ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625

PERMIT # AP 318261

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

PIN # 4626-84-0782

APPLICANT/OWNER: Benfield Outdoor Serv & Solutions/KimFed | APPLICANT ADDRESS: 939 Brawley School Rd Mooresville, NC 28117

SITE ADDRESS: 114 Dunn Ross Ct Mooresville, NC 28117 | PHONE: 7043600376 | ALT. PHONE

SITE DIRECTIONS: Brawley School Rd TR South Fork TR Anney Rd TR Caldwell Creek TR Magnolia Farms TR Dunn Ross Ct on Rt

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: The Farms | SECTION: 1 | LOT # 50 | LOT AREA: .885 Acre | DESIGN FLOW: 480 gpd | L.T.A.R.: .31 / .25 Req

Septic Tank	1000 (gal)	STB	Existing	Date					
Pump Tank	1000 (gal)	PT	2071	Date	INFILTER				
Pump Make		Model		Serial #					
# Nitrification Fields	1	# Lines	6 (6 taps)	Linear Ft	404				
Trench Width	36"	Trench Bottom Depth (Low side) max	36"	Gravel Depth	N/A				

☒ New System ☐ Repair ☐ Expansion | System Type: I II III IV V VI

System Description: Pump - PM 25% Reduction + Exist

Repair System Description: LPPBPS

Maintenance Agreement Required: ☐ YES ☒ NO

☐ GRAVITY ☒ PRESSURE

☒ Residence | No. Bedrooms: 4

☐ Business | No. Persons: 8

☐ Other | No. Employees:

☐ Slab | ☒ Crawl Space

☐ Basement w/ plumbing | ☐ Basement w/o plumbing

Water Supply: ☐ Private ☐ Public ☒ Community

12.5

Comments / Conditions: Abandon any part of Existing Septic System that's < 15ft from pool cut.
Relocation of Septic System to accomodate pool.

Pressure Manifold: Use 3/4" sch 40 tap for 98ft & 102' lines
Use 3/4" sch 80 tap for 82ft line
Use ~~1/2" sch~~ 80 tap for 38ft & 42ft lines — Combined

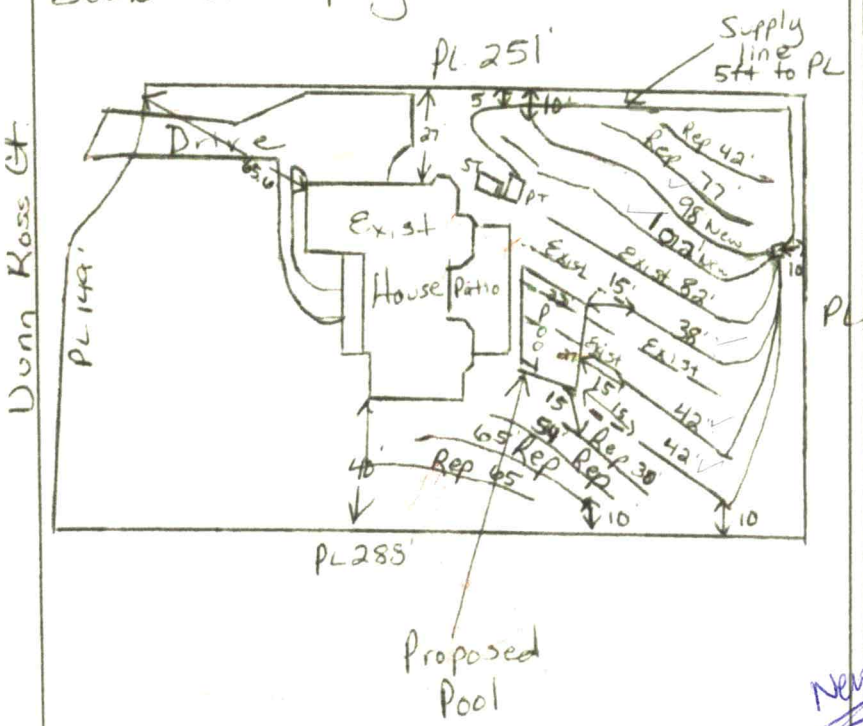
51.54 gal/min

10.1g

5.08g

INITIAL SITE SKETCH

Scale 1:60 Property line & Corners must be marked.



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.

2ft pressure head — Dose 182g Pump run 3.53min
8.67 drawdown

10/1/21 Checked PT & line abandonment of lines within 15ft

10-4-2021 CONNECTION BETWEEN BUN LAST 2 LINES CHECKED

10/5/21 Checked 102' line

10/6/21 Checked 98' line, manifold

Manifold: 3/4" SCH 40 tap – 98' & 102' > 200' together

approved MD 10/5/21

1½" SCH 80 tap – 84'

1" SCH 40 tap feeding 42', 42' & 38' > 122' together

New → Flow: 25.09 gpm Drawdown - 8.7"
Dose: 183.82 Run Time - 17.33min

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: 9-14-21 | Installed by: Michael Benfield

IMPROVEMENT PERMIT by: Maria Dolson Date: 9/13/21 | OPERATION PERMIT by: D. Wrebey Date: 10/15/21

AUTHORIZATION TO CONSTRUCT by: Maria Dolson Date: 9/13/21 | Existing System Inspected by: _____ Date: _____

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

Supply line leaking 10/13

	Date	Initials
Drain Lines Checked	10/6/21	DW
Tanks Checked	10/1/21	MO
Pressure Manifold or Valve Box Checked	10/6/21	DW
Pressure Head Set	10/15/21	DW
Electrical Checked	10/15/21	DW
Floats Set	10/13/21	DW
Alarm Checked	10/13/21	DW
Maintenance Contract Y / (N)		

6" above grade around riser 10/15/21 DW

114 Dunn Ross Court
SYSTEM TAP CHART

Bench Mark:	0	= 100.00	**Manifold elev:**	4.80	
Pump tank elevation:	4.00		**Pump elev:**	-1.40	

line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
3	Yellow	4.50	95.50	106	3/4in SCH 40	12.5	118.39	318	0.3723
4	Green	5.10	94.90	106	3/4in SCH 40	12.5	118.39	318	0.3723
5	Orange	5.50	94.50	78	3/4in SCH 80	10.1	95.66	234	0.4088
6, 8	Pink, Pink	8.00	92.00	80	3/4in SCH 80	10.1	95.66	240	0.3986
9	Orange	8.60	91.40	46	1/2in SCH 80	5.48	51.90	138	0.3761
	P-TANK	4.00	96.00						
		total	**feet =**	**416**	**gal/min =**	**50.68**		**LTAR =**	**0.300**

Des. Flow	480	**(ltar + 5%)**	0.32
24 Hour Pump Run=	9.47	**(ltar W/ INOV)**	0.40
		(ltar + 5%)	0.42

Comments:

LINE SCHEDULE				
LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)	DESIGN LENGTH (FT)
1	RED	1.6	42	0
2	BLUE	2.6	77	0
3	YELLOW	3.2	98 ✓	0
4	GREEN	3.6	104 ✓102	0
5	EXISTING O	4.5	78	82 ✓
6	EXISTING P	5.1	51	38 ✓
7	EXISTING O	5.5	37	0
8	EXISTING P	5.9	41	42 ✓
9	EXISTING O	7.1	44	42 ✓
10	GREEN	7.4	27	30
11	YELLOW	8.0	51	54
12	WHITE	8.6	60	~~78~~ 65
13	ORANGE	9.0	27	~~96~~ 63
			TOTAL	TOTAL
			710	462

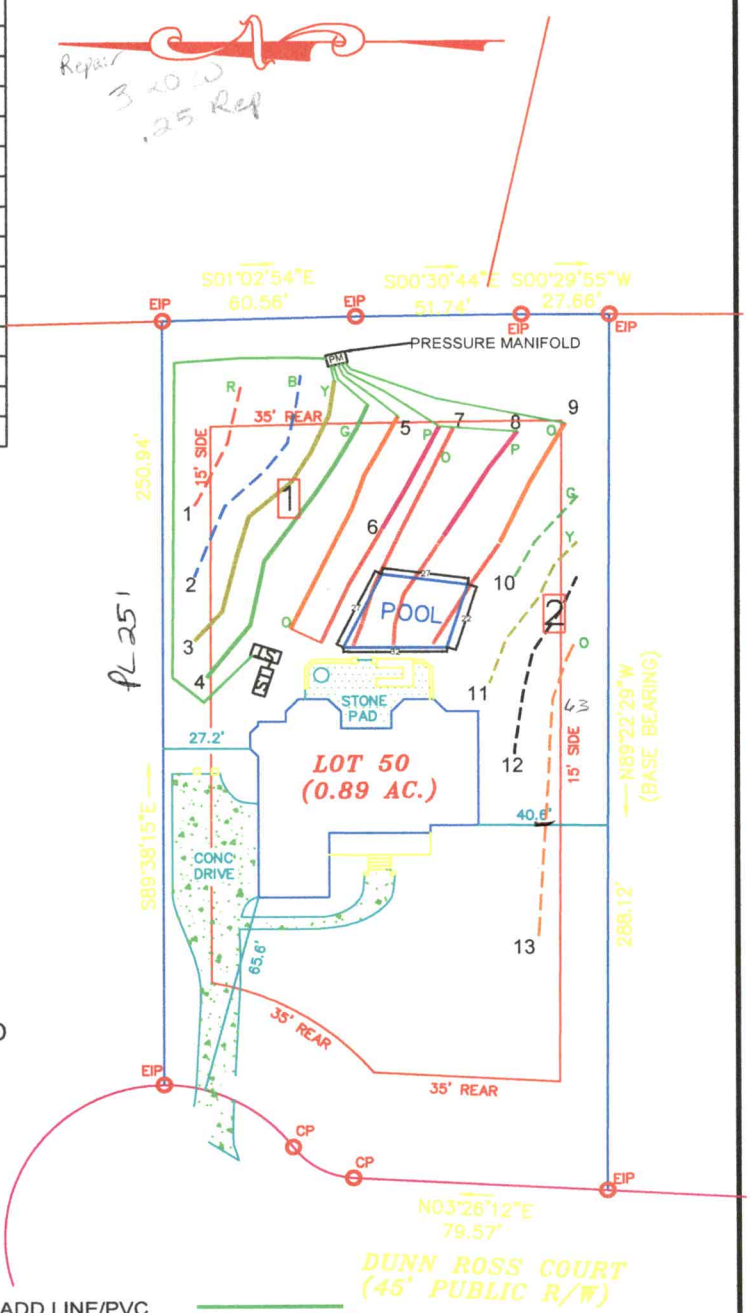
114 DUNN ROSS COURT MOORESVILLE NC.
SECTION 1, LOT 50 THE FARMS

4-BEDROOM PUMP TO PRESSURE MANIFOLD
ACCEPTED 25% REDUCTION SYSTEM
-LINES 4-6A 8, 9 TOTAL 416 LINEAR FT (USE 416')
-EXISTING LTAR 0.3 NEW LINES INSTALLED AT .3
-LINES 5, 6, 9 MAINTAIN 15' FROM WATER'S EDGE

4-BEDROOM LP PANEL BLOCK 8' OC
LINES 1-2 10-13 TOTAL 362 LINEAR FT
LTAR 0.25
30" TRENCH BOTTOM

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION

Notes: SOIL INFORMATION PROVIDED BY IREDELL CO
-INSTALL NEW PUMP TANK AND PRESSURE MANIFOLD
-ADD 1 NEW END CAP TO LINE 5
-DROP 41' FROM LINE 6
-DROP LINE 7, AND BYPASS
-DROP 40' FROM LINE 8
-DROP 38' FROM LINE 9
-COMBINED LINE 6 & 8



0 30 60

SCALE:
1" = 60 ft.

BOSS

Benfield Outdoor Services & Solutions, LLC
939 Brawley School Rd, Mooresville, NC 28117 Ph:704-360-0376
Info@yardsbyboss.com

KIM FORD

LOT 50
THE FARMS
MOORESVILLE, NC
IREDELL COUNTY

DATE: 8/16/21 DRAWN BY: MDB CHECKED BY: MDB

114 Dunn Ross Court

Layout/Design Specifications

Facility Type:	Single Family Home	
# of Bedrooms:	4	
Daily Flow:	480	**gal/day**
L.T.A.R.:	0.300	**gal/day/sq.ft**
Trench Depth:	16	**in**
Trench Width:	36	**in**
Stone Depth:	accepted	**in**
Manifold Length:	42	**in**
Manifold Diameter:	4	**in sch 80pvc**
Supply Line Length:	185	**ft**
Supply Line Diameter:	2	**in sch 40pvc**
Supply Line Volume:	32.19	**gallons**
Friction Loss + Fitting Loss:	0.35	**ft(supply line length + 70' for fittings in pump tank)**
Design Head:	2	**ft**
Elevation Head:	6.90	**ft**
Total Head:	9.25	**ft**
Dose Volume:	215.74	**gals**
% of Pipe Vol.	.75	
Drawdown:	10.70	**in @ 20.16 gal/in**
Pump Run Time:	4.31	**Minutes**
Control Panel:	SJE Rhombus Model112 control panel (or approved equivalent)	
Pump:	Zoeller5032-0008 High Flow (or approved equivalent)	
Tank Effluent Filter:	Zoeller 170-0144 residential effluent filter (or approved equivalent)	
Septic Tank:	1000	**gallon Shoaf**
Pump Tank:	1000	**gallon Shoaf**

RECEIVED AUG 19 2021

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM AP-318261 $500

Comprehensive

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: (X) 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: Benfield Outdoor Services + Solutions **Address:** 939 Brawley School Rd **Zip:** 28117
Applicant Email: info@yardskyboss.com **Phone:** 704-360-0376 **Alt. Phone:**
Owner Name: Kim Ford **Address:** 114 Dunn Ross Ct. **Zip:** 28117
Owner Email: Kfordcarolina@gmail.com **Phone:** 704-746-5795 **Alt. Phone:**

Property Information:

Street Address: 114 Dunn Ross Ct. Mooresville, NC 28117
Subdivision Name: The Farms **Section/Phase:** P1 M2 SHT2 **Lot Number:** 50
Driving Directions: From I-77 Head West on to Brawley School Rd for approximately 3.5 miles, Turn right onto Rocky Fork Rd which turns into Agnew Rd, then right onto Caldwell Creek Dr & right onto Magnolia Farms Dr Lane and then left onto Dunn Ross Ct.

Site Development Information: *(check or complete ALL that apply)* **CHECK FOUNDATION TYPE**

( ) New Single Family Residence — Maximum Number of Bedrooms: 4 — (X) Crawl Space Foundation
( ) New Multi-Family Residence — Maximum Number of Occupants: 8 — ( ) Concrete Slab Foundation
( ) Accessory Building — (X) Swimming Pool — ( ) Basement with Plumbing
( ) Bedroom(s) Addition — ( ) Other Addition/Structure: — ( ) Basement without Plumbing
( ) 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:

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

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

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

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

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

Signature: _____ 8/18/21
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, Kimberly S. Ford, Steven C. Ford, am the legal owner(s) of the property located at 114 Dunn Ross Ct, Mooresville, NC, identified as PIN (Parcel Identification Number) 4626840782.000, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Benfield Outdoor Services & Solutions _____, 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.

Steven C. Ford
_____ 5/26/21
Signature of Owner(s) Date

Mooresville - Environmental Health
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
ronda.hart@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

318261
Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4626840782.000	114 DUNN ROSS CT	IREDELL COUNTY

Owner Information	Applicant Information
Name: FORD STEVEN C+KIMBERLY S	Name: BENFIELD OUTDOOR SERVICES AND SOLUTIONS
Address:	Address: 137 MISTY ARBOR LN MOORESVILLE, NC 28117
Phone:	Phone: (704)658-8616

Use Requested	Zone Code
SWIMMING POOL	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.885	0	10	10	10	WSIV-CA Catawba/Lake Norman	NO

Remarks

POOL

Swimming Pool: Must meet requirement R22 of the LDC. Pools shall be located to comply with minimum setbacks for accessory structures- located behind front building line of house, 10' from side & rear property line. Lake lots must meet the 50' setback from the 760 contour line AND the 35' setback from the rear property line. Pools that are not an integral part of the principal building shall be located at least the minimum distance from the principal building necessary to comply with N.C. Building Code. Setback from house could be +/-10'. Fenced with a minimum 4' in height, and equipped with self-closing and positive self-latching gate provided with hardware for permanent locking. Fence not required for above ground pools if they are at least 4' in height, the ladder removed, or when NOT in use have a gate to the ladder as described above.

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: 05/26/2021

Signature of Owner/Contractor

Permit Number	318261	TOTAL FEES:	$77.25