



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
APPLICATION FOR GROUND WATER PROTECTION SERVICES**

1. SERVICE REQUESTED: (check service)	APPLICANT COMPLETE QUESTIONS:	FEES DUE	PTBMIS CODES V689 Code Supp/Code	
<input checked="" type="checkbox"/> Septic System Construction Permit				
<input checked="" type="checkbox"/> Dwelling	2, 3, 4, 7, 8, 9	\$ <u>200</u>	78064	Yes
<input type="checkbox"/> Commercial: gpd	2, 3, 4, 7, 8, 9	\$ _____	78064	Yes
<input type="checkbox"/> System Modification	2, 3, 4, 7, 8, 9	\$ _____	78064	Yes
<input type="checkbox"/> Repair	2, 3, 4, 7, 8, 9	\$ _____	78032	
<input type="checkbox"/> Inspection Letter	2, 3, 5, 7, 8, 9	\$ _____	78030	
<input type="checkbox"/> Water Sample				
<input type="checkbox"/> Total Coliform	2, 3, 6, 7, 8, 9	\$ _____	78036	Yes
<input type="checkbox"/> Fecal Coliform	2, 3, 6, 7, 8, 9	\$ _____	78038	Yes
<input type="checkbox"/> Alternative System Permit*		\$ _____	78068	
<input type="checkbox"/> Large Conventional System Plan Review*		\$ _____	78090	
<input type="checkbox"/> Large Alternative System Plan Review*		\$ _____	78090	
<input type="checkbox"/> Experimental System Plan Review*		\$ _____	78072	
<input type="checkbox"/> Subdivision Evaluation: Lots: _____*		\$ _____	78084	
<input type="checkbox"/> Soil Mapping: Type _____ Acres _____*		\$ _____		Yes
<input type="checkbox"/> Installer Permit: Type(s) _____*		\$ _____	78026	Yes
<input type="checkbox"/> Pumper Permit*		\$ _____	78028	
<input type="checkbox"/> Plat Approval — Individual Lot		\$ _____	78029	
<input type="checkbox"/> Domestic Septage Disposal Site Permit		\$ _____	78031	

*Applicant may review these service requests with Environmental Specialist prior to processing application.

2. **LANDOWNER:** LARRY SCHILLER **APPLICANT** **ORIGINAL OWNER**
 Names: _____ Name: _____ Name: _____
 Address: 13490 RED MAPLE CIR Address: _____
N. FT. MYERS, FL 33903
 Day Phone: 239-699-1862 Day Phone: _____

3. **LOCATION OF LOT OR SITE:** a) In a subdivision? _____ b) Name: 413 ST. ROUTE 784 Lot # _____
 b) Non-Subdivision _____ Give specific directions and address to the lot or site: ON REVERSE SIDE

4. **FOR SSDS PERMIT ONLY:** a) Size of lot 15 ACRES b) Number of Bedrooms 3 Asphalt 11/26/06
 c) How many occupants? _____ d) Excavated Basement? Yes _____ No _____
 e) Basement Plumbing Fixtures? Yes _____ No _____
 f) Amount of water used monthly (gallons) _____
 g) Water Supply: Public _____ Well _____ Spring _____
 h) Is the lot staked? _____ If not, date it will be staked: _____
 Is the house staked? _____ If not, date it will be staked: _____
 i) Installer, if known: _____

WAIT 'TIL MONDAY/TUES
8/9
8/9 - Too muddy to park car.

5. **FOR INSPECTION LETTER ONLY:** Will pick up _____ Please mail _____
 a) Age of house _____ b) Is house vacant? _____ How long? _____
 c) Original sewage system inspected _____
 d) Date of previous repairs _____ Inspected _____
 e) Is waste water "backing up" into plumbing fixtures? _____ Surfacing on the ground? _____
 f) All waste water including washing machines routed into septic tank _____

6. **FOR WATER SAMPLE ONLY:** a) Source of Supply: Spring _____ Well _____
 b) Is there an outside faucet? _____ c) Is the source chlorinated? _____
 d) For Wells: Is the casing 6" above the ground? _____ Is a sanitary seal on the casing? _____

7. MAKE A ROUGH SKETCH ON BACK OF THIS **WHITE** PAGE SHOWING DIRECTIONS TO PROPERTY, PROPERTY LINES, HOUSE SITE, WELL LOCATION, SPRING LOCATION, PLANNED DRIVEWAY AND UTILITIES.

8. ALL FEES DUE IN ADVANCE AND ARE NON-REFUNDABLE (except upon appeal). See Fee Schedule on reverse. Make check payable to: **TREASURER, STATE OF TENNESSEE**

9. I certify that the above information is true and correct to the best of my knowledge, and that I have been authorized by the above named landowner to submit this Application for Environmental Services to the Division of Ground Water Protection.

DATE: 8/5/05 SIGNATURE: Larry J. Schiller AMOUNT PAID: \$ 200.00 RECEIPT NUMBER: 304274

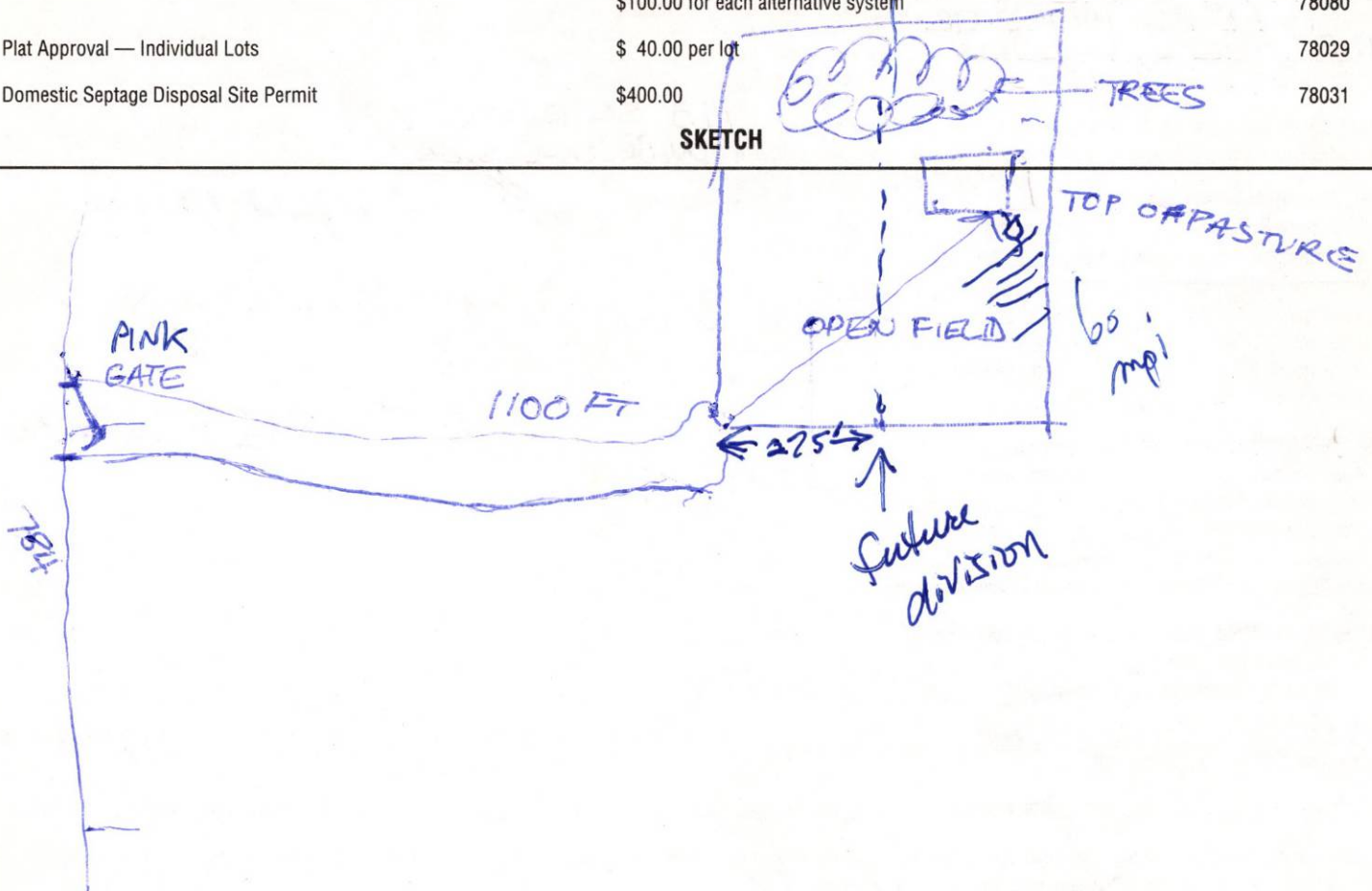
White: File Canary: Owner

FEE SCHEDULE

**PTBMIS
SUPP/CODE**

Evaluation for Conventional, LDGP or Chamber Septic System Permit	\$200.00 up to 1000 gpd \$100.00 for each additional 1000 gpd or portion thereof	78066
Repair	\$None	
Inspection Letter	\$200.00	
Subdivision Evaluation	\$ 40.00 per lot	
Water Samples:		
Total Coliform	\$ 50.00	78036P
Fecal Coliform	\$ 100.00	78036P
Soil Mapping:		
General Intensity	\$ 80.00 per acre — \$ 80.00 minimum	78078
High Intensity	\$130.00 per acre — \$130.00 minimum	78040
Extra High Intensity	\$200.00 per acre — \$200.00 minimum	78042
(Minimum is for each separate acre or part of acre to be mapped)		
Alternative System Application Processing	\$300.00 up to 1000 gpd \$150.00 for each additional 1000 gpm or portion thereof	78071 78070
Large Conventional or Large Alternative Plan Review	\$600.00 per proposed system	
Experimental System Application Processing	\$500.00	
Pumper Permit	\$200.00	
Installer Permit	\$200.00 for conventional, LDGP and chamber \$100.00 for each alternative system	78080
Plat Approval — Individual Lots	\$ 40.00 per lot	78029
Domestic Septage Disposal Site Permit	\$400.00	78031

SKETCH



Official Use:

File Search _____
 Absorption Rate _____ At Depth _____
 Percolation Rate _____ At Depth _____
 Other Requirements _____

304274

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF GROUND WATER PROTECTION
PERMIT FOR CONSTRUCTION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM

Issued to: LARRY SCHILLER
Owner, Developer, Contractor, Installer, Etc.
Location: 413 CR 784
Installation:
 1. New Installation 3
 2. Repair to Existing System 4
Establishment:
 1. Residential: # Bedrooms 4
 2. Other: _____
(specify)
Gal/Day _____

Evaluation Based Upon:
 1. Soil typing by Soil Scientist
 a. General
 b. High Intensity
 c. Extra High Intensity
 2. Soil Percolation Test
 3. Environmental Specialist
Estimated Absorption Rate: 60 MPI OR
Approval based upon:
Statute No. T.C.A. 68-221-403
 (c) Percolation test
 (d) Grandfather clause. Current standards except those specified
 (f) 12" (karst) and 6" (non-karst) buffer required

Type of System:
 1. Conventional
 2. Low Pressure Pipe
 3. Mound
 4. Lagoon
 5. Large Diameter Gravelless Pipe
 a. Sand backfill required
 6. Other CHAMBER OR EZ FLOW
@ 30% REDUCTION = 231'
 (i) 9" buffer required (24"-36" total soil depth)
 (k) Grandfather clause — meets June 30, 1990 standards (repair only)
 Other CURRENT REGS

This system shall consist of a two compartment septic tank holding 330 gallons, with 440 linear feet in 4+ trenches, 36 inches wide and 24-36 inches deep. (Depth of gravel: 12 inches)

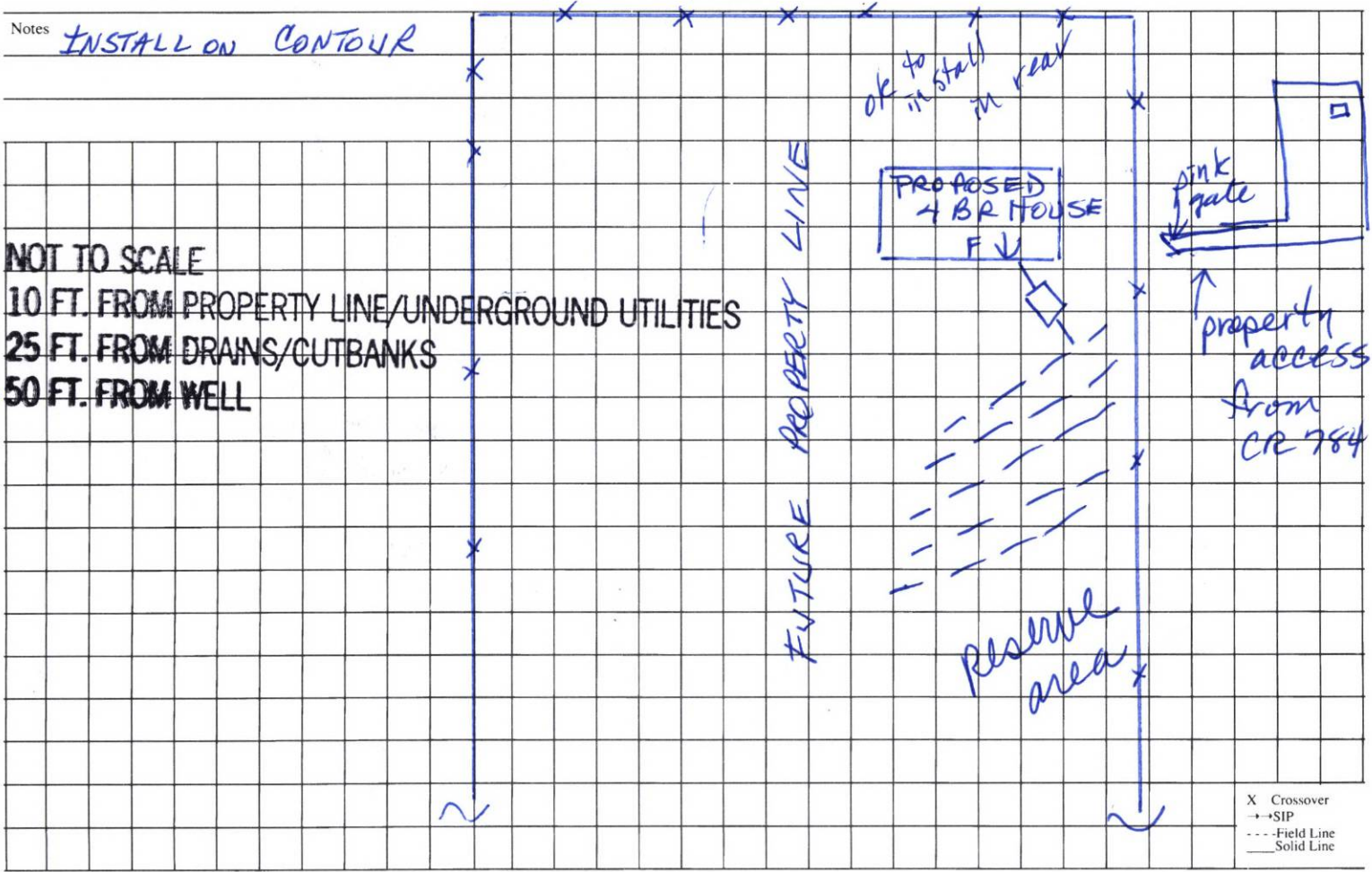
Also required:
 1. Soil Improvement Practice (SIP)
 2. Flow Diversion Valve
 3. Sewage Pump
 4. Other: _____

All installers of subsurface sewage disposal systems must hold a valid annual license from the Tennessee Department of Environment and Conservation.

The recipient of this permit agrees to construct or have constructed the above described system in accordance with T.C.A. 68-221-401 et. seq. and The Regulations To Govern Subsurface Sewage Disposal Systems. If any part of the system is covered before being inspected and approved, it shall be uncovered by the recipient of the permit at the direction of personnel of the Department of Environment and Conservation. **Any cutting, filling or alterations of the soil conditions on the aforementioned property after this day may render this approval null and void.**

By: X Wayne Smith (Signature of Recipient) Date: 8-15-05
Issued at: 911 CENTER in Allen Tennessee, in McMinn County
By: Andree Gephart EST III (Name and Title) Date: 8/15/05 (Date of Issue)

This permit is valid for 3 years from date of issue.



This is a permit to construct and is not intended to imply approval of any work proposed or completed on this lot.



CERTIFICATE OF COMPLETION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM

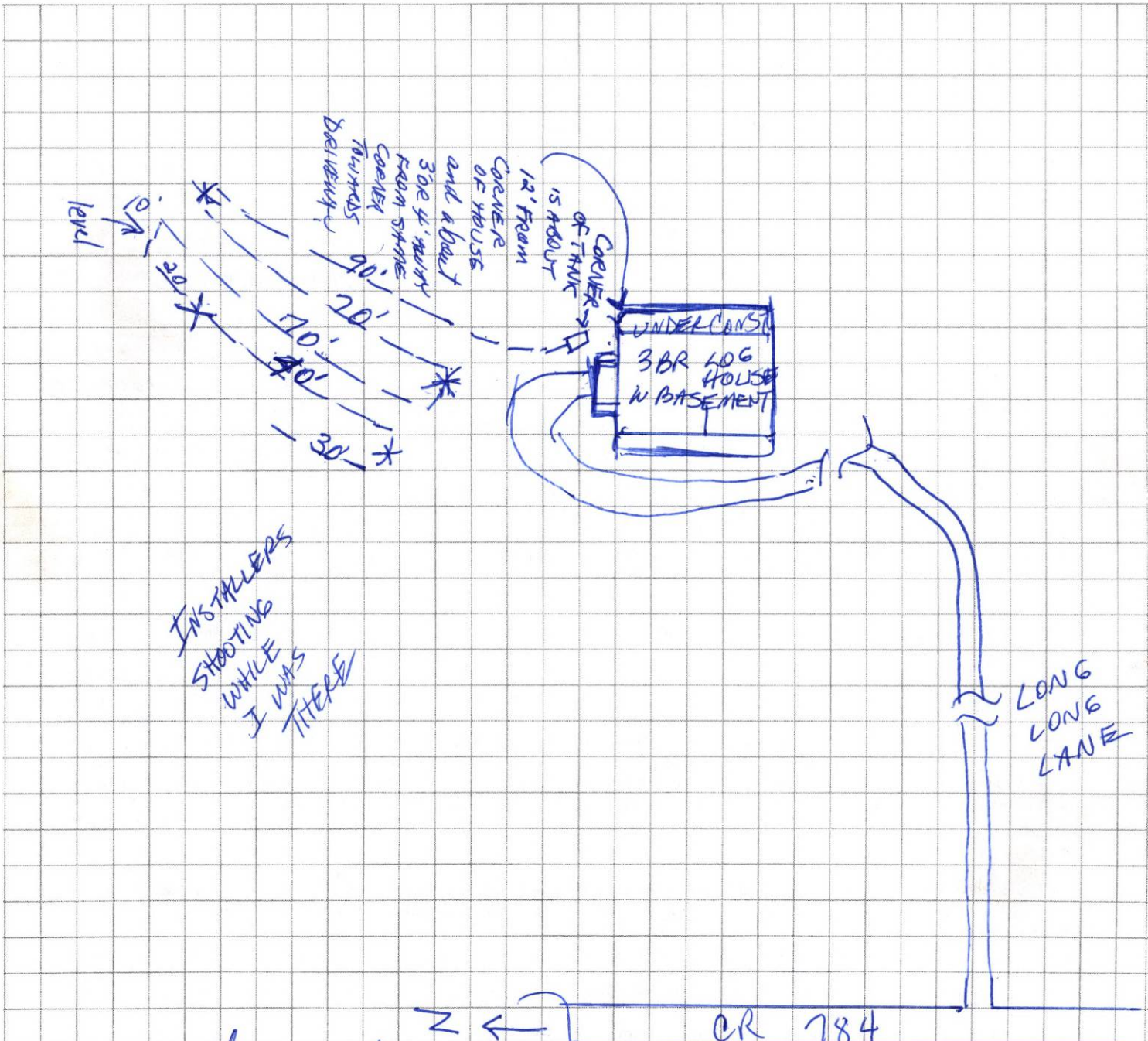
Issued to: LARRY SCHILLER
Owner, Developer, Contractor, Installer, Etc.

Location: 413 CR 784

Type of system
() 1. Conventional
() 2. Low Pressure Pipe
() 3. Mound
() 4. Lagoon
() 5. Large Diameter Gravelless Pipe
(a) Sand backfill required Yes () No ()
() 6. Other HAMPTON 1000 Septic Tank
(type) (volume)

Estimated Absorption Rate 60
(minutes per inch)

() New Installation () Repair () Other
Installed by: DANNY PROR



Construction Approved By: Andrew Gephart EST III (Name and Title) 2/1/06 (date)

SEPTIC TANK CARE

Residential sewage disposal systems are generally used in rural and unsewered suburban areas. A septic tank system must be properly designed, installed and maintained if reasonable service is to be expected.

A septic tank is a water tight structure in which organic solids are decomposed by natural bacterial processes. The flow of sewage is slowed in its passage through the tank so that larger solids settle to the bottom and accumulate as sludge. Grease and lighter particles rises to the surface and form scum.

The bacteria present in a tank are able to thrive in the absence of oxygen. Such decomposition in the absence of air is called "septic," which led to the naming of the tank. Solids and scum are digested and reduced to a smaller volume by the bacteria in the tank. However, a residue of sludge remains which must be stored during the interval between tank and cleanings.

The partially treated sewage, or effluent, flowing from the tank is still septic and contains large numbers of harmful bacteria and organic matter in a finely divided state or in solution. Foul odors, unsightly conditions and health hazards will develop if this effluent is ponded on the surface of the ground or carried away in open ditches. Final disposal of the effluent in a subsurface soil absorption system or filter is necessary to avoid these problems.

LOCATION

To facilitate inspection and maintenance, it is imperative that the homeowner knows the location of all parts of the disposal system. Such information may be obtained from the local health authority. Details and accurate measurements including the location of the tank, pumps, underground piping, and the absorption system should be shown on a sketch for future reference.

Then local health authority should be consulted to determine the minimum requirements relating to distance between disposal systems and water supply facilities.

MAINTENANCE

The frequency of cleaning depends on the size of the septic tank and the number of people it serves. When a garbage grinder is used, more frequent cleaning will be required. With ordinary use and care, a septic tank may require cleaning ever 2 or 3 years. However in many cases septic tanks can be satisfactorily operated even longer. The homeowner should determine for himself when his tank needs cleaning.

Actual measurement of sludge deposit and scum accumulation is the only method of determining when a tank need to be cleaned.

Scum can be measured with a stick to which a weighted flap has been hinged, or with any device that can be used to feel out the bottom of the scum mat. The stick if forced through the mat, the hinged flap falls into a horizontal position, and the stick is raised until resistance from the bottom of the scum felt. With the same tool, the distance to the bottom of the outlet device can be found.

A long stick wrapped with-rough white toweling and lowered to the bottom of the tank will show the depth of sludge and the liquid depth of the tank. The stick should be lowered behind the outlet device to avoid scum particles. After several minutes, if the stick is carefully removed, the sludge line can be distinguished by sludge particles clinging into the toweling.

In two-compartment tanks, measurements should be made near the outlet of the first compartment.

The tank should be cleaned if either (a) The bottom of the scum mat is within 3 inches of the bottom of the outlet device; or (b) sludge comes within the limits specified in the accompanying table.

LIQUID CAPACITY OF TANK GALLONS	LIQUID DEPTH		
	3 feet	4 feet	5 feet
	Distance from bottom of outlet device to top of sludge, inches.		
750	6	10	13
900	4	7	10
1,000.....	4	6	8

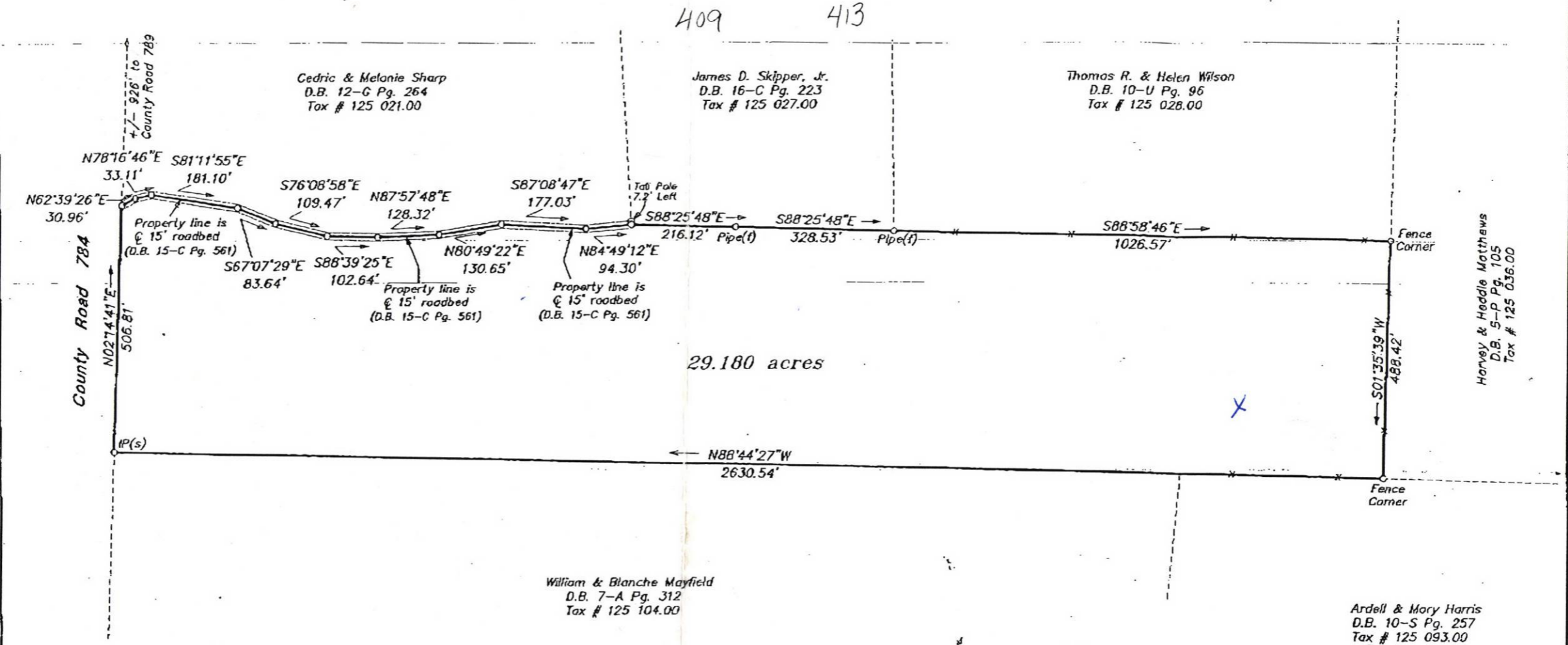
Do not allow any person who does not have a health department permit to pump your septic tank. Septic tanks are usually cleaned by companies who make this operation a business. The homeowner should check with the local health department for the names of reputable companies in the area.

There are no known chemicals, yeasts or other substance capable of eliminating or reducing the solids in a septic tank so that cleaning is unnecessary. The use of such product is not necessary for the proper operation of a septic tank.

Septic tanks and absorption systems frequently are damaged by heavy trucks or equipment moving over them. Reference to the location sketch of the system will be found helpful in directing heavy vehicles away from the critical areas. If there is no way to avoid crossing a sewer line, cast iron should be used under the crossing.

The roots of trees and shrubbery may enter the tile lines and clog them completely. When this occurs, the roots can be removed only digging up and cleaning the tile line.

Neglect of the septic tank is the most common cause of damage to soil absorption systems. When the tank is not cleaned, solids build up and are carried over into the absorption system causing clogging of the soil. When this happens the absorption system must be relocated and rebuilt.



409 413

Cedric & Melanie Sharp
D.B. 12-G Pg. 264
Tax # 125 021.00

James D. Skipper, Jr.
D.B. 16-C Pg. 223
Tax # 125 027.00

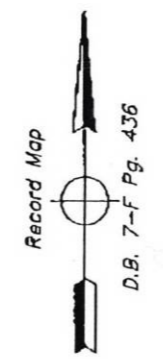
Thomas R. & Helen Wilson
D.B. 10-U Pg. 96
Tax # 125 028.00

Harvey & Heddle Matthews
D.B. 5-P Pg. 105
Tax # 125 036.00

William & Blanche Mayfield
D.B. 7-A Pg. 312
Tax # 125 104.00

Ardell & Mory Harris
D.B. 10-S Pg. 257
Tax # 125 093.00

SURVEY FOR
Roger Watkins
Larry Schiller
COUNTY ROAD 784
Showing a 29.180 acre tract
being Existing Tax # 125 020.00
FOURTH CIVIL DISTRICT
McMINN COUNTY, TENNESSEE
SURVEYED JULY 19, 2005
SCALE : 1" = 200'



I hereby certify that this is a
Category II survey and the ratio
of precision of the unadjusted
survey is 1 : 15,000 as shown.

Cantley Surveying
P.O. Box 1622
Athens, TN 37371
(423) 746 - 9952



JOB NO. 2005.063

- NOTES :
- 1) REFERENCES :
DEED BOOK 4-K PAGE 355
TAX MAP NO. 125 020.00
PRESENT OWNER: ED SIMPSON ESTATE
 - 2) THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND, THEREFORE, MAY NOT NECESSARILY INDICATE ALL ENCUMBRANCES UPON THE PROPERTY.
 - 3) PROPERTY SHOWN HEREON DOES NOT LIE WITHIN THE LIMITS OF A 100 YEAR FLOOD BOUNDARY.

END OF RECORD