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

Sheet 1 of 1
PROPERTY ID #: 4732511943
COUNTY: Iredell

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

OWNER: Travis Cooke — APPLICATION DATE: 9-22-15
ADDRESS: PO Box 58 Cornelius Rd — DATE EVALUATED: 10-16-15
PROPOSED FACILITY: SFD — PROPOSED DESIGN FLOW (.1949): 480gpd — PROPERTY SIZE: 0.45acres
LOCATION OF SITE: 108 Autumn Mist Dr. — PROPERTY RECORDED: Yes
WATER SUPPLY: ☐ Private ☑ Public ☐ Well ☐ Spring ☐ Other N/A
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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	4% HS	0-7	SCL SBK	Fr Mod SE	+60"	+60"	+60"	+60"	PS 0.275
		7-36	C Few Y/B Mottles CL ABK	Fi Mod SE					
		36-60	BC micaWABK	Fr Mod SE					
			Sap Incl.						
2	7% HS	0-9	SCL GR	Fr Mod SE	+60"	+60"	57"	+60"	PS 0.25
		9-44	C Y/B Mottles SABK	Fi Mod SE					
		44-57	BC Sap Incl WABK	Fr Mod SE					
		57-60	SAP L M	Fr Mod SE					
3	4% HS	0-6	SCL SBK	Fr Mod SE	+60"	42"	42"	+60"	PS 0.3
		6-28	C ABK	Fr Mod SE					
		28-42	BC Sap Incl WSBK	Fr Mod SE					
		42-60	SAP SL M	Fr Mod SE					
		Variable	SAP	horizon					
4	3% HS	0-12	SCL GR	Fr Mod SE	+60"	50"	50"	+60"	PS 0.3
		12-33	C ABK	Fi Mod SE					
		33-50	BC Sap Incl WABK	Fr Mod SE					
		50-60	SAP SL M	Fr Mod SE					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	IV	IV
Site LTAR	0.3	0.25

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

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05		
		O (Organic)	None	None		

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
EFI (Extremely Firm)	NP (Non-plastic)
	SP (Slightly Plastic)
	P (Plastic)
	VP (Very Plastic)

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

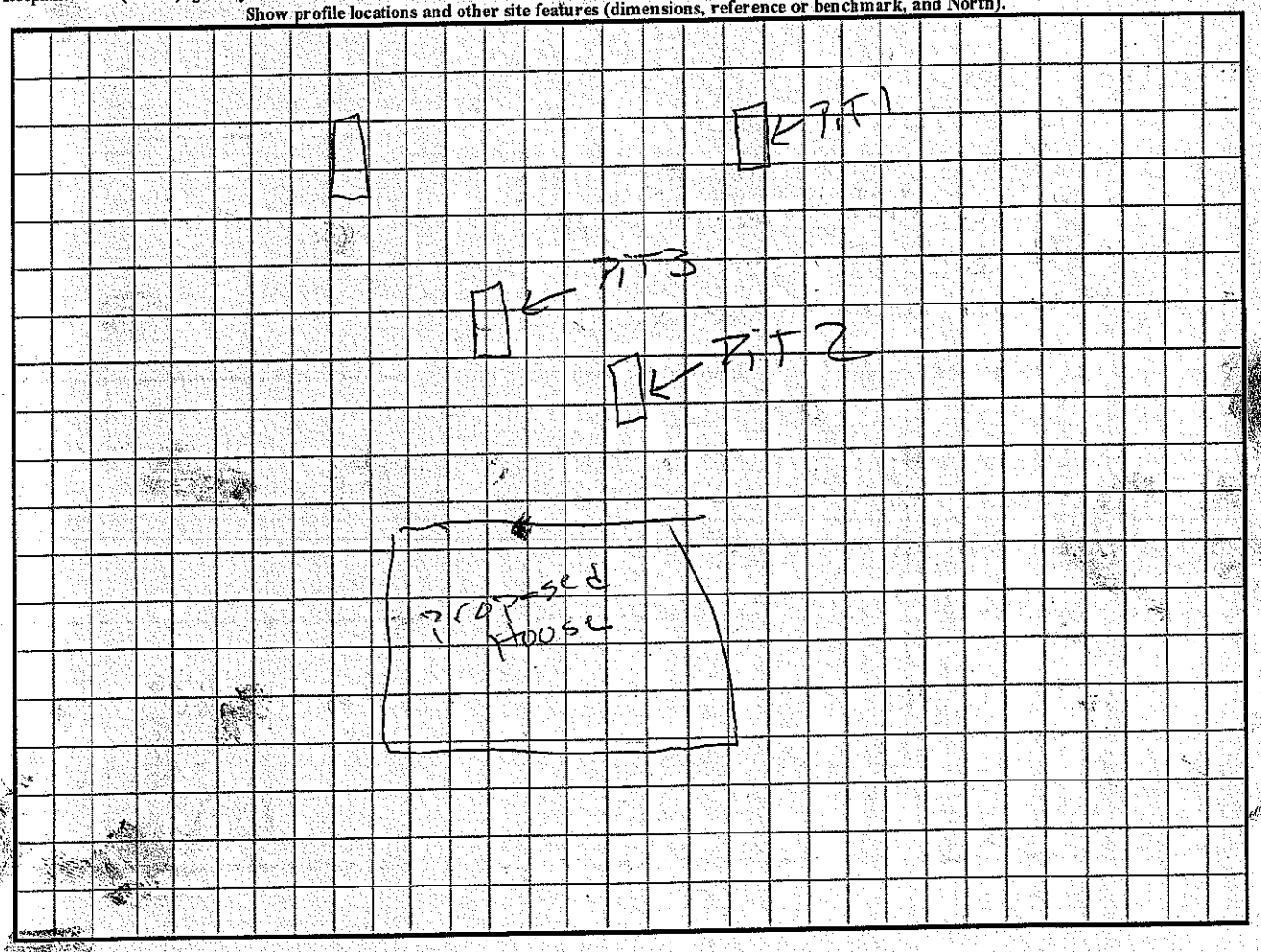
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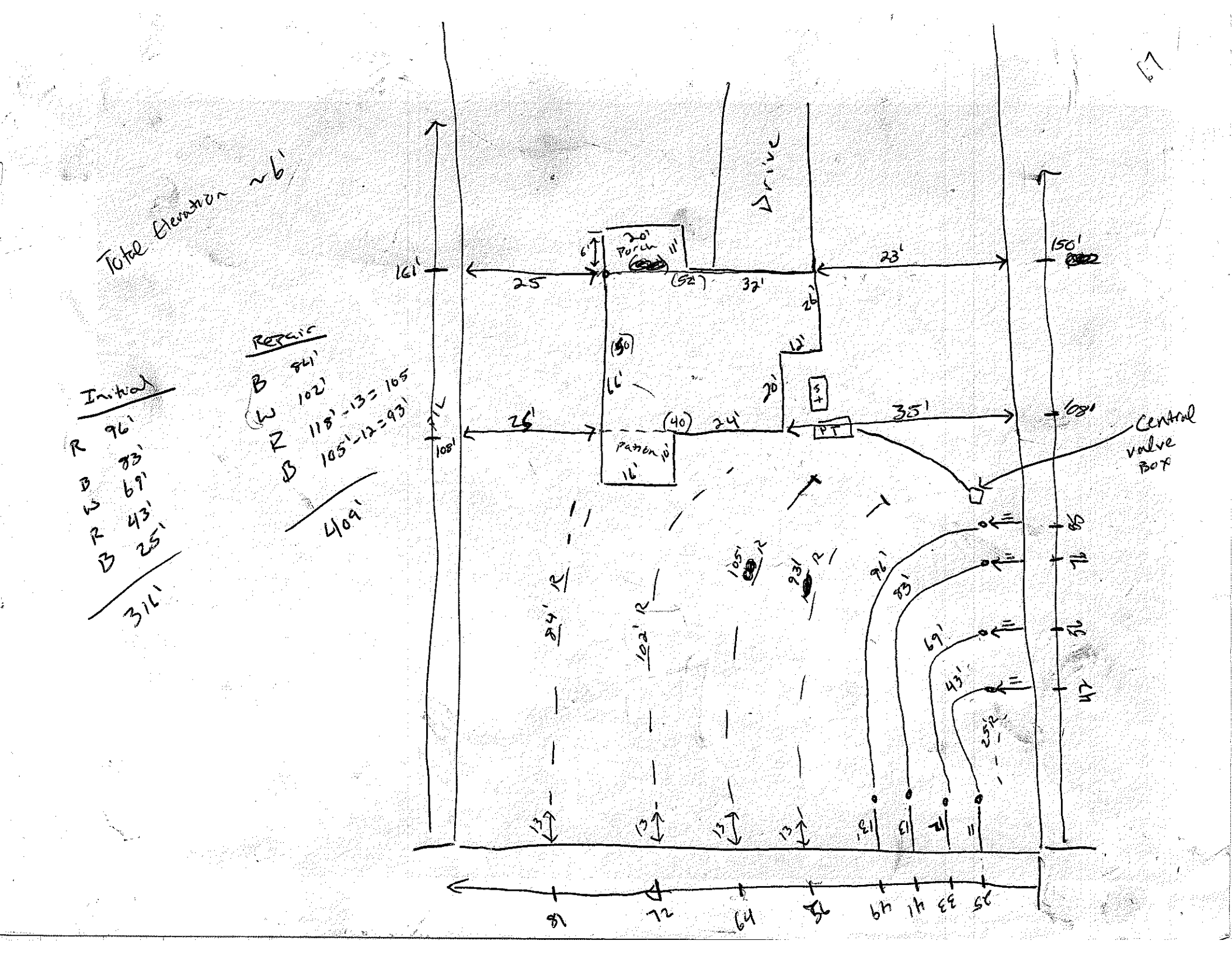
HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or 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).




Total Elevation ~6'
Initial
R 96'
B 83'
W 69'
R 43'
B 25'
316'
Repair
B 84'
W 102'
R 118'-13= 105
B 105'-12=93'
409'
Drive
20' Porch
11'
6'
161'
25
(52)
32'
23'
150'
26'
12'
(50)
77'
20'
3+
25'
(40)
24'
PT
35'
108'
Patio 10'
16'
Central valve Box
84' R
102' R
105' R
93' R
96'
83'
69'
43'
25' R
13'
13'
13'
13'
13'
13'
11'
81
72
64
56
49
41
33
25