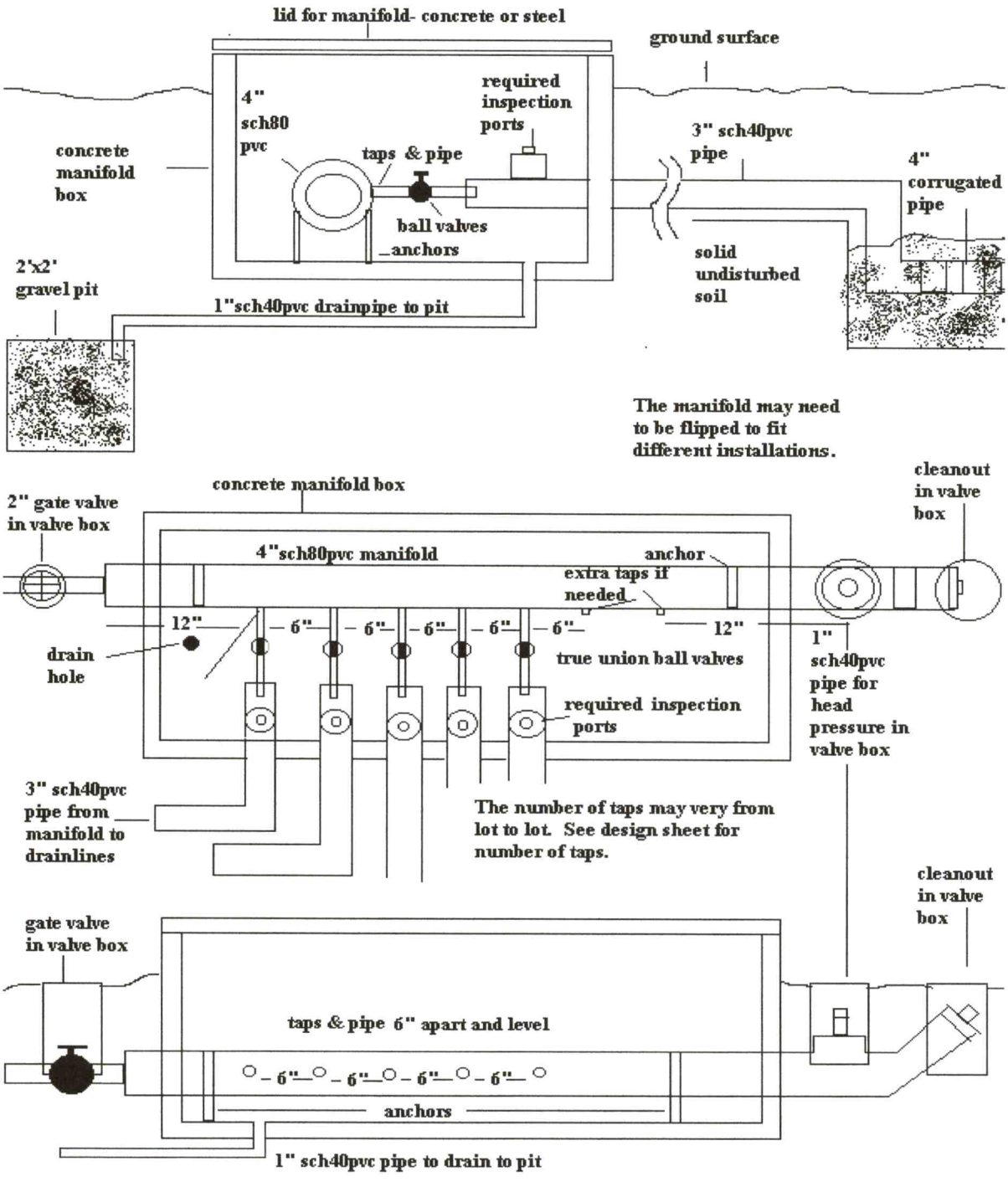
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Goulds Pumps

ITT Industries

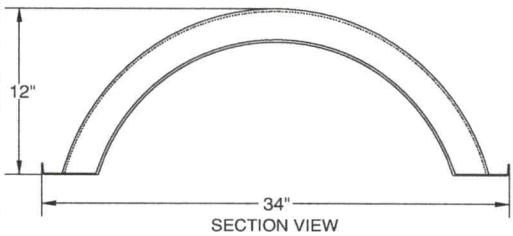
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541

Lot 55 Ridgecrest
220 Grassy Meadow Lane

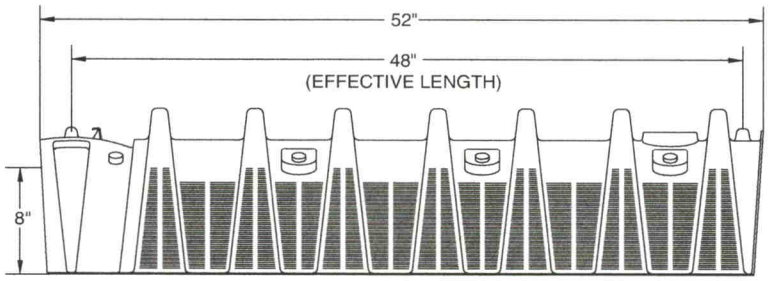


Quick4™
STANDARD CHAMBER

Quick4 Standard Chamber

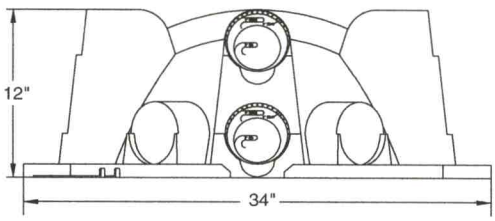


SECTION VIEW

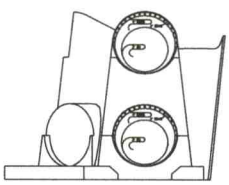


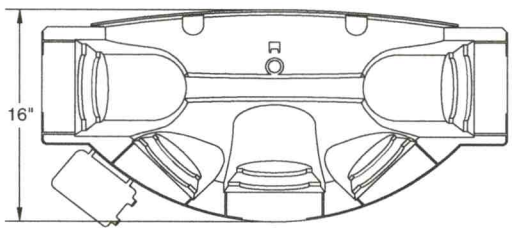
SIDE VIEW

MultiPort End Cap



FRONT VIEW


SIDE VIEW



TOP VIEW

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

Three Oaks Engineering
324 Blackwell Street, Suite 1200
Durham, NC 27701

LOT 55

Sheet 1 of 1
PROPERTY ID #: 4728902177
COUNTY: IREDELL

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

OWNER: DAVIDSON LAND DEVELOPMENT COMP.
ADDRESS:
PROPOSED FACILITY: RES
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: 220 GRASSY MEADOW LN, STATESVILLE, NC
APPLICATION DATE
DATE EVALUATED: 7-15-21
PROPERTY SIZE: 0.908
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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS/17	0-14	GR/sl/VFR	NS NP NE	–	>42	–	–	PS 0.3
		14-34	SBK/c/FI	SS SP SE					
		34-42+	SBK/cl/FR	SS SP SE					
2	LS/16	0-4	GR/SP/VFR	NS NP NE	–	>41	–	–	PS 0.3
		4-41+	SBK/C/FI	SS SP SE					
3	LS/17	0-6	GR/s/VFR	NS NP NE	–	33	33	–	PS 0.3
		6-33	SBK/c/FI	SS SP SE					
		33+	M/scl/FR	SS PS SE					
4	LS/15	0-5	GR/sl/VFR	NS, NP NE	–	34	34	–	PS 0.3
		5-25	SBK/c/FI	SS SP SE					
		25-34	SBK/cl/FR	SS, SP, SE					
		34+	M/l/FR	NS, NP, NE					

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

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PROV. SOIL
EVALUATED BY: M. WOOD
OTHER(S) PRESENT:

LICENSED SOIL SCIENTIST MICHAEL G. WOOD 1219 STATE OF NORTH CAROLINA

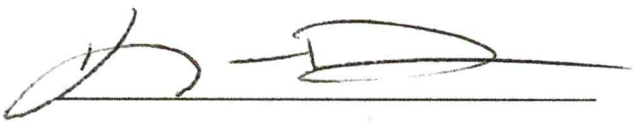
Updated February 2014

To: Iredell County Environmental Health

From: Century Complete

Regarding: Ridgecrest – Session Law 2018-114 Permit Packages

The NC LSS evaluation attached to these applications is to be used to produce a design and construction features for permitting in accordance with Session Law 2018-114 Section 11. (c).



Project Manager

8-5-21

Date

EXHIBIT "C"

PERMISSION TO PERMIT

DATE 6-29-2021

WJH LLC, a Delaware limited liability company
Permitting for the Charlotte Division
3093 Governors Lake Drive, Suite 300
Norcross, GA 30071

Per your request, we grant permission to **WJH LLC**, a Delaware limited liability company (hereinafter, "WJH") and Katie Dyess, Glenn Bird, and Dave Hodgman, as Builder's Agent, to begin the permitting process for Ridgecrest on the lots listed within Exhibit "A" attached of the contract intended for purchase so long as the lots are not disturbed by you or your affiliates prior to their scheduled purchase and more specifically, no work of any kind will be performed on the lots prior to closing. WJH shall be held liable should anyone attempt to lien the property for work ordered by WJH.

If you have any questions, feel free to email me at the email provided below

Sincerely,

SELLER:

DAVIDSON LAND DEVELOPMENT, LLC.
a North Carolina limited liability company

(SEAL)

By: CHRIS REID
Title MANAGER
Date 6-29-2021
Email CHRIS@REIDFARM.COM

55

Session Law RECEIVED AUG 27 2021 AP-320336

APPLICATION MUST BE FILLED OUT COMPLETELY & BE LEGIBLE
OR IT WILL NOT BE PROCESSED Paid $1200.00

Iredell County Health Department – Environmental Health Division

PAGE 1: *APPLICATION FORM*

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

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

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

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: **(PRINT CLEARLY)** WJH LLC is under contract to purchase

Applicant Name: WJH LLC **Address:** 9325 Center Lake Drive Ste 160 Charlotte NC 28216 **Zip:**
Applicant Email: katie.dyess@centurycommunities.com **Phone:** 704-488-1100 **Alt. Phone:**
Owner Name: Davidson Land Development LLC **Address:** **Zip:**
Owner Email: lanny@lthedrick.com **Phone:** **Alt. Phone:**

Property Information:

Street Address: 220 Grassy Meadow Lane
Subdivision Name: Ridgecrest **Section/Phase:** **Lot Number:** 55
Driving Directions: Head west toward NC-115/N Center St, Turn right toward NC-115/N Center St, Turn left at the 1st cross street onto NC-115/N Center St, Turn right onto Branchwood Rd

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

(X) New Single Family Residence **Maximum Number of Bedrooms:** 4 **CHECK FOUNDATION TYPE**
( ) New Multi-Family Residence **Maximum Number of Occupants:** (X) Crawl Space Foundation
( ) Accessory Building ( ) Swimming Pool ( ) Concrete Slab Foundation
( ) Bedroom(s) Addition ( ) Other Addition/Structure: ( ) Basement with Plumbing
( ) Repair to failing septic system ___ Tank ___ Drain lines **Describe Problem:** ( ) Basement without Plumbing
Non-Residential Site Development: **Type of Business:**
Square Footage of Building: **Max. Number of Employees:** **Max. Number of Seats/Beds/Other:**

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

( ) New Well ( ) Existing Well ( ) Community Well ( ) City Water (X) 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?**
(X) Yes ( ) No **Is the site subject to approval by any other public agency?**

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

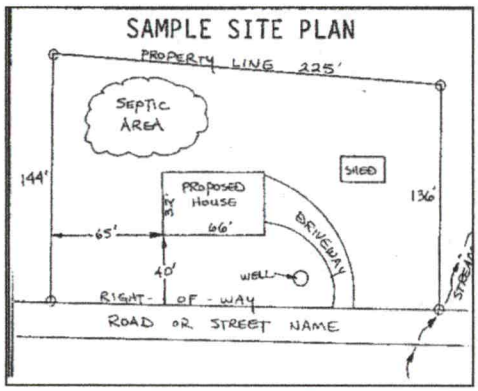
Signature: Katie Dyess for WJH LLC 8-5-21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 2: *SITE PLAN WORKSHEET*

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



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

- (X) **Property Line measurements are clearly identified**
- (X) **All proposed structures are indicated**
- (x) **Front and side setbacks from property line**
- (X) **Preferred driveway location and well location**
- (X) **Area you prefer your septic system to be placed**
- (x) **North arrow, or other sufficient indicator of direction**

Circle N/A on the following if appropriate:

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

USE THIS SPACE TO DRAW YOUR SITE PLAN

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

See attached session Permit paperwork

Signature: Katie Dyess for WJH LLC 8-5-21

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

CERTIFICATE OF SURVEY AND ACCURACY

I, CHRISTOPHER L COLE, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN (REFERENCES AS SHOWN); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN (REFERENCES AS SHOWN); THAT THE RATIO OF PRECISION AS CALCULATED EXCEEDS 1:15,000; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600);

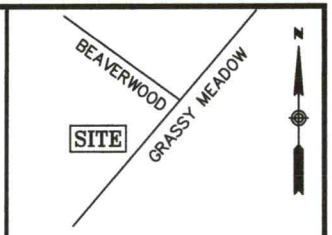
PRELIMINARY

NOT FOR SALES, RECORDATION OR CONVEYANCES

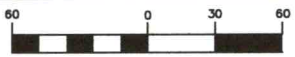
CHRISTOPHER L. COLE

REGISTRATION/LICENSE NO. NCPLS L-5008

NC FIRM LICENSE NO. C-4288



VICINITY MAP (N.T.S.)



(IN FEET)
1 inch = 60 ft.

LEGEND

PL — PROPERTY LINE (NOT SURVEYED)
RW — RIGHT OF WAY
SB — SETBACK
O — CALCULATED POINT





NOTES:

1) EASEMENTS AND BUFFERS DERIVED BY PLAT
2) BOUNDARY LINES DERIVED BY PLAT, NO FIELD WORK COMPLETED FOR THIS MAP.
3) ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
4)LINES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM
5) THIS SURVEY DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY AND IS INTENDED TO DEPICT THE NEW BUILDING LOCATION RELATIVE TO THE BOUNDARIES.
6) CONTRACTOR TO VERIFY ALL DIMENSIONS

Ascension Land Surveying P.C.
Professional Land Surveying & Consulting
116 Williams Road, Mocksville, NC 27028
Phone: (704) 579-7197
Email: surveyor.chris007@gmail.com
NC FIRM LICENSE NO: C-4288
NC PLS NO: L-5008

5/4/2021
PIN: 4728902177

DRAWN BY: CC
CHECKED BY: JH
SCALE: 1"=60'
JOB: 21-05-46

PLOT PLAN
LOT-55
220 GRASSY MEADOW
RIDGECREST PH 3
STATESVILLE, IREDELL CO., NC

Lot 55 220 Grassy Meadow Lane 1601B LH

TABLE R302.6 Dwelling/Garage Separation	
Separation	Material
From the residence and attics	Not less than 1/2-inch gypsum board or equivalent applied to the garage side
From all habitable rooms above the garage	Not less than 5/8-inch Type X gypsum board or equivalent
Structure(s) supporting floor-ceiling assemblies used for separation required by this section	Not less than 1/2-inch gypsum board or equivalent

WALL LEGEND

FULL HEIGHT 2X4 WOOD STUD PARTITION

FULL HEIGHT 2X6 WOOD STUD PARTITION

STONE VENEER

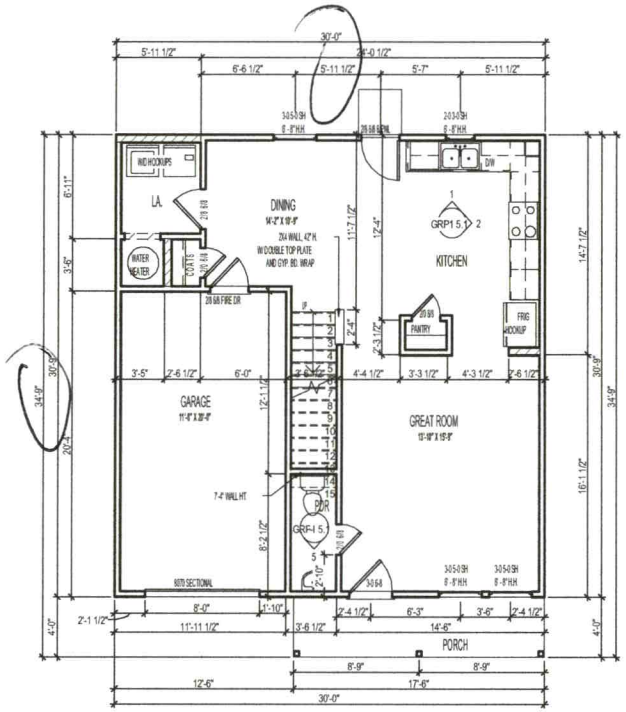
DRYWALL OPENING HEIGHT AS NOTED ON PLAN, 6'-8" HIGH HT.

BRICK VENEER

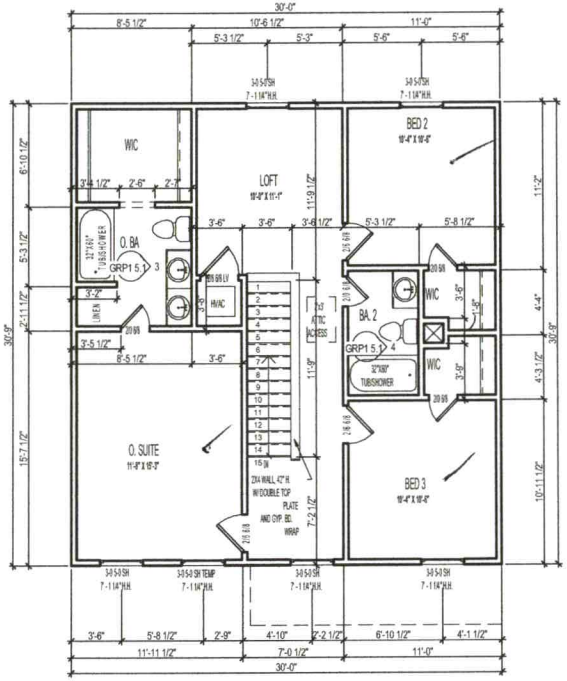
1 ROD & SHELF

STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED

NOTE: EXTERIOR WALLS FRAMED AT 16" O.C. INTERIOR NON-BEARING WALLS FRAMED AT 24" O.C. REF TO STRUCTURAL SHEETS FOR BEARING WALL SPECIFICATIONS AND PLATE INFORMATION



1 FIRST FLOOR PLAN ELEV 'B'
1/4" = 1'-0" AT 22" X 34" LAYOUT
1/8" = 1'-0" AT 11" X 17" LAYOUT



2 SECOND FLOOR PLAN ELEV 'B'
1/4" = 1'-0" AT 22" X 34" LAYOUT
1/8" = 1'-0" AT 11" X 17" LAYOUT

Acknowledgement of
Plans Submittal ONLY!

Date 9/17/21.

Date 9/17/21

CENTURY Complete
MORE HOME • LESS MONEY

3091 GOVERNORS LAKE DR.
SUITE 300
NORCROSS, GA 30071
PHONE: 336-282-3606

WIH, LLC © 2020

GRP1 - 'B'

FLOOR PLANS

LOT #:
JOB #:
COMMUNITY:
ADDRESS:

PLAN # / ORIENTATION:
3021603 / LH

SERIES NAME:
CELEBRATION

PLAN NAME:

LAST REVISION
2.02

SHEET #
GRP1 1.2

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

APPLICATION NUMBER
320336 Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4728902177.000	220 Grassy Meadow Ln	Iredell County

Owner Information	Applicant Information
Name: DAVIDSON LAND DEV LLC	Name: WJH LLC
Address:	Address: 9325 CENTER LAKE DR SUITE 160 CHARLOTTE, NC 28625
Phone:	Phone: (704)488-1100

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.908	35	35	15	15	WSIV-PA South Yadkin	NO

Remarks
NEW ADDRESS. LOT#55 220 grassy meadow

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.

Date: 08/11/2021

Signature of Owner/Contractor

Permit Number	320336	TOTAL FEES:	$77.25