

CHATHAM COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION

80 East Street ▪ P. O. Box 130 ▪ Pittsboro, NC 27312-0130
Phone (919) 542-8208 ▪ Fax (919) 542-8288

OFFICE USE ONLY

TPN _____

Permit No. _____

Date _____

EHS _____

System Type _____

Improvement Permit for Wastewater Systems ARTICLE II-CHAPTER 130A OF THE NC GENERAL STATUTES

NEW REPAIR EXPANSION REVISED

An Improvement Permit is issued to Selirco, Ltd. for
a 4.23 acre site located Deer Mountain Lot 16

in Chatham County. It is specifically issued for the following facility:

Facility: Residential () Non-Residential ()
 No. Bedrooms 3 No. Residents/Employees 6 max
 Type Wastewater: Residential () Commercial ()
 Initial System Type: I () II () III () IV () V () VI ()
 Description _____

Type System: Shallow Conventional () LPP ()
 Other Pump to Accepted 25% Reduction
 Design Flow 360 EPGD Application Rate 3 GPD/ft²
 Size Tank(s) w/Risers and Effluent Filter ST 1000 Gal PT 1000 Gal
 Nitrification Line (Length/Width/Max Depth) 300' x 3' x 18"

(On contour in approved septic area; sch. 40 PVC required over step-downs)
 Repair System Type: I () II () III () IV () V () VI ()
 Description Pump to Accepted 25% Reduction

Special Conditions _____

A plat with site plan showing specific location of the facility, the site for the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid. Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams or stepdowns.

This permit is valid [] without expiration [] for five years but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed. The Improvement Permit shall not be affected by change in ownership.

THIS IS NOT AUTHORIZATION TO INSTALL. An authorization for Wastewater Construction must be obtained from this department before installation.

Issued by Tom C. Ritter R.S.
Environmental Health Specialist

N.C. Registration Number 1991
Date 2-8-08

Name Deer Mountain Lot 16 911 Address

Selinco, LTD
Deer Mountain Subdivision Lot 16 A
 3-Bedroom Home (360 gal./day)

<u>LINE #</u>	<u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>LINE LENGTH</u>	<u>Design Length</u>
TBM		0.0		100.0		<u>in field</u>	<u>installation</u>
INST. 1			100.0				
1	Pink			1.6	98.4	90	90
2	Yellow			2.6	97.4	90	90
3	Orange			3.8	96.2	80	80
4	Blue			5.8	94.2	60	60
5	Red			7.6	92.4	35	not used
6	Pink			9	91	35	not used
7	Yellow			10.4	89.6	35	35
8	Orange			11.4	88.6	40	35
9	Blue			13.0	87	50	50
10	Pink			14.6	85.4	50	50
11	Yellow			16.1	83.9	70	70
12	Orange			18.1	81.9	100	100
					Total	735	660

<u>System Type</u>	<u>System</u> Lines 1-4	<u>Repair</u> Lines 7-12
	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.3	0.3
System Installation LTAR	0.300	0.3
Total Line Length	320	340
Square Footage	960	1020
Proposed Trench Bottom	18"	18"

Distribution Method Pressure Manifold Pressure Manifold

Notes: Line #7 will step down to line #8

Sheet1

**Selinca, LTD
Deer Mountain, Lot 16A
Repair, Tap Chart**

Bench Mark	2.30	is = 100.00	Location of BM					Elevation Head	-3.00
Pump tank elev.	4	98.30	Pump elev.	93.30			Manifold elev.	90.30	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
7 & 8	Yellow	10.4	91.90	70	1/2in SCH 40	7.11	72.55	210	0.3455
9	Bue	13.00	89.30	50	1/2in SCH 80	5.48	55.92	150	0.3728
10	Pink	14.60	87.70	50	1/2in SCH 80	5.48	55.92	150	0.3728
11	Yellow	16.1	86.20	70	1/2in SCH 40	7.11	72.55	210	0.3455
12	Orange	18.10	84.20	100	3/4in SCH 80	10.1	103.06	300	0.3435
		total	feet =	340	gal/min =	35.28		LTAR =	0.3000
% of Dose Vol.	80		Des. Flow	360			LTAR + %5	0.3150	
Dose Volume	176.80		Pump Run=	10.20			(ltar W/ INOV)	0.4000	
Dose Pump Time	5.01		Tank Gal/IN	21			(ltar W/ INOV + 5%)	0.4200	
Drawdown in Inches	8.42								

**Selinca, LTD
Deer Mountain, Lot 16A
Initial, Tap Chart**

Bench Mark	2.30	is = 100.00 Location of BM				Elevation Head			7.40
Pump tank elev.	4	98.30	Pump elev.	93.30	Manifold elev.			100.70	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Pink	1.6	100.70	90	1/2in SCH 40	7.11	95.47	270	0.3536
2	Yellow	2.60	99.70	90	1/2in SCH 40	7.11	95.47	270	0.3536
3	Orange	3.80	98.50	80	1/2in SCH 40	7.11	95.47	240	0.3978
4	Bue	5.8	96.50	60	1/2in SCH 80	5.48	73.58	180	0.4088
		total	feet =	320	gal/min =	26.81	LTAR =		0.3000
% of Dose Vol.		70	Des. Flow		360	LTAR + %5		0.3150	
Dose Volume		145.60	Pump Run=		13.43	(ltar W/ INOV)		0.4000	
Dose Pump Time		5.43	Tank Gal/IN		21	(ltar W/ INOV + 5%)		0.4200	
Drawdown in Inches		6.93							

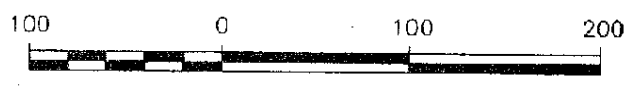
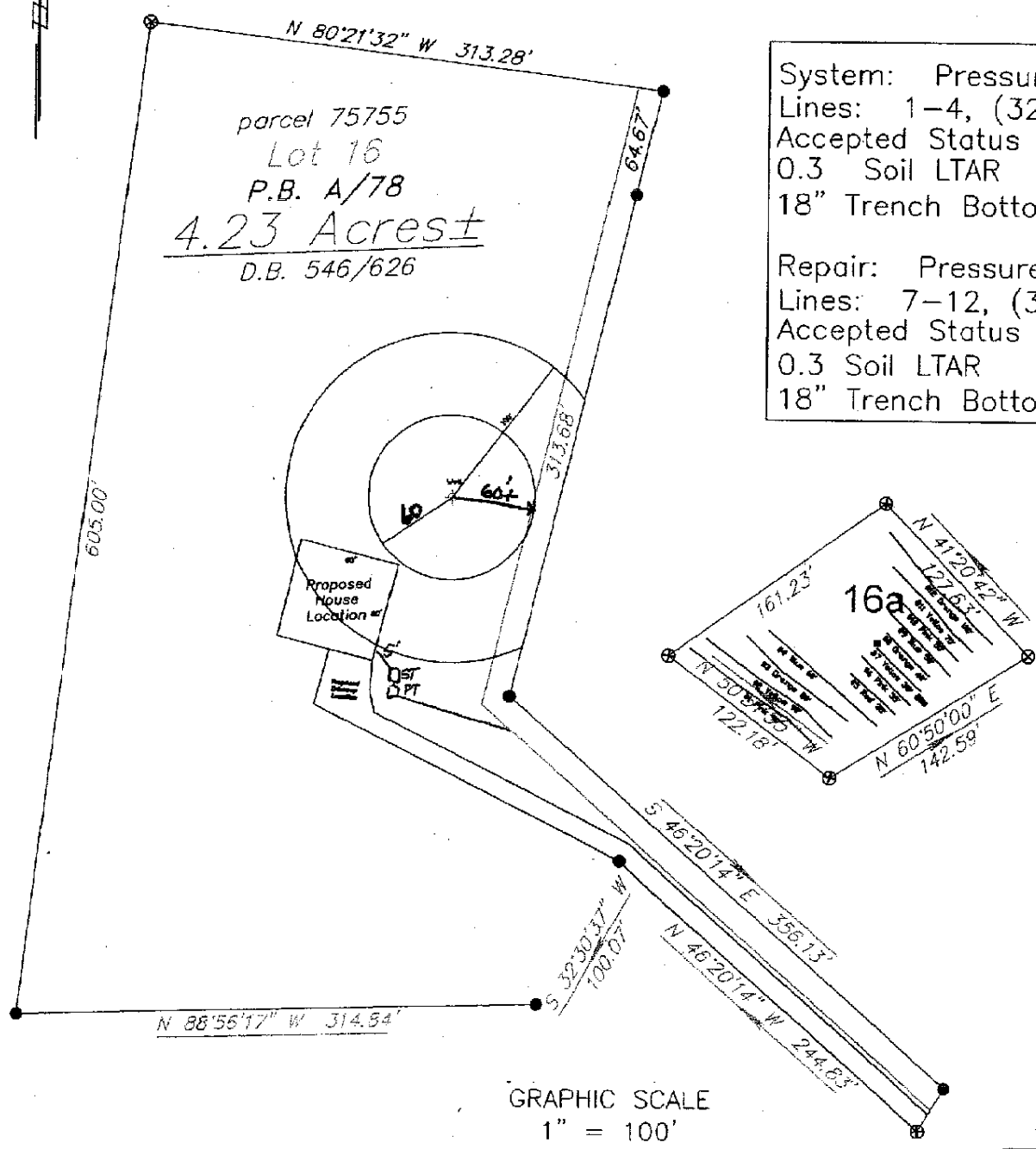
Deer Mountain, Lot 16 Selinco LTD 3-Bedroom Septic System Layout



parcel 75755
Lot 16
P.B. A/78
4.23 Acres ±
D.B. 546/626

System: Pressure Manifold
Lines: 1-4, (320')
Accepted Status System
0.3 Soil LTAR
18" Trench Bottom

Repair: Pressure Manifold
Lines: 7-12, (340')
Accepted Status System
0.3 Soil LTAR
18" Trench Bottom



Central Carolina
Soil Consulting
919-784-9449
Project # 331