

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
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Reference: Data Sheet for Anniston Lot 152
House Footprint: 70' x 70'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 5/600 GPD
Predetermined LTAR: 0.35 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure Manifold
Flow per Tap: 5.48 GPM ✓
Tap Size and Material: ½" SCH80
System Flow: 32.88 GPM ✓
Dosing Volume: 188.1 GPM ✓
Pump Run Time: 5.7 minutes ✓
Elevation Head: 21
Friction Head: 4.16
Pressure Head: 2'
Total Dynamic Head: 27.16
Supply Line Length: 110
Septic/Pump Tank Size: 1500/1500
Proposed Trench Bottom: 30-36"

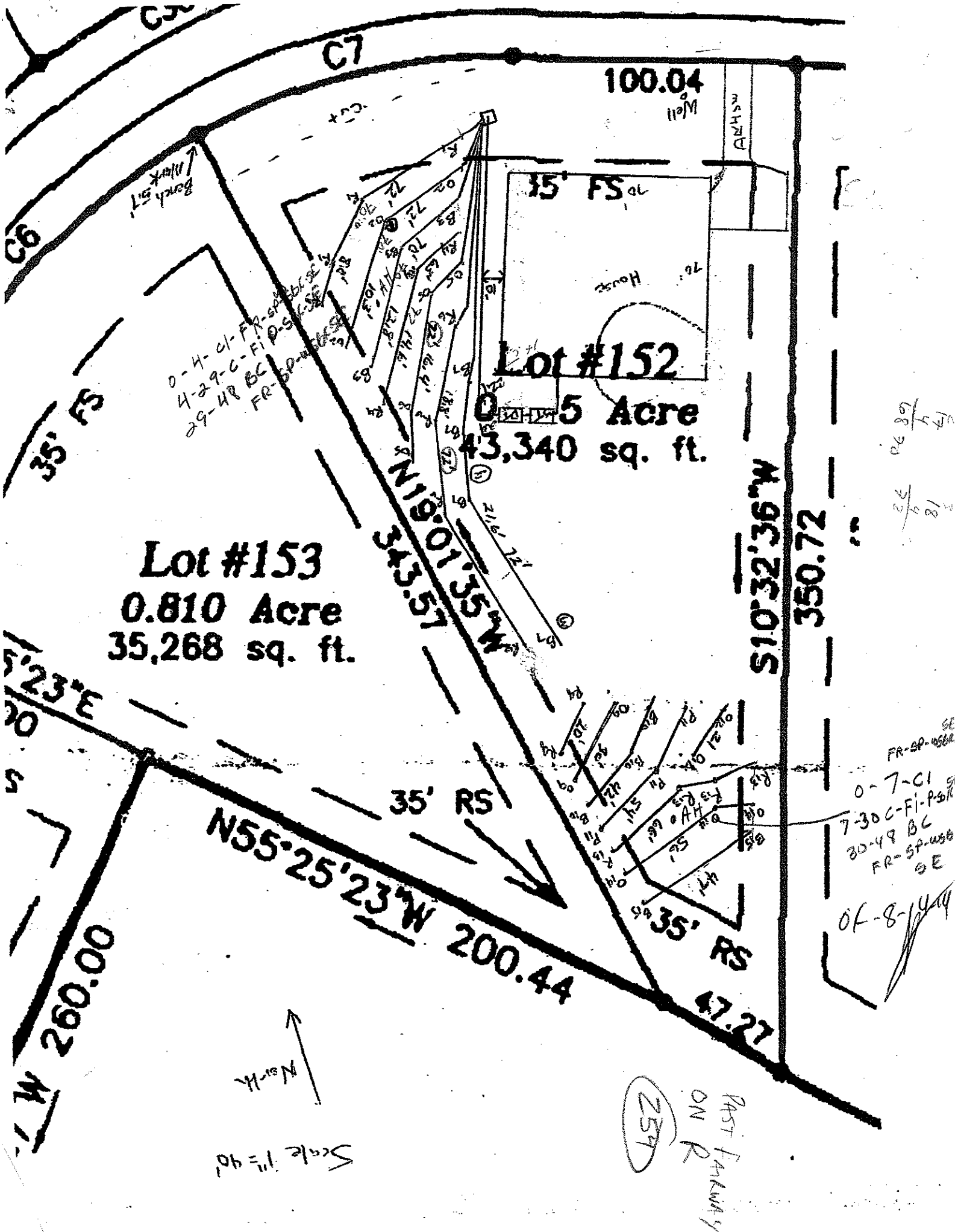
Line	Design Length	Actual Length	Elevation
Red 1	**72'**	**85'** ✓	**8.0'**
Orange 2	**72'**	**80'** ✓	**10.3'**
Blue 3	**70'**	**70'** ✓	**12.8'**
Red 4		63'	14.6'
Orange 5	**72'**	**75'** ✓	**16.4'**
Red 6	**72'**	**120'** ✓	**18.8'**
Blue 7	**72'**	**103'**	**21.6'**
Red 8		20' ✓	
Orange 9		30'	
Blue 10		42'	
Pink 11		54'	

OK - 8-14-14

Line	Design Length	Actual Length	Elevation
Orange 12		21' ✓	
Red 13		66' ✓	
Orange 14		56' ✓	
Blue 15		53' ✓	

Initial System: 430' **Repair System:** 405'
Pump Tank: 24.0' **House Corner:** 22.1' **Benchmark:** 5.7'

Comments:
Red 1-Blue 7 are new proposed septic lines. Red 8-Blue 15 were previously permitted repair by ICHD. Michael Athanas & Associates are proposing a new initial system and to keep the previous approved repair area. Please note house corners are in pink.


C7
C6
100.04
Well
Dr. House
15' FS
Bank St
Lot #152
0.5 Acre
43,340 sq. ft.
Lot #153
0.810 Acre
35,268 sq. ft.
35' FS
N19°01'35"W
343.57
S10°32'36"W
350.72
35' RS
N55°25'23"W 200.44
47.27
35' RS
W 260.00
Scale 1" = 40'
N
PAST FARMWAY ON R
254

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

Sheet __1__ *of* __1__
PROPERTY ID #: Lot 152; Anniston
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Shea Homes _____ APPLICATION DATE _____
ADDRESS: 8008 Corporate Center Drive; Suite 300; Charlotte, NC 28226 DATE EVALUATED: 6/4/2014
PROPOSED FACILITY: 5-Bedroom Residence PROPOSED DESIGN FLOW (.1949): 600 GPD PROPERTY SIZE: 0.995 Acres
LOCATION OF SITE: Lot 152; Anniston Subdivision; Walking Horse Trail PROPERTY RECORDED: _____
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: x 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	
AB 1	L 17-18%	0"-5"	Br SCL WSBK	SS SP FR NEXP		48"	Few saporlite inclusions at 40"	None	.3-.4
		5"-24"	R C SBK	SS SP FR NEXP					
		24"-48"	R CL WSBK	SS SP FR NEXP					
AB 2	L 10-12%	0"-24"	R C SBK	SS SP FR NEXP		48"		None	.3-.4
		24"-48"	R CL WSBK	SS SP FR NEXP					
AB 3	L 10-12%	0"-24"	R C SBK	SS SP FR NEXP		48"	Few to Common saporlite inclusions	None	.3-.4
		24"-48"	R CL WSBK	SS SP FR NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1290 ft2	1134 ft2
System Type(s)	25% Reduction	PPBPS
Site LTAR	.35	.35

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: Michael Athanas and Associates OK 6-14-14
OTHER(S) PRESENT: _____

COMMENTS: _____