BLDR-2023-13762

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2023-13763

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

PIN # 4646-38-9167

APPLICANT / OWNER: Blake Capital LLC | APPLICANT ADDRESS: 750 Glendora Dr., Charlotte, NC 28212

SITE ADDRESS: 280 ELYSIAN DR, MOORESVILLE, NC 28117 | PHONE: | ALT. PHONE:

SITE DIRECTIONS: Brawley School to Williamson Rd. to Elysian Drive. | SAP CONTROLLED: YES ☐ NO ☒

SUBDIVISION: Idlewood Harbor | SECTION: 2 | LOT #: 71-72 | LOT AREA: | DESIGN FLOW: 480 | L.T.A.R.: .25

Septic Tank: (gal) 1000	STB: Infiltrator	Date:	☑ New System ☐ Repair ☐ Expansion	System Type: IV	☑ Residence	No. Bedrooms: 4	Water Supply: New Well
Pump Tank: (gal) 1000	PT: Infiltrator	Date:	System Description: Horizontal PPBFS -50% Reduction		☐ Business	No. Persons: 5	
Pump Make: Champion	Model: 1/2 HP	Serial #:	Repair System Description: Exempt		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 4	Linear Ft.: 320	Maintenance Agreement Required: ☑ YES ☐ NO		☐ Slab	☐ Crawl Space	
Trench Width: 36 in	Trench Bottom Depth (Low side): 27 in		Gravel Depth:	☐ GRAVITY ☑ PRESSURE	☑ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions:

INITIAL SITE SKETCH

This permit is issued pursuant to G.S. 130A-335 (a2), (a3) & (a4) using the signed & sealed LSS/LG Evaluation attached here from:

Coddle Creek Soil Consulting, LLC

LSS# 1291

AS BUILT SKETCH

Checked

Tank MW 6/30/23

Floats MW 6/30/23

Lines MW 6/30/23

Pressure Manifold MW 6/30/23

alarm/electrical 8/11/23 DW

Needs riser → on pump tank 8/11/23

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: | Installed By: Ryan Byers

IMPROVEMENT PERMIT by: Benjamin A Batten | Date: 2-2-2023 | OPERATION PERMIT by: Dwread | Date: 8/11/23

AUTHORIZATION TO CONSTRUCT by: Benjamin A Batten | Date: 2-14-2023 | 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

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

PERMIT # OSWP-2023-13763

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Pump Tank: (gal) 1000	PT:	Date:	System Description: Horizontal PPBPS - 50% Reduction		☐ Business	No. Persons: 5	
Pump Make:	Model:	Serial #:	Repair System Description: Exempt		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 4	Linear Ft.: 320	Maintenance Agreement Required: ☑ YES ☐ NO		☐ Slab	☐ Crawl Space	
Trench Width: 36 in	Trench Bottom Depth (Low side): 27 in		Gravel Depth:	☐ GRAVITY ☑ PRESSURE	☑ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions:

INITIAL SITE SKETCH

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Caddle Creek Soil Consulting, LLC

LSS# 1291

AS BUILT SKETCH

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Owner / Applicant Signature: | Date: | Installed By:

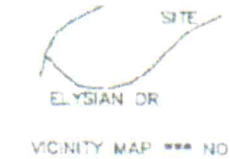
IMPROVEMENT PERMIT by: Benjamin A Batten | Date: 2-2-2023 | OPERATION PERMIT by: | Date:

AUTHORIZATION TO CONSTRUCT by: Benjamin A Batten | Date: 2-14-2023 | Existing System Inspected By: | Date:

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

10:47 AM Wed Dec 21
64%
Done
Zeb Survey 2 (16 of 16)





LAKE NORMAN

PB.15 PG.90

LICENSED SOIL SCIENTIST
STEVEN RANDAL CANNON
STATE OF NORTH CAROLINA
1291

L-3499
LAND SURVEYOR
WILLIAM M. ALLEN

Scale: 1" = 40'

Septic System:
Horizontal PPBPS

Yellow	76'	18 Panels
Pink	76'	18 Panels
White	84'	19 Panels
Blue	84'	19 Panels
	320'	74 Panels

Install panels at 27" trench bottom on downslope

Install panels and trenches level

T 69+70
NIFER L. &
SON K.
ESOE
1/1315

55'
213.08' TOTAL
PT ST
45'
Existing Well
45'
10'
Force Main minimum 10' off basement wall
House
50'
Basement Wall
66'
25'
2" Sch 40 Force Main
House 103' off road
Garage
35'
26'
N76°41'03"E
35'
Valve Box
5'
White
Blue
Pink
Yellow
10'
C1
C2
45'
15' SIDE
177.43'
S69°44'25"W

LOT 72
(0.47 AC.)

NEIGHBORS SPLIT RAIL FENCE ENCROACHES 0.25'

LOT 73
MMIT GROUP FUND

°27'40"E
23' TOTAL
ONLY)

N25°18'15"W
57.21'

CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	941.83'	109.98'	S 18°10'44" E	109.91'
C2	941.83'	62.77'	S 23°26'00" E	62.76'

ELYSIAN DRIVE
(60' R/W)

0' 20' 40' 100'
SCALE IN FEET

LEGEND

I.P. = EXISTING IRON FOUND
P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

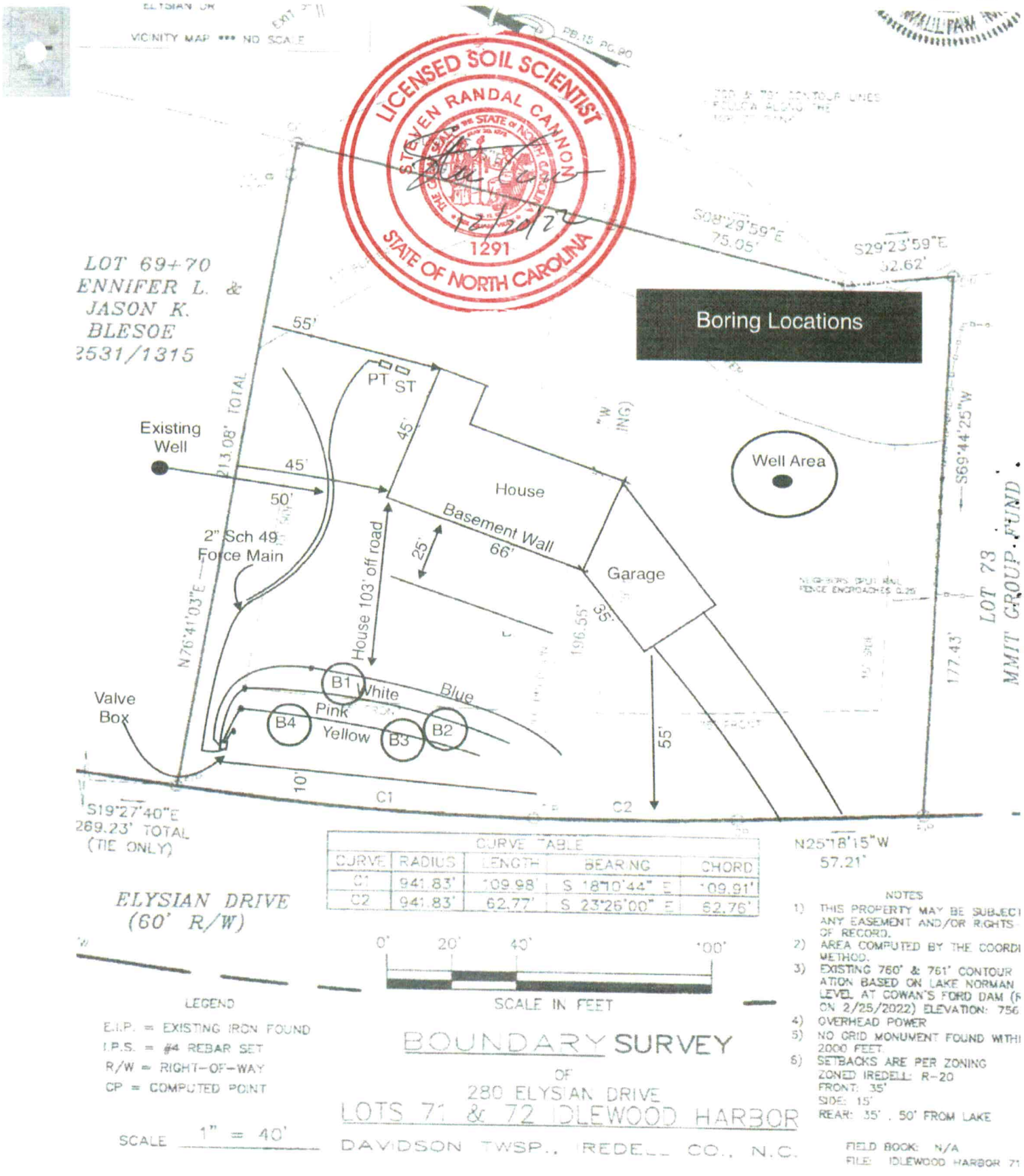
BOUNDARY SURVEY

OF
280 ELYSIAN DRIVE
LOTS 71 & 72 IDLEWOOD HARBOR

NOTES

1) THIS PROPERTY MAY BE SUBJECT ANY EASEMENT AND/OR RIGHTS-OF RECORD.
2) AREA COMPUTED BY THE COORDI METHOD.
3) EXISTING 760' & 761' CONTOUR E ATION BASED ON LAKE NORMAN LEVEL AT COWAN'S FORD DAM (R ON 2/25/2022) ELEVATION: 756.
4) ~~OVERHEAD~~ POWER
5) NO GRID MONUMENT FOUND WITHI 2000 FEET.
6) SETBACKS ARE PER ZONING ZONED IREDELL: R-20
FRONT: 35'
SIDE: 15'
REAR: 35', 50' FROM LAKE

10:55 AM Wed Dec 21
52%
Done
Zeb Boring Locations (2 of 500)



CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	941.83'	109.98'	S 18°10'44" E	109.91'
C2	941.83'	62.77'	S 23°26'00" E	62.76'

LEGEND

E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

SCALE 1" = 40'

BOUNDARY SURVEY

OF

280 ELYSIAN DRIVE

LOTS 71 & 72 IDLEWOOD HARBOR

DAVIDSON TWSP., IREDELL CO., N.C.

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6) SETBACKS ARE PER ZONING ZONED IREDELL: R-20
FRONT: 35'
SIDE: 15'
REAR: 35' . 50' FROM LAKE

FIELD BOOK: N/A
FILE: IDLEWOOD HARBOR 71

Sheet ___ of ___
PROPERTY ID #:
COUNTY: Iredell

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

OWNER: Zeb Campbell
ADDRESS: Zeb@majesticext.com
PROPOSED FACILITY: House PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 240 Elysian Dr. Mooresville, NC
WATER SUPPLY: ☐ Private ☐ Public ☑ Well ☐ Spring Other
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE:
DATE EVALUATED: 12/12/22
PROPERTY SIZE:
PROPERTY RECORDED:

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	OTHER PROFILE FACTORS PRO SOIL DEPTH	OTHER PROFILE FACTORS 1956 APRO CLASS	OTHER PROFILE FACTORS 1942 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 7%	0-2"	L gr	NS np		48"			PS .25
		2"-32"	C sbk	sp fi sep					
		32"-48"	C sbk	sp fi sep					
2	L 7%	0-3"	L gr	NS np		48"			PS .25
		3-25"	C sbk	sp fi sep					
		25"-40"	C wsbk	sp fi sep					
		40"-48"	C wsbk	sp fi sep					
3	L 7%	0-2"	L gr	NS np		48"			PS .25
		2-16"	CL wsbk	sp fi sep					
		16"-40"	C sbk	sp fi sep					
		40"-48"	C wsbk	sp fi sep					
4	L 7%	0-3"	L gr	NS np		48"			PS .3
		3"-25"	CL wsbk	sp fi sep					
		25"-48"	C sbk	sp fi sep					

LICENSED SOIL SCIENTIST
STEVEN RANDAL CANNON
1291
STATE OF NORTH CAROLINA
12/12/22

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	✓	Exempt
System Type(s)	H. PPBPS	Exempt
Site LTAR	.25	Exempt

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Steve Cannon
OTHER(S) PRESENT:

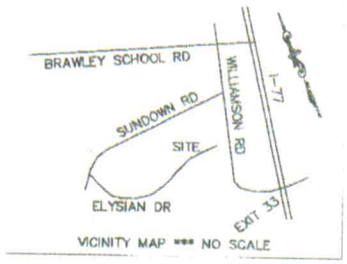
COMMENTS:

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 2772, page 176, and/or plat book 15, page 90, 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 28, day of FEBRUARY, A.D. 20 22.

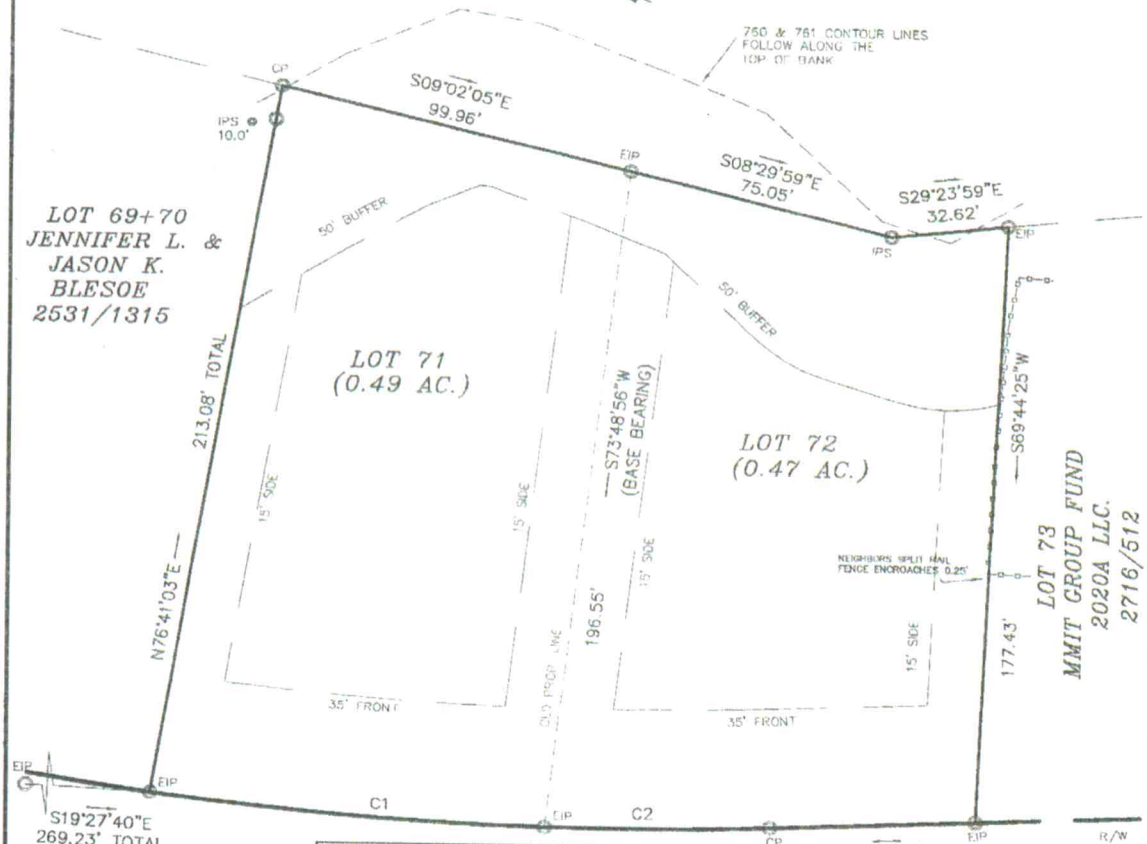
WILLIAM M. ALLEN, PLS

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



LAKE NORMAN

PB.15 PG.90



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ELYSIAN DRIVE (60' R/W)

R/W

0' 20' 40' 100'

SCALE IN FEET

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6) SETBACKS ARE PER ZONING
ZONED IREDELL: R-20
FRONT: 35'
SIDE: 15'
REAR: 35', 50' FROM LAKE

BOUNDARY SURVEY

OF

280 ELYSIAN DRIVE

LOTS 71 & 72 IDLEWOOD HARBOR

SCALE 1" = 40'

DAVIDSON TWSP., IREDELL CO., N.C.

ACQUIRED BY: MELINDA VANNA JENNINGS & SHAWN PATRICK JENNINGS

FIELD BOOK: N/A
FILE: IDLEWOOD HARBOR 71-72.DWG
DC FILE:
TAX MAP NO: 4646389167

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 1/27/2023 (Date) by BB (Initials)

Permit Number: OSWP-2023-13763

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

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

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

The following items are missing:

_____

_____

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

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

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

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: Benjamin A Botts Date of Issuance: 2/2/2023

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

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

Improvement Permit Expiration Date: 2/2/2028

See attached site sketch

Coddle Creek Soil Consulting, LLC
5500 Deer Run Court
Davidson, NC 28036
(704) 706 4645

December 20, 2022

Iredell County Environmental Health
Attention: Mr. Ben Botkins
349 Center Street
Statesville, North Carolina 28677

Subject: Recommended Wastewater Disposal System
280 Elysian Drive
Mooresville, North Carolina 28117
Pin # 4646389167
Zeb Campbell, Owner

Enclosed you will find a copy of the wastewater disposal system proposed for Zeb Campbell. The property is located at 280 Elysian Drive Lots 71 and 72 described as being Pin # 4646389167. Attached are sealed soil notes as well as site plans and designs for the on-site wastewater disposal system. This design is submitted under Session Law 2022-11 (S372). Please review the enclosed document presented to you. Please contact me for concerns regarding the wastewater disposal system design.

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

Owner: Zeb Campbell, Owner

Signature: _____

LICENSED SOIL SCIENTIST
STEVEN RANDAL CANNON
1291
STATE OF NORTH CAROLINA

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

Steve Cannon, LSS

Signature: Steve Cannon

County: Iredell

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

PIN/Lot Identifier: 4646389167

Issued To: Zeb Campbell

Property Location: 280 Elysian Drive Mooresville, NC 28117

Subdivision: Idlewood Harbor Lot #: 71,72 Block: _____ Section: _____

LSS Report Provided: Yes ☒ No ☐

If yes, name and license number of LSS: Steven R. Cannon #1291

New ☒ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: House

Proposed Wastewater System Type: Horizontal PPBPS (Initial) Exempt (Repair)

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

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): .25 Proposed LTAR (Repair): Exempt

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

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

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

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

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

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

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

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

Permit conditions:

Licensed Soil Scientist Print Name: Steven R. Cannon

Licensed Soil Scientist Signature: Steven R. Cannon Date: 12/20/22

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

See attached site sketch

Design Specifications for Proposed Wastewater Systems

Applicant: Zeb Campbell
Physical Address: 280Elysian Drive
Mooresville, North Carolina 28117
Pin # 4646389167
Idlewood Harbor
Lots 71 and 72
Acres: .96
Iredell County, North Carolina

Source of Water Flow	4 Bedroom House
Source of Water	Private Well
Wastewater Treatment System	Horizontal PPBPS
Septic Tank	1000 gallons
Pump Tank	1000 gallons
Estimated Daily Flow	480 gallons/day
Wastewater Treatment	Horizontal PPBPS
Loading Rate	.25 g/d/sq.ft.
Drainfield Size	74 panels
Slope	5 percent
Slope Correction	2 inches
Trench Bottom Depth	27 inches on downslope
Distribution Device	LPP Distribution

Nitrification Lines Elevation and Length

Applicant : Zeb Campbell
Physical Address: 280 Elysian Drive
Mooresville, North Carolina 28117
Pin # 4646389167
Idlewood Harbor
Lot: 71 and 72
Acres: .96
Iredell County, North Carolina

Initial

Line	Flag Color	Line Elevation	Flagged Length	Number of Panels
1	Yellow	2.89'	76'	18
2	Pink	4.02'	76'	18
3	White	4.66'	84'	19
4	Blue	5.72'	84'	19
			Total 320'	Total 74

Repair: Exempt

Applicant: Zeb Campbell
Physical Address: 280 Elysian Drive
Mooresville, North Carolina 28117
Pin # 4646389167
Idlewood Harbor
Lot 71 and 72
Acres: .96
Iredell County, North Carolina

Source of Wastewater Flow	4 Bedroom House
Estimated Daily Flow	480 gallons/day
Wastewater Treatment System	Horizontal PPBPS
Supply Line Diameter	2 inch Sch 40 PVC
Estimated Supply Length	130 feet
Supply Line Volume	22.62 gallons
Dosing per Panel	4 gallons
Dosing Volume	296 gallons
Orfice Size	3/16"
Number of Panels	74 panels
Flow Through Orfice	.59 g/m
Total Flow Through Orfices	43.66 gallons
Anti-Siphon Hole	Yes (3/16)
Distribution Device	Valve Box
Pressure Head	2 feet
Friction Head	1.98 feet
Elevation Head	26 feet
Total Dynamic Head	29.98 feet
Pump Tank Drawdown (may vary)	20.16 gallons per inch
Check Valve	In tank
Gate Valves	2 (1 in tank) (1 at valve box)
Threaded Union	In tank

Pump Time to Dose 296 gallons	6m 42s
Pump Time to Dose 480 gallons	10m 59s
Pump Block	4 inches
Pump Height	12 inches
Approximate Gallons at 16 inches in Pump Tank	322.56 gallons
Gallons between float on and alarm on	120.96 gallons
Pump Float On	30 11/16" off tank bottom
Alarm On	36 11/16" off tank bottom
Storage After Alarm Sounds	260.48 gallons (about 13 hrs.)