

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

Reference: Data Sheet for 692 Beaten Path Rd., CL&T Sec.9, Lot 23
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: 25% Reduction
Proposed Repair System Type: LPPPBPS
Distribution: Pressure Manifold
Flow per Tap: 5.48 GPM
Tap Size and Material: ½" SCH 80
System Flow: 32.9 GPM
Dosing Volume: 175 gallons
Pump Run Time: 5.3 minutes
Elevation Head: 18.9'
Friction Head: 3.5'
Pressure Head: 2'
Total Dynamic Head: 24.4'
Supply Line Length: 140'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36" maximum

Line	Design Length	Actual Length	Elevation
White 1		32'	1.0'
Pink 2		33'	2.0'
Blue 3		40'	2.3'
Orange 4		41'	2.6'
White 5		53'	3.5'
Pink 6		60'	4.6'
Blue 7	**65'**	**65'**	**5.3'**
White 8	**67'**	**71'**	**6.3'**
Orange 9	**67'**	**78'**	**7.3'**
Blue 10	**67'** 69'	**84'**	**8.4'**

RF 12/11/14

OK MD 8/29/14

Line	Design Length	Actual Length	Elevation
Pink 11	**67'**	**90'**	**9.1'**
White 12	**67'**	**78'**	**10.0'**
Orange 13		36'	10.3'

Initial System: 400' **Repair System:** 295'
Pump Tank: 19.3' **House Corner:** 18.2' **Benchmark:** 5.4'

Comments:
The initial system is laid out on 9' centers and the repair system is laid out on 8' centers. This lot has an existing bed that will be abandoned. The existing well must be abandoned and a new one installed. The supply line must be installed 30" below the driveway or be sleeved.

SURVEYING – PLANNING – MAPPING
P.O. BOX 2727 (704) 399-9120
HUNTERSVILLE, NC 28070 FAX (704) 398-1226
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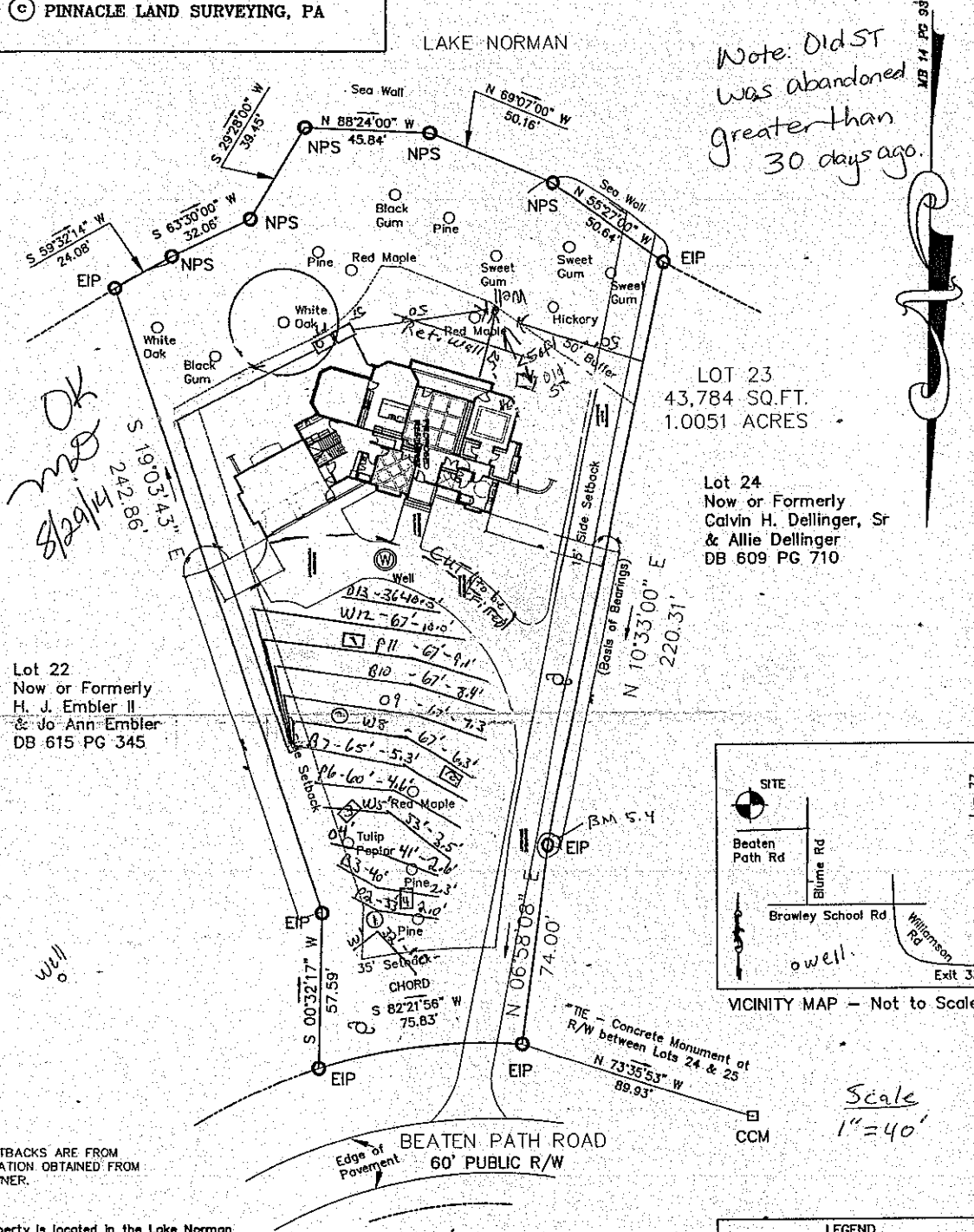
KLAUS E. KRUEGER PLS L-3808

A

8/29/14

Note: Old ST was abandoned greater than 30 days ago.

MB 14 PG 93



VICINITY MAP – Not to Scale

Scale 1"=40'

NOTE:
THE SETBACKS ARE FROM INFORMATION OBTAINED FROM THE OWNER.

This property is located in the Lake Norman Watershed Area.
There are several restrictions associated with this area which may apply to this property.

I certify that this survey was performed by me (Klaus E. Krueger), under my supervision.
This survey is of an existing parcel of land.
The Raw Error of Closure was better than 1:10,000.
I did not do a full title search on this property.

This House is not located within any Special flood hazard area as shown on Firm Maps of this area (Panel 370313 0200 B) Dated May 15, 1980

DATE of:
Survey 10/18/05
Drawing 10/18/05
Job No: 4294
File: 692BEATENPATH2
Drawn by: KEK

LEGEND			
SETBACK			
EASEMENT			
PROPERTY LINE			
LINES NOT SURVEYED			
FEATURE			
RIGHT OF WAY			
SET IRON PIN		SIP	
EXISTING IRON PIN		EIP	
CONCRETE MONUMENT		CCM	
NO PIN SET	NPS	WATER METER	
POWER POLE		CATCH BASIN	
SEWER MANHOLE	Ⓢ	LAMP POST	
UTILITY BOX		ELECTRIC BOX	

For Owner:
DOUGLAS CARROLL
Physical Survey of
692 BEATEN PATH ROAD
MOORESVILLE, NORTH CAROLINA 28117
DAVIDSON TOWNSHIP, IREDELL COUNTY

Map Recorded in Map Book 14 Page 93
Lot 23 Section 9, Crescent Land & Timber Corp.

Deed Recorded in Deed Book 1545 Page 2354
Tax Parcel # 000077407006

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

Sheet 1 *of* 2
PROPERTY ID #: 4627804199
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Doug Carroll
APPLICATION DATE
ADDRESS: 1508 Little Falls Dr., Concord, NC 28025
DATE EVALUATED: 1-28-14
PROPOSED FACILITY: 4 bdrm
PROPOSED DESIGN FLOW (.1949): 480 GPD
PROPERTY SIZE: 1.0051 AC
LOCATION OF SITE: 692 Beaten Path Rd, CL&T Sec. 9 Lot 23
PROPERTY RECORDED: 5/9/1977
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	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
PIT 1	LS 10%	0-3	Br SCL WSBK	FR SS SP	N/A	51"	Few SAP @ 46"	N/A	PS 0.3-0.35
		3-25	R C SBK	FR SS SP					
		25-51	R CL WSBK	FR SS SP					
PIT 2	LS 10%	0-4	Br CL WSBK	FR SS SP	N/A	53"	Com SAP	N/A	PS 0.3-0.35
		4-21	R C SBK	FR SS SP					
		21-53	R CL WSBK	FR SS SP					
PIT 3	LS 10%	0-8	FILL		N/A	53"	F-C SAP	N/A	PS 0.3
		8-25	R CL WSBK	FR SS SP					
		25-53	R C SBK	FR SS SP					
PIT 4	LS 4%	0-6	Br CL WSBK	FR SS SP	N/A	52"	Com SAP	N/A	PS 0.3-0.35
		6-14	R C SBK	FR SS SP					
		14-52	R CL WSBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT2	540 FT2
System Type(s)	25% Reduction	PPBPS
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 #: 4627804199
DATE OF EVALUATION: 1-28-14
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	
AB 1	LS 4%	0-2	Br SCL WSBK	FR SS SP	N/A	48"	Com SAP	N/A	PS 0.3
		0-30	R C SBK	FR SS SP					
		30-48	R CL WSBK	FR SS SP					
AB 2	LS 10%	0-20	R C SBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3-0.35
		20-48	R CL WSBK	FR SS SP					

COMMENTS: