THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

RE: 424 Stillwater Drive

Date: June 20, 2016

Attached is the septic specification information required to permit 424 Stillwater Drive for an Improvement Permit and/or Construction Authorization Permit in Iredell County via the Expedited Review Process.

The attached information is not an Improvement Permit or an Authorization to Construct, and is only to assist the ICHD with permitting. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC Rules, which these specifications are in accordance with. If the ICHD wishes to change tank locations, distribution devices, etc they may do so at their discretion.

All information and specifications have been prepared in conjunction with ICHD permitting guidelines for the current lot owners to acquire an Improvement Permit and/or Authorization to Construct on this lot. It is ultimately the ICHD's responsibility to verify all specifications, including soil descriptions, before permitting and/or septic system installation.

APPROVED JUN 28 2016

LICENSED SOIL SCIENTIST
KATHLEEN M. SAUNDERS
1313
STATE OF NORTH CAROLINA

Kathleen Saunders

Falls Park Lot 7 Fast Track - The Oaks Group, PA

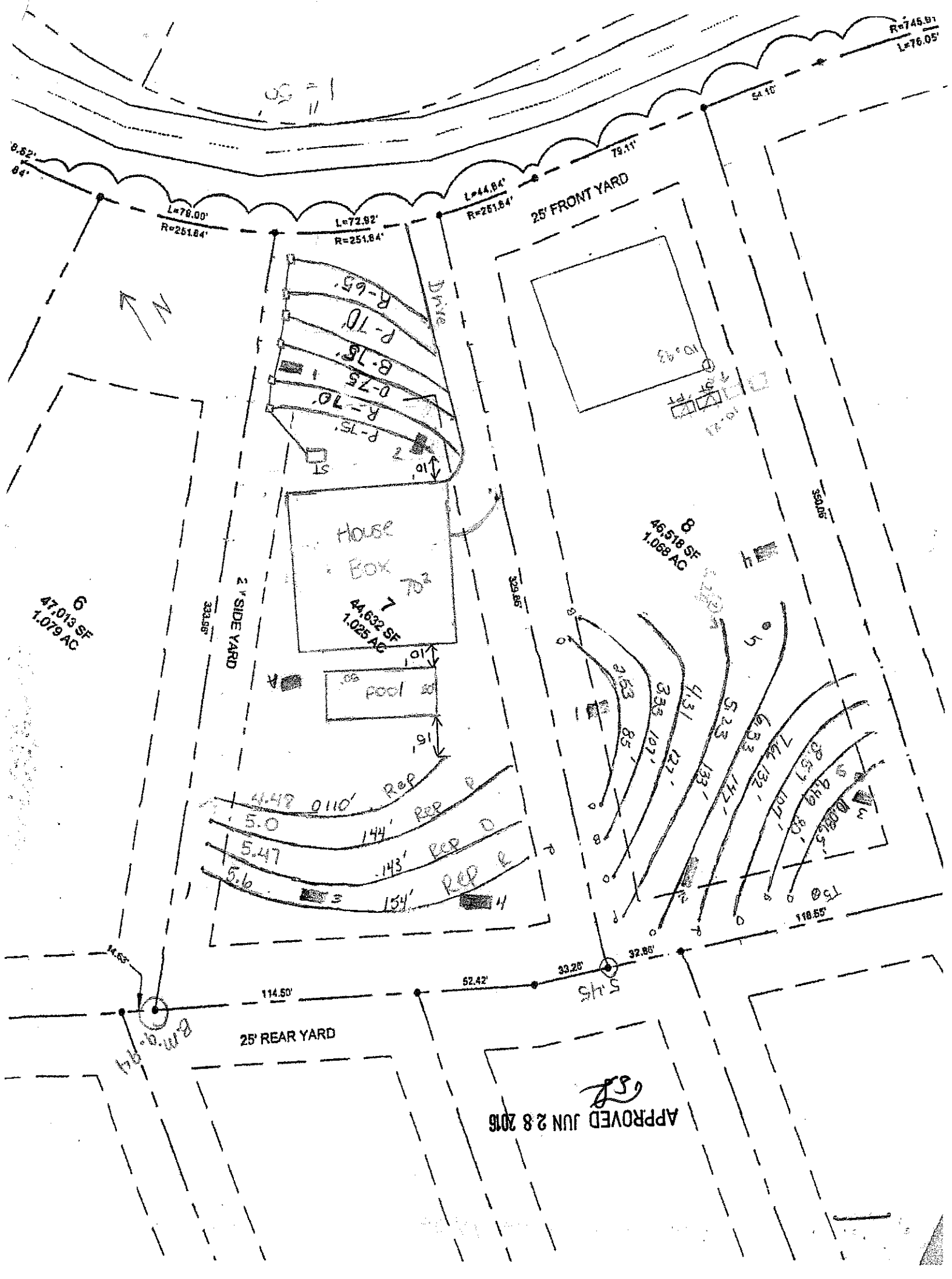
Number of Bedrooms	**5**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**600**
Primary System LTAR (gpd/ft2)	**0.35**
Primary System Type	**25% Reduction**
No. Lines	6 (See Table)
Total Linear Feet	430
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Drop Boxes
Tank Size	1500 gallon tank
Max Trench Bottom Depth (Low Side)	24"
Maintenance Agreement Required	No
Repair System	**25% Reduction**
Total Linear Feet	551
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	Repair	Red	25% Reduction	154
2	Repair	Orange	25% Reduction	143
3	Repair	Pink	25% Reduction	143
4	Repair	Orange	25% Reduction	110
5	System	Pink	25% Reduction	75 endfed
6	System	Red	25% Reduction	70 endfed
7	System	Orange	25% Reduction	75 endfed
8	System	Blue	25% Reduction	75 endfed
9	System	Pink	25% Reduction	70 endfed
10	System	Red	25% Reduction	65 endfed
				Total System: 430'
				Total Repair: 551'

Note: Keep proper setbacks to foundation drains
Distribution devices and tank locations can be altered at ICHD's discretion
Shave berms to prevent surface water from ponding
Tanks must be set to achieve gravity flow once final foundation placement is set

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R=745.91'
L=76.05'
79.11'
25' FRONT YARD
L=44.84'
R=251.84'
L=72.92'
R=251.84'
L=76.00'
R=251.84'
R-65'
R-70'
R-75'
B-75'
D-75'
R-70'
R-75'
Drive
House
Box
pool
6
47,013 SF
1.079 AC
7
44,632 SF
1.025 AC
8
46,518 SF
1.068 AC
333.99'
329.85'
350.05'
2' SIDE YARD
25' REAR YARD
114.50'
52.42'
33.26'
32.86'
118.55'
14.63'
S 45
N
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DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #: 462985427
COUNTY: Iredell

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

OWNER: Lovewell Homes / Falls Park LLC
ADDRESS: 424 Stillwater Troutman
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 600
LOCATION OF SITE: Lot 7 Falls Park
APPLICATION DATE 6/20/16
DATE EVALUATED: 6/14/16
PROPERTY SIZE: 1.025
PROPERTY RECORDED: post 1981

WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 10% pit front	0-15	Mo SBK C	FR SS/SP	R				0.35-0.4
		15-29	WK SBK CL	√	R; C/M SaP				
		29-120	MA MSL SaP	FR ns/np	multi	29"	PS	N/A	
2	L 10% pit front	0-8	Mo GR SL	FR ns/np	Br				0.35 w/36" TB
		8-30	Mo SBK C	FR SS/SP	R				
		30-45	WK SBK CL	FR SS/SP	R; C SaP	45"	PS	N/A	
		46-90	MA SL SaP	FR ns/np	multi				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% Red	Chamber
Site LTAR	0.35	0.3

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: KmS
OTHER(S) PRESENT: ELH

COMMENTS: N/A

APPROVED JUN 28 2016

Updated February 2014

DHHS

ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Liven Homes — APPLICATION DATE 6-20-16
ADDRESS: 501 Spring Crest Ft. mill SC 29715 — DATE EVALUATED: 6-22-16
PROPOSED FACILITY: 5BR House — PROPOSED DESIGN FLOW (.1949): 600 gpd — PROPERTY SIZE: 1.025
LOCATION OF SITE: 424 Sutherwater Rd Troutman Lot 7 - Falls Park — PROPERTY RECORDED: Yes
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1 Pit	Linear Side Slope 6%	0-5	Bake clay (RM) m. SBK/ABK	Firm, SS, SP, Sap	-	20	-	-	0.35
		5-13	W R Clay m. SBK	Firm, SS, SP, Sap					
		13-20	Clay Loam V. SBK some Saprolite	Friable SS, SP, Sap					
		20-66"	Loamy Saprolite massive	very friable, moderately Drained					
3 Pit	L SS Summit 5%	0-14	Clay m. ABK	Firm, SS, SP, Sap	-	40	-	-	0.325
		14-40	Clay Loam w. SBK	SI. Firm, SS, SP, Sap					
		40-54"	Loamy Saprolite (cracking)	very Friable + moderately Drained					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	430	551
System Type(s)	25% Reduction	25% Reduction
Site LTAR	0.35	0.325

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Tom Shuck
OTHER(S) PRESENT: Emma Helton

COMMENTS: Locations + Line lengths OK