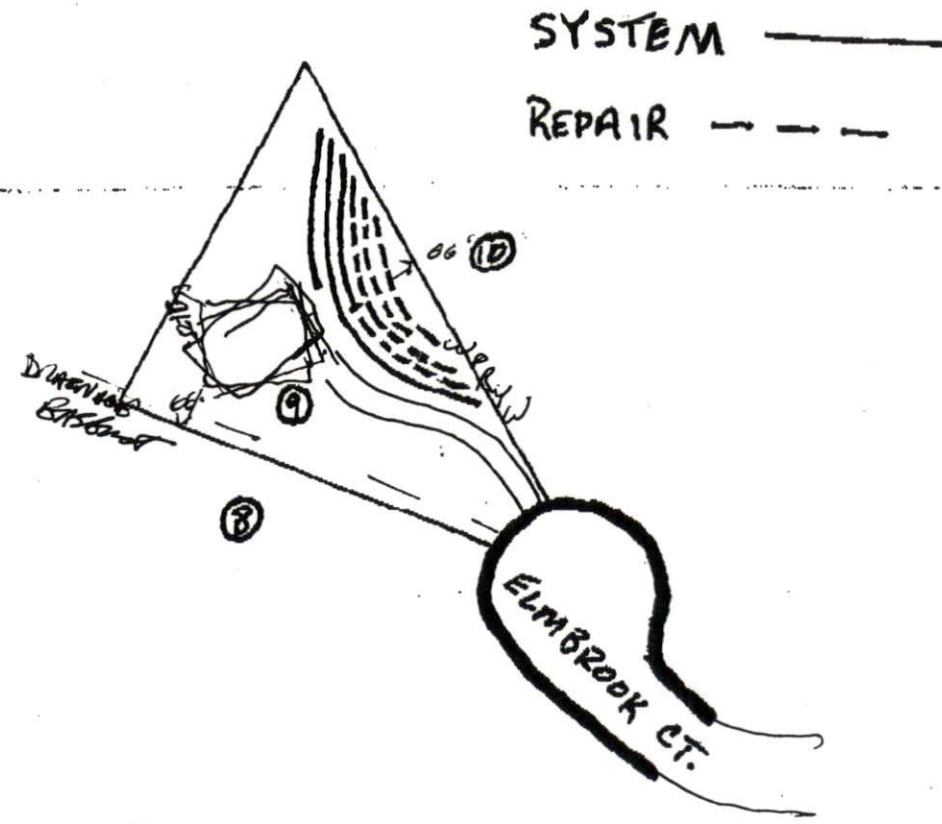

 VICTORIA \longleftrightarrow HILLS
 LOT 9
 \longleftrightarrow

To: Jim MANHART
 From: ROGER EDWARDS



3 BEDROOM HOUSE

EZLAY SYSTEM & REPAIR

0.3 gpd / ft² LTAR

VICTORIA HILLS LOT 9

JOB #: 3851

LAYOUT FOR 3 BEDROOM HOME

March-01

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	LINE LENGTH
TBM		13.4			100.0	
INSTK. 1			113.4			
1	WHITE			4.70	108.7	80
2	PINK			5.95	107.5	68
3	RED			7.10	106.3	112
4	YELLOW			8.40	105.0	40
*4	YELLOW			8.40	105.0	95
*5	WHITE			9.70	103.7	135
*6	PINK			10.60	102.8	72
Total						602

	LINE LENGTH	SYSTEM TYPE	PROPOSED		
			LTAR GPD/FT ²	INNOVATIVE SYSTEM	DISTRIBUTION
* System	300'	INNOVATIVE	0.30	EZ-LAY	PUMP TO D-BOX
REPAIR	302'	INNOVATIVE	0.30	EZ-LAY	PUMP TO D-BOX

Notes:

** TBM located on top of stake at back right corner of lot 9.

**TBM is assumed to be 100'

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

** House and driveway location illustrated on the attached map

**BS and FS indicate rod readings

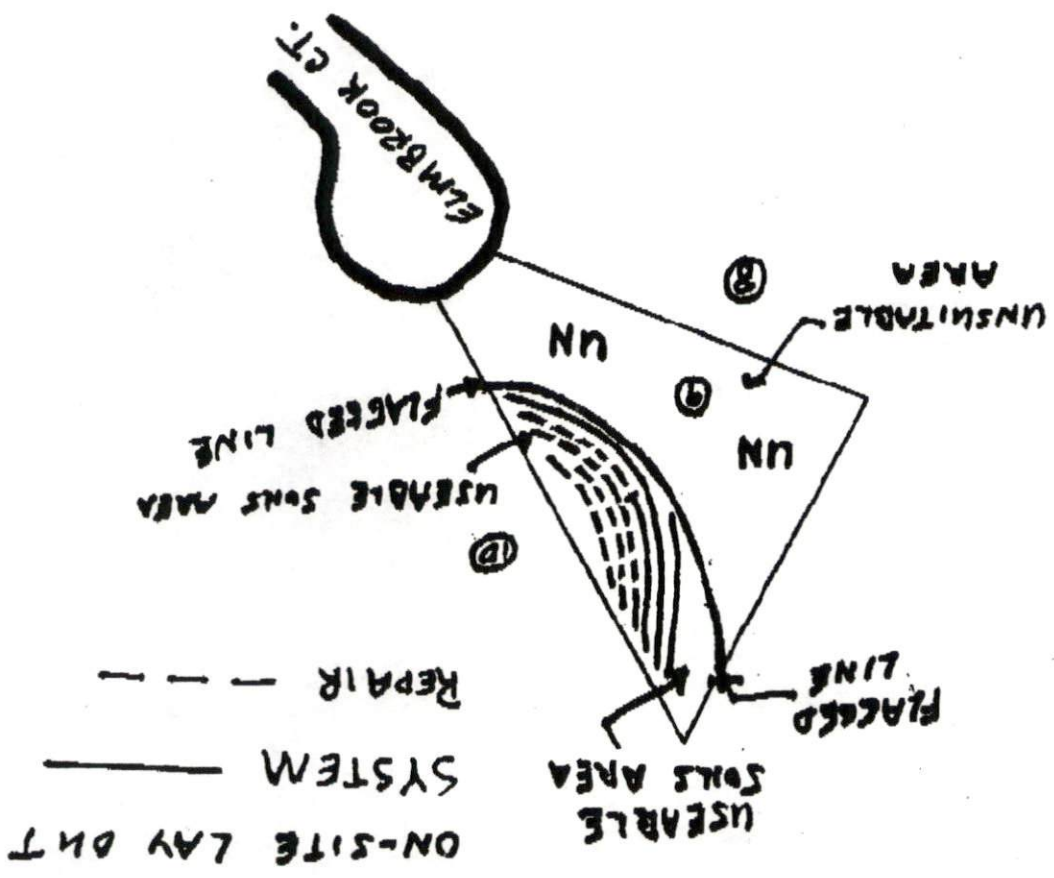
xx 95' OF YELLOW LINE #4 WILL BE USED FOR THE SYSTEM &
 40' OF YELLOW LINE #4 WILL BE USED FOR REPAIR.

Jerry T. Smith

SOILS EVALUATION
SKETCH MAP

0.3 gpd/ft² LTRR

3 BEDROOM HOUSE
E2LAV SYSTEM & REPAIR



VICTORIA HILLS
LOT 9

VICTORIA HILLS LOT 9

JOB #: 3851

October-01

LAYOUT FOR 3 BEDROOM HOME

<u>LINE #</u>	<u>FLAG COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>REVISED LINE LENGTH</u>
TBM		13.4			100.0	
INSTR. 1			113.4			
*1	WHITE			4.70	108.7	80
*2	PINK			5.95	107.5	68
*3	RED			7.10	106.3	112
*4	YELLOW			8.40	105.0	50
4	YELLOW			8.40	105.0	135
5	WHITE			9.70	103.7	100
6	PINK			10.60	102.8	110
Total						655

	<u>LINE LENGTH</u>	<u>SYSTEM TYPE</u>	<u>PROPOSED LTAR GPD/FT²</u>	<u>INNOVATIVE SYSTEM</u>	<u>DISTRIBUTION</u>
* System	310'	INNOVATIVE	0.30	EZ-LAY	PUMP TO D-BOX
REPAIR	345'	INNOVATIVE	0.30	EZ-LAY	PUMP TO D-BOX

- Notes:**
- ** TBM located on top of stake at back right corner of lot 9.
 - **TBM is assumed to be 100'
 - **All measures in feet
 - **Nitrification lines are demonstrated on contour via colored pin flags
 - ** House and driveway location illustrated on the attached map
 - **BS and FS indicate rod readings

VICTORIA HILLS LOT 9

JOB #: 3851

October-01

LAYOUT FOR 3 BEDROOM HOME

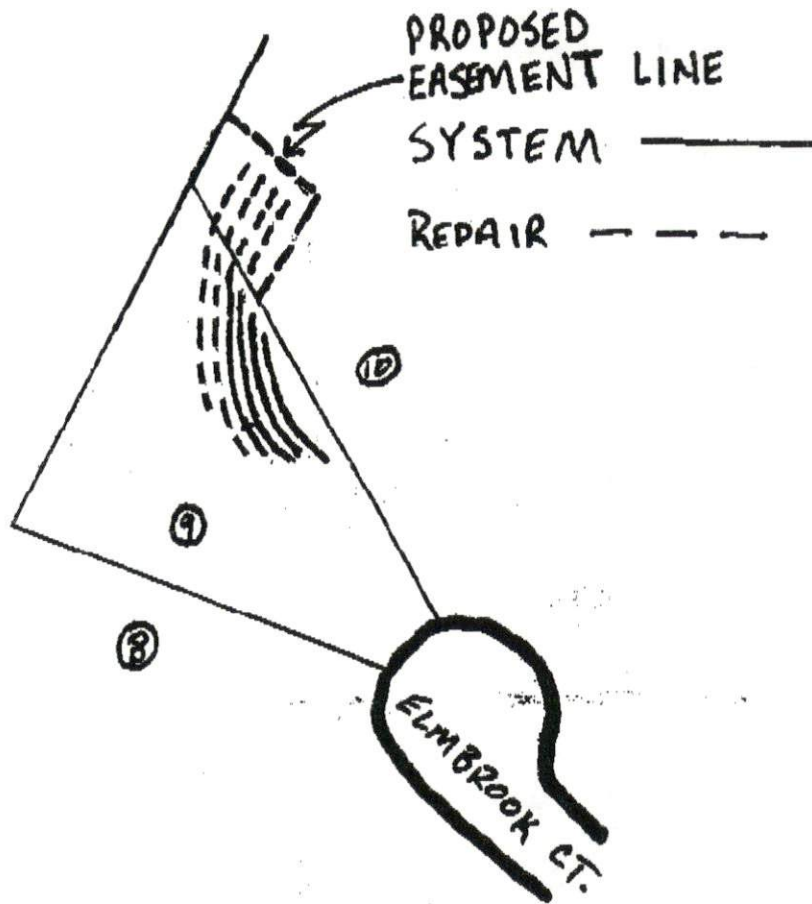
<u>LINE #</u>	<u>FLAG</u> <u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>REVISED</u> <u>LINE LENGTH</u>
TBM		13.4			100.0	
INSTR. 1			113.4			
*1	WHITE			4.70	108.7	80
*2	PINK			5.95	107.5	68
*3	RED			7.10	106.3	112
*4	YELLOW			8.40	105.0	50
4	YELLOW			8.40	105.0	135
5	WHITE			9.70	103.7	100
6	PINK			10.60	102.8	110
					Total	655

	<u>LINE</u> <u>LENGTH</u>	<u>SYSTEM</u> <u>TYPE</u>	<u>PROPOSED</u> <u>LTAR</u> <u>GPD/FT²</u>	<u>INNOVATIVE</u> <u>SYSTEM</u>	<u>DISTRIBUTION</u>
* System	310'	INNOVATIVE	0.30	EZ-LAY	PUMP TO D-BOX
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VICTORIA HILLS

LOT 9



3 BEDROOM HOUSE

EZLAY SYSTEM & REPAIR

0.3 gpd / ft² LTAR

DRAWING NOT TO SCALE

PROPOSED EASEMENT LINE MUST BE SURVEYED.

MR. TIM MANHATT

HARVEST COUNTY EMBROIDERIAL

HEALTH SPECIALIST

VICTORY HILLS LOT 9

MR. BILWARDS - BUILDER

SOIL PROFILE DESCRIPTION - LANDSCAPE AND

OTHER RELATED INFORMATION

SOIL DESCRIPTION (3 Backhoe Pits & Several Soil Augers)
(within usable soil area)
Soil borings

PACOLET SANDY LOAM - 0 to 10 percent slopes.

Ap - 0 to 6 inches; grayish brown (10YR5/2) sandy loam; weak fine to medium granular structure; friable

E - 6 to 9 inches; pale brown (10YR6/3) sandy loam; weak fine to medium granular structure; friable

medium granular structure; friable

Bt1 - 9 to 28 inches (This horizon ranged in thickness from 24 inches to more than 30 inches) red (2.5YR5/6) clay; weak to moderate medium subangular blocky structure; friable to firm; slightly sticky.

Bc - 27 to 31 inches; yellowish red (5YR5/6) clay loam to sandy clay loam; common yellowish brown, red & pink mottles; weak fine subangular blocky structure with about 20% or more of "C" material fragments in horizon.

April 6, 2001

(From: LARRY SMK)

C_n - 31 inches - saprolite that has remained rock structure that is hard to dig with auger and spade.

- This soil would be classified as provisionally suitable for subsurface wastewater treatment systems in alternative or modified version (At grade shallow placement conventional or LPP - Low Pressure Pipe System)
- The useable soils area is on an upland Piedmont ridge in which the soils are becoming shallower to saprolite and rock as the ridge gradually slopes down. The useable areas have soil that are less than 24" to saprolite and mostly "C_n" material or rock. The slope within the useable soils area is provisionally suitable.
- Due to the range of soil depth to saprolite and "C_n" (Hard Saprolite) between 24 to 30 or more inches, a modified conventional system is proposed - EB-22 lay pipe with 6 inches of cover applied to top of drainfield.
- These useable soils formed from felsic Crystalline Rock (ie sericite schist)

Sections 1940 through 1946 in the Laws And Rules For Sewage Treatment And Disposal Systems in North Carolina - Article 11 Chapter 130A 65 were addressed in determining the over-all site suitability for Lot 9.

1940 - provisionally suitable

1941 - provisionally suitable - soil Group IV, blocky structure, non-expansive clay.

1942 - Provisionally suitable - there were no wetness indicators found within usable soils.

1943 - Provisionally suitable - (This was encountered at some depths 24 to 30 inches.

1944 - Provisionally suitable

1945 - On-site layout performed due to limited amount of useable area.

1946 - 350 gallons per day - system with a LTR of 0.3 gallons per sq. ft. per day.
3 bedroom single family dwelling.

Sincerely,

Larry T. Sink

Larry T. Sink

Licensed Soil Scientist, NC