

MICHAEL ATHANAS & ASSOCIATES, INC.
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
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Chad Goodin
684 Normandy Road
Mooresville, NC 28117

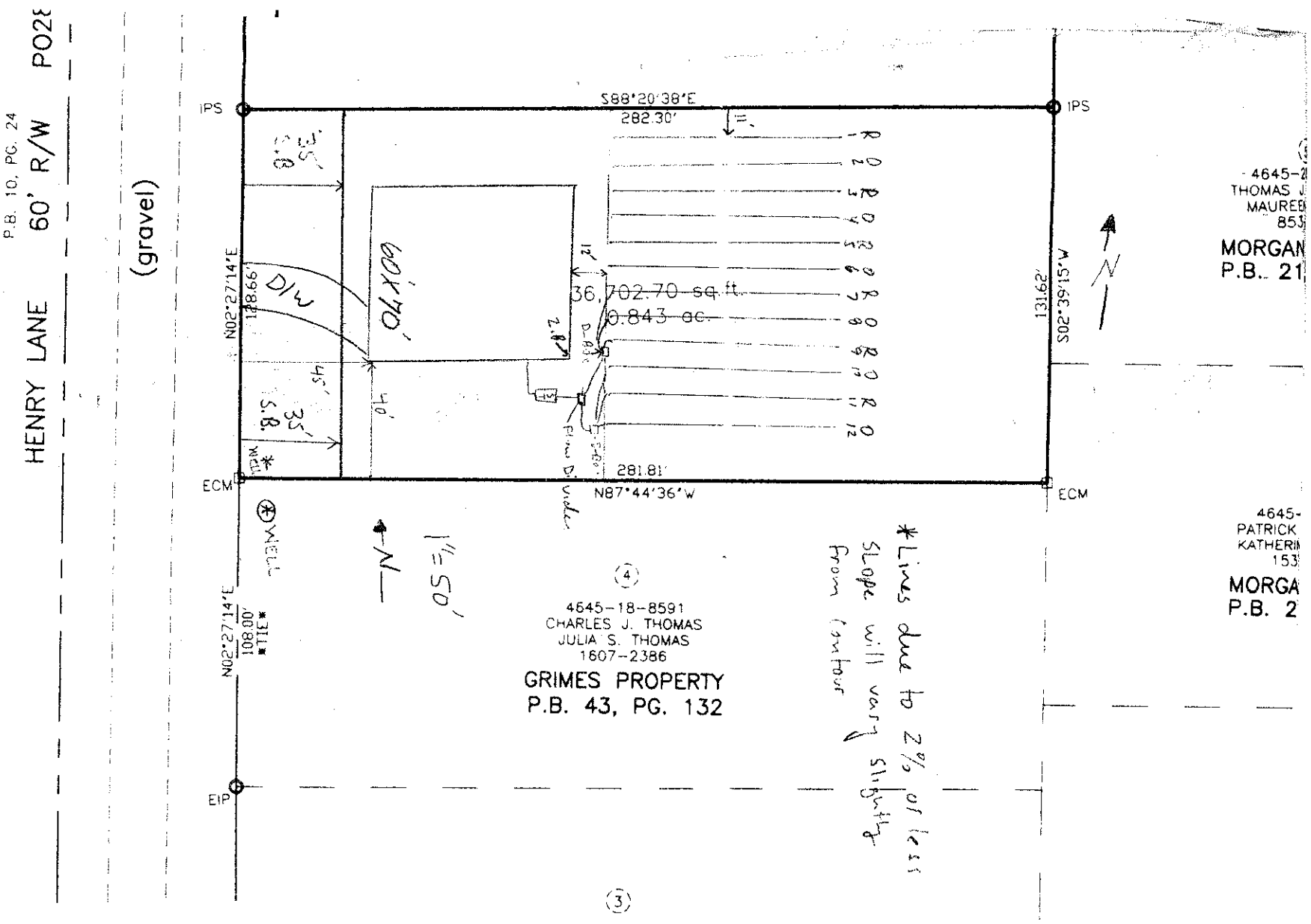
Reference: **Lot on Henry Lane/Refer to plat**

Number of Bedrooms/Proposed Daily Flow: **4/480gpd**
Proposed LTAR: **.25gpd/ft2, Initial System lines R7-O12,** Repair lines R1-O6
Water Source: **Private Well**
Building Envelope: **60' x 70'**
Building Setbacks: **35' x 15'**
Proposed System Type: **25% Reduction, IIIg**
Distribution: **S.T. to Flow Divider to Two D-Boxes (3 outlets/box)**
Trench Depth: **18" to 30"**
***Please note this lot has a two percent slope or less. Due to *Rule .1955 Design and Installation Criteria for Conventional Sewage Systems*, some of these linear lines will vary slightly from contour. Lines 1, 4, 8, and 12 elevations were shot at the start of the line, in the middle of the line and at the end of the line. Using Rise/Run none of these lines elevations exceeded 1.5% slope. An elevation was also shot horizontally from one side of the lot to the other side giving an elevation of 1.8% slope. Also three clinometer measurements were taken throughout the septic area and ranged in elevation from 1.0% to 1.5%**
***T.B.M & Elevations: N/A Gravity System**

Line	Length	Elevations
Red1	80'	Less than two percent
Orange2	80'	N/A
Red3	80'	
Orange4	80'	
Red5	80'	
Orange6	80'	
Red7	**80'**	
Orange8	**80'**	
Red9	**80'**	
Orange10	**80'**	
Red11	**80'**	
Orange12	**80'**	



***Any additions or omissions to this design to enhance its effectiveness are welcomed.**



ROPERTY IS SUBJECT TO ANY EASEMENTS
HT OF WAYS OF RECORD WHICH MAY EXIST
SAID PROPERTY

TOTAL AREA = 1.687 ACRES

NTS: _____

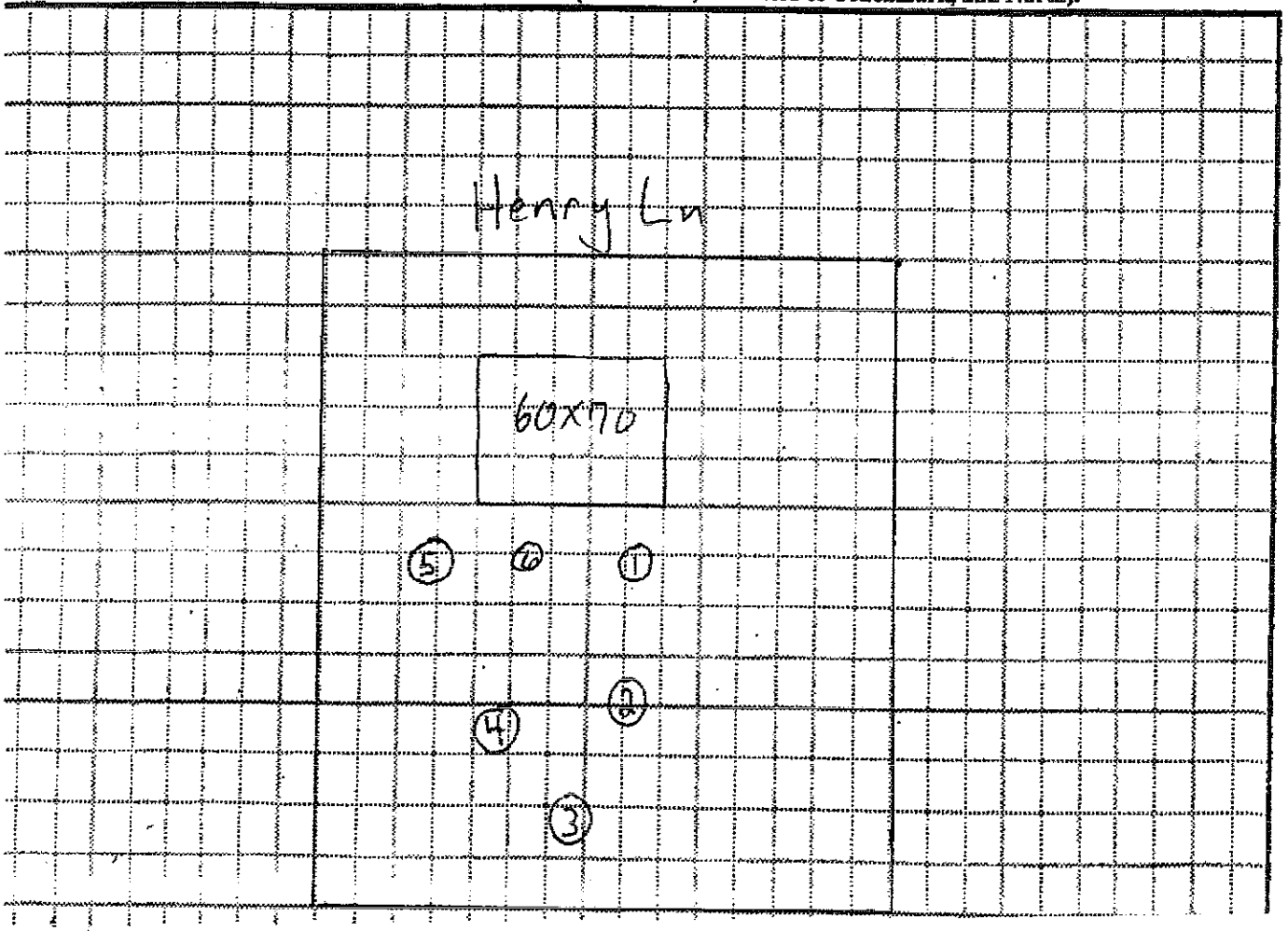
LEGEND

use the following standard abbreviations

...E POSITION	GROUP	TEXTURE	1955 LTAR	1957 LTAR	MINERALOGY/ CONSISTENCE	STRUCTURE
ive Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
ex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
ge Way)					EXP (Expansive)	CR (Crumb)
r Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
Plain)		L (Loam)				SBK (Subangular Blocky)
lope)						ABK (Angular Blocky)
lope)	III	SI (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
ilope)		SICL (Silty Clay Loam)				PR (Prismatic)
ope)		CL (Clay Loam)				
		SCL (Sandy Clay Loam)			MOIST	WET
r Slope)		SLC (Silt Loam Clay)				
)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SIC (Silty Clay)			FI (Firm)	S (Sticky)
					VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None		EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

DEPTH In inches below natural soil surface
FILL In inches from land surface
VE HORIZON Thickness and depth from land surface
E S(suitable) or U(unsuitable)
_____ Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
ATION S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)
of saprolite shall be by pits.
Acceptance Rate (LTAR): gal/day/ft²

Show profile locations and other site features (dimensions, reference or benchmark, and North).



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: Chad Gooden APPLICANT: Chad Gooden
ADDRESS: 687 Normandy Road APPLICATION DATE: DATE EVALUATED: 7-24
PROPOSED FACILITY: 4BR PROPOSED DESIGN FLOW (.1949): 480gpd PROPERTY SIZE: 36.702 Ac
LOCATION OF SITE: Henry Lane PROPERTY RECORDED:
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) 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	L 0-2%	0-6	Br. SCL WSBK	V.Fr. SS/SP SESP	Few Litho	48"	—	—	.25-.275
		6-20	Red Clay SBK	Fr-Fi SS/P SSP					
		20-40	Red Clay ABK	Fr-Fi SS/PSEP					
		40-48	RY. Clay WSBK	Fri SS/SP SSP	Few→Common Litho/Pm				
2	L 0-2%	0-9	R.Br. SCL WSBK	Fri SS/SP SESP	Few @ 33" Y-Brs	46"	—	—	0-43" .25
		9-43	R. Clay WSBK/ABK	Firm S/P SESP					
		43-46	RY Clay ABK	Firm S/P SESP	Common Chr 3/Mn				
		@ 46"	Chr 3-4 +2						
3	L 0-2%	0-16	R Br. SL/SCL Gr.	Loose NS/NP NSNP		48"	—	—	.25-.275
		16-23	R. Br. SCC WSBK	V.Fri SS/SP SSP					
		23-34	R. Clay SBK	Fr-Fi SS/PSEP					
		34-48	R. Clay ABK	Fr-Fi SS/PSEP	V. Few Y-Brs				
4	L 0-2%	0-13	R. Br. SL Gr.	Loose NS/NP NSNP	—	48"	—	—	.25-.275
		13-20	R. Br. SCL WSBK	Fri SS/SP SESP					
		20-45	R. Clay SBK/MSBK	Fr-Fi SS/PSEP					
		45-48	R. Clay ABK	Fr-Fi SS/PSEP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440ft²	1440ft²
System Type(s)	25% Red	25% Red
Site LTAR	.25	.25

OTHER FACTORS (.1946): Trench 18-24"
SITE CLASSIFICATION (.1948): 125
EVALUATED BY:
OTHER(S) PRESENT:

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ____ of
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Cont. of Sheet 1 / CHAD GOODIN APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: _____ PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LAND-SCAPE POSITION/ SLOPE %	HORI-ZON 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	PROFIL CLASS & LTAR
#1 5	L 0-2%	0-14	R. Bn. SL Gr.	Loose NS/NP NE	Few PM	48"	-	-	.25 .275
		14-19	R. Bn. SCL WSBK	Fri SS/SP SE/P					
		19-43	R. Clay SBK/ABK	F→Fi SS/PSE/P					
		43-48	R. Clay ABK	F→Fi SS/PSE/P					
2 6		0-14	R Brn SCL						PS .25
		14-19	R Brn SCL w/SBK	FR SS SP SE					
		19-43	R Clay SBK/ABK	F-Fr SS, SP, SE					
		43-48	R C J ABK	F Fr SS, SP SE					
			Some lighter mottles (drainage)						
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____