RECEIVED JUN 3 0 2015

Revised
7-6-15 AP



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for Pine Knoll Pointe Lot 9; 761 McKendree; Iredell County, NC
House Footprint: 80' x 65' Attached Garage also shown.
Building Setbacks: 35' front/50'rear/15' side
Water Source: Private Well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.25 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: 25% Reduction
Distribution: Gravity-drop boxes/end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 36" for the initial system

Line	Design Length	Actual Length	Elevation
White 1	**120'**	**120'**	**Gravity**
Pink 2	**120'**	**120'**	**Gravity**
Blue 3	**120'**	**120'**	**Gravity**
Pink 4	48'		3'
White 5	63'		3.4'
Blue 6	63'		4'
Pink 7	53'		4.7'
Black 8	45'		4.9'
White 9	73'		5.6'
Black 10	52'		5.7'

Initial System: 362' **Repair System:** 398'

Comments:
The purpose of this evaluation was to change the permit to allow the pool to shift and be slightly larger than previously permitted. Please note the house is under construction. The proposed pool is marked in pink pin flags.

HC: 2.5' Left front of garage **BM:** 4.5' Front left p/l iron

Tax Parcel #
Being All of Lot
Property Address
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123 Pi

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ENGINEERI
Suite 101 Westfi
Phone (

Lo
#4626-
Now or
Wayne & M
Pine Knoll Po
Plat Book
Deed Book

Revised ALP
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PB 22
PG 112

#4 Rebar Found

N24°03'28"W 103.0
Tie Line

L1

#4 Rebar Found

S15°11'42"E 112.55'

Concrete Monument Found

S15°11'42"E 268.04'
Base of Bearing

AB5 AB4 AB3 AB2 AB1

35' BS

B, AB2 120'

Blue Flagging P6

P2 120'

Pink Flagging

W1 120'

P5

15'

36' Pool

15' SS

38.8'

27.50 5.00 25.00 8.00 11.00 15.7'

20.00 5.00 2.00 Covered Porch 49.50 13.00 11.00

21.00 21.00

Proposed Well

Proposed One Story House

27.92

11.00 15.7'

12.00

8.75 8.00 16.00 9.00 6.00 1.33 8.00 4.00

15' SS

N76°35'04"E 272.66'

S76°35'04"W 281.00'

46.88 45.99

Septic Pit P3

Lot #9 0.859 Acres 37,418 Sq. Ft.

15.7'

12.00 5.83 N 20° 6' E

Septic Flags

P3 45' 21.3' N 46° 63' E

B1 63'

P4

Septic Pit

B2 53' 36' 45' 73'

P2 W10

Septic Pit

BK1

Septic Pit

105.0'

P1

DRIVE

#4 Rebar Set

N13°24'56"W 136.00'

#4 Rebar Set

McKendree Road S.R. #1220
60' Public Right of Way

Paved Road

Lot #8
#4626-05-0348
Now or Formerly
Phillip & Vicki Thorne
Pine Knoll Pointe Subdivision
Plat Book 22 Page 112
Deed Book 901 Page 1812

Lot #10
#4626-05-1121
Now or Formerly
Troy & Kimberly Critchley
Pine Knoll Pointe Subdivision
Plat Book 22 Page 112
Deed Book 2261 Page 1822

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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: Lot 9; Pine Knoll Pointe
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Richard and Joanne West
ADDRESS: 123 Plantation Drive, Mooresville, NC 28117
PROPOSED FACILITY: 3-Bedroom Residence PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: Lot 9; Pine Knoll Pointe Subdivision; 761 McKendree Road

APPLICATION DATE
DATE EVALUATED: 01/16/2015
PROPERTY SIZE: 0.859 Acres
PROPERTY RECORDED: 11/06/2009

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)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
Pit 1	L 4-5%	0"-12"	Fill		N/A	48"		None	PS 0.25
		12"-48"	R C SBK/WSBK	SS SP FR SEXP					
Pit 2	L 4-5%	0"-15"	Fill		N/A	60"		None	PS 0.25
		15"-60"	R C SBK/WSBK	SS SP FR SEXP					
Pit 3	L 4-5%	0"-5"	Fill		N/A	48"		None	PS 0.25
		5"-48"	R C SBK/WSBK	SS SP FR SEXP					
Pit 4	L 4-5%	0"-7"	Fill		N/A	52"		None	PS 0.25
		7"-52"	R C SBK/WSBK	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1086 FT2	1194 FT2
System Type(s)	25% Reduction	25% Reduction
Site LTAR	.25	.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):

EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

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COUNTY: Iredell

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Pit 5	L 5-6%	0"-5"	Br SCL WSBK	SS SP FR SEXP	N/A	48"	n/a	None	PS 0.25
		5"-48"	R C ABK	SS SP FR SEXP					
Pit 6	L 5-6%	0"-2"	Br SCL WSBK	SS SP FR NEXP	Ybrs @ 40"	48"	n/a	None	PS 0.25
		2"-48"	R C ABK	SS-S SP-P FR SEXP					
AB #1	L 5-6%	0"-4"	Fill			48"	n/a	None	PS 0.3
		4"-48"	R C WSBK	SS SP FR SEXP					
AB #2	L 3-4%	0"-10"	Fill		Mn 10"-48"	48"	n/a	None	PS 0.3-0.25
		10"-48"	R C SBK	SS SP FR SEXP					
AB #3	L 3-4%	0"-18"	Fill		Chr. 2 @ 37"	37"	n/a	None	PS 0.25
		18"-37"	R C SBK	SS SP FR SEXP					

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
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DIVISION OF ENVIRONMENTAL HEALTH

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AB 4	L 3-4%	0"-12"	Fill		Chroma 2 @ 32"	20"	n/a	None	Unsuitable
		12"-32"	R C SBK	SS SP FR SEXP					
AB 5	L 5-6%	0"-29"	R C SBK	SS SP FR SEXP	Chroma 2 @ 32"	32"	n/a	None	PS 0.25
		29"-32"	R CL WSBK	SS SP FR SEXP					

COMMENTS:

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

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COUNTY: Iredell

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			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
Pit 1	L 4-5%	0"-12"	Fill			48"		None	.25
		12"-48"	R C SBK/WSBK	SS SP FR SEXP					
Pit 2	L 4-5%	0"-15"	Fill			60"		None	.25
		15"-60"	R C SBK/WSBK	SS SP FR SEXP					
Pit 3	L 4-5%	0"-5"	Fill			48"		None	.25
		5"-48"	R C SBK/WSBK	SS SP FR SEXP					
Pit 4	L 4-5%	0"-7"	Fill			52"		None	.25
		7"-52"	R C SBK/WSBK	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
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Site LTAR	.25	.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

COMMENTS:

SOIL/SITE EVALUATION

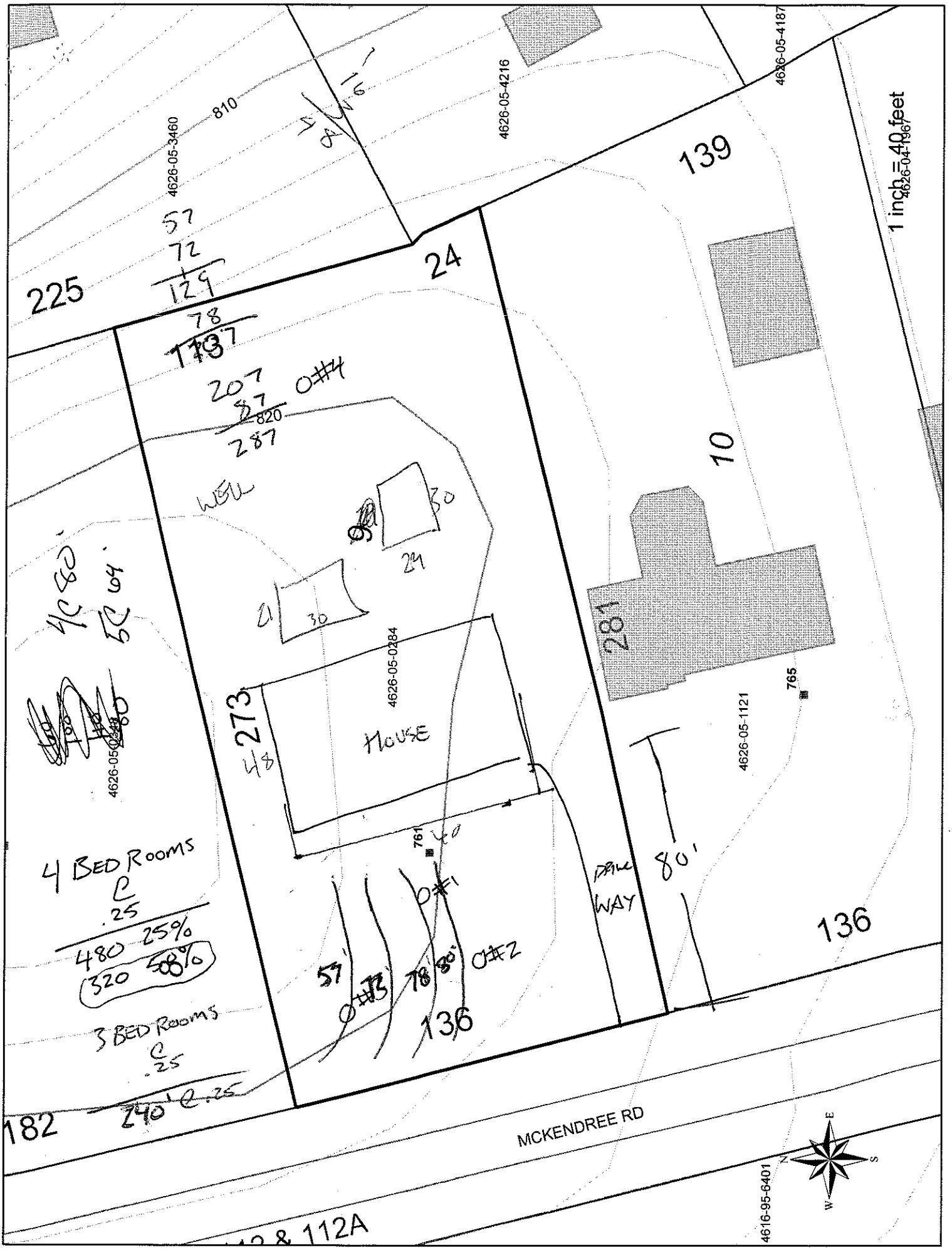
(Continuation Sheet)

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DIVISION OF ENVIRONMENTAL HEALTH

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Pit 5	L 5-6%	0"-5"	Br SCL WSBK	SS SP FR SEXP		48"	n/a	None	.25
		5"-48"	R C ABK	SS SP FR SEXP					
Pit 6	L 5-6%	0"-2"	Br SCL WSBK	SS SP FR NEXP	Ybrs @ 40"	48"	n/a	None	.25
		2"-48"	R C ABK	SS-S SP-P FR SEXP					

COMMENTS: _____


1 inch = 40 feet
4626-05-3460
4626-05-4216
4626-05-4187
4626-04-1967
4626-05-0284
4626-05-1121
4626-05-0348
4616-95-6401
225
24
139
10
136
182
810
57
72
129
78
207
287
820
WELL
30
29
273
48
HOUSE
761
765
281
80'
WAY
4 BED ROOMS
C
.25
480 25%
320 58%
3 BED ROOMS
C
.25
240 @ .25
MCKENDREE RD
112A
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DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

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

REFER TO TYPED SOIL NOTES

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

OWNER: _____
ADDRESS: _____ APPLICATION DATE _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ DATE EVALUATED: _____
LOCATION OF SITE: _____ PROPERTY SIZE: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____ PROPERTY RECORDED: _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

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1	< 2% L	0-11	SL/SCL MSBK	SS,NP,NE,FVFR	NA	49"	—	—	.25
		11-26	CMSBK	SSSPSEXPFR					
		26-40	CMSBK	SSSPSEXPFRM					
		40-49	CMSBK	STICKYFIRM					
2	11	0-10	SL/SCL MSBK	SS,NP,NE,FVFR	FEW DRAIN MOTTLES @ 29"				.25
		10-29	CMSBK	SSSPSEXPFRM					
		29-48	CMABK	STICKYFIRM	NA	48"	—	—	
3	11	0-10	CL WSBK	SSSPSEXPFR	FEW DRAIN MOTTLES @ 40"				.25
		10-40	CMSBK	SSSPSEXPFRM					
		40-48	CMABK	STICKYFIRM	NA	48"	—	—	
4	11	0-15	CMSBK	SSSPSEXPFR	DRAIN MOTTLES @ 46"	48"	—	—	.25
		15-48	CMSBK/ABK	SSSPSEXPFRM					

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

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____