DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 4711310741
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Christopher Bonn
ADDRESS: 13418 Binnaway Rd.
PROPOSED FACILITY: 4 BR SFD PROPOSED DESIGN FLOW (.1949): 480gpd
LOCATION OF SITE: 120 Northgate Dr.
WATER SUPPLY: • Private • Public • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • Pit • Cut TYPE OF WASTEWATER: • Sewage • Industrial Process • Mixed

APPLICATION DATE 12-12-13
DATE EVALUATED: 1-13-14
PROPERTY SIZE: 1.337 acres
PROPERTY RECORDED: Yes

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
1	22% NS	0-3	CL SBK	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.3
		3-19	C SBK	Fi Mod SE					
		19-48	CL micaceous WSBK	Fr Mod SE					
2	22% NS	0-4	SCL SBK	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.275
		4-28	C micaceous SBK	Fi Mod SE					
		28-48	CL micaceous WSBK	Fr Mod SE					
3	20% NS	0-5	SCL SBK	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.275
		5-25	C micaceous SBK	Fi Mod SE					
		25+48	CL micaceous WSBK	Fr Mod SE					
4	20% NS	0-6	SCL SBK	Fr Mod SE	>48"	>48"	>48"	>48"	PS 0.275
		6-24	SCL SBK	Fi Mod SE					
		24-48	CL WSBK	Fr Mod SE					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	II	II
Site LTAR	0.275	0.275

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Justin Henderson & Heath Snow
OTHER(S) PRESENT: N/A

COMMENTS: N/A

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)			**MOIST**	**WET**
R (Ridge)		SCL (Sandy Clay Loam)			VFR (Very Friable)	NS (Non-sticky)
S (Shoulder Slope)		SiL (Silt Loam)			FR (Friable)	SS (Slightly Sticky)
T (Terrace)					FI (Firm)	S (Sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		SiC (Silty Clay)			EFI (Extremely Firm)	NP (Non-plastic)
		C (Clay)				SP (Slightly Plastic)
		O (Organic)	None	None		P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

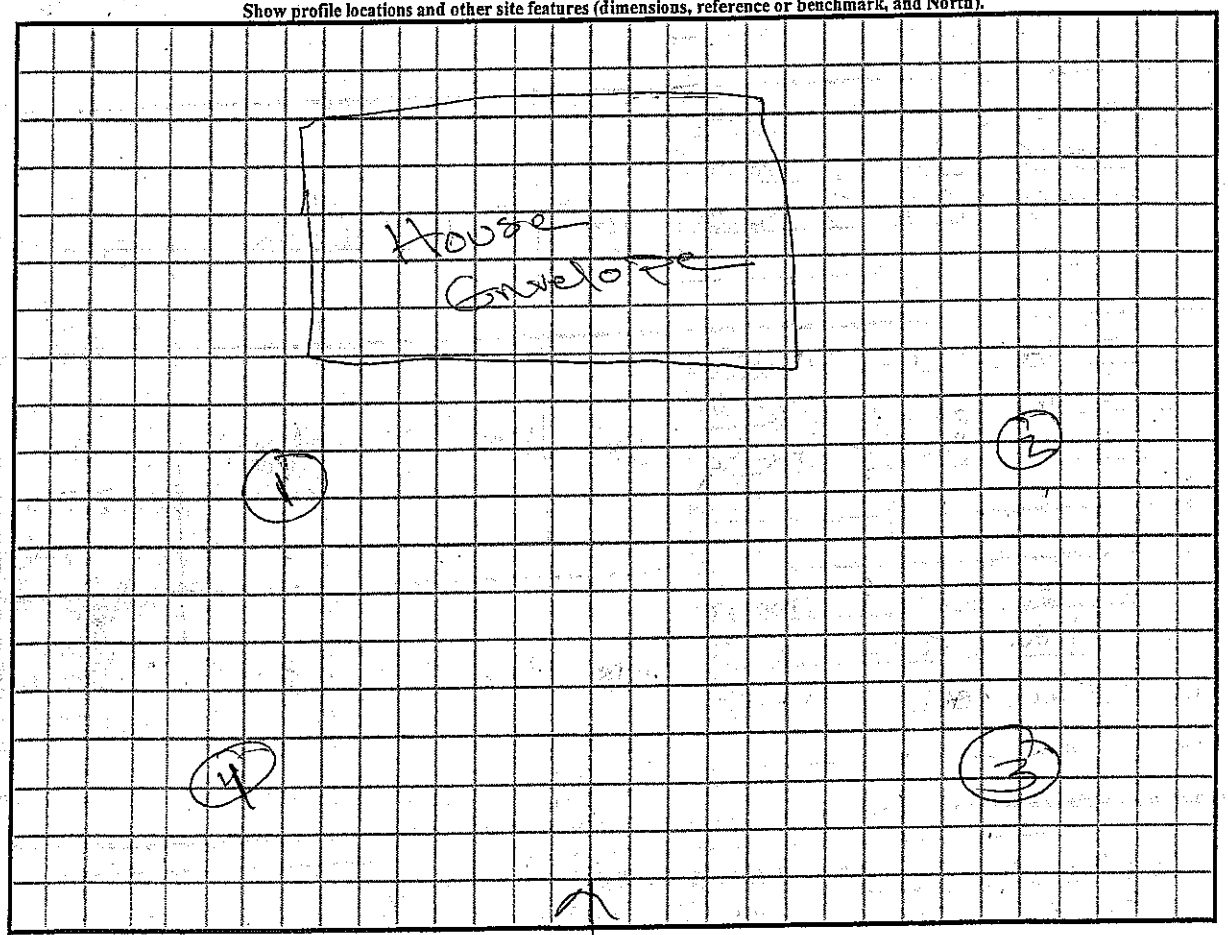
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	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
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

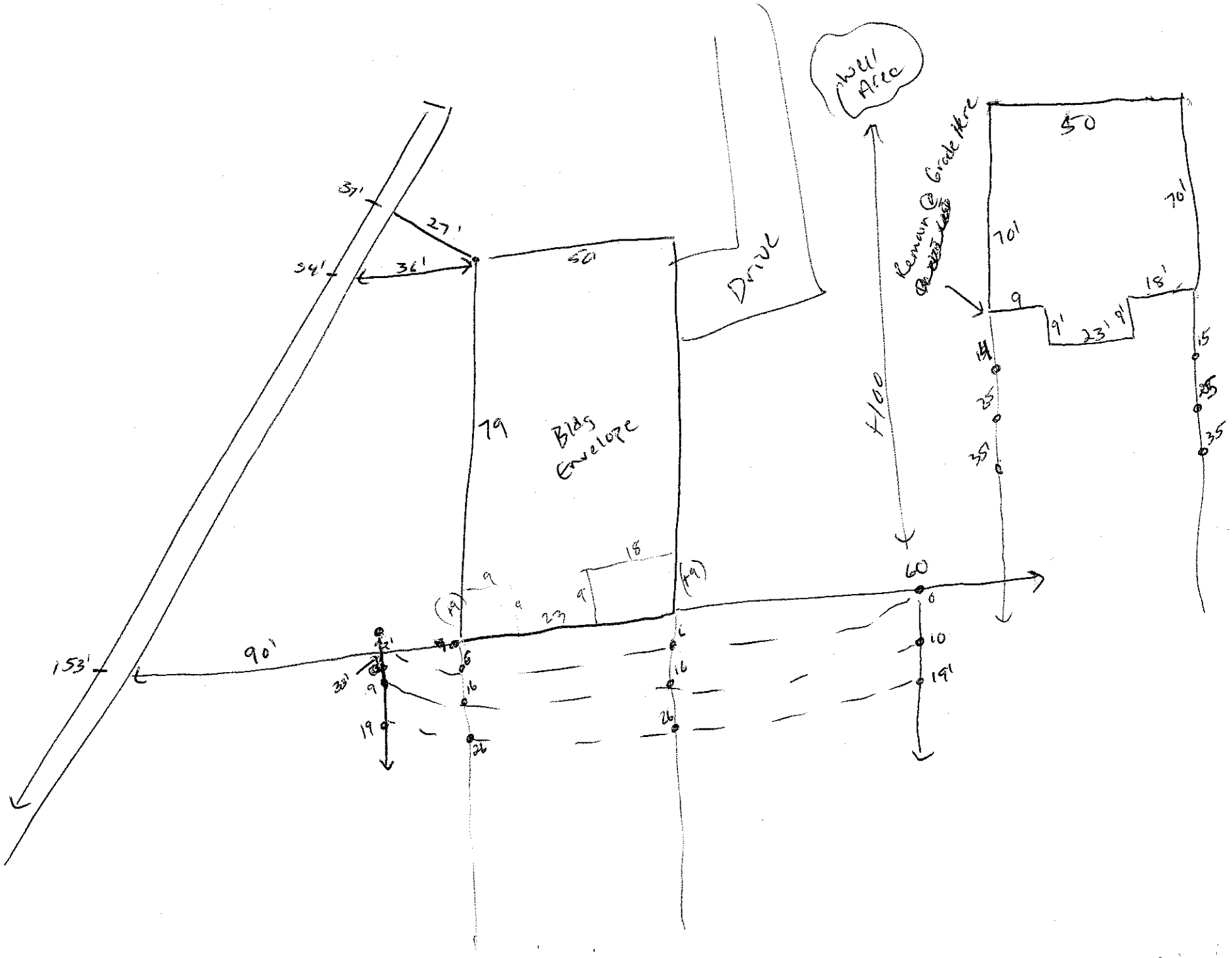
Long-term Acceptance Rate (LTAR): gal/day/ft^2

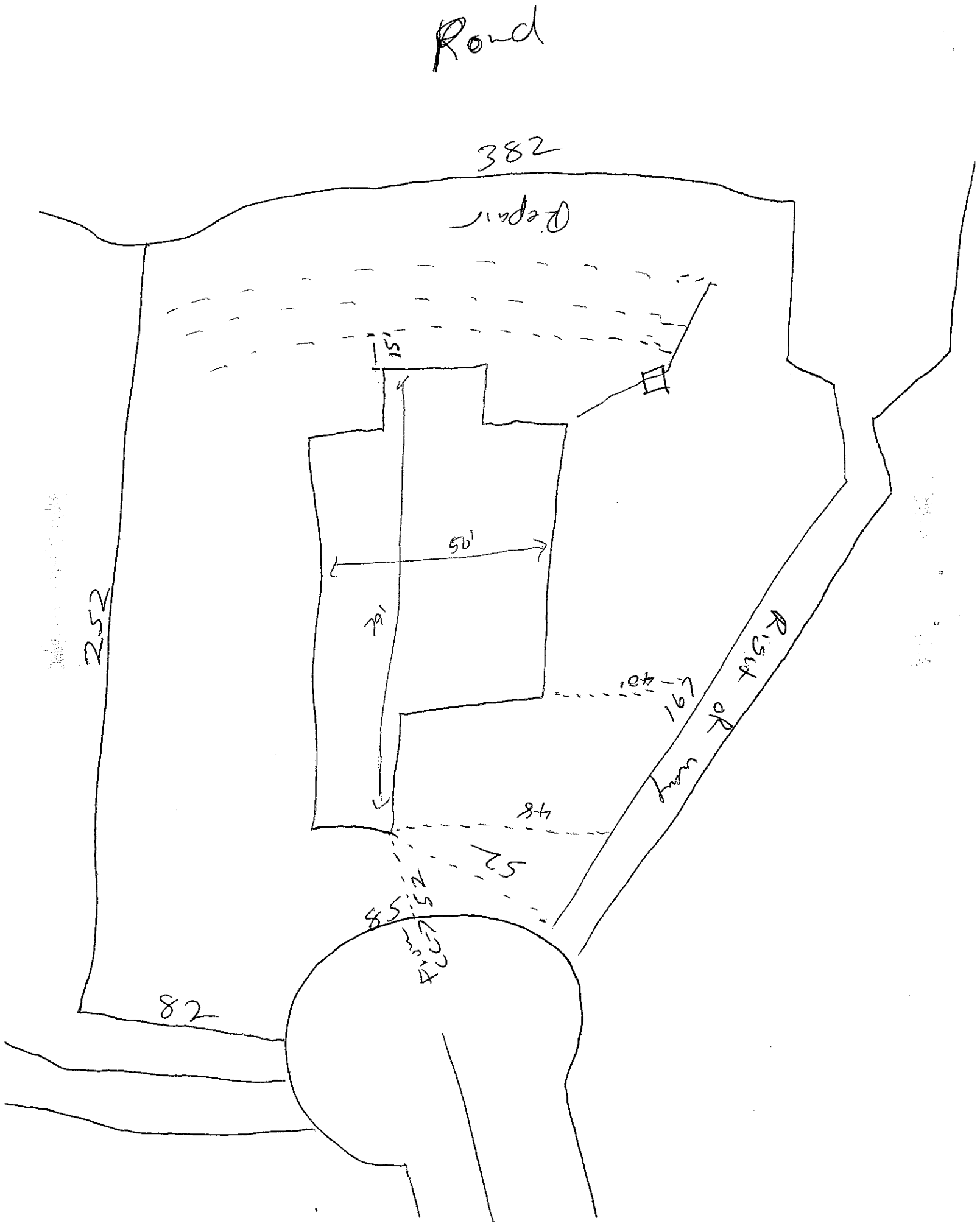
Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (######)
Review (#####)

Tank: Inf/Harlan 1060 STB - 2071-1060.
well: Not Installed yet 3/10/2014
Lic Septic: 4411 Lic Contractor


Well Area
Drive
Bldg Envelope
Lemon @ Grade here
50
70'
70'
18'
9'
23'
9'
9
37'
27'
34'
36'
50
79
18
9
23
9
(79)
(79)
60
153'
90'
32'
30'
9
19
16
26
16
26
10
19'
35
35
35
15
35
35
Y/100


Road
382
Depth
15'
50'
79'
252
167
Bank of Run
82
85.12
75
4'