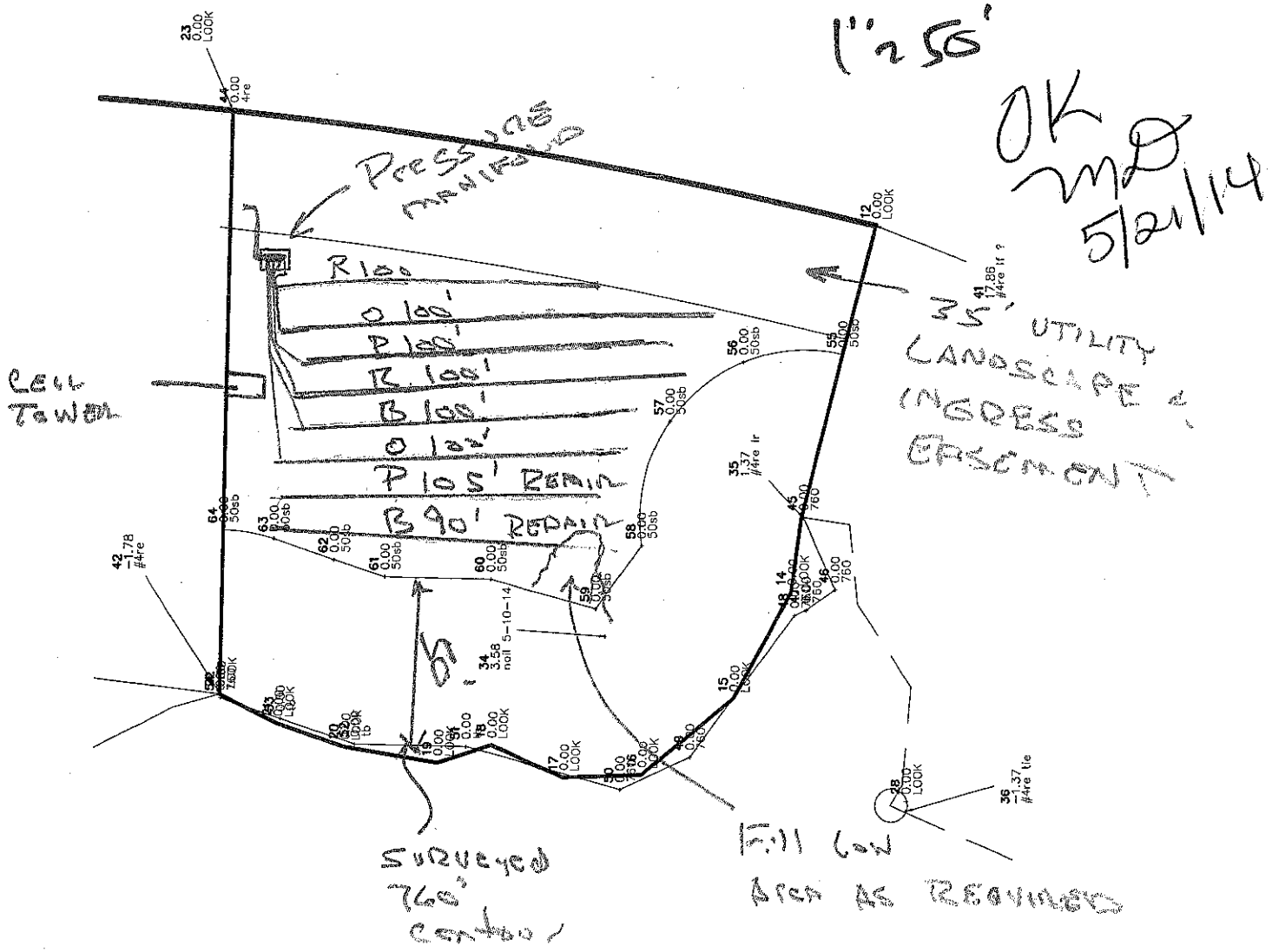
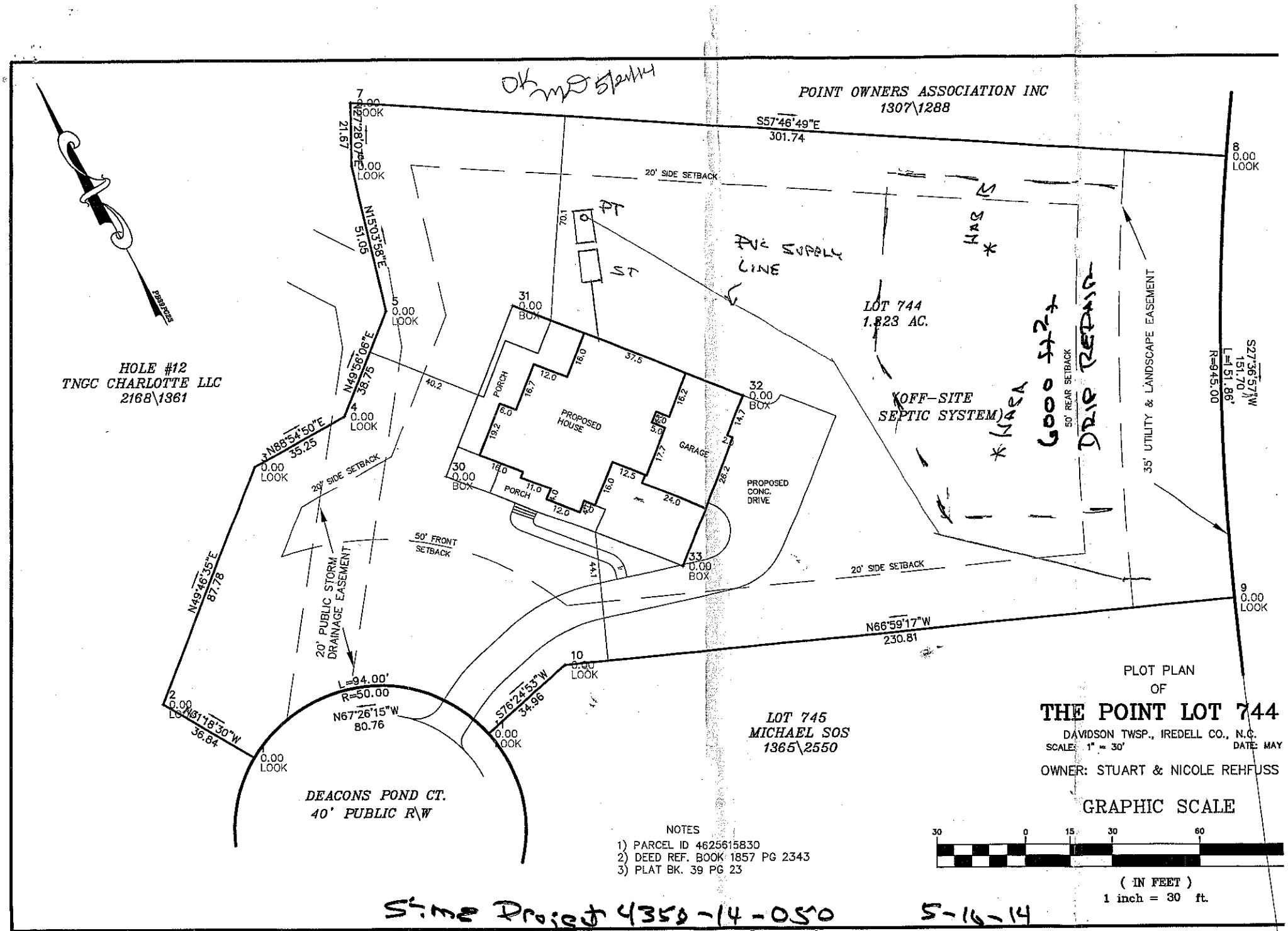


THE POINT 744A SEPTIC AREA

BASE SURVEY SITE PLAN FROM

DAS 5-14-14. SEPTIC DETAIL BY

STATE. * MUST ACCOMPANY WRITTEN REPORT



PLOT PLAN
OF
THE POINT LOT 744

DAVIDSON TWSP., IREDELL CO., N.C.
SCALE: 1" = 30' DATE: MAY

OWNER: STUART & NICOLE REHFUSS

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 ft.

NOTES
1) PARCEL ID 4625615830
2) DEED REF. BOOK 1857 PG 2343
3) PLAT BK. 39 PG 23

Site Project 4358-14-050 5-16-14
* Must Accompany Written Report

The Point Lot 744 Fast Track System Information

Whitley Consrtuction, S&ME Job No. 4358-14-050

Number of Bedrooms	**5**
Basement or Crawl	**Basement w/ Plumbing**
Design Flow (gpd)	**600**
Primary System LTAR (gpd/ft2)	**0.25**
Primary System Type	**25% Reduction**
No. Lines	6 (See Table)
Total Linear Feet	600
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	Yes
Distribution Device	Pressure Manifold or other county specified device
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	~1,540' of 3" SCH 40 PVC
Flow Rate through the system	33 gpm
Elevation head	*Approx. 20'
Pressure head	2.0'
Friction head	Approx. 6'
20% Contingency	5.6'
Total Head	33.6'
Pump Requirements	33 gpm @ 34' of head ***To be designed by installer.**
Maximum Dosing Volume	240 gal - 2.5 doses/day @ design flow
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 7.3 min.
Check Valve	Yes
Siphon Break hole	Yes
Repair System	**TS-I Pretreatment Drip**
System Size	6,000 sqft required
Repair Loading Rate (gpd/ft2)	0.1

The Point 744 Fast Track System Information

Whitley Consrtuction, S&ME Job No. 4358-14-050

Summary of Primary Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading (Ft.)
1	System	red	25% Reduction	100	4.7
2	System	orange	25% Reduction	100	5.3
3	System	pink	25% Reduction	100	6.6
4	System	red	25% Reduction	100	8 (*elev. approx. 780')
5	System	blue	25% Reduction	100	9
6	System	orange	25% Reduction	100	10.5
195 ft. of 25% Reduction repair flagged on off-site septic area					
				Total System: 600'	

Tank	white	1500 gal (2 compartment)	*Elevation (ft)
Pump Tank	white	1500 gal.	774.0
House		Right Rear Corner	780.0

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	6
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

NOTES:

***Approximate elevations taken from topo map only & must be verified by installer or surveyor at installation and final tank placement.**

S&ME, INC.
SITE/SOIL EVALUATION

Project No. 4356-14-068 Phone No. _____ Date: 5-14-14
Location Rt 764 Pin _____ County: Lee Property Size _____

Proposed Facility: House Water Supply: On-Site Well ☒ Evaluation: Auger Boring ☒
Community ☐ Pit ☐
Described By: PCP - Approved by DHS Public ☒ Cut ☐
Weather: Hot + Sunny Antecedent Moisture moist Surface Water: Lvl

Verified Soil OK MD 5/21/14

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4
Landscape Position %	L-1-2%	L-1-2	L-1-2	L-1-2
Horizon Depth I	0-4	0-5	0-5	0-5
Color Munsell	10yr 6/6	10yr 6/6		5
Texture	sl	sl	sl	
Structure	gr	sbk		
Consistence	fr sl se			
Boundary				
Horizon Depth II	4-20	5-22	5-48	5-48
Color – Munsell	10yr 6/6	10yr 6/6	10yr	10yr
Texture	scl	cl-sicl	c	c
Mottles				f 10yr 6/8
Structure	wk sbk	wk sbk	m-wk pl	m sbk
Consistence	fr sl se	fr sl se	fr sl se	fr sl se
				sl se
Boundary				
Horizon Depth III	20-48	22-48	mottled	
Color – Munsell	10yr	10yr	5Y 5/2	
Texture	c	c		
Mottles		f 10yr 6/8		
Structure	m-wk sbk	m-wk sbk		
Consistence	fr sl se	fr sl se		
		fr sl se		
Boundary				
Horizon Depth IV				
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite				
LTAR	.3	.3	.3	.35-.2
Classification	Ult	Ult	Ult	Ult

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
FS	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sbk	subangular blocky
abk	angular blocky
pl	platy
pr	prismatic

S&ME, INC.
SITE/SOIL EVALUATION

Project No. 4356-14-048 Phone No. Date: 5-14-14
Location Pt. 740 — Pitt Bld (Cty) County: Property Size

Proposed Facility: SFBR Water Supply: On-Site Well ☐ Evaluation: Auger Boring ☒
Community ☐ Pit ☐
Described By: Rec - must be Acitted by ICW Public ☒ Cut ☐
Weather: HOT Antecedent Moisture mo: SC Surface Water: —

FACTORS	PROFILE A	PROFILE	PROFILE B	PROFILE
Landscape Position %	C - 5%		La 5%	
Horizon Depth I	0-6		0-5	
Color Munsell	10YR			OK MD
Texture	SL			
Structure	WK		Sgl	
Consistence	Fri SS SP			
Boundary				
Horizon Depth II	6-30		5-20	
Color – Munsell	10YR		10YR	Better horizon
Texture	SL		C	
Mottles			F-C 10YR 5/8	
Structure	WSBK		MSBK	
Consistence	Fri SS/P		Fri SS/P	
Boundary				
Horizon Depth III	30-40		20-47	
Color – Munsell	10YR		10YR	
Texture	C		C	
Mottles	C 10YR 5/6		C 10YR 5/8	
Structure	F 10YR Bk		F 10YR 5/8	
Consistence	~36"		F: SS/SP	
			~ Sl/p	
Boundary	WSBK			
Horizon Depth IV	Fri SS/P			
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Soil Wetness	~36"			
Restrictive Horizon	—			
Saprolite	—			
SHWT	~1'		~1'	
Classification	Dri		Dri	

FC / CP

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
FS	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

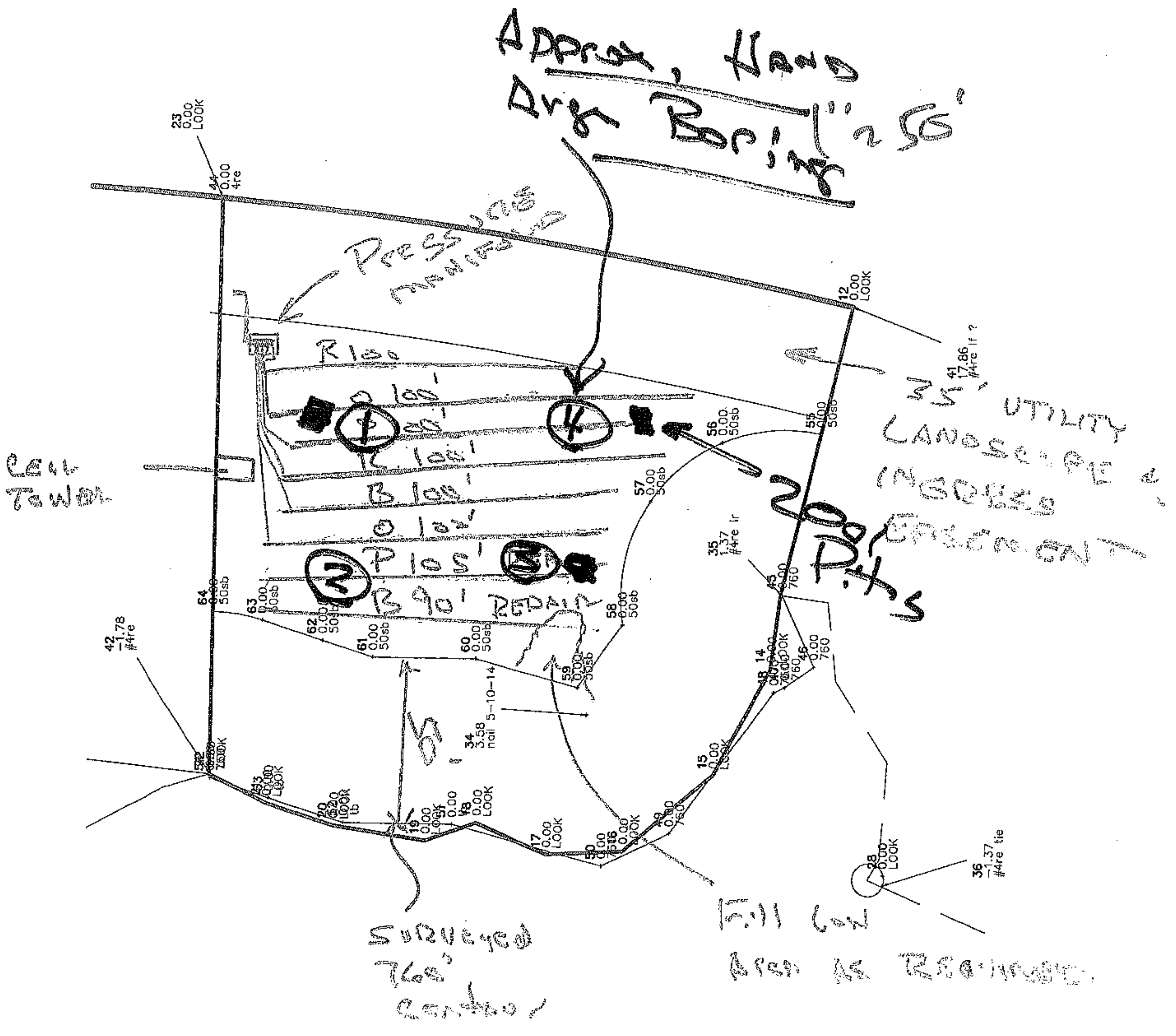
Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

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THE POINT 744A SEPTIC AREA

BASE SURVEY SITE PLAN FROM

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