ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 324893

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

PIN # 4740-40-1156

APPLICANT/OWNER: H.H. Wiltshire Holdings LLC | APPLICANT ADDRESS: P.O. Box 3965 Mooresville, NC 28117

SITE ADDRESS: 117 Carissa Ln Troutman, NC 28166 | PHONE: 7042021524 | ALT. PHONE

SITE DIRECTIONS: Perth Rd N TR Clontz Hill TR Ridge Creek TR Wiltshire TL E Panther Creek TR Carissa Ln

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Wiltshire Creek | SECTION: | LOT # 36 | LOT AREA: .98 Acre | DESIGN FLOW: 360gpd | L.T.A.R.: .3

Septic Tank	1000 (gal)	STB	760	Date	8/24/22	☒ New System ☐ Repair ☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms 3
Pump Tank	1000 (gal)	PT	363	Date	8/27/22	System Description: Pump-PM-25% Reduction		☐ Business	No. Persons 6
Pump Make	Bowes 74	Model	¼hp 120V	Serial #		Repair System Description: PPBPS		☐ Other	No. Employees
# Nitrification Fields	1	# Lines	4	Linear Ft	300	Maintenance Agreement Required:	☐ YES ☒ NO	☒ Slab	☐ Crawl Space
Trench Width	36"	Trench Bottom Depth(Low side)	~~30~~ 28"	Gravel Depth	N/A		☐ GRAVITY ☒ PRESSURE	☐ Basement w/ plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: See attached Septic Plan by Soil & Forestry Services

Divert Storm/Surface water away from Septic

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:

Samuel A. Rollans

LSS# 1231

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.

Authorization to Construct

FOR SEPTIC FINAL INSPECTION

CALL 704-664-3703

Checked:

Tank 10/6/22 mw

Lines 10/6/22 mw

PM 10/6/22 mw

PH

Electrical aw

Plants 11/7/22

Alarm

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: [signature] Date: 4/21/22 Installed by: Specialty Septic

IMPROVEMENT PERMIT by: [signature] Date: 2/7/22 OPERATION PERMIT by: [signature] Date: 11/7/22

AUTHORIZATION TO CONSTRUCT by: [signature] Date: 4/20/22 Existing System Inspected by: Date:

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

ICHD - ENVIRONMENTAL HEALTH DIVISION

DW Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 324893

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

PIN # 4740 -- 40 -- 1156

APPLICANT/OWNER: H.H. Wiltshire Holdings LLC APPLICANT ADDRESS: P.O. Box 3965 Mooresville, NC 28117

SITE ADDRESS: 117 Carissa Ln. Troutman, NC 28166 PHONE: 7042021524 ALT. PHONE

SITE DIRECTIONS: Perth Rd N TR Clontz Hill TR Ridge Creek TR W. Wiltshire TL E Panther Creek TR Carissa Ln

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Wiltshire Creek SECTION: LOT # 36 LOT AREA: .98 Acre DESIGN FLOW: 360gpd L.T.A.R.: .3

Septic Tank 1000 (gal)	STB 760	Date 8/24/22	☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI	☒ Residence	No. Bedrooms 3	Water Supply
Pump Tank 1000 (gal)	PT 363	Date 8/27/22	System Description: Pump-pm-25% Reduction	☐ Business	No. Persons 6	☒ Private
Pump Make Bowes 76	Model 1/4hp 120V	Serial #	Repair System Description: PPBPS	☐ Other	No. Employees	☐ Public
# Nitrification Fields 1	# Lines 4	Linear Ft 300	Maintenance Agreement Required: ☐ YES ☒ NO	☒ Slab	☐ Crawl Space	☐ Community
Trench Width 36	Trench Bottom Depth(Low side) ~~30~~ 28"	Gravel Depth N/A	☐ GRAVITY ☒ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing	

Comments / Conditions: See attached Septic Plan by Soil & Forestry Services

Divert Storm/Surface water away from Septic

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:

Samuel A. Rollans

LSS# 1231

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.

Authorization to Construct
FOR SEPTIC FINAL INSPECTION
CALL 704-664-3703

Checked:
Tank 10/6/22 MW
Lines 10/6/22 MW
PM 10/6/22 MW

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: [signature] Date: 4/21/22 Installed by: Specialty Septic

IMPROVEMENT PERMIT by: Maria Dolson Date: 2/7/22 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Maria Dolson Date: 4/20/22 Existing System Inspected by: Date:

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

SCALE
1" = 40'
NORTH
W
DRIVE
34'
16'
72.3'
27.6'
PROPOSED
HOUSE
(40' X 40')
ST
PT
18'
PROPOSED
USE
50')
~3,800 SF
SH
P9
1 O 28'
2 Y 40'
3 B 68'
4 P 76'
5 R 92'
35
4
3
36
37
2
1
3
5
4
PRESSURE
MANIFOLD
1 R 896.65' 16'
2 O 895.04' 30"
3 Y 893.01'27'
4 B 890.51' 24'
5 P 886.48' 29'
6 R 885.79'35'
7 O 883.27'42'
8 Y 880.65' 58'
9 B 878.13' 75'
10 P 875.67' 81' (75')
11 R 873.60' 80' (75')
12 O 871.51'82' (75')
13 Y 869.85' 62'
14 B 878.80'42'
10' SUPPLY LINE EASEMENT
10' SUPPLY LINE EASEMENT
10' SUPPLY LINE EASEMENT

PRESSURE MANIFOLD SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	HH Wiltshire Holdings LLC
Address:	P.O. Box 3965 Mooresville, NC 28117
Phone:	704.202.1524
County:	Iredell
Location:	117 Carissa Lane Troutman, NC 28166
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	360 gpd
System Flow:	28.44

Design Specifications

Drainfield Size:	300
Loading Rate:	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
MaxTrench Depth (LOW SIDE):	28 in. Repair Trench Depth 30 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	48
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	8.35
Dosing Volume:	146.93
Supply Manifold:	4 in. SCH 80 PVC
Supply Manifold Length:	4 ft. (minimum)
Supply Manifold Volume:	N/A
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	0.85
Elevation Head:	4.00
Total Dynamic Head:	7.88
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 at Pressure Manifold
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA.

117 Carissa Lane
PRESSURE MANIFOLD DESIGN

DESIGN FLOW:	360	
SOIL APPLICATION RATE:	0.3	
TOTAL AREA TRENCH BOTTOM:	900	
TOTAL LATERAL LENGTH:	300	
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	300	
SUPPLY LINE LENGTH:	48	
TOTAL DYNAMIC HEAD:	7.88	
MANIFOLD SIZE:	4 in.SCH 80 PVC	
DOSING VOLUME:	146.93	
PUMP TANK DRAW DOWN*:	7.0	
SEPTIC TANK SIZE:		1000
PUMP TANK SIZE:		1000

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

Layout Specifications - 117 Carissa Lane

Project #: 20-0091

LAYOUT FOR 3 BEDROOM HOME

November 3, 2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
HOUSE	RIGHT FRONT				890.00		
PUMP TANK					880.00		
INSTR. 1							
1	RED				896.65	16	16
2	ORANGE				895.04	30	30
3	YELLOW				893.01	27	27
4	BLUE				890.51	24	24
5	PINK				888.48	29	29
6	RED				885.79	35	35
7	ORANGE				883.27	42	42
8	YELLOW				880.65	58	58
9	***BLUE***				***878.13***	***75***	***75***
10	***PINK***				***875.67***	***81***	***75***
11	***RED***				***873.60***	***80***	***75***
12	***ORANGE***				***871.51***	***82***	***75***
13	YELLOW				869.85	62	62
14	BLUE				878.50	42	42
					Total	683	665

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	Low Side TRENCH DEPTH
**** System***	***300***	***0.300***	***ACCEPT.***	***0.300***	***25% RED***	***PRESSURE MANIFOLD***	
Repair	365	0.300	MOD. CONV.	0.300	PPBPS	LOW PRESSURE	

Notes: **All measures in feet

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

**Nitrification lines were located by SURVEY.

PRESSURE MANIFOLD TAPSHEET - 117 Carissa Lane

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	Line LTAR
9	*BLUE*	*878.13*	*75*	*SCH 40 1/2*	*7.11*	*225*	*0.16*
10	*PINK*	*875.67*	*75*	*SCH 40 1/2*	*7.11*	*225*	*0.16*
11	*RED*	*873.60*	*75*	*SCH 40 1/2*	*7.11*	*225*	*0.16*
12	*ORANGE*	*871.51*	*75*	*SCH 40 1/2*	*7.11*	*225*	*0.16*
	total	feet =	300	gal/min =	28.44		
			Des. Flow	360			
			Pump Run=	5.17			
			soil LTAR	0.3			
			LTAR +5%	0.315			
			LTAR with ACCEPTED	0.4			
			LTAR with ACCEPTED + 5%	0.42			

324893

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 20-0091
November 3rd, 2021

NEST HOMES
Attn: *Michael Wetter*
Email: mwetter@nesthomes.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence on Lot 36 Wiltshire Creek Subdivision, 0.98 ac Parcel, PIN# 4740401156, 117 Carissa Lane,Troutman, NC 28166.

Mr. Wetter:

At your request Soil & Forestry Services of the Carolinas (S&FS) has performed soil/site evaluations on parcel noted above. The Lot size is noted on the attached survey map & soil evaluation form. The purpose of our work was to identify soil areas with potential to support subsurface wastewater disposal systems and provide design details for Session Law submittal to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly mixed pine/hardwood. Topography within the evaluated area was gentle to moderate slope near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Jordan-Grant Surveying. The surveyor provided an Autocad File of a survey as a basemap. The proposed septic layout was located via Survey/tape measures and used to produce the attached *Site Plan*. The house envelope was located via tape measure.

Methodology

We evaluated soil areas through the use of backhoe pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with five pit locations on the property flagged and located via GPS. All of the backhoe pits are located in or adjacent to the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18A.1900 "Laws and Rules for Sewage Treatment and Disposal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each pit. The house envelope was located via survey. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by survey and tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot.

117 Carissa Lane (*See Attached Design*)
The septic layout for this lot (9' centers) yielded a total of 683 linear feet of line. The primary system is proposed as 300 linear feet of Accepted (25% Reduction) drainfield with pressure manifold distribution. Trench depth (Low Side) is specified at 28 inches. The repair system is proposed as 200 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. There is 365 linear feet available for repair. Trench depth (Low Side) is specified at 30 inches.

Session Law Requirements

An LSS Evaluation may be submitted in conjunction with a complete application to the LHD. The application shall include all information described in 15A NCAC 18A .1937(d) and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"The LSS Evaluation attached to this application is to be used to produce design and construction features for permitting in accordance with SL 2018-114 Section 11.(c).".

Owner Date

Print Name Vanessa Beck
Signature Vanessa Beck 10/21/22

The LSS Evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

"The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c)."

Disclaimer
This report reflects the findings of S&FS, PA. *This LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).* Any site modifications that impact the proposed septic areas on Lot 36 of Wiltshire Creek Subdivision may nullify this design. System design requirements and site requirements shall be adhered to for installation and Operations Permits to be issued by the local Health Department. If you have questions regarding these requirements a Pre-Construction meeting should be scheduled to discuss. Please contact S&FS if you have any questions regarding this report or the attached information. S&FS also offers septic system inspection, wetland delineation and forestry services.

Sincerely,

LICENSED SOIL SCIENTIST
Samuel A. Rollans
1231

S. Ashley Rollans, LSS
Attachment: *Septic Design*

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Accepted (25% reduction) Septic System with Pressure Manifold distribution for a 3 bedroom single family residence at 117 Carissa Lane Lot 36, (PIN #:4740401156), Troutman NC, 28166.

Contents:

	Page
Information for the Installer	1
Design Information	
Design Specifications	2-3
Layout Specifications	4
System Tapsheet	5
Pressure Manifold Diagram	6
Site Plan/System Plan	7
Calculations	8
Profile Descriptions	9-10
Zoning Permit & Receipt	11-13
Application	14-15
Agent Authorization Form	16
Green Sheet	17

November 3, 2021
Project No. 20-0091
Design By: Soil & Forestry Services of the Carolinas, PA

INFORMATION FOR THE INSTALLER:

- The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
- Tanks shall be approved by DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as an Accepted 25% reduction installation w/Pressure Manifold.
- Repair is specified as a PPBPS installation with Low Pressure Distribution.
- Rake trench walls, lime sidewalls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.

ICHD - ENVIRONMENTAL HEALTH DIVISION

DW Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 324893

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

PIN # 4740 -- 40 -- 1156

APPLICANT/OWNER: H.H. Wiltshire Holdings LLC APPLICANT ADDRESS: P.O. Box 3965 Mooresville, NC 28117

SITE ADDRESS: 117 Carissa Ln. Troutman, NC 28166 PHONE: 7042021524 ALT. PHONE

SITE DIRECTIONS: Perth Rd N. TR Clontz Hill TR Ridge Creek TR Wiltshire TL E Panther Creek TR Carissa Ln

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Wiltshire Creek SECTION: LOT # 36 LOT AREA: .98 Acre DESIGN FLOW: 360gpd L.T.A.R.: .3

Septic Tank	1000 (gal)	STB	Date	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms	3	Water Supply
Pump Tank	1000 (gal)	PT	Date	System Description:	Pump-pm-25% Reduction			☐ Business	No. Persons	6	☒ Private
Pump Make		Model	Serial #	Repair System Description:	PPBPS			☐ Other	No. Employees		☐ Public
# Nitrification Fields	1	# Lines	4	Linear Ft:	300			☒ Slab	☐ Crawl Space		☐ Community
Trench Width	36"	Trench Bottom Depth(Low side)	~~36~~ 28"	Gravel Depth	N/A	Maintenance Agreement Required:	☐ YES ☒ NO	☐ Basement w/plumbing			☐ Basement w/o plumbing
							☐ GRAVITY ☒ PRESSURE				

Comments / Conditions: See attached Septic Plan by Soil & Forestry Services

Divert Storm/Surface water away from Septic

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:

Samuel A. Rollans

LSS# 1231

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.

Authorization to Construct
FOR SEPTIC FINAL INSPECTION
CALL 704-664-3703

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: [signature] Date: 4/21/22 Installed by:

IMPROVEMENT PERMIT by: Maria L Dolson Date: 2/7/22 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Maria L Dolson Date: 4/20/22 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? _____	

MD

RECEIVED JAN 2 4 2022

B24893

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Paid $500.00 Session Law

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

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

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

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

Applicant Information: **(PRINT CLEARLY)**

Applicant Name: HH Wiltshire Holdings LLC **Address:** P.O. Box 3905 Mooresville NC **Zip:** 28117
Applicant Email: mwetherapresthomes.com **Phone:** 704.202.1524 **Alt. Phone:**
Owner Name: Same **Address:** Same **Zip:** Same
Owner Email: Same **Phone:** Same **Alt. Phone:**

Property Information:

Street Address: 177 Carissa Lane Troutman NC 28166
Subdivision Name: Wiltshire Creek **Section/Phase:** **Lot Number:** 36
Driving Directions: see Address

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

Maximum Number of Bedrooms: 3
Maximum Number of Occupants:
( ) Swimming Pool
( ) Other Addition/Structure:

CHECK FOUNDATION TYPE
(✓) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Water Supply: ( ) Replacement Well – Reason:
( ) Multi-connection Well **Number of Houses:** **Number of Persons:**
(✓) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: ***(you may rank in order of preference)*** **Year existing system installed:**
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other:

Please answer the following to the best of your ability:
( ) Yes (✓) No **Does the site contain any jurisdictional wetlands?**
( ) Yes (✓) No **Is any non-domestic sewage (i.e. industrial) to be generated?**
( ) Yes (✓) No **Is the site subject to approval by any other public agency?**

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

Signature: _____ 11/3/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

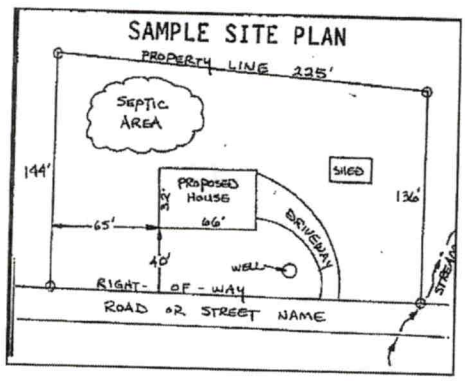
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

SITE PLAN WORKSHEET

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

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

- (X) Property Line measurements are clearly identified
- (X) All proposed structures are indicated
- (X) Front and side setbacks from property line
- (X) Preferred driveway location
- (X) Preferred well location
- (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

Signature: _____

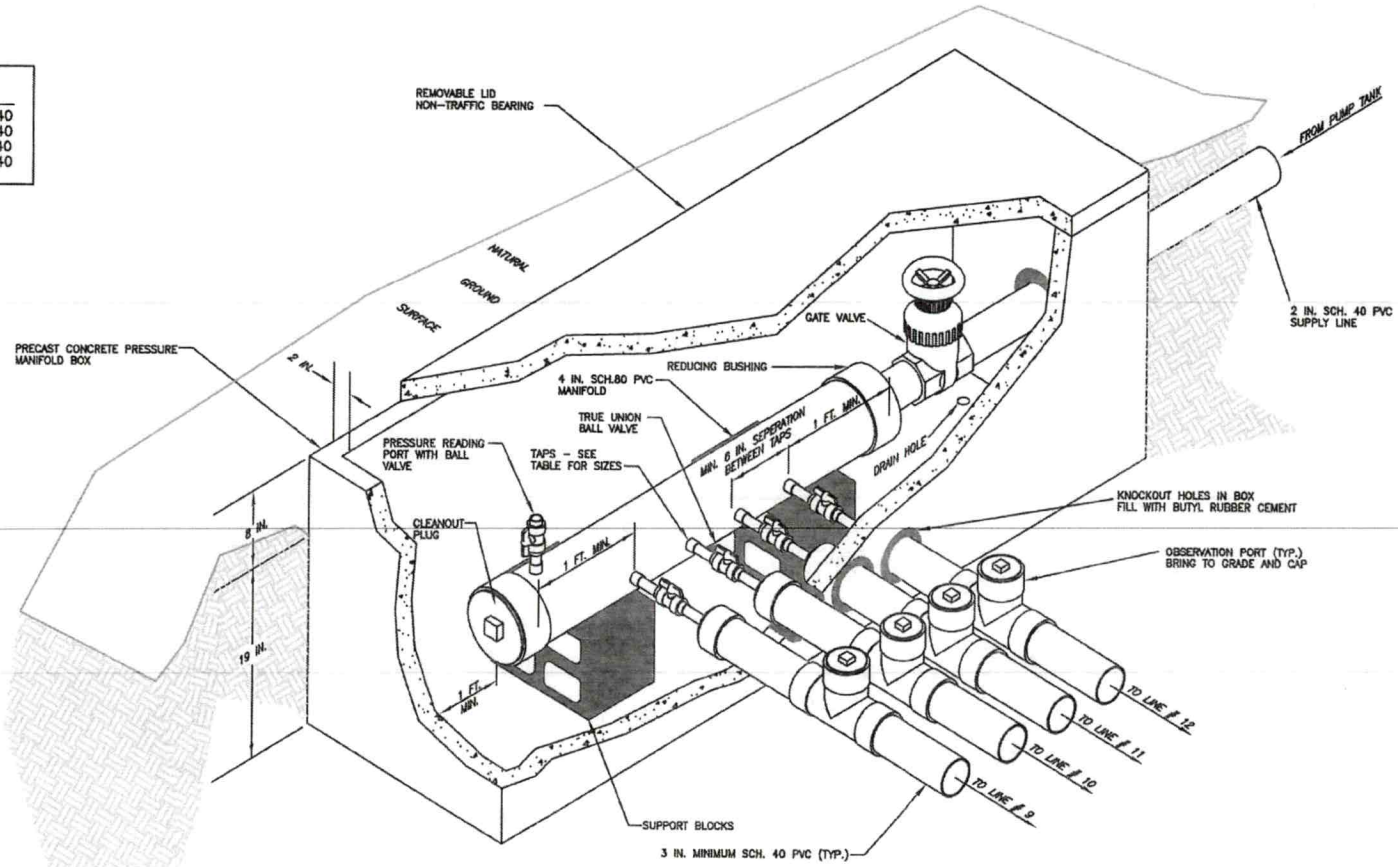
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

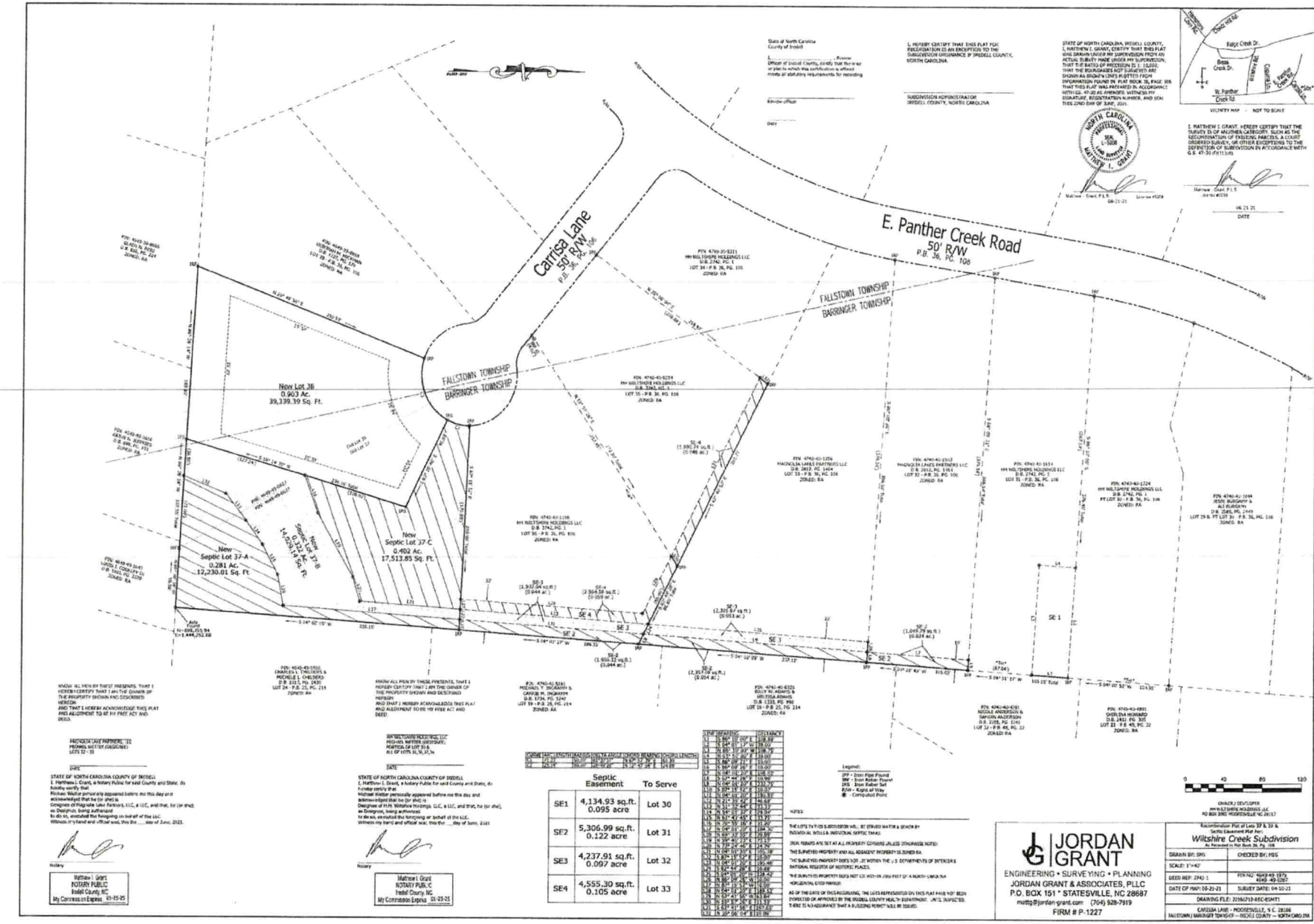
11/3/21
DATE

PRESSURE MANIFOLD DETAILS
FOR
WILTSHIRE ESTATES LOT#36 SEPTIC SYSTEM

TAP SIZES

LINE No.	TAP SIZE
9	1/2" SCH. 40
10	1/2" SCH. 40
11	1/2" SCH. 40
12	1/2" SCH. 40





Septic Easement		To Serve
SE1	4,134.93 sq.ft. 0.095 acre	Lot 30
SE2	5,306.99 sq.ft. 0.122 acre	Lot 31
SE3	4,237.91 sq.ft. 0.097 acre	Lot 32
SE4	4,555.30 sq.ft. 0.105 acre	Lot 33

JORDAN GRANT
ENGINEERING • SURVEYING • PLANNING
JORDAN GRANT & ASSOCIATES, PLLC
P.O. BOX 151 * STATESVILLE, NC 28687
mattg@jordan-grant.com (704) 928-7919
FIRM # P-1227

Recombination Plat of Lots 37 & 37-C & Septic Easement Plat for:
Wiltshire Creek Subdivision
As Recorded in Plat Book 36, Pg. 106

DRAWN BY: SMS	CHECKED BY: MGG
SCALE: 1"=40'	
DEED REF: 2742-1	PIN NO: 4649-49-1975, 4649-49-1087
DATE OF MAP: 08-21-23	SURVEY DATE: 04-10-23
DRAWING FILE: 20162713-REC-ESMT1	
CARRISA LANE - MOORESVILLE, N.C. 28166 FALLSTOWN / BARRINGER TOWNSHIP — IREDELL COUNTY — NORTH CAROLINA	

CALCULATIONS

Location	117 Carissa Lane Troutman, NC 28166	
Project Number	20-0091	
Lot No:	36	
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.300	$^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	48	ft.
Supply Line Volume	8.352	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	300	ft.
Gallons per Minute	28.44	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	195.9	gal.
Dosing Volume	146.93	gal.
	Note: Dosing Volume based on 75% of lateral line volume	
Tank Draw Down	7.0	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.17	minutes
Elevation Head	4	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	0.85	ft.
Total Dynamic Head (+15%)	7.88	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

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

Sheet 1 of 2
PROPERTY ID #: 1790490156
COUNTY: Iredell

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

OWNER: HH Wiltshire Holdings, LLC
ADDRESS: PO Box 3965 Mooresville NC 28117 APPLICATION DATE
PROPOSED FACILITY: 3BR PROPOSED DESIGN FLOW (.1949): 360 gpd DATE EVALUATED: 8-4-16
LOCATION OF SITE: LOT 36 Wiltshire 117 Carissa La Troutman NC 28166 PROPERTY SIZE: 0.98 ac
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other PROPERTY RECORDED: Yes
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	14% L	0-7	brown sl wk fi gr	fr sss p slep		60"			PS .3
		7-13"	brown red cl wk fi sbk	fr ss p slep					
		13-34"	brown red c mod med sbk	fr sss p slep	few brown mottles				
		34-60"	yellow red cl wk fi sbk	fr ss p slep	common sap inclusions				
2	18% L	0-4"	brown sl wk fi gr	fr sss p slep		65"			PS .3
		4-10"	brown red cl wk med sbk	fr sss p slep					
		10-32"	red cl wk fi sbk/sbk	fr s p slep					
		32-45"	brown red cl wk med sbk	fr sss p s slep					
		45-65"	brown red cl wk fi sbk	fr ss p slep	few sap inclusions				
3	18% L	0-4"	brown sl wk fi gr	fr sss p slep		60"			PS .3
		4-31"	red c mod med sbk	fr ss p slep	few yellow brown mottles				
		31-60"	brown red cl wk fi sbk	fr ss p slep	common yellow mottles # white lithochromic relic weathered rock				
4	18% L	0-7"	brown sl wk fi gr	fr sss p slep		42"	PS		.275 – .3
		7-28"	red c mod med sbk	fr ss p slep					
		28-42"	brown red cl wk med sbk	fr ss p slep	few to common sap. inclusions				
		42-63"	yellow red massive lam sap	str, ns, np, mp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted	HPPBPS
Site LTAR	0.3	0.275

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: W. OVERBY, S. ASHLEY ROLLANS
OTHER(S) PRESENT: L. Lowe

COMMENTS:



[redacted]

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

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet 2 of 2

PROPERTY ID #: same
DATE OF EVALUATION: 8-4-16
COUNTY: Iredell

Lot 36

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
5	18% L	0-9"	brown SCL wk fi gr	fr ss sp slp		35"	PS		1.3
		9-36"	red C mod med sbk	fr s sp slp					
		26-55	brwn red CL wk fi sbk	fr ss sp slp					
		35-D"	Variegated massive loam sap	fr ns sp nlp					



IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative:

Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship

In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:
Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form.
If there are multiple property owners, then all property owners must sign the form that designates a legal representative.

By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

I, HH Wiltshire Holdings LLC/Michael Weller, am the legal owner(s) of the property located at 117 Carissa Lane Fountain NC 28166, identified as PIN (Parcel Identification Number) 4740401156, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) SFS / Ashley Rollens, _____, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

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

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

* Jim Carr 1-21-22
Signature of Owner(s) Date

Angela King 1/21/2022
Signature of Witness Date

Please return this signed form to the appropriate office:

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

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

IREDELL COUNTY · NC

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

APPLICATION NUMBER
324893 Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4740401156.000	117 CARRISA LN	Iredell County

Owner Information	Applicant Information
Name: HH WILTSHIRE HOLDINGS LLC	Name: HELMSMAN HOMES
Address:	Address: PO BOX 3965
,	MOORESVILLE, NC 28117
Phone:	Phone:

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.98	35	35	15	15	WSIV-PA Catawba/Lake Norman	NO

Remarks
SFD

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: 01/24/2022

Signature of Owner/Contractor

Permit Number	324893	TOTAL FEES:	$77.25

IREDELL COUNTY PLANNING & DEVELOPMENT
PO BOX 788, STATESVILLE NC 28687-0788
349 N. Center Street / Building Standards Center
(704) 878-3118 / FAX (704)928-2025

324893

Residential Zoning Permit Application

What are you building?(Please check) ***No building or addition shall be used for commercial, business, or other non-residential use unless appropriate permits and approval are obtained from Iredell County for commercial use.**

Stick built ✓ Modular___ Duplex___ Singlewide___ Doublewide___ Pier___ Addition___ Bedroom addition___

Accessory dwelling (ie: M-I-L Suite, guest house) ___ Accessory building (ie: garage, shed)___ Swimming pool___

Are there any other structures currently on the property such as dwellings, sheds, garages? (Please list type below)

Is there a septic tank on the property? Yes (No) If residence how many bedrooms? 3 and stories? 2

Please describe project (Details, Purpose, or Use): Single family home

Please list square footage of project (Pier, Addition, Accessory Dwelling, Accessory Building only): 2,112

Does the property have community water? (Yes) No If yes, please list who provides it: Turnman

Does the property have community sewer? Yes (No) If yes, please list who provides it: _____

Owner Information

Property Owner's Name Helmsman Homes Phone # (704) 604-8406

Owner's Current Address 326 Raceway Dr, Ste. 7, Mooresville NC 28117

Property Information

Property Address 117 Carissa Lane Parcel # 4740401156

Subdivision:_____ Lot:____ Zoning:_____ Watershed: Y / N Flood Plain: Y / N Township:_____

Directions to property (from a MAIN ROAD) _____

Application Information

Applicant's Name or Company Helmsman Homes Applicant's Phone # 704 604-8406

Applicant's Address 326 Raceway Dr Ste. 7 Mooresville NC

If Company, Representative's Name and Title John Morrow PM

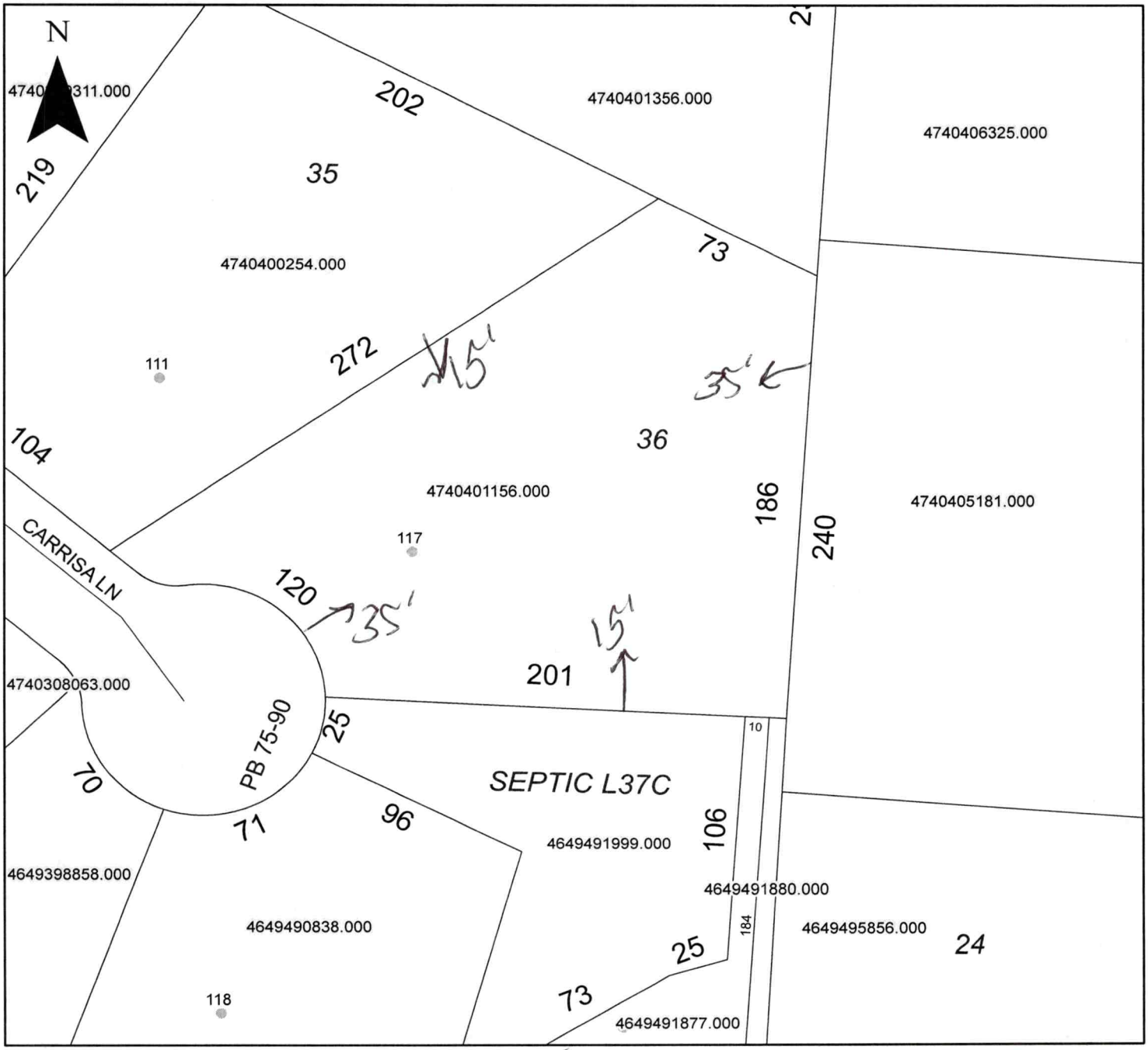
IN APPLYING FOR A ZONING PERMIT I CERTIFY THAT ALL INFORMATION ON THIS APPLICATION IS CORRECT AND THAT ALL WORK WILL COMPLY WITH IREDELL COUNTY ZONING REGULATIONS. THE IREDELL COUNTY PLANNING & DEVELOPMENT DEPARTMENT WILL BE NOTIFIED OF ANY CHANGES THAT ARE MADE TO THIS PROJECT. I AM AWARE THAT THIS IS AN APPLICATION ONLY - NOT A PERMIT - AND DOES NOT CONSTITUTE APPROVAL OF THIS PROJECT. HOWEVER, IF THIS PROJECT IS APPROVED, THIS SIGNATURE IS VALID FOR MY PERMIT.

SIGNATURE OF APPLICANT _____ DATE 1/24/22

acres .98 Catawba LHP
Iredell RA WS-IV-PA

ZONING DISCLAIMER

324893



Property Address 117 Carrisa Ln

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. Applicant further acknowledges that the 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

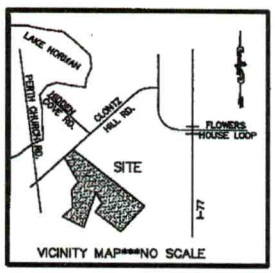
1/24/22
Date

DAS DON ALLEN & ASSOCIATES, P.A.
"Since 1971"
Commercial * Residential * Mortgage Surveys * Multi-Family
Construction Staking * Subdivision Design * Topographical
131 Crosslake Park Drive – Suite 102 * Mooresville * NC * 28117
(704) 664-7029 (704) 664-8041 Fax

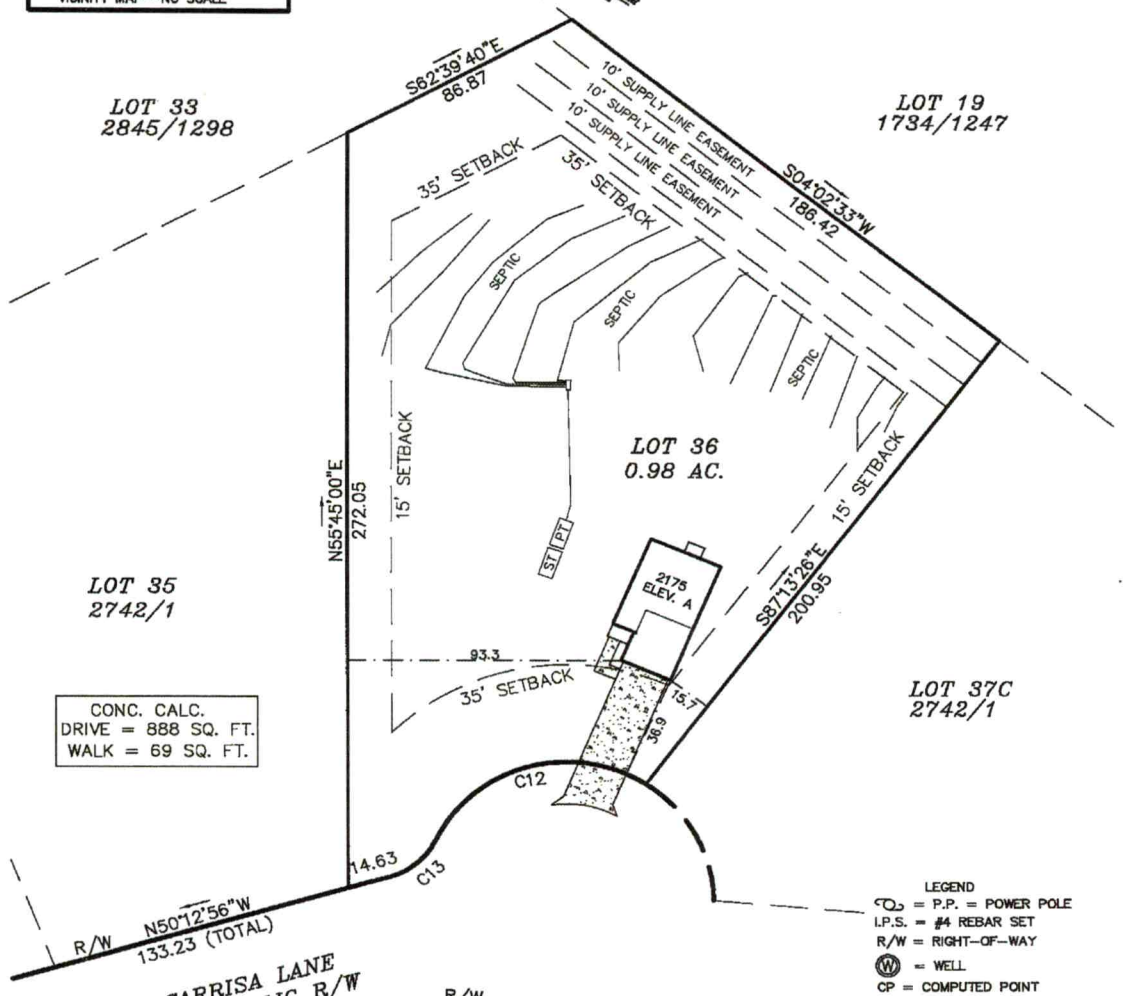
I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book 2742, page 1, and/or plat book 36, page 106, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C. my hand and seal on the 11, day of FEBRUARY, A.D. 20 22.

WILLIAM M. ALLEN, PLS

NORTH CAROLINA PROFESSIONAL SEAL L-3499 LAND SURVEYOR WILLIAM M. ALLEN



CURVE	RADIUS	LENGTH	CHORD	BEARING
C12	50.00'	84.54'	74.82'	N 49°58'07" W
C13	25.00'	21.03'	20.41'	S 74°18'38" E



LEGEND
= P.P. = POWER POLE
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
= WELL
CP = COMPUTED POINT

NOTES
1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

0' 25' 50' 100'
SCALE IN FEET

PLOT PLAN SURVEY

OF

117 CARRISA LANE

LOT 36 WILTSHIRE CREEK

FALLSTOWN TWSP., IREDELL CO., N.C.

SCALE 1" = 50'

ACQUIRED BY: HELMSMAN HOMES

FIELD BOOK:
FILE: WILTSHIRE CREEK 30-38
DC FILE:
TAX MAP NO: 4740401156.000

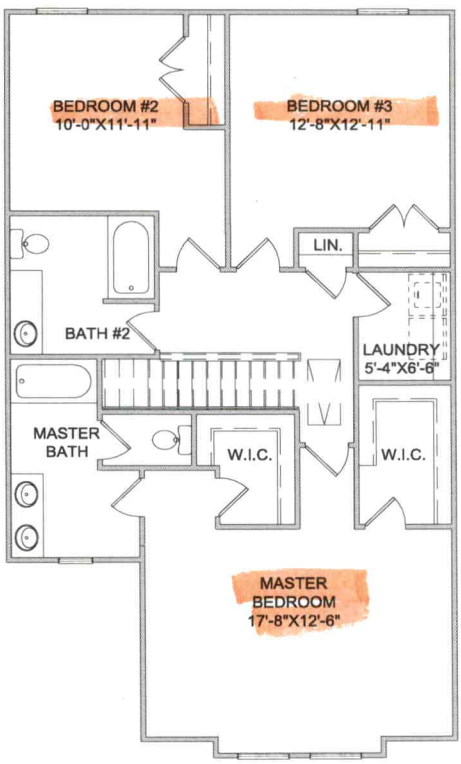


ELEVATION "A"

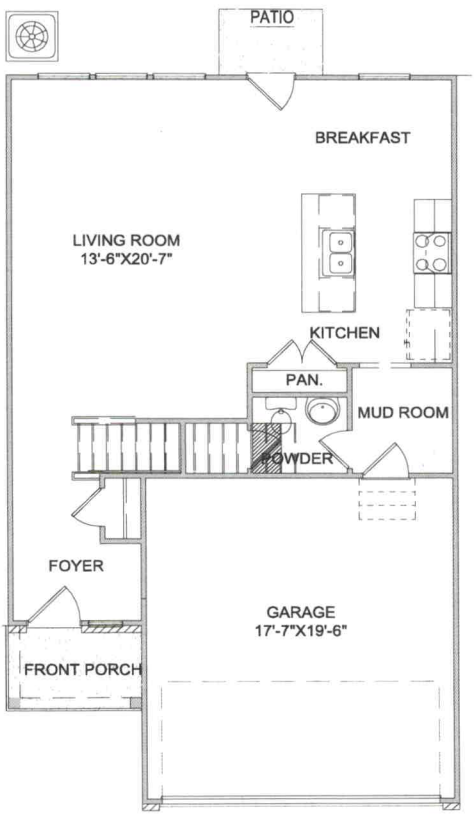


ELEVATION "B"

Acknowledgement Of
Plans Submittal ONLY!
Maria Dotsen Date 4/20/22
Mamenemen Date 4/21/22



SECOND FLOOR PLAN



FIRST FLOOR PLAN

SQUARE FOOTAGE	
FIRST FLOOR (HEATED)	708
SECOND FLOOR (H EATED)	1044
TOTAL (HEATED)	1752
GARAGE (UNHEATED)	360
FRONT PORCH	40

FATHOM

EST. 2020
HELMSMAN HOMES