APPROVED MAR 3 1 2016



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
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Reference: Data Sheet for 125 Leeward Shoals Ln., Chesapeake Pt Lot 112
House Footprint: See attached plan
Building Setbacks: 35' front/rear, 15' side
Water Source: Community water
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.25 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure manifold
Flow per Tap: 7.11 GPM
Tap Size and Material: ½" SCH 40
System Flow: 35.6 GPM
Dosing Volume: 210 gallons
Pump Run Time: 5.9 minutes
Elevation Head: 9.8'
Friction Head: 2.3'
Pressure Head: 2'
Total Dynamic Head: 14.1'
Supply Line Length: 95' 2" PVC
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36" maximum

Line	Design Length	Actual Length	Elevation
Orange 1	96'/85'	187'	2.6'
Yellow 2	96'/78'	180'	3.3'
Pink 3	96'/69'	171'	4.3'
Blue 4	96'/62'	164'	5.6'
Not flagged	96'/55'	157'	

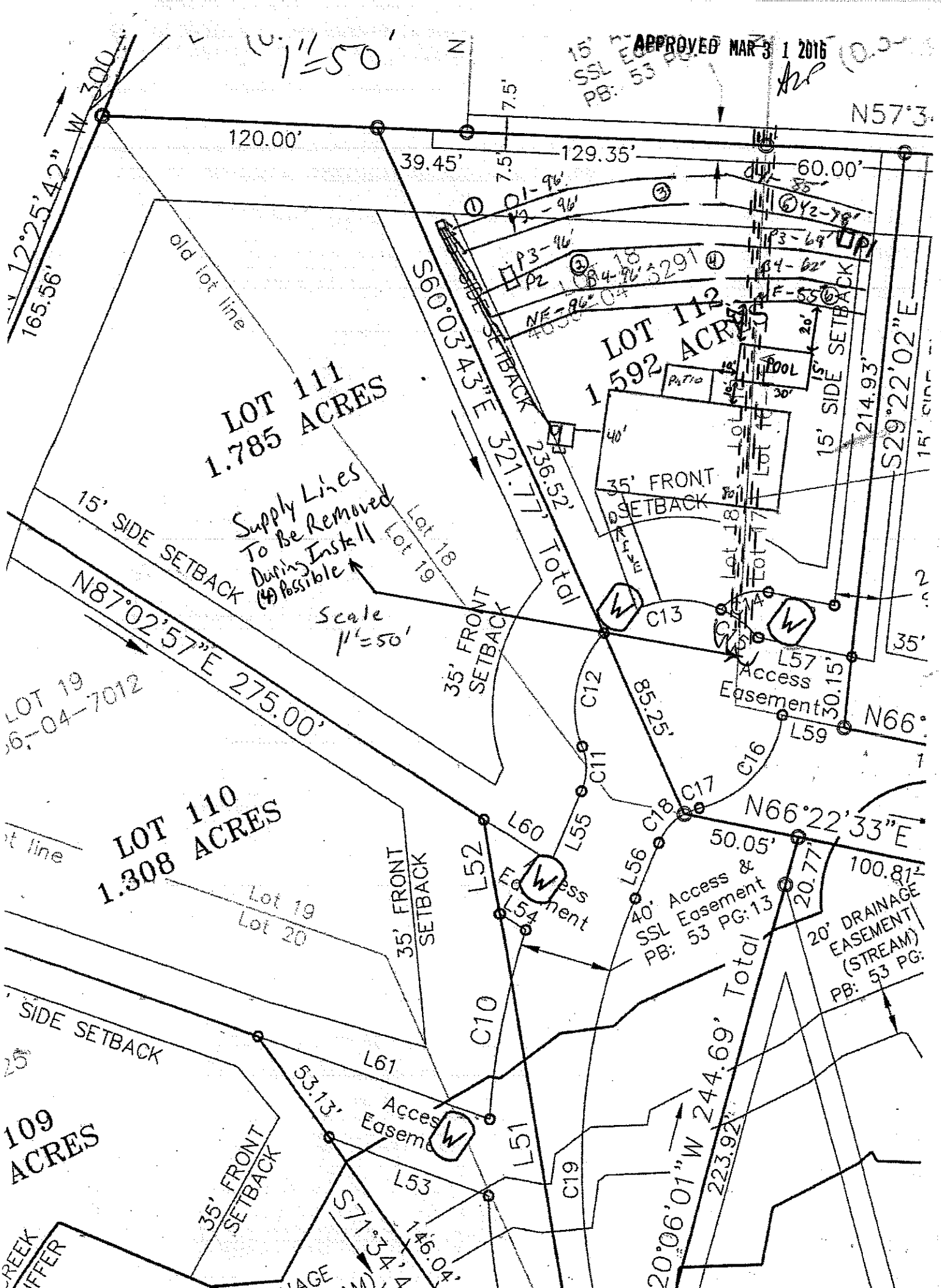
Initial System: 480' **Repair System:** 349'
Pump Tank: 7.4' **House Corner:** 7.8' **Benchmark:** 1.9'

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ALP

Comments:

Prior to the creation of a new lot and the adjustment of the lot lines, the supply lines for the off-site easements were installed in the previous supply line easement which followed the former lot line. The old easement now goes across this lot. Therefore, the installed supply lines must be removed from the new lot and the ditch must be back filled with clean soil and tamped.


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1"=50'
Scale 1"=50'
LOT 111
1.785 ACRES
LOT 112
1.592 ACRES
LOT 110
1.308 ACRES
LOT 109
ACRES
Supply Lines To Be Removed During Install (if) Possible
15' SIDE SETBACK
35' FRONT SETBACK
S60°03'43"E 321.77' Total
N87°02'57"E 275.00'
S29°22'02"E
214.93'
236.52'
120.00'
39.45'
129.35'
60.00'
165.56'
N12°25'42"W 300.
N57°3
N66°22'33"E
50.05'
100.81'
85.25'
30.15'
40' Access & SSL Easement PB: 53 PG: 13
20' DRAINAGE EASEMENT (STREAM) PB: 53 PG:
Access Easement
L57
L59
L60
L61
L52
L53
L54
L55
L56
L51
C10
C11
C12
C13
C14
C16
C17
C18
C19
POOL
PATIO
Lot 18
Lot 19
Lot 20
old lot line
S71°34'
146.04'
S20°06'01"W 244.69' Total
223.92'

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

Sheet _1_ *of* _2_
PROPERTY ID #: _____
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: CP II LLC _____ APPLICATION DATE _____
ADDRESS: 3125 Presidential Pkwy STE 200, Atlanta GA 30340 _____ DATE EVALUATED: _____
PROPOSED FACILITY: 4 bdrm _____ PROPOSED DESIGN FLOW (.1949): 480 GPD _____ PROPERTY SIZE: 1.592 AC _____
LOCATION OF SITE: 125 Leeward Shoals, Chesapeake Pt Lot 112 _____ PROPERTY RECORDED: 2016 _____
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	LS 8%	0-40	R C SBK	FR SS SP SEXP	N/A	48"	N/A	N/A	PS 0.3
		40-48	R CL WSBK	FR SS SP SEXP					
2	LS 6%	0-4	Br CL WSBK	FR SS SP SEXP	Few YB's @ 40"	48"	N/A	N/A	PS 0.3 TO 40" 0.275 > 40"
		4-48	R C SBK	FR SS SP SEXP					
3	LS 6%	0-12	RBr CL WSBK	FR SS SP SEXP	N/A	48"	Few SAP @ 38"	N/A	PS 0.3
		12-48	R C SBK	FR SS SP SEXP					
4	LS 6%	0-10	RBr CL WSBK	FR SS SP SEXP	N/A	48"	Few SAP @ 36"	N/A	PS 0.3
		10-48	R C SBK	FR SS SP SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT2	846 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): PS _____
EVALUATED BY: _____ MA&A _____
OTHER(S) PRESENT: _____

APPROVED MAR 3 1 2016

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _Ches Pt 112___
DATE OF EVALUATION: _____
COUNTY: _IREDELL_____

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	LS 6%	0-3	Br CL WSBK	FR SS SP SEXP	N/A	48"		N/A	PS 0.3
		3-40	R C SBK	FR SS SP SEXP					
		40-48	R CL WSBK	FR SS SP SEXP			F-C SAP		
6	LS 6%	0-44	R C SBK	FR SS SP SEXP	N/A	48"	N/A	N/A	PS 0.3
		44-48	R CLWSBK	FR SS SP SEXP					
P 1	LS 6%	0-7	Br SCL GR	FR SS SP SEXP	YB's 28"-40"	57"		N/A	PS 0.25
		7-19	R C SBK	FR SS SP SEXP					
		19-40	R C ABK	FI S P SEXP					
		40-57	R CL WSBK	FR SS SP SEXP			F-C SAP PS		
		57-65	SL/L SAP M	VFR SS SP SEXP					
P 2	LS 6%	0-11	Br SCL WSBK	FR SS SP SEXP		65"		N/A	PS 0.25
		11-30	BrR C ABK/SBK	FI S P SEXP					
		30-41	R C ABK	FI S P SEXP	Few YB LITHO				
		41-53	R C ABK	FI S P SEXP					
		53-65	R CL WSBK	FR SS SP SEXP			COM SAP		

COMMENTS: Pits 1 & 2 were evaluated with ICHD

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

PROPERTY ID #: _____
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: CP II LLC
ADDRESS: 3125 Presidential Pkwy STE 200, Atlanta GA 30340
PROPOSED FACILITY: 4 bdrm
PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: 125 Leeward Shoals, Chesapeake Pt Lot 112
APPLICATION DATE _____
DATE EVALUATED: _____
PROPERTY SIZE: 1.592 AC
PROPERTY RECORDED: 2016

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	
1	LS 8%	0-40	R C SBK	FR SS SP SEXP	N/A	48"	N/A	N/A	PS 0.3
		40-48	R CL WSBK	FR SS SP SEXP					
2	LS 6%	0-4	Br CL WSBK	FR SS SP SEXP	Few YB's @ 40"	48"	N/A	N/A	PS 0.3 TO 40" 0.275 > 40"
		4-48	R C SBK	FR SS SP SEXP					
3	LS 6%	0-12	RBr CL WSBK	FR SS SP SEXP	N/A	48"	Few SAP @ 38"	N/A	PS 0.3
		12-48	R C SBK	FR SS SP SEXP					
4	LS 6%	0-10	RBr CL WSBK	FR SS SP SEXP	N/A	48"	Few SAP @ 36"	N/A	PS 0.3
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DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
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SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&A
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: Ches Pt 112
DATE OF EVALUATION: _____
COUNTY: IREDELL

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
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		3-40	R C SBK	FR SS SP SEXP					
		40-48	R CL WSBK	FR SS SP SEXP					
6	LS 6%	0-44	R C SBK	FR SS SP SEXP	N/A	48"	N/A	N/A	PS 0.3
		44-48	R CLWSBK	FR SS SP SEXP					
A 1	LSS 4%	0-7	B SL Gr	Fr SS SP SExP		57"	PS	-	PS .25
		7-19	R C WFSBk	Fr S P SExP					
		19-40	R C MFABk	Fr S P SExP	few/com SAP, few YB 28-40"				
		40 57	R CL WFSBk	Fr SS SP SExP	com SAP, com R clay ves				
		57-68	Var SyL Sap Bk	Fr SS SP SExP					
A 2	LSS 4%	0-11	B SL Gr	Fr SS SP SExP		65"	-	-	PS .25
		11-30	R C WFABk/BkW	Fr S P SExP					
		30-41	R C MFABk	Fr S P SExP	few YB,				
		41-53	R C MFABk	Fr S P SExP	few Litho/SAP few YB				
		53-65	R CL WFSBk	Fr SS SP SExP	com SAP				

COMMENTS: _____