FAST TRACK FOR A
GRAVITY D-BOX DISTRIBUTION TO 25% REDUCTION
SEPTIC SYSTEM
FOR
SUBSURFACE WASTEWATER DISPOSAL
Twin Cove at Morrison
Lot #1 – Corner of Morrison Farm and Stillwater Roads
Troutman, North Carolina 28166

Prepared for:
Mary Misciagna
143 Mandarin Drive
Mooresville NC 28117
704 996-3372

Prepared by:
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Mooresville, North Carolina 28117
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April 8, 2013
Revised April 27, 2013

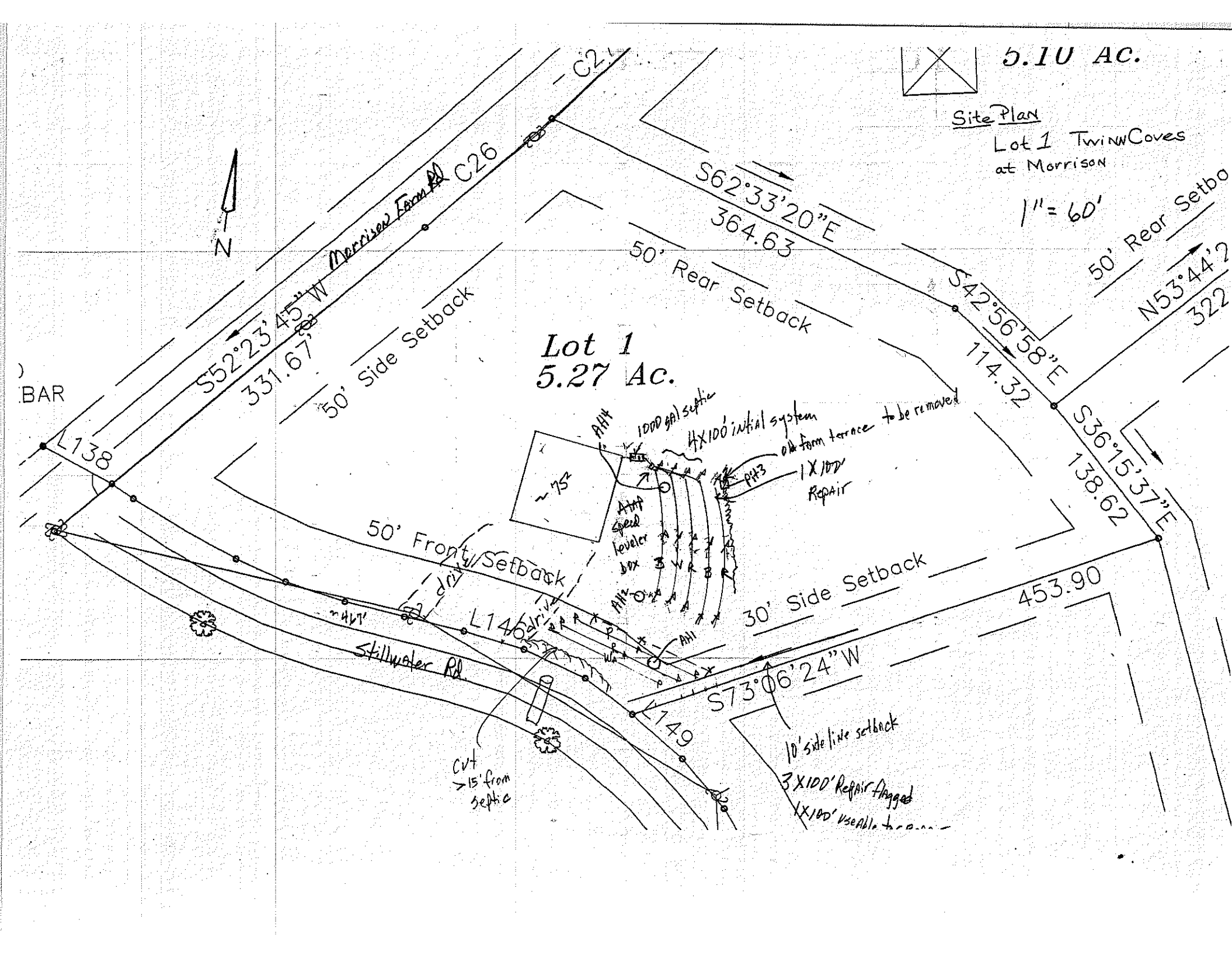


Toney C. Jacobs, LSS

Copy to: David Hinson, REHS
Iredell County Environmental Health
Statesville, NC

FAST TRACK PLAN - April 27, 2013
Lot #1 corner of Morrison Farm and Stillwater Roads

Number of Bedrooms	4
Basement or crawl	crawl or slab
Design flow (gpd)	480
Septic tank	1000 gal.
Primary System LTAR (gpd/ft^2)	0.3
Primary system type	25% reduction
Number of lines	4 @ 100' end fed
Total linear feet	400'
Trench width	3' min. or equivalent
Trench spacing	9' min.
Trench depth	2.0' minimum – 3.0' maximum
Distribution device	speed level D-box with 4 outlets
Length and diameter of supply pipe	approx. 15'
Elevation head	approx. 1' set tank just below ground surface
Repair System	25% reduction
Total linear feet	400'
Repair loading rate(gpd/ft^2)	0.3
Water supply	public quickly becoming available, on-site space available if needed for well
Special site preparation	remove old farm terrace below system, fill and tamp old soil evaluation pit


5.10 AC.
Site Plan
Lot 1 Twin Coves at Morrison
1" = 60'
N
C26
Morrison Farm Rd
S52°23'45"W
331.67'
S62°33'20"E
364.63
S42°56'58"E
114.32
S36°15'37"E
138.62
N53°44'2
322
50' Rear Setback
50' Side Setback
50' Front Setback
30' Side Setback
Lot 1
5.27 Ac.
1000 gal septic
4X100' initial system
old farm terrace to be removed
1X100' Repair
AH4
AH3
AH2
AH1
Aerobic Speed Leveler box
~75'
L138
L146
L149
453.90
S73°06'24"W
Stillwater Rd
CVT
>15' from septic
10' side line setback
3X100' Repair flagged
1X100' useable

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 1783102.0
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Mary Misciagna — APPLICATION DATE: 4/18/13
ADDRESS: 143 Magnolia Dr Mooresville 28117 — DATE EVALUATED: 4/5/13
PROPOSED FACILITY: single family residential — PROPOSED DESIGN FLOW (.1949): 460 — PROPERTY SIZE: 5.27
LOCATION OF SITE: corner of Shiloh Church Rd & Morrison Farm — PROPERTY RECORDED: 2013
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
AH 1	LS 0-3	0-2	gr/sl	fri	NA	NA	NA	NA	0.6
		2-12	SBK/c-cl	firm 1:1	"	"	"	"	0.3
		12-44	SBK/cl	fri 1:1	"	PS	"	"	0.35
		44-49	SBK/sl	" "	"	"	Bg 44	"	0.35
AH 2	LS 0-3	0-1	gr/sl	fri	NA	NA	NA	NA	0.6
		1-19	SBK/c	firm 1:1	"	"	"	"	0.3
		19-48	SBK/cl	fri "	"	PS	NA	NA	0.35
Pit 3	LS 0-3	0-3	gr/sl	fri	NA	NA	NA	NA	0.4
		3-16	SBK/c	firm 1:1	"	"	"	"	0.3
		16-46	SBK/cl	fri 1:1	"	PS	N	"	0.35
AH 4	LS 3-5	0-2	gr/sl	fri	NA	NA	NA	NA	0.6
		2-26	SBK/c	firm	"	NA	"	"	0.3
		26-46	" /cl	fri	"	PS	"	"	0.35
								@46 and HWR	

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	AS	7S
System Type(s)	2S Conventional	2S Conventional
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): NA
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Tommy C Jarvis, LSS
OTHER(S) PRESENT: NA

COMMENTS:

SOIL/SITE EVALUATION WORKSHEET

Property ID# _____ Sheet 1 of 1

County Franklin Date evaluated 9/5/13

Owner/client Mary Miscione/NA

Proposed facility 4BR SF Design flow 440

Site location Lot 1 Property size 5.27Ac

Site LTAR Int. 0.5 rep. 0.3

Soil described by TCS Others present _____

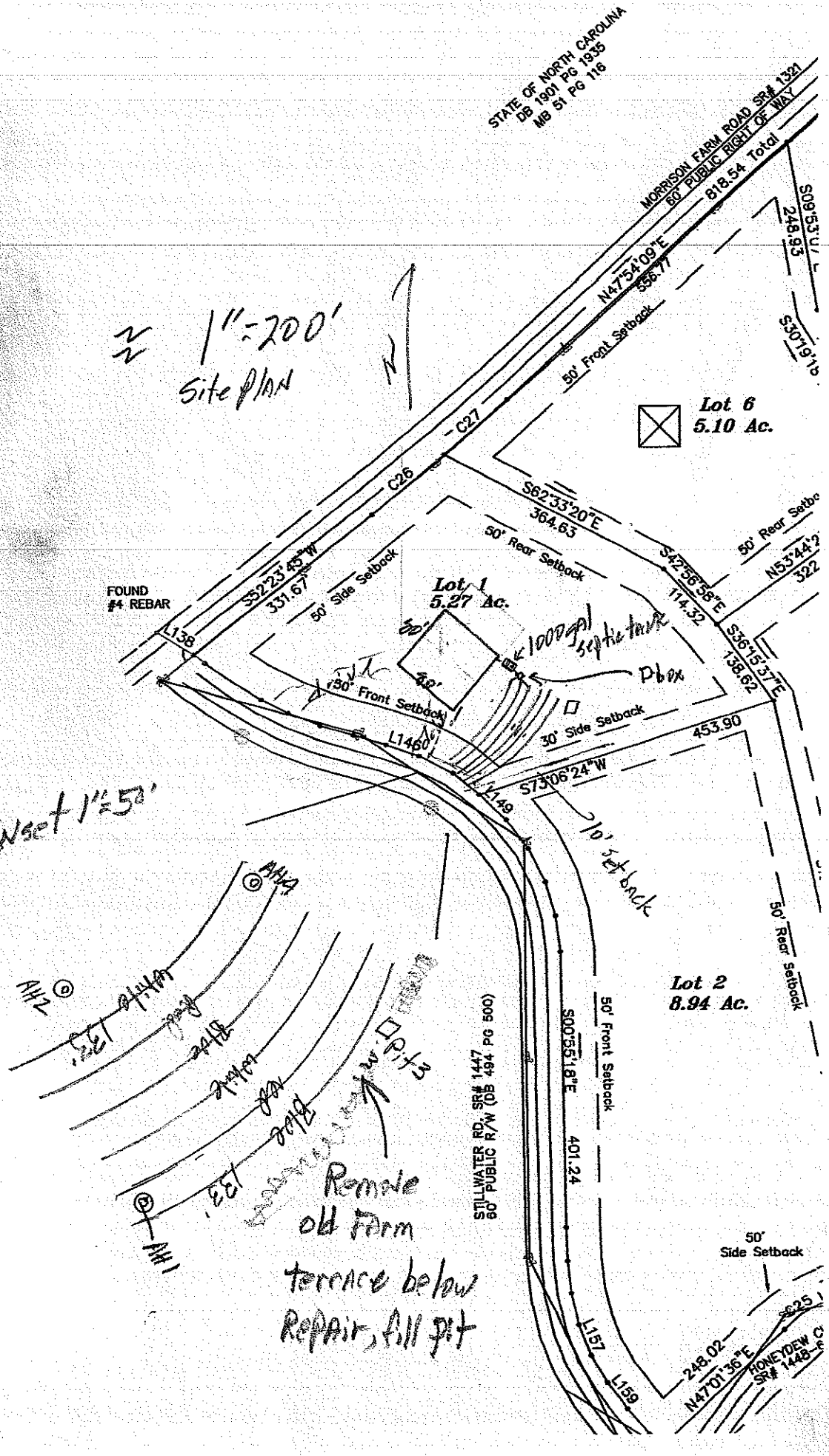
Site classification PS

Antecedent moisture Dry Weather Overcast (cl)

Water supply: ( ) public ( ) community ( ) on-site well ( ) spring ( ) other Evaluation method: (✓) auger boring (✓) pit ( ) cut

Type of wastewater: (✓) sewage ( ) industrial process ( ) mixed

PROFILE #	LANDSCAPE/SLOPE	DEPTH INCHES	HORIZON	COLOR	MUNSELL	TEXTURE	STRUCTURE	CONSISTENCY MOIST	CONSISTENCY WET	MOTTLES	INCLUSIONS	INCLUSIONS	BOUNDARY	COMMENTS
PH 1	LS 2 3	0-2	A	dk brn		SL	g	fri	fri	.				
		2-12	Bt	red		scl/lfc	m sbk	fm	sp					
		12-44	B	red		cl	m sbk	fri	ss sp	7.5YR 5/6 3%				
		44+ Ver	BC	red		SL	w sbk	fri	"	red redox 3%				
													0.3-0.35	
PH 2	LS 2 3	0-1	A	dk brn		SL	g	fri						
		1-19	Bt	red		L	m sbk sbk	fm	sp					
		19-48	B	red		cl	m sbk	fri	ss sp					
										none				
													0.3-0.35	
PH 3		0-3	A	brown		SL	g	fri						
		3-16	B	red		cl	m sbk	fm	sp					
		16-48	B	red		cl	m sbk	fri	ss sp					
														in old burn
													0.3-0.35	
PH 4	LS 3 5	0-2	A	dk brn		SL	g	fri						
		2-24	B	red		L	m sbk	fm						
		24-48	B	red		cl	m sbk	fri		@ 45" Wet. Redox Inc				
													0.3-0.35	


STATE OF NORTH CAROLINA
DB 1901 PG 1935
MB 51 PG 116
MORRISON FARM ROAD SR# 1321
60' PUBLIC RIGHT OF WAY
818.54 Total
N47°54'09"E
356.77
S09°53'07"E
248.93
S30°19'16"
50' Front Setback
N 1"=200'
Site PLAN
Lot 6
5.10 Ac.
C27
C26
S62°33'20"E
364.63
50' Rear Setback
S42°56'58"E
114.32
N53°44'2
322
FOUND
#4 REBAR
L138
S52°23'45"W
331.67'
50' Side Setback
Lot 1
5.27 Ac.
1000gal Septic tank
Pbox
30' Front Setback
L146
30' Side Setback
453.90
S36°15'37"E
138.62
S75°06'24"W
L149
Inset 1"=50'
10' Setback
50' Rear Setback
Lot 2
8.94 Ac.
AH4
AH2
AH1
Pit 3
Remove
old Farm
terrace below
Repair, fill pit
STILLWATER RD. SR# 1447
60' PUBLIC R/W (DB 494 PG 500)
S00°55'18"E
401.24
50' Front Setback
L157
L159
50'
Side Setback
248.02
N47°01'36"E
HONEYDEW C
SR# 1448-F