

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 4.78 acre site located Deer Mountain lot 33

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 1.2 GPD/ft²
 Size Tank(s) w/Risers and Effluent Filter ST 1000 Gal PT 1000 Gal
 Nitrification Line (Length/Width/Max Depth) 360' x 3' x 12"
6" cover required over system area

(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 JEM C. Ketter AS
Environmental Health Specialist

N.C. Registration Number 1991

Date 2/8/08

911 Address

Deer Mountain lot 33

Name

Deer Mountain, Lot 33 Selinco LTD 3-Bedroom Septic System Layout

S 89°42'35" E 515.35'

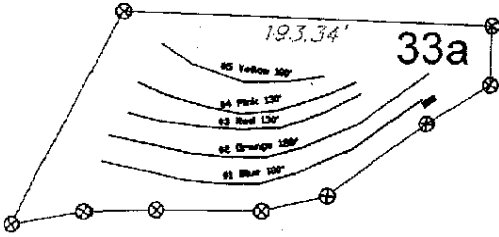
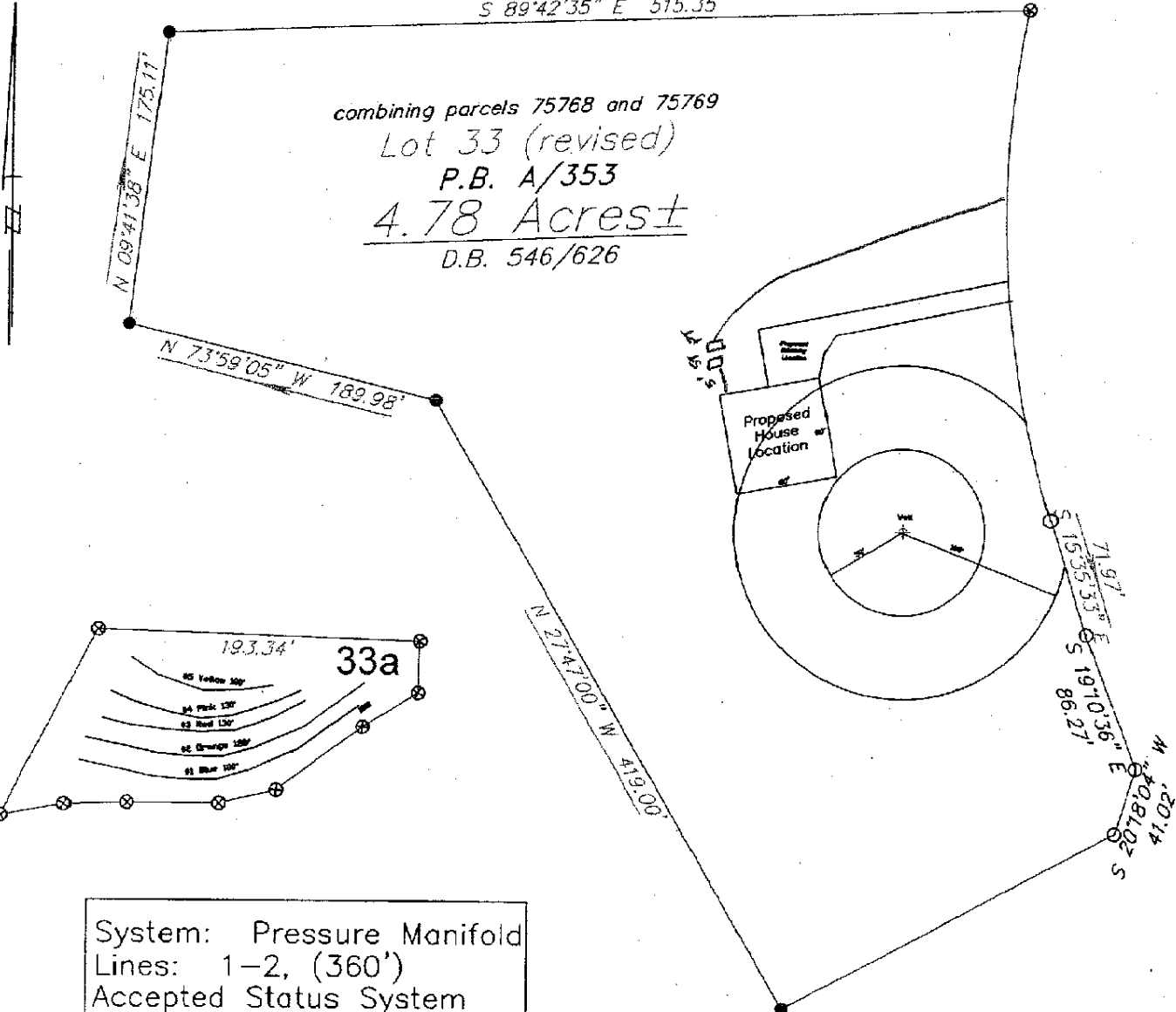
combining parcels 75768 and 75769

Lot 33 (revised)

P.B. A/353

4.78 Acres ±

D.B. 546/626



<p>System: Pressure Manifold Lines: 1-2, (360') Accepted Status System 0.275 Soil LTAR 12" Trench Bottom</p> <p>Repair: Pressure Manifold Lines: 3-5, (360') Accepted Status System 0.3 Soil LTAR 12" Trench Bottom</p>

GRAPHIC SCALE
1" = 100'



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

Selinco, LTD
Deer Mountain Subdivision Lot 33A
 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	Blue			1.8	98.2	207	180
2	Orange			3.4	96.6	207	180
3	Red			5	95	140	130
4	Pink			6.3	93.7	137	130
5	Yellow			7.6	92.4	102	100
					Total	793	720

System Type	<u>System</u>	<u>Repair</u>
	Lines 1-2	Lines 3-5
	Accepted Status System	Accepted Status System
	EZ-FLOW	EZ-FLOW
Suggested Soil LTAR (gal/day/ft ²)	0.275	0.275
System Installation LTAR	0.250	0.25
Total Line Length	360	360
Square Footage	1080	1080
Proposed Trench Bottom	12"	12"
Distribution Method	Pressure Manifold	Pressure Manifold
Notes:		

Sheet1

**Selinca, LTD
Deer Mountain, Lot 33A
System, Tap Chart**

Bench Mark	0.00	is = 100.00	Location of BM					Elevation Head	6.60
Pump tank elev.	4		96.00	Pump elev.	91.00	Manifold elev.			97.60
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Blue	1.8	98.20	180	1in SCH 80	16.8	180.00	540	0.3333
2	Orange	3.40	96.60	180	1in SCH 80	16.8	180.00	540	0.3333

	total	feet =	360	gal/min =	33.6	<u>LTAR =</u>	0.2750
						<u>LTAR + %5</u>	0.2888
% of Dose Vol.	75	<u>Des. Flow</u>	360			(ltar W/ INOV)	0.3667
Dose Volume	175.50	<u>Pump Run=</u>	10.71			(ltar W/ INOV + 5%)	0.3850
Dose Pump Time	5.22	<u>Tank Gal/IN</u>	21				
Drawdown in Inches	8.36						

Sheet1

**Selinca, LTD
Deer Mountain, Lot 33A
Repair, Tap Chart**

Bench Mark	0.00	is = 100.00	Location of BM					Elevation Head	3.70
Pump tank elev.	4	96.00	Pump elev.	91.00			Manifold elev.	94.70	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
3	Red	5	95.00	130	3/4in SCH 40	12.5	128.21	390	0.3287
4	Pink	6.30	93.70	130	3/4in SCH 40	12.5	128.21	390	0.3287
5	Yellow	7.6	92.40	100	3/4in SCH 80	10.1	103.59	300	0.3453

total feet = 360 gal/min = 35.1 LTAR = 0.2750

LTAR + %5 0.2888

% of Dose Vol. 75 Des. Flow 360 (ltar W/ INOV) 0.3667

Dose Volume 175.50 Pump Run= 10.26 (ltar W/ INOV + 5% 0.3850

Dose Pump Time 5.00 Tank Gal/IN 21

Drawdown in Inches 8.36