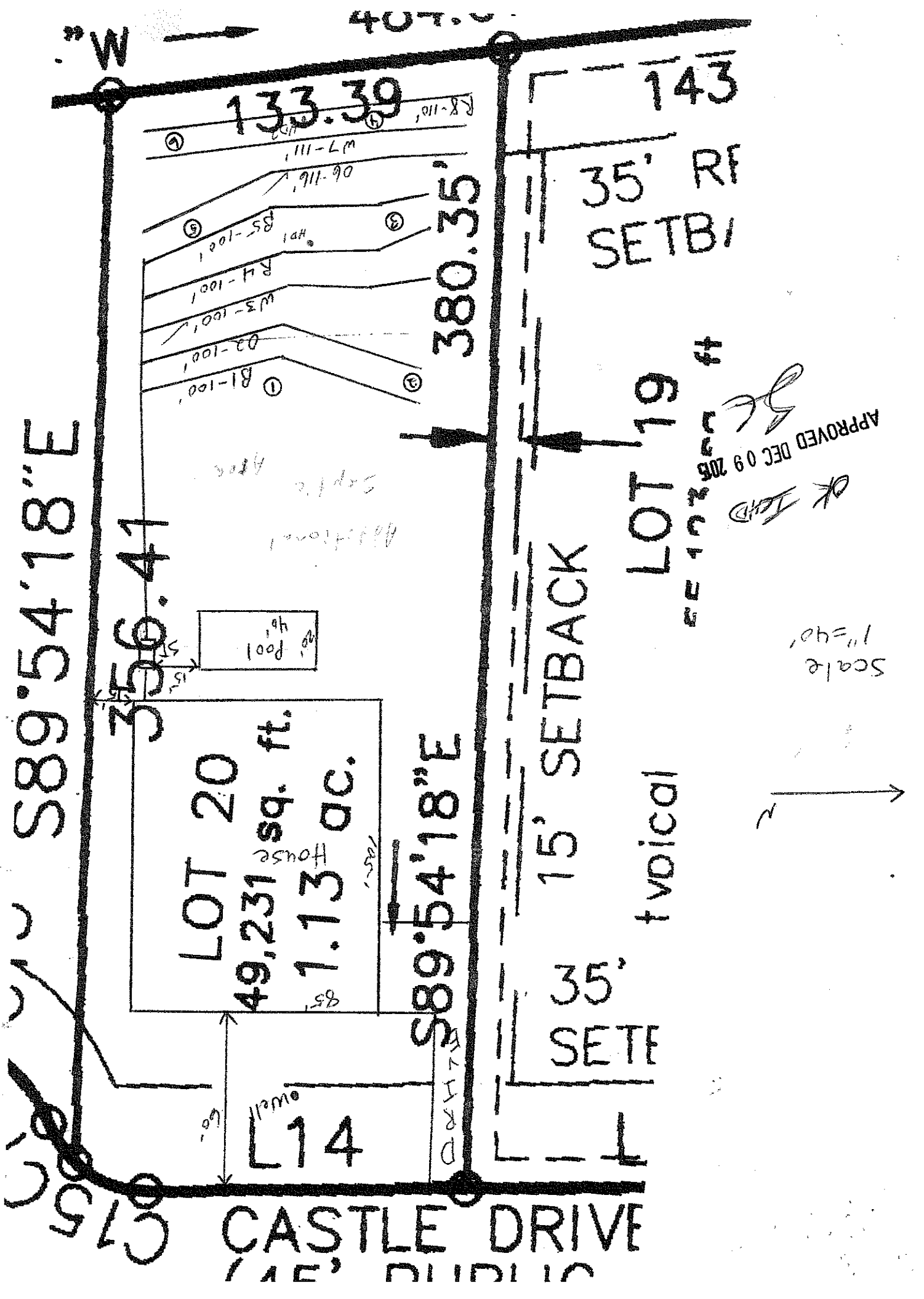

133.39
380.35
143
35' RF
SETBA
LOT 19
15' SETBACK
typical
35'
SETB
S89°54'18"E
356.41
LOT 20
49,231 sq. ft.
1.13 ac.
House
Pool
S89°54'18"E
L14
CASTLE DRIVE
APPROVED DEC 09 205
Scale
1"=40'



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

Reference: Data Sheet for 140 Castle Dr. Indian Forest Lot 20
House Footprint: 85' x 105'
Building Setbacks: 35' Front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 5/600 GPD
Predetermined LTAR: 0.3 GPD/FT2 (ICHD)
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Gravity-End cap/drop boxes
Septic Tank Size: 1500 gallons
Proposed Trench Bottom: 24-28"(initial), 28"(repair)

OK ICHD
APPROVED DEC 09 2015

Line	Design Length	Actual Length
Blue 1	**100'**	**115'**
Orange 2	**100'**	**114'**
White 3	**100'**	**116'**
Red 4	**100'**	**119'**
Blue 5	**100'**	**118'**
Orange 6		116'
White 7		111'
Red 8		110'

Initial System: 500' **Repair System:** 337'

Comments:
This lot is currently approved for a five bedroom residence by ICHD. MA & A are expanding the house box and adding a pool site. The soil area has been evaluated by ICHD previously. MA & A performed multiple soil observations to confirm the soils. There is additional approved soil area between the pool location and the first proposed septic line

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4648136028
COUNTY: Iredell

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

OWNER: JBR Custom Homes Inc
APPLICATION DATE
ADDRESS: 233 Kemp Rd, Mooresville, NC 28117
DATE EVALUATED:
PROPOSED FACILITY: 5 bdrm PROPOSED DESIGN FLOW (.1949): 600 GPD PROPERTY SIZE: 1.13 AC
LOCATION OF SITE: 140 Castle Dr., Indian Forest Lot 20 PROPERTY RECORDED: 7/10/2006
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 5%	0-29	R C SBK	FR SS SP	N/A	42"	F-C SAP	N/A	PS 0.3
		29-42	R CL WSBK	FR SS SP					
		42-48	SL SAP M	VFR SS SP					
2	LS 5%	0-24	R C SBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3
		24-48	R CL WSBK	FR SS SP					
3	LS 4%	0-6	Br CL WSBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3 SAP OBSERVED @ 42". OTHERWISE OK. (HDI) JE
		6-32	R C SBK	FR SS SP					
		32-48	R CL WSBK	FR SS SP					
4	LS 3%	0-24	R C SBK	FR SS SP	N/A	42"	F-C SAP	N/A	PS 0.3 OK JE (HDI)
		24-42	R CL WSBK	FR SS SP					
		42-48	SL SAP M	FR SS SP					

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DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1500 FT2	1011 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: JE

COMMENTS: Soil Wet Dry Despite Lots of Rain. 12/2/15

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4648136028
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	LS 3%	0-8	Br CL WSBK	FR SS SP	N/A	45"	F-C SAP	N/A	PS 0.3
		8-24	R C SBK	FR SS SP					
		24-45	R CL WSBK	FR SS SP					
		45-48	SL SAP M	FR SS SP					
6	LS 3%	0-6	FILL		N/A	46"	F-C SAP	N/A	PS 0.3
		6-19	Br CL WSBK	FR SS SP					
		19-38	R C SBK	FR SS SP					
		38-46	R CL WSBK	FR SS SP					
		46-48	SL SAP M	VFR SS SP					

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COMMENTS: _____