

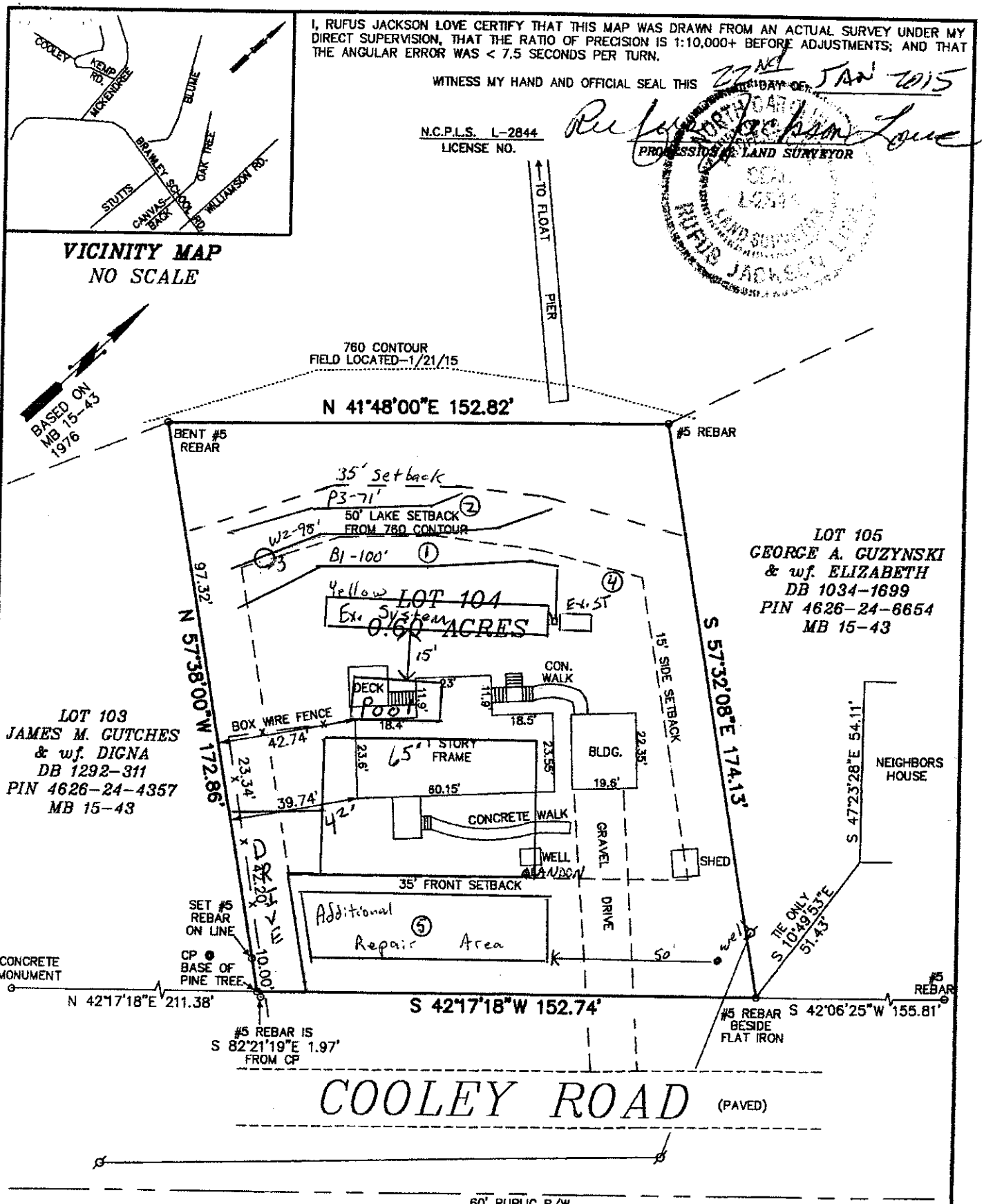
MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 150 Cooley Rd. CL&T Sec. 8 Lot 104
House Footprint: See attached plan
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: Existing + 25% Reduction
Proposed Repair System Type: Pretreatment 25% Reduction
Distribution: Gravity-distribution box/drop box
Septic Tank Size: Existing 1000 gallons
Proposed Trench Bottom: 32" maximum

Line	Design Length	Actual Length
Blue 1	**100'**	**129'**
White 2		98'
Pink 3		71'

Initial System: Existing + 100' **Repair System:** 169'

Comments:
This property has an existing three bedroom bed system (see attached permit). M A & Associates is proposing to expand the system to four bedrooms by adding 100' of 25% reduction line. A partial pretreatment system is laid out in the 50' buffer with possible additional repair area between the house and the road. Orange flags are the 50' setback. Red flags are the 35' setback. The system should be designed to fill the existing system first then the additional line. The existing well will be abandoned and a new well installed.



BOUNDARY/PHYSICAL SURVEY

FOR JOSEPH VALLEY & CHRISTINA ROGERS VALLEY

PROPERTY OF DAVID R. & BONNIE M. WILLIAMS

NOTES:

1. THIS PROPERTY LIES ON LAKE NORMAN.
2. AREA DETERMINED BY COORDINATE COMPUTATION.
3. CP DENOTES COMPUTED POINT, NO MONUMENT FOUND OR SET.
4. UNDERGROUND UTILITIES NOT LOCATED AS OF THIS DATE.
5. ALL MONUMENTS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.
6. NO GRID MONUMENTS WITHIN 2000' OF SUBJECT PROPERTY.
7. PROPERTY IS ZONED R-2

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

PROPERTY ID #: 4626245552
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Joseph Valley APPLICATION DATE
ADDRESS: 150 Cooley Rd., Mooresville, NC DATE EVALUATED:
PROPOSED FACILITY: 4 bdrm PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 0.60 AC
LOCATION OF SITE: 150 Cooley Rd., CL&T Sec 8 Lot 104 PROPERTY RECORDED: 8/23/1977
WATER SUPPLY: Ξ Private ☐ Public Ξ Well ☐ Spring ☐ Other
EVALUATION METHOD: Ξ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: Ξ Sewage ☐ Industrial Process ☐ Mixed

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
1	LS 5%	0-5	Br SCL WSBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3
		5-24	R C SBK	FR SS SP					
		24-48	R CL WSBK	FR SS SP					
2	LS 5%	0-3	Br SCL WSBK	FR SS SP	N/A	48"	F-C SAP C-M SAP	N/A	PS 0.3-0.35
		3-22	R C SBK	FR SS SP					
		22-40	R CL WSBK	FR SS SP					
		40-48	YR L WSBK	FR SS SP					
3	LS 5%	0-3	Br SCL WSBK	FR SS SP	N/A	46"	F-C SAP C-M SAP	N/A	PS 0.3-0.35
		3-22	R C SBK	FR SS SP					
		22-38	R CL WSBK	FR SS SP					
		38-46	YR L WSBK	FR SS SP					
		46-49	L SAP M	FR SS SP					
4	LS 5%	0-3	Br SCL WSBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3
		3-25	R C SBK	FR SS SP					
		25-48	R CL WSBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	EXS + 300 FT2	507 FT2
System Type(s)	25% Red + EXS	25% Reduction
Site LTAR	0.3	0.3

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

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 462624552
DATE OF EVALUATION: ____
COUNTY: IREDELL

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	
5	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					

COMMENTS: ____