Paid $195.00 CK 4-9-14
Int. Relayout

IREDELL COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
PAGE 1: *APPLICATION FORM*

Application For:
(X) Septic Improvement Permit ( ) New Well Permit ( ) Authorization to Construct ( ) Well Repair Permit ( ) Existing System Inspection ( ) Well Abandonment ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted:
Place an (X) beside whichever is submitted if applicable
(X) Survey Plat, scaled no more than 1 inch = 60 feet
( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: Shaw Custom Bldr **Address:** 1028 Perth Rd Trautmen NC 28166 **Phone:** _____

Owner Name: Same **Address:** _____ **Phone:** _____

Property Information:

Street Address: _____

Subdivision Name: Chesapeak PT **Section/Phase:** _____ **Lot Number:** 42/42A

Driving Directions: BSR, TL Isle of Pines, TR Cove Crk, on Rt

Site Development Information: *(check or complete ALL that apply)*

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: _____
(X) Swimming Pool
( ) Other Addition/Structure: _____

( ) Crawl Space Foundation
( ) Concrete Slab Foundation
(X) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development:
Type of Business: _____
Square Footage of Building: _____
Maximum Number of Employee: _____
Maximum Number of Seats/Beds/Other: _____

Water Supply:

( ) New Well ( ) Existing Well (X) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* **Year existing system installed:** _____

( ) No Preference ( ) Alternative ( ) Conventional (X) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:

( ) Yes (X) No **Does the site contain any jurisdictional wetlands?**
( ) Yes (X) No **Is any non-domestic sewage (i.e. industrial) to be generated?**
( ) Yes (X) No **Is the site subject to approval by any other public agency?**

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

Signature: _____
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

4/9/2014
DATE

IREDELL COUNTY HEATLH DEPARTMENT

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE SAMPLE SITE PLAN BELOW. INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!

Place an (X) beside each item as you complete the site plan:

____ **Property Line measurements are clearly identified…**
____ **All proposed structures are indicated…**
SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site
____ **Front and side setbacks from property line…**
____ **Preferred driveway location and configuration, preferred well location…**
____ **Area you prefer your septic system to be placed…**
____ **North arrow, or other sufficient indicator of direction…**

Circle N/A on the following if appropriate:

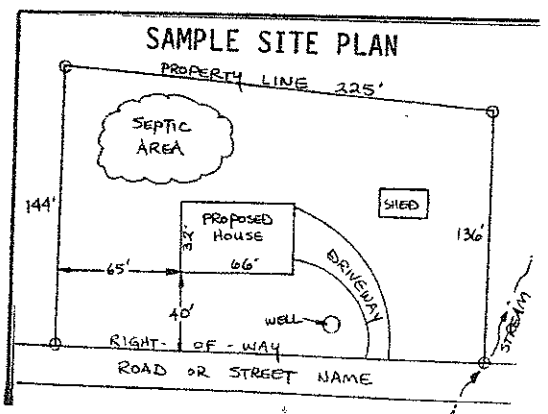
____ **Location of septic systems and wells within 100' of your property…** **N/A**
____ **Location of easements and rights of ways on your property…** **N/A**
____ **Location of any designated wetlands on the property…** **N/A**

Signature: _____
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

4/9/2014
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

See Attached Plan





MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

Reference: Data Sheet for Chesapeake Pt., Lot 42/42A
House Footprint: See attached plan
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Community well
Number of Bedrooms: 4/480 GPD
Predetermined LTAR (ICHD): 0.25 GPD/FT2 (initial), 0.2 GPD/FT2 (repair)
Proposed System Type: 25% Reduction
Predetermined Repair System Type: Shallow 25% Reduction (ICHD)
Distribution: Pressure manifold
Flow per Tap: 5.48 GPM
Tap Size and Material: ½" SCH 80
System Flow: 27.4 GPM
Dosing Volume: 210 gallons
Pump Run Time: 7.7 minutes
Elevation Head: 17.6'
Friction Head: 5'
Pressure Head: 2'
Total Dynamic Head: 24.6'
Supply Line Length: 270'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 24-36"

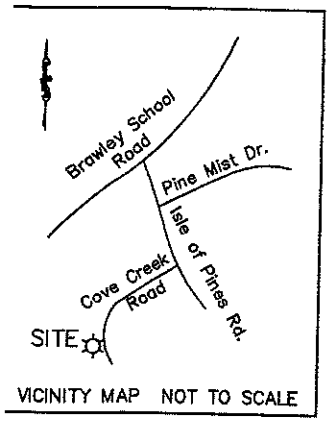
Line	Design Length	Actual Length	Elevation
Pink 1	48'	75'	4.2'
Orange 2	48'	61'	5.0'
White 3	48'	56'	5.8'
Red 4	48'	51'	6.8'
Pink 5	48'	55'	7.7'
Orange 6	48'	52'	9.2'
White 7	48'	49'	10.0'
Red 8	48'	50'	10.8'
Pink 9	48'	50'	11.5'
Orange 10	48'	50'	12.0'

Line	Design Length	Actual Length	Elevation
Blue 11		40'	
Red 12		100'	
White 13		137'	
Blue 14		145'	
Orange 15		125'	
Pink 16		55'	

Initial System: 480' **Repair System:** 602'
Pump Tank: 21.8' **House Corner:** 15.4' **Benchmark:** 1.2'

Comments:
This lot is currently permitted by ICHD. Michael Athanas & Associates has laid out a 25% reduction for the initial system, using 10 laterals. We propose to use a pressure manifold with five taps feeding two lines each, drop boxes or end caps if using Infiltrators, will connect the two lines. The repair area was previously approved by ICHD and remains unchanged. The small gully will be filled. Any changes prescribed ICHD are welcome.

L1	26.99	S74°01'55"E
L2	18.02	S77°44'42"E
L3	11.00	S63°45'28"E
L4	7.09	S35°17'19"E
L5	34.47	S11°20'33"E
L6	50.35	S03°30'29"W



JOEL H. PATTERSON III, PLS
LICENSE NUMBER: L-3717

North Based on: Map Bk: 51 Pg: 15 Dated: 6/7/06

Area that needs to be graded

COVE CREEK ROAD (50' Public R/W)

10' Septic Line Easement

35' Front Setback

P1-48'-7.1'
P2-48'-5.0'
P3-48'-5.3'
P4-48'-6.8'
P5-48'-7.7'
P6-48'-9.2'
P7-48'-10.6'
P8-48'-10.8'
P9-48'-7.1'
P10-48'-12.5'

Lot 42
1.11 Acres

Lot 41

Lot 43

313.99

209.6

388.55

45' Side Setback

15' Side Setback

N54°07'58"E

N22°27'39"E 99.09

S45°01'47"W

S12°25'39"W 43.79

L1 L2 L3 L4 L5 L6

50' Vegetative Buffer

FOUNDATION

Pool 40'

Divert Stormwater away from Drainfield

OK MR 4/11/14

Lake Norman

LEGEND

R/W = Right-of-way
I.P.S. = #4 Rebar Set
= Not to scale
= Telephone Pedestal
= Utility Pole
= Cable Pedestal
WM = Water Meter

1) This property may be subject to any Easements, Rights-of-way, and/or Restrictive Covenants.

2) Boundary information based on Map Book 51 at Page 15 as recorded in the Iredell County Register of Deeds.

3) This is a preliminary survey and is not intended for recordation, conveyances or sales.

4) No N.C.G.S. or U.S.G.S. Monuments could be located within 2000'.

5) Area by coordinate method.

PLOT PLAN SURVEY

OF

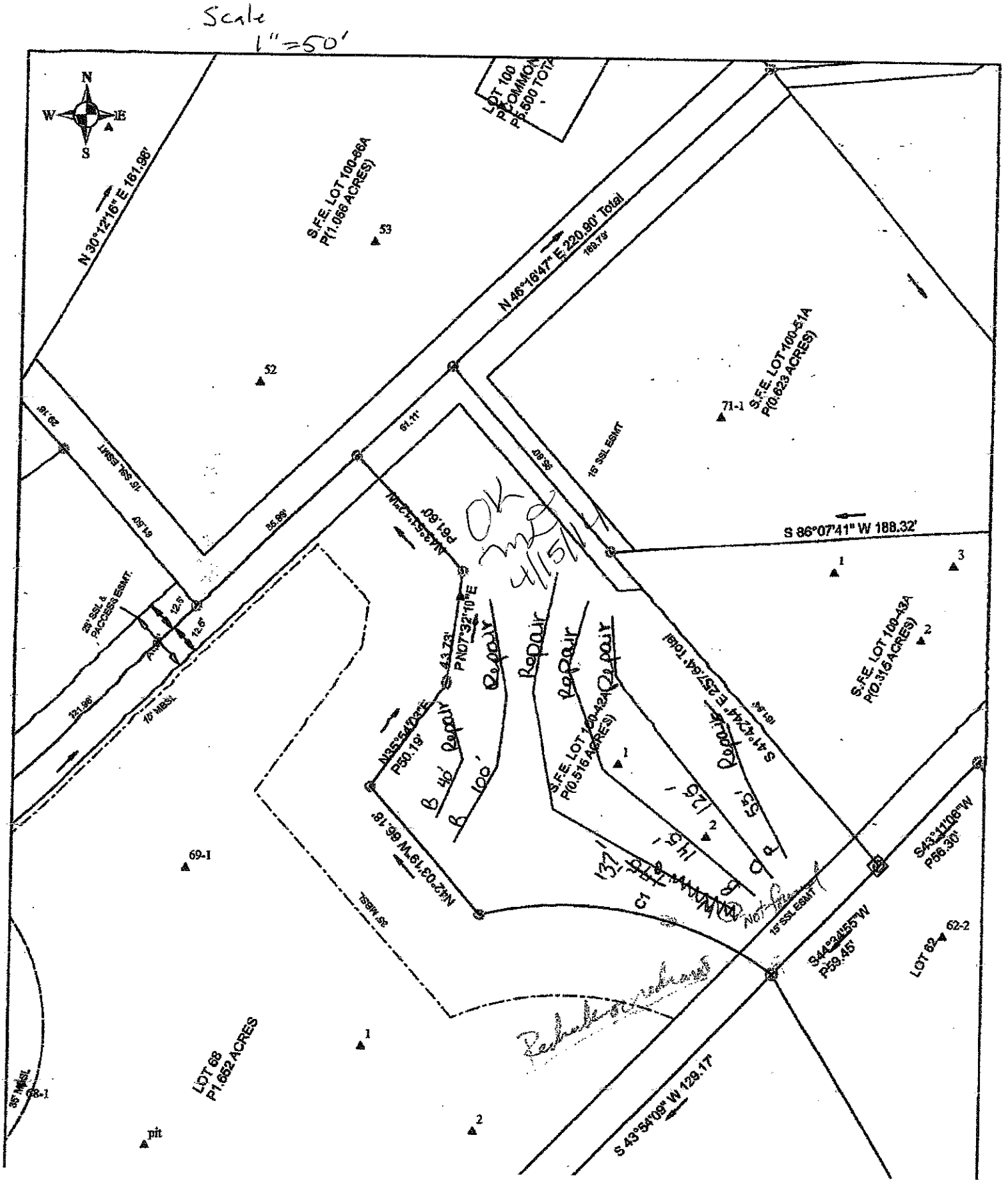
LOT 42 "CHESAPEAKE POINTE", PHASE III

SCALE 1" = 50'

DAVIDSON TWSP., IREDELL CO., NC

ACQUIRED BY: MICHAEL G. MILLER & VIRGINIA S. MILLER

FIELD BOOK: 002
FILE: 13090
TAX MAP NO: 4636013813


Scale
1"=50'
N
W
E
S
N 30°12'16" E 161.98'
S.F.E. LOT 100-66A
P(1.056 ACRES)
LOT 100
P COMMON
P5.500 TOTA
N 46°16'47" E 220.90' Total
169.79'
S.F.E. LOT 100-51A
P(0.623 ACRES)
71-1
15' SSL ESMT
61.11'
S 86°07'41" W 188.32'
S.F.E. LOT 100-49A
P(0.315 ACRES)
25' SSL & PACCESS ESMT.
12.5'
12.6'
121.96'
15' MBSL
N35°54'05"E
P50.19'
N07°32'10"E
43.73'
P61.60'
S.F.E. LOT 100-48A
P(0.516 ACRES)
S 41°42'44" E 257.64' Total
161.64'
Repair
B 40'
B 100'
N42°03'18"W 66.99'
C1
15' SSL ESMT
S43°11'06"W
P56.30'
S44°24'55"W
P59.45'
LOT 62
62-2
LOT 68
P1.652 ACRES
S 43°54'09" W 129.17'
69-1
pit
OK
MP
4/15/11

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

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Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: (✓) Survey Plat, scaled no more than 1 inch = 60 feet

Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: Kent Shand Sons Const. **Address:** PO Box 1061 Troutman NC 28166 **Phone:** 7045284494

Owner Name: Grant Miller **Address:** 112 Mooresville 28117 **Phone:** 7047375851

Property Information:

Street Address: 261 Cove Creek Loop Mooresville NC 28117

Subdivision Name: Chesapeake Point **Section/Phase:** III **Lot Number:** 42/42A

Driving Directions: Brawley School Rd. Left on Isle of Pine Right on Cove Creek LP.

Site Development Information: *(check or complete ALL that apply)*

(✓) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: _____
( ) Swimming Pool
( ) Other Addition/Structure: _____

( ) Crawl Space Foundation
( ) Concrete Slab Foundation
(✓) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development:

Type of Business: Residential
Square Footage of Building: _____
Maximum Number of Employee: _____
Maximum Number of Seats/Beds/Other: _____

site plan same as improvement permit CS.

Water Supply:

( ) New Well ( ) Existing Well (✓) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* **Year existing system installed:** _____

(✓) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:

( ) Yes (✓) No **Does the site contain any jurisdictional wetlands?**
( ) Yes (✓) No **Is any non-domestic sewage (i.e. industrial) to be generated?**
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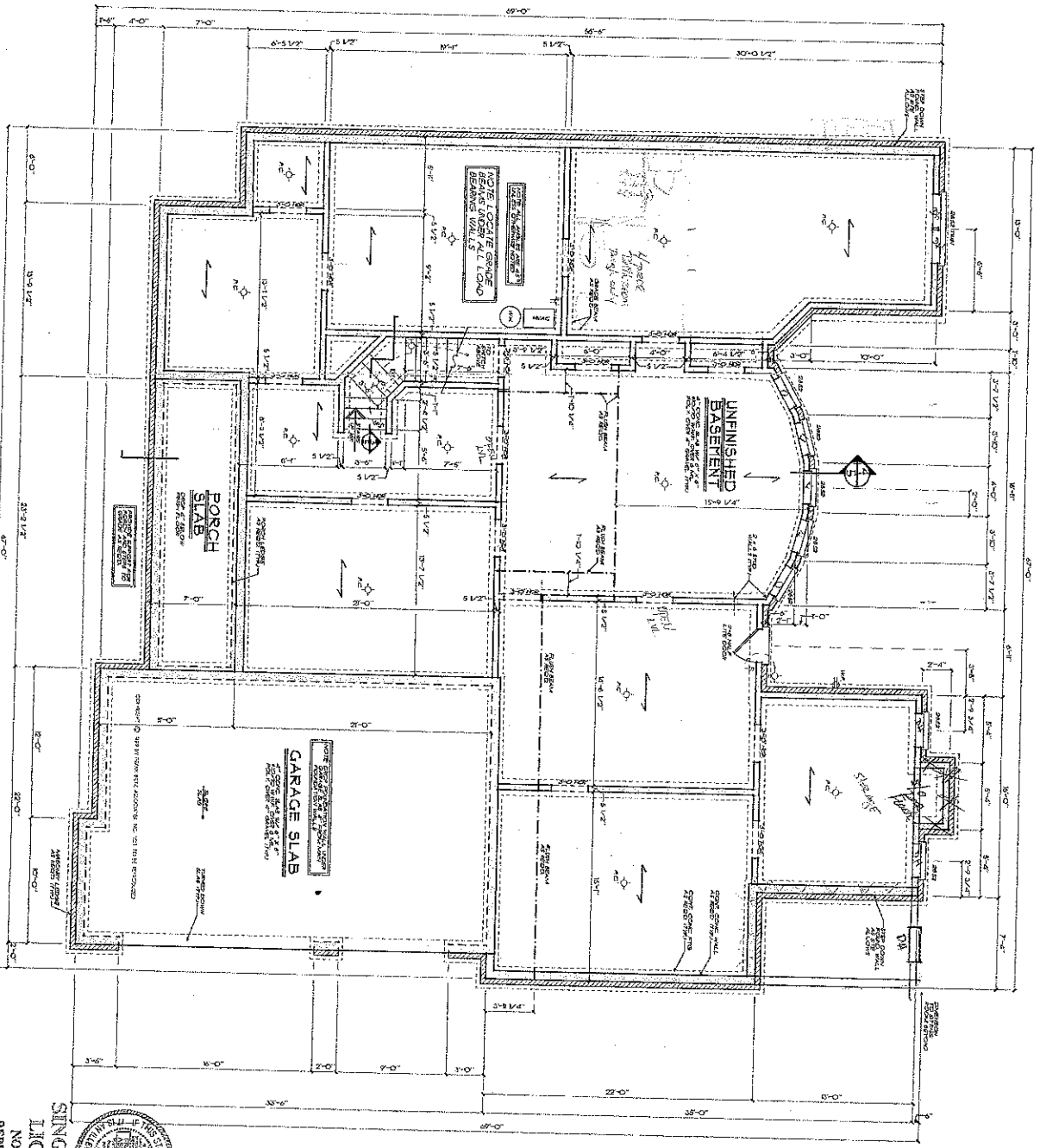
Signature: _____ 10/14/13

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

Acknowledgement Of Plans Submittal ONLY!

Date 10/14/13

Date 10-14-13



BASEMENT FOUNDATION PLAN

SINGLE USE LICENSE NOT TO BE REPRODUCED

FRANK BETZ ASSOCIATES INC
3550 George Busbee Parkway
Suite 190
Kennesaw, Georgia 30144
770-421-1888
www.frankbetz.com

BASEMENT FOUND. PLAN

THE KINGSLAND

HOMEPLANS
Designed for Today's Market®

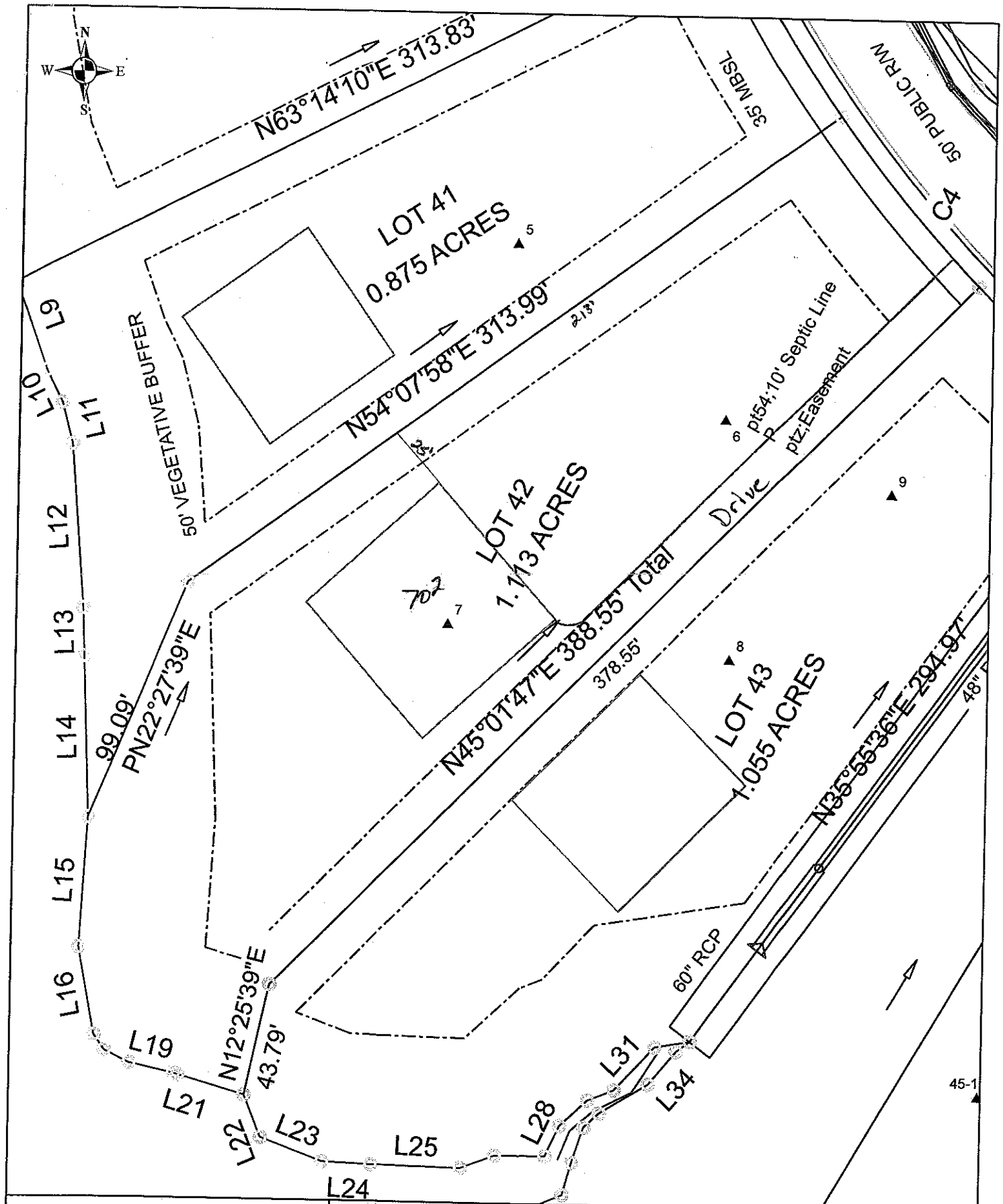
GENERAL FRAMING NOTES:

GENERAL NOTES:

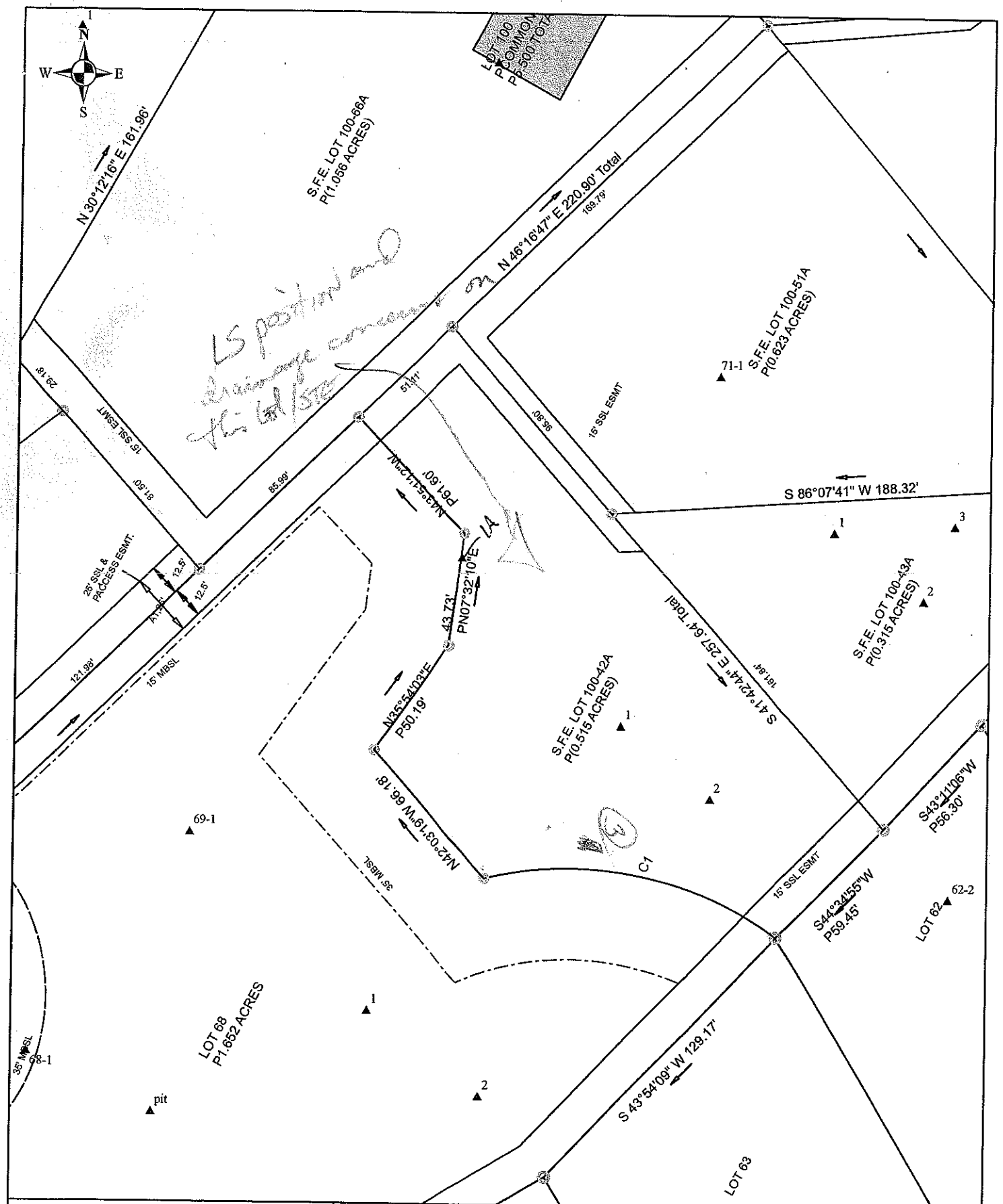
Acknowledgement Of Plans Submittal ONLY!

Date 10/14/13

Date 10-14-13



Scale: 1 inch equals 50 feet	S&ME ENVIRONMENTAL SERVICES · ENGINEERING · TESTING	Lot 42 Chesapeke Point	FIGURE
Drawn by: JBP		Detailed, Scaled Site Plan	1
Reviewed by: KS		Iredell County, NC	
Date: December, 2006		S&ME Project #1588-04-011	



Scale: 1 inch equals 50 feet	S&ME ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	S.F.E. Lot 100-42A Chesapeke Point Detailed, Scaled Site Plan Iredell County, NC S&ME Project #1588-04-011	FIGURE 1
Drawn by: JBP			
Reviewed by: KS			
Date: December, 2006			

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: 4636D13813
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Shaw Builders
ADDRESS: 261 Cove Creek Ln Mooresville NC
PROPOSED FACILITY: House
LOCATION OF SITE: Lot 70
PROPOSED DESIGN FLOW (.1949): 480gpd
APPLICATION DATE: 11/1/06
DATE EVALUATED: 11/26/06
PROPERTY SIZE: 1.13Ac +, 5Ac
PROPERTY RECORDED: ___

WATER SUPPLY: ☐ Private ☑ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

OK mg 11/11/14

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 4-6%	0-4	mgr sl	FR SS SP	DK Br				IIIS .25 to 11 32
		4-32	msbk c	FR SS/SP	R F; YB				
		32-49	msbk c	F SS/SP	R F; C YB F; 10YR 4/2				
2	L 4-6%	0-8	mgr sl	FR NS NP	Br				.3 PS
		8-32	wsbk scl	FR SS SP	RB F; Sap,				
		32-50	wsbk scl	FR SS SP	RB C; Sap & LPK				
3	12-15% LPo LV	0-3	gr bsl	fr nsnp					.2-.25 to 32"
		3-32	wk sbk scl	fr ss sp	32"+ common gray/brn mottles common prominence				
		32-52	wk sbk c	fi sp fm	common low contrast mottles				
			intercepting drain a soil like based on this pit						
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	III	III
Site LTAR	.25	.2

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: Martin Mike
OTHER(S) PRESENT: ___

COMMENTS: ___

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: 2/25/06
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Lot 70 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	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1A	L 4-6%	0-21	msbk sl	FR SS SP	RB				PS 0.5-.75
		21-32	msbk sl	FR SS SP	Gr				
		32-46	msbk c	FR SS SP	RB				
2									
3									
4									

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

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

COMMENTS: _____