MacLeay Associates, Inc.
CIVIL ENGINEERS

102 BRIDGE STREET
SHELBURNE FALLS, MA 01370
PHONE (413) 625-9774
FAX (413) 625-9704

SYSTEM INSTALLATION OBSERVATION REPORT

SITE INFORMATION

LOT # 2 DATE: 9/1/98
STREET SWALLOW FARMS ROAD
TOWN AMHERST
JOB # 90-063-2

OWNER INFORMATION

PROPERTY OWNER ALI MOSHIRI
STREET ADDRESS
TOWN

INSTALLER INFORMATION

NAME OF INSTALLER L & F CONSTRUCTION
STREET ADDRESS 103 LONG PLAIN ROAD
TOWN LEVERETT

OBSERVATION RESULTS

DATE OF OBSERVATION: *8/31/98*

(X) THE SYSTEM APPEARED TO BE INSTALLED SUBSTANTIALLY IN ACCORDANCE WITH THE APPROVED PLAN, AND IS IN COMPLIANCE WITH TITLE 5.

( ) THE SYSTEM DOES NOT APPEAR TO HAVE BEEN INSTALLED ACCORDING TO THE APPROVED PLAN, AND IS NOT IN COMPLIANCE WITH TITLE 5.

DEFICIENCIES:

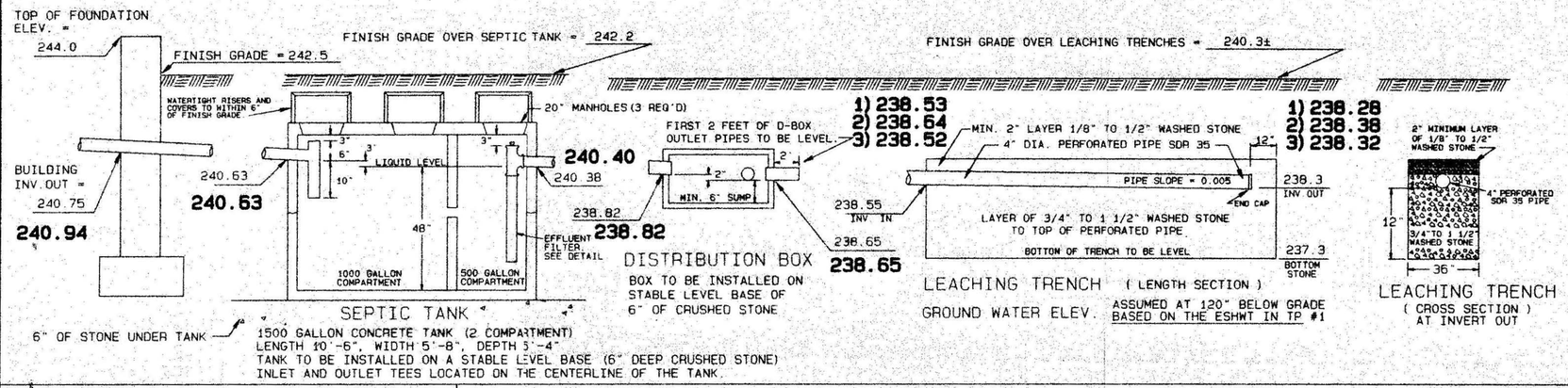
( ) THE SYSTEM DOES NOT APPEAR TO HAVE BEEN INSTALLED ACCORDING TO THE APPROVED PLAN, BUT IS IN COMPLIANCE WITH TITLE 5. ENCLOSED IS A COPY OF THE PLAN SHOWING "*AS BUILT*" LOCATIONS AND ELEVATIONS.

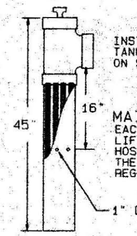
COMMENTS:

DOUGLAS J. MacLEAY, P.E.
PRESIDENT

SEND COPIES TO: BOARD OF HEALTH

SANITARY SYSTEM PROFILE (NO SCALE)





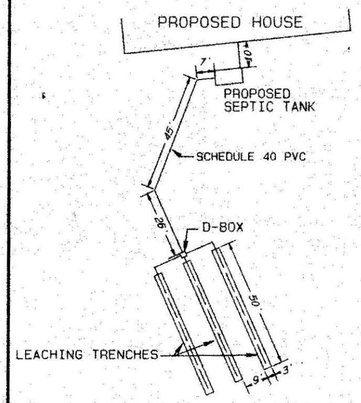
MAINTENANCE:
EACH TIME THE SEPTIC TANK IS PUMPED, LIFT OUT THE FILTER CARTRIDGE AND HOSE OFF THE SCREEN.
THE FILTER WILL CLOG IF IT IS NOT REGULARLY MAINTAINED.

ORENCO BIOTUBE EFFLUENT FILTER
MODEL # FT0436
AVAILABLE FROM SANECO, INC., ESSEX, MASS.
PHONE (978) 768-3840

NOTES:

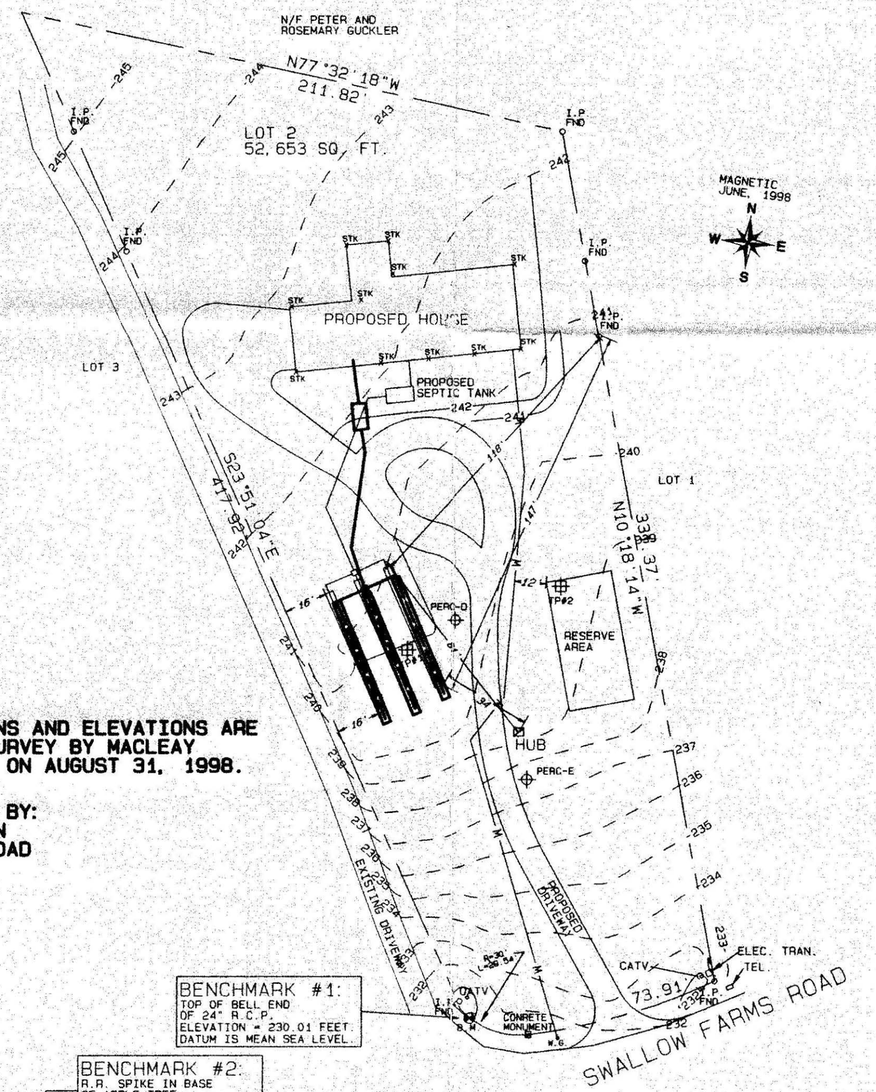
1. TITLE 5 REQUIRES OBSERVATION OF THE INSTALLED SYSTEM BY THE DESIGN ENGINEER AND A BOARD OF HEALTH MEMBER OR AGENT FOR THE BOARD OF HEALTH. THE SYSTEM MUST NOT BE BACKFILLED PRIOR TO OUR OBSERVATION. CONTACT OUR OFFICE AND THE BOARD OF HEALTH TWO BUSINESS DAYS BEFORE REQUESTED DATE FOR OBSERVATION.
2. ALL DISTURBED AREAS SHOULD BE LOAMED, RAKED, FERTILIZED, SEEDED AND MULCHED AT THE COMPLETION OF CONSTRUCTION.

PROPERTY LINE REFERENCE:
PROPERTY LINES AS SHOWN ARE BASED ON A CLUSTER SUBDIVISION DEFINITIVE PLAN IN AMHERST MASS. PREPARED FOR CONSTANCE LESLIE, PREPARED BY H.L. EATON AND ASSOC., DATED 10/17/91.



SYSTEM DIMENSIONS

SCALE: 1" = 40'



AS-BUILT LOCATIONS AND ELEVATIONS ARE BASED ON FIELD SURVEY BY MACLEAY ASSOCIATES, INC. ON AUGUST 31, 1998.

SYSTEM INSTALLED BY:
L &F CONSTRUCTION
103 LONG PLAIN ROAD
LEVERETT, MA

BENCHMARK #1:
TOP OF BELL END OF 24" R.C.P.
ELEVATION = 230.01 FEET.
DATUM IS MEAN SEA LEVEL.

BENCHMARK #2:
R.R. SPIKE IN BASE OF APPLE TREE.
ELEVATION = 235.88 FEET.
DATUM IS MEAN SEA LEVEL.

SITE PLAN

GRAPHIC SCALE 1"=40'
0 40 80 120

SITE LOCUS
SCALE: 1" = 2083'
(FROM USGS BELCHERTOWN QUADRANGLE)

TEST PIT DATA

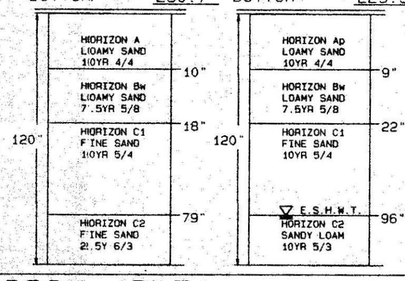
BOARD OF HEALTH WITNESS: DAVID ZAROZINSKI
DATE: MAY 21, 1998
SOIL EVALUATOR: DOUGLAS J. MacLEAY, P.E.

PERC TEST ID	PERC RATE (MIN/IN)	PERC DEPTH (IN)
D	<2	51
E	<2	79

PERCOLATION TESTS PERFORMED MAY 14, 1990 BY DOUGLAS MacLEAY. WITNESSED BY DAVID ZAROZINSKI.

TEST PIT # 1
ELEV. TOP = 240.7
ESHWT = <230.7
OBS. H20 = NONE
BOTTOM = 230.7

TEST PIT # 2
ELEV. TOP = 239.5
ESHWT = 231.5
OBS. H20 = NONE
BOTTOM = 229.5



DESIGN DATA

DESIGN BASED ON SINGLE FAMILY RESIDENCE (4 BEDROOM)
DESIGN FLOW 110 GALLON PER DAY PER BEDROOM
TOTAL DESIGN FLOW 440 GALLON PER DAY.

SEPTIC TANK

440 GALLONS X 200% = 880 GALLONS DESIGN CAPACITY.
USE 1500 GALLON 2 COMPARTMENT SEPTIC TANK.

LEACHING TRENCHES

THE TOWN OF AMHERST REQUIRES 1.25 TIMES MINIMUM TITLE 5 LEACHING AREA. 440 GPD / 0.74 GSF X 1.25 = 743 SQ.FT. MINIMUM PER TOWN OF AMHERST REGULATION.

SIDEWALL:
2 X 50' LENGTH X 1.0' DEPTH = 100 SQUARE FEET.
100 SQ. FT. X 0.74 GAL. PER SQ.FT. = 74 GAL. LEACHING.

BOTTOM:
50' LENGTH X 3.0' WIDTH = 150 SQUARE FEET.
150 SQ. FT. X 0.74 GAL. PER SQ.FT. = 111 GAL. LEACHING.

TOTAL NUMBER OF LEACHING TRENCHES 3
TOTAL LEACHING AREA = 750 SQUARE FEET.
TOTAL LEACHING CAPACITY = 555 GALLONS PER DAY.

GENERAL NOTES

1. 4" PIPE WITH TIGHT JOINTS TO BE USED IN DISPOSAL SYSTEM EXCEPT WHERE OTHERWISE NOTED.
2. 4" SDR 35 PERFORATED PIPE TO BE USED IN LEACHING AREA.
3. 1500 GALLON 2 COMPARTMENT REINFORCED CONCRETE SEPTIC TANK.
4. AMHERST BOARD OF HEALTH MUST BE NOTIFIED WHEN SYSTEM IS NEARLY COMPLETE AND PRIOR TO BACKFILLING.
5. ELEVATIONS BASED ON ASSUMED DATUM
6. UNLESS OTHERWISE NOTED, ALL SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH TITLE 5 OF THE STATE SANITARY CODE AND ANY APPLICABLE LOCAL RULES.
7. ANY CHANGE TO THIS PLAN MUST BE APPROVED BY THE BOARD OF HEALTH AND THE DESIGN ENGINEER.
8. THIS SYSTEM IS NOT DESIGNED FOR A GARBAGE GRINDER.

LEGEND

- 100 — EXISTING CONTOURS
- 100 — PROPOSED CONTOURS
- 4" SDR 35 PERFORATED PIPE
- 4" SDR 35 SOLID PIPE
- WATER LINE
- FENCE
- EDGE OF WETLAND
- CENTERLINE STREAM
- PROPERTY LINE
- **AS-BUILT**

AS-BUILT 9/11/98

SHEET NO. 1 OF 1.

REV.	DATE	BY	DESCRIPTION	APPR.
2	9/1/98	S.K.	AS-BUILT	D.M.
1	8/12/98	S.K.	WATERLINE LOCATION/RESERVE AREA	D.M.

SCALE: AS SHOWN
DRN. BY: D.P.
CHECKED: D.M.
APPROVED: COMMONWEALTH OF MASSACHUSETTS DOUGLAS J. MACLEAY No. 31203 CIVIL REGISTERED PROFESSIONAL ENGINEER

TITLE: SUBSURFACE SEWAGE DISPOSAL PLAN IN AMHERST, MASSACHUSETTS
FOR: ALI MOSHIRI
SWALLOW FARMS ROAD - LOT 2
DATE: JULY 31, 1998
JOB NO. 90-063-2

MacLEAY ASSOCIATES, INC.
102 BRIDGE STREET, SHELBURNE FALLS, MA 01370
TELEPHONE: (413) 625-9774 FAX: (413) 625-9704

Ck # 1608

TOWN OF AMHERST
HEALTH PERMITS/ INSPECTION SERVICES

№ 0497

Received of Michael Wilcox (Name) of 23 Country Corners Rd Amh (Address)

For Property Located at: Lot 2 Swallow Farms Rd Amh. (Street Address) Ali Moshiri (Owner)

HEA009 Bakery R6510 443508		**HEA014** Retail Store Permit R6510 443514	
HEA001 Bed & Breakfast R6510 443516		**HEA015** Sanitary Code Booklets R6510 432305	
HEA025 Burial Permits R6510 443517		**HEA016** Septic Tank Permit-Installers R6510 443511	
HEA002 Catering License R6510 443507		**HEA017** Septic Tank Permit-Private R6510 443510	(1) 60.00
HEA003 Food Handler R6510 443515		**HEA018** Septic Tank Reinspection Fee R6510 432301	
HEA004 Frozen Desserts R6510 443501		**HEA026** Smoking & Tobacco Reg. Violations R6510 443518	
HEA024 Funeral Director License R6510 443502		**HEA019** Sub-Division Review Fee R6510 432306	
HEA005 Health Dept. Housing Insp. R6510 432302		**HEA012** Swimming Pool Permits R6510 443512	
HEA006 Massage Therapy License R6510 443504		**HEA023** TB Clinic R6510 432303	
HEA007 Milk & Cream License R6510 443500		**HEA020** Tanning License R6510 443509	
HEA008 Motel License R6510 443506		**HEA022** Tobacco License R6510 443505	
HEA010 Removal of Offal R6510 443513		**HEA**	
HEA011 Percolation Test Fees R6510 432300		**HEA**	
HEA013 Recreation Camp License. R6510 443503			

TOTAL FEE: $60.00

Bernie Lewis
Inspection Services/Health Department

9.9.98
Date

EILEEN MUIR 9-31-98

TOWN OF AMHERST
MISC CASH RECEIPTS
Date / Time : 09/09/98 [illegible]
Payment : [illegible]
Receipt # : [illegible]
Check/Credit Card # : [illegible]
Chart : [illegible]
Paid by : MISC RECEIPTS

Must be validated by the Collector's Office to be considered paid.

White - Applicant *Yellow - Collector* *Pink - Accounting* *Gold - Health/Inspections*

TOWN OF AMHERST

INSPECTION SERVICES/HEALTH PERMITS

CH# 1103

Received of Michael P. Wilcox (11) of 23 Country Corners Rd
Name Address

For Property Located at H Swallow Farms Rd Same
Street Address Owner

Swallow

	Bakery	01-0-501-4433-00		Perc Test	01-0-501-4344-00
	Bed & Breakfast	01-0-501-4474-01		Pool	01-0-501-4471-00
	Catering	01-0-501-4429-00		Rec. Camp	01-0-501-4424-00
	Food Handler	01-0-501-4474-00		Retail Permit	01-0-501-4473-00
	Frozen Desserts	01-0-501-4421-00		Sanitary Code Booklet	01-0-501-4380-00
	Housing Inspection	01-0-501-4348-00		Septic Installers Permit	01-0-501-4470-01
	Massage	01-0-501-4425-00	✓	Septic Private Applications	01-0-501-4470-00
	Milk	01-0-501-4420-00		Septic - Reinspection	01-0-501-4345-00
	Motel License	01-0-501-4428-00		Sub-Division Rev.	01-0-501-4460-00
	Miscellaneous	01-0-501-_____		Tanning	01-0-501-4434-00
	Offal/Garbage	01-0-501-4472-00		Twenty-one D Tickets	01-0-501-4879-00

RECEIVED JUN 24 1997 TOWN OF AMHERST TREASURER

TOTAL FEE: 60 00

NJLund 6-24-97 RML
Treasurer/Collector Date

Inspection Services

White - Applicant *Yellow - Collector* *Pink - Inspection Services*

TOWN OF AMHERST

INSPECTION SERVICES/HEALTH PERMITS

253-9602

CAF 7

Received of Mike Wilcox (Name) of 23 Country Corners Rd (Address)

For Property Located at Swallow Farms Road (Street Address) Wilcox (Owner)

	Bakery	01-0-501-4433-00		Perc Test	01-0-501-4344-00
	Bed & Breakfast	01-0-501-4474-01		Pool	01-0-501-4471-00
	Catering	01-0-501-4429-00		Rec. Camp	01-0-501-4424-00
	Food Handler	01-0-501-4474-00		Retail Permit	01-0-501-4473-00
	Frozen Desserts	01-0-501-4421-00		Sanitary Code Booklet	01-0-501-4380-00
	Housing Inspection	01-0-501-4348-00		Septic Installers Permit	01-0-501-4470-01
	Massage	01-0-501-4425-00	✓	Septic Private Applications	01-0-501-4470-00
	Milk	01-0-501-4420-00		Septic - Reinspection	01-0-501-4345-00
	Motel License	01-0-501-4428-00		Sub-Division Rev.	01-0-501-4460-00
	Miscellaneous	01-0-501-_____		Tanning	01-0-501-4434-00
	Offal/Garbage	01-0-501-4472-00		Twenty-one D Tickets	01-0-501-4879-00

TOTAL FEE: 60.00

Norma J. Lynch — Treasurer/Collector

Date

Inspection Services

PAID #47 OCT 23 1996 TOWN OF AMHERST TREASURER

White - Applicant *Yellow - Collector* *Pink - Inspection Services*