

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 Selisco, Ltd. for
a 3.29 acre site located Deer Mountain lot 6

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

Facility: Residential (x) Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential (x) Commercial ()

Initial System Type: I () II () III (v) IV () V () VI ()

Description _____

Type System: Shallow Conventional () LPP ()
Other Pump to Accepted 25% Reduction

Design Flow 360 EGD 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 (v) 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 [x] 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.

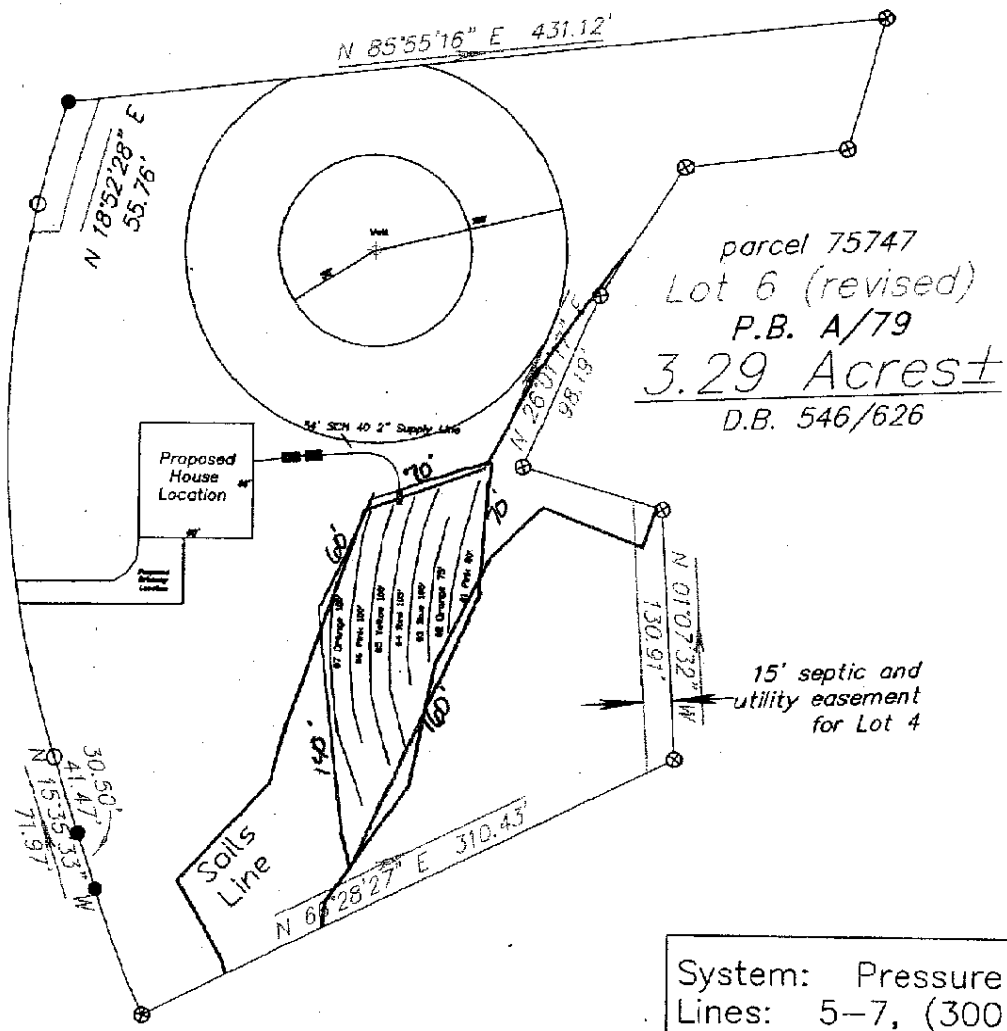
THIS IS NOT AUTHORIZATION TO INSTALL. An authorization for Wastewater Construction must be obtained from this department before installation.

Issued by [Signature]
Environmental Health Specialist

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

Name Deer Mountain lot 6 911 Address

Deer Mountain, Lot 6 Selinco LTD 3-Bedroom Septic System Layout

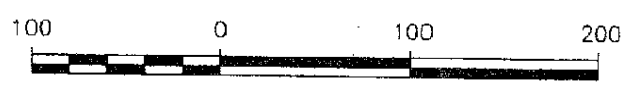


parcel 75747
 Lot 6 (revised)
 P.B. A/79
3.29 Acres ±
 D.B. 546/626

15' septic and
 utility easement
 for Lot 4

System: Pressure Manifold
 Lines: 5-7, (300')
 Accepted Status System
 0.3 Soil LTAR
 24" Trench Bottom
 Repair: Pressure Manifold
 Lines: 1-4, (365')
 Accepted Status System
 0.3 Soil LTAR
 24" Trench Bottom

GRAPHIC SCALE
 1" = 100'



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

Selinco, LTD
Deer Mountain Subdivision Easement Lot 6
 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		3.7		100.0		<u>in field</u>	<u>installation</u>
INST. 1			103.7				
1	Pink			3.4	100.3	82	80
2	Orange			5.1	98.6	76	75
3	Blue			7.0	96.7	106	105
4	Red			8.9	94.8	132	105
5	<i>Yellow</i>			<i>10.9</i>	<i>92.8</i>	<i>135</i>	<i>100</i>
6	<i>Pink</i>			<i>12.8</i>	<i>90.9</i>	<i>121</i>	<i>100</i>
7	<i>Orange</i>			<i>14.8</i>	<i>88.9</i>	<i>121</i>	<i>100</i>
Total						773	665

	<u>System</u> Lines 5-7	<u>Repair</u> Lines 1-4
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft ²)	0.30	0.30
System Installation LTAR	0.30	0.25
Total Line Length	300	365
Square Footage	900	1095
Proposed Trench Bottom	24" 18"	24" 18"
Distribution Method	Pressure Manifold	Pressure Manifold
Notes:	TBM is top of cut tree on line 2	

Sheet1

**Selinca, LTD
Deer Mountain, Lot 6
Initial, Tap Chart**

Bench Mark	3.70	is = 100.00	Location of BM		Elevation Head	-2.80			
Pump tank elev.	4	99.70	Pump elev.	94.70	Manifold elev.	91.90			
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
5	Yellow	10.9	92.80	100	3/4in SCH 80	10.1	120.00	300	0.4000
6	Pink	12.80	90.90	100	3/4in SCH 80	10.1	120.00	300	0.4000
7	Orange	14.80	88.90	100	3/4in SCH 80	10.1	120.00	300	0.4000

total	feet =	300	gal/min =	30.3	<u>LTAR =</u>	0.3000
					<u>LTAR + %5</u>	0.3150
% of Dose Vol.	80	<u>Des. Flow</u>	360		(ltar W/ INOV)	0.4000
Dose Volume	156.00	Pump Run=	11.88		(ltar W/ INOV + 5%)	0.4200
Dose Pump Time	5.15	Tank Gal/IN	21			
Drawdown in Inches	7.43					

Sheet1

**Selinca, LTD
Deer Mountain, Lot 6
Repair, Tap Chart**

Bench Mark	3.70	is = 100.00	Location of BM					Elevation Head	4.90
Pump tank elev.	4	99.70	Pump elev.	94.70			Manifold elev.	99.60	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Pink	3.4	100.30	80	1/2in SCH 40	7.11	74.36	240	0.3098
2	Orange	5.10	98.60	75	1/2in SCH 40	7.11	74.36	225	0.3305
3	Blue	7.00	96.70	105	3/4in SCH 80	10.1	105.64	315	0.3354
4	Red	8.9	94.80	105	3/4in SCH 80	10.1	105.64	315	0.3354

total feet = 365 gal/min = 34.42 LTAR = 0.3000

% of Dose Vol.	75	<u>Des. Flow</u>	360	<u>LTAR + %5</u>	0.3150
Dose Volume	177.94	Pump Run=	10.46	(ltar W/ INOV)	0.4000
Dose Pump Time	5.17	Tank Gal/MN	21	(ltar W/ INOV + 5%)	0.4200
Drawdown in Inches	8.47				