

850 Belcherston Rd.



No. 93-1

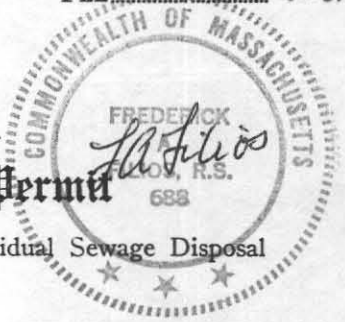
FEE 115/19302
Ps 160
By John P
Zahadnik

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

Application for Disposal Works Construction Permit



Application is hereby made for a Permit to Construct () or Repair () an Individual Sewage Disposal System at:

850 Belchertown Road same
Location - Address or Lot No.
MARION JAMES DAYTON 850 Belchertown Road
Owner Address
Karls Excavating Hadley Mass
Installer Address

Type of Building Dwelling — No. of Bedrooms 3 Expansion Attic () Garbage Grinder ()
Other — Type of Building _____ No. of persons _____ Showers () — Cafeteria ()
Other fixtures _____

Design Flow 55 gallons per person per day. Total daily flow 618.75 gallons.
Septic Tank — Liquid capacity 1500 gallons Length _____ Width _____ Diameter _____ Depth _____
Disposal Trench — No. _____ Width _____ Total Length _____ Total leaching area _____ sq. ft. Sides
Seepage Pit No. 1 Diameter 76" x 8" Depth below inlet 1.5 Total leaching area 368 sq. ft. Bottom

Other Distribution box () Dosing tank ()
Percolation Test Results Performed by Filios Enterprises Inc Date Dec. 14, 1992
Test Pit No. 1 1 minutes per inch Depth of Test Pit 10' Depth to ground water 87"
Test Pit No. 2 _____ minutes per inch Depth of Test Pit 12' Depth to ground water 9'

Description of Soil Enclosed

Nature of Repairs or Alterations — Answer when applicable _____

Agreement: The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Environmental Code — The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Signed Marion M Dayton 3/19/93
Date

Application Approved By _____ Date _____

Application Disapproved for the following reasons: _____ Date _____

Permit No. 93-1 Issued _____ Date _____

Checked 9/21/93
JR Filios

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH
Town OF Amherst
Certificate of Compliance
Jan Kovacek

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired () by 850 Belchertown Road Installer

at 850 Belchertown Road has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 93-1 dated _____

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE 9/21/93 Inspector Paul Jordan

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH
Town OF Amherst

No. 93-1 FEE 115/193
160 ps

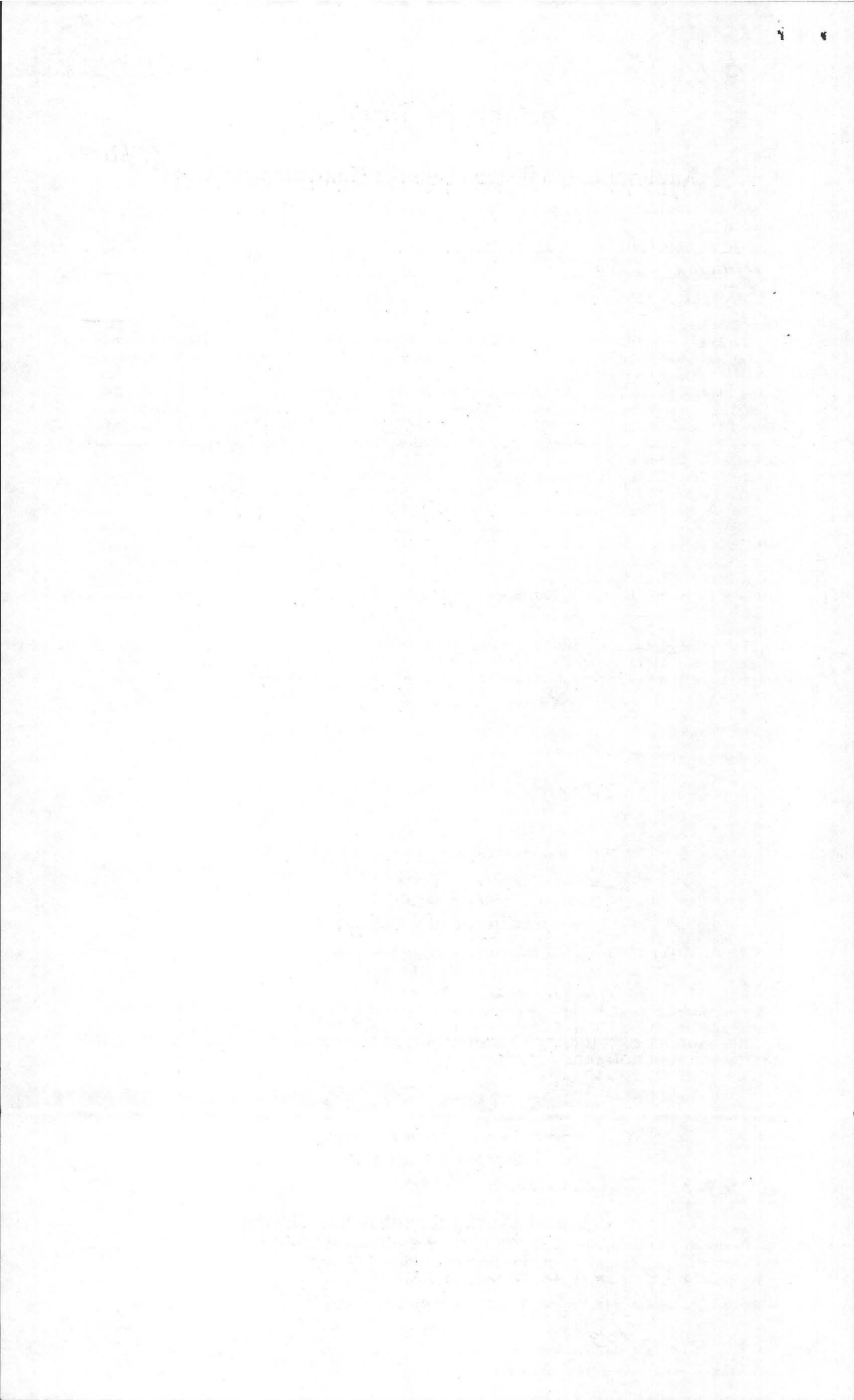
Disposal Works Construction Permit

Permission is hereby granted MARION JAMES DAYTON to Construct () or Repair () an Individual Sewage Disposal System at No. 850 Belchertown Road

as shown on the application for Disposal Works Construction Permit No. 93-1 Dated _____

DATE 2/17/93 Board of Health Jan Kovacek granted 2/17/93

CHECK OR FILL IN WHERE APPLICABLE



February 26, 1993

Mr. & Ms. Dayton
850 Belchertown Road
Amherst Massachusetts 01002

Dear Mr. & Ms. Dayton:

The Amherst Board of Health at their meeting on February 17, 1993 voted to grant your request for a variance to local exceptions to Title V to allow leaching facilities closer than 100 feet to a watercourse.

Sincerely,

Bettye Anderson Frederic
Director

cc: Department of Environmental Protection
Western Region Division
Dwight Street
Springfield Massachusetts 01103

Filos Enterprises, Inc.

69 Pelham Rd., Amherst, MA 01002 (413) 256-8008

February 2, 1993

Board of Health
Town of Amherst
Bangs Community Center
Amherst, MA 01002

Dear Board Members:

I recommend that the request for a variance to the Amherst Board of Health regulations governing Subsurface Disposal of Sanitary Sewage Section 3 - d. Distances [ref 15.03 (7)] requiring a 100' setback from a subsurface sewage disposal system to a bordering vegetated wetlands (being interpreted as a form of watercourse) for James and Miriam Dayton be approved. The proposed repaired system will increase the distance from the leach area from approximately 45' for the current failed leach area to a minimum of 55' at the closest point. Further increase in this distance is precluded because of the steep slope against which the system is designed. The outlet from the house and the septic tank are maintained at between 75' and 60' from the wetland. This request does not represent a need for variance to Title 5 requirements because the State requirements for 50' setback to wetlands and 100' setback to the pond are maintained. The proposed system represents an improvement on the system being repaired which has been in use for many years in many key areas:

- The septic tank has been increased from 800 to 1500 gal. capacity.
- The distance from the foundation drain to the septic tank has been increased to 26'.
- The capacity of the leaching area has been increased to more than 629 gal./day meeting the requirements for both a garbage grinder and the Amherst safety factor of 25% over design.
- The fill requirements for breakout prevention are met (the manner in which the prior system failed).

The wetlands in question are a moist area principally vegetated with wetland fern varieties recently allowed to grow up from the area's long use as a lawn. No impact on the vegetation nor other wetland functions is anticipated. No potential public health impact is expected.

Sincerely,

Frederick A. Filios Pres.

Frederick A. Filios
President

THE UNIVERSITY OF CHICAGO

PH.D. THESIS

Author

Title

Department

Year

Number

Price

Abstract of the thesis...

Statement of the author...

Table of contents...

Author

Title

Department

Jan.29, 1993

To Board of Health
Amherst, Mass.

From:

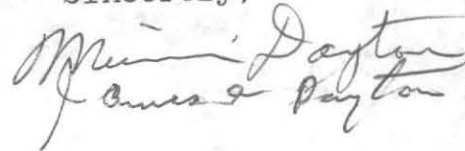
James & Miriam Dayton
850 Belchertown Rd.
Amherst, Mass. 01002

Dear Sirs:

We wish hearby to request a variance to the regulations of Amherst Board of Health to repair a septic system which falls all or in part within the 100 foot buffer zone, from a boardering vegetative wetland.

This is at the above address and as shown in accompanying designs.

Sincerely,

Handwritten signature of Miriam Dayton and James Dayton in cursive script.

Miriam Dayton

James Dayton

The first part of the report is devoted to a description of the
 experimental conditions and the results obtained. The second part
 is devoted to a discussion of the results and a comparison with
 the theoretical predictions. The third part is devoted to a
 summary of the results and a conclusion.

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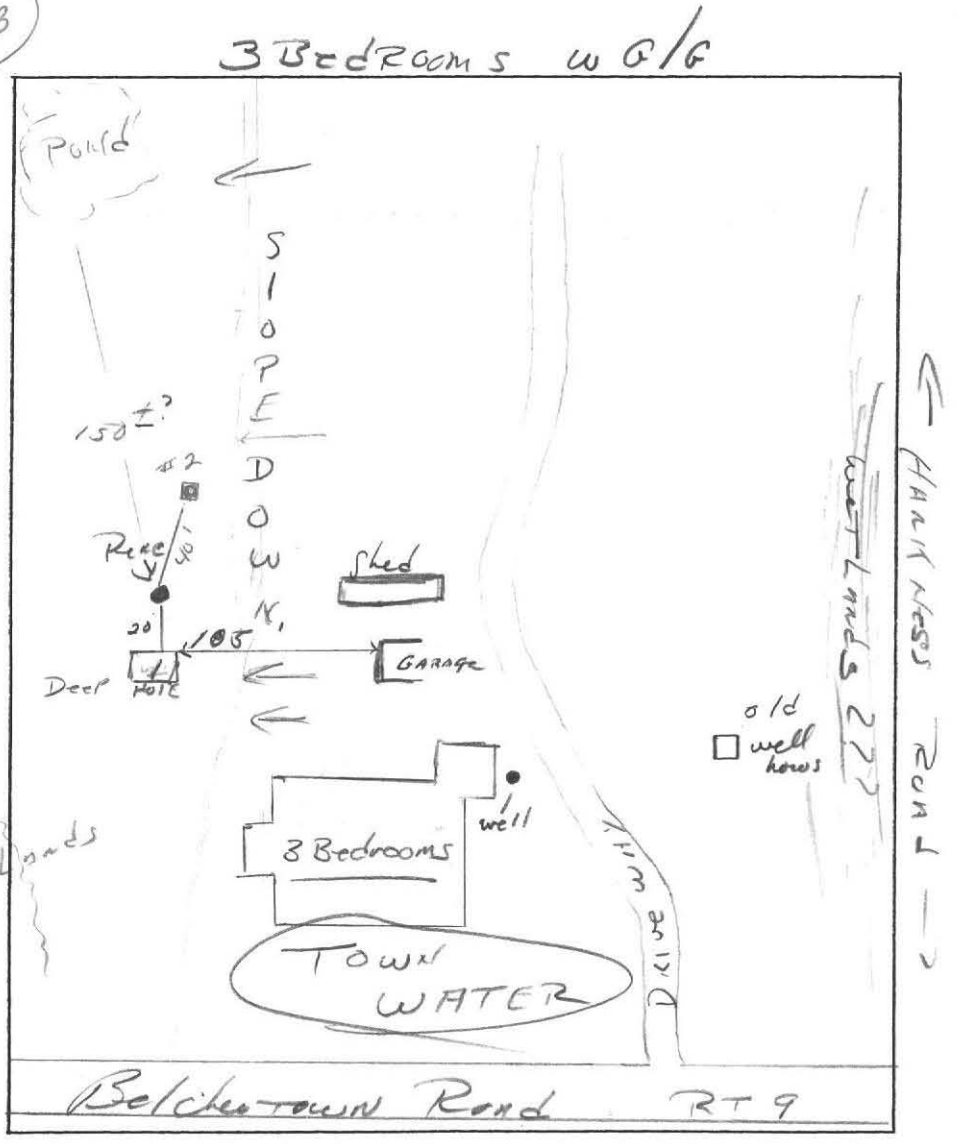
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 experimental conditions and the results obtained. The second part
 is devoted to a discussion of the results and a comparison with
 the theoretical predictions. The third part is devoted to a
 summary of the results and a conclusion.

John P. Zahradnik
 70 Harkness Rd
 Rt 160²² For
 Mr Dayton
 1/5/93

TOWN OF AMHERST
 PERC TEST DATA SHEET

DATE 12/14/92 LOCATION 850 Belchertown Road LOT SIZE _____
 OWNER JAMES DAYTON ADDRESS 850 Belchertown Rd TELE # 253-7749
 P.E./RS Fred Filios FIRM Filios Ent Inc OBSERVED BY DAVID ZARIZINSKI
PAUL Filios
 BACK HOE OPERATOR HANKS BENCH MARK _____
 PERC DEPTH 60" PRE SOAK TIME 9:40 PERC DEPTH _____ PRE SOAK TIME _____
 TEST 12" 9:56 8" 10:06 _____
11" 9:59 7" 10:09 _____
10" 10:01 6" 10:12 _____
9" 10:03 _____
 RATE (4) RATE _____

#1	#2 <u>1/28/93</u>
TOP 8"	TOP 6"
SUB 36"	SUB 53"
Concrete Concrete Seepage 89" Gibbles Stone	Sand + Gravel 0x10x9'
10'	12'
TOP	TOP
SUB	SUB
TOP	TOP
SUB	SUB



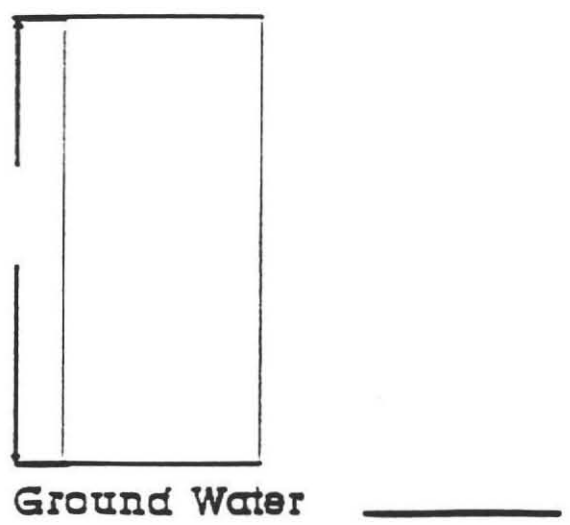
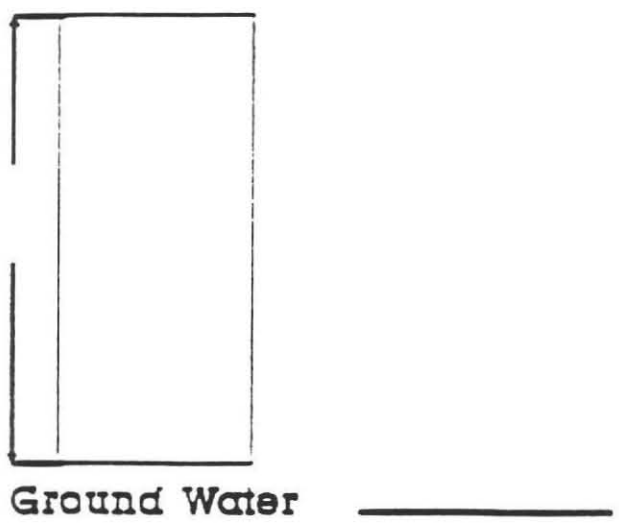
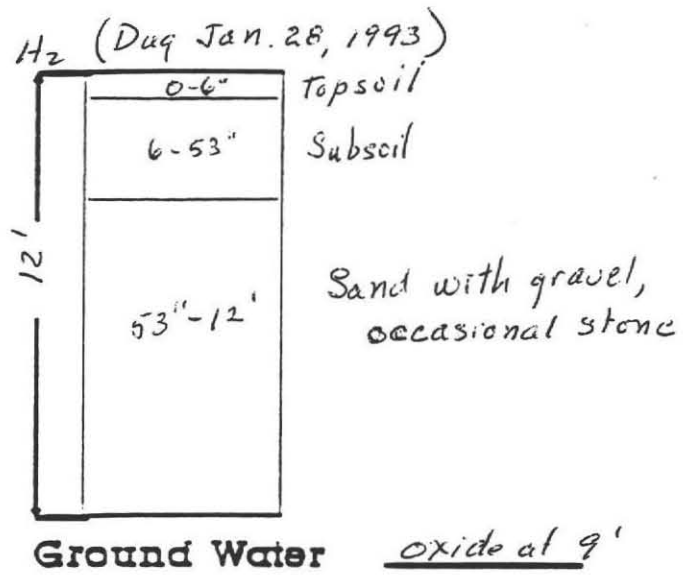
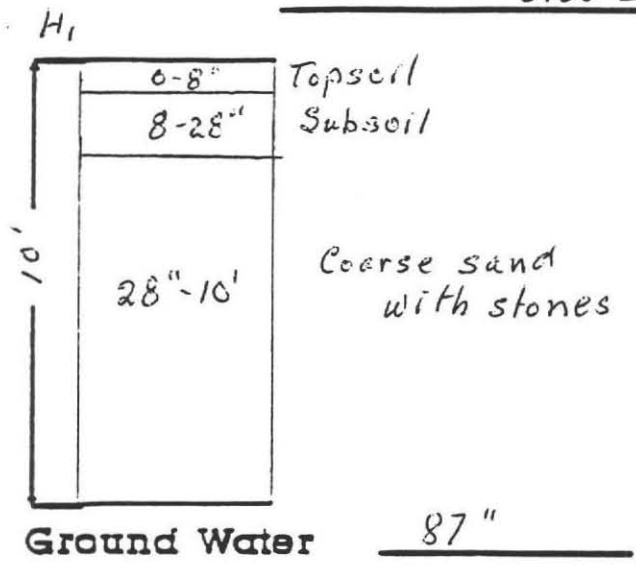


Deep Soil Logs

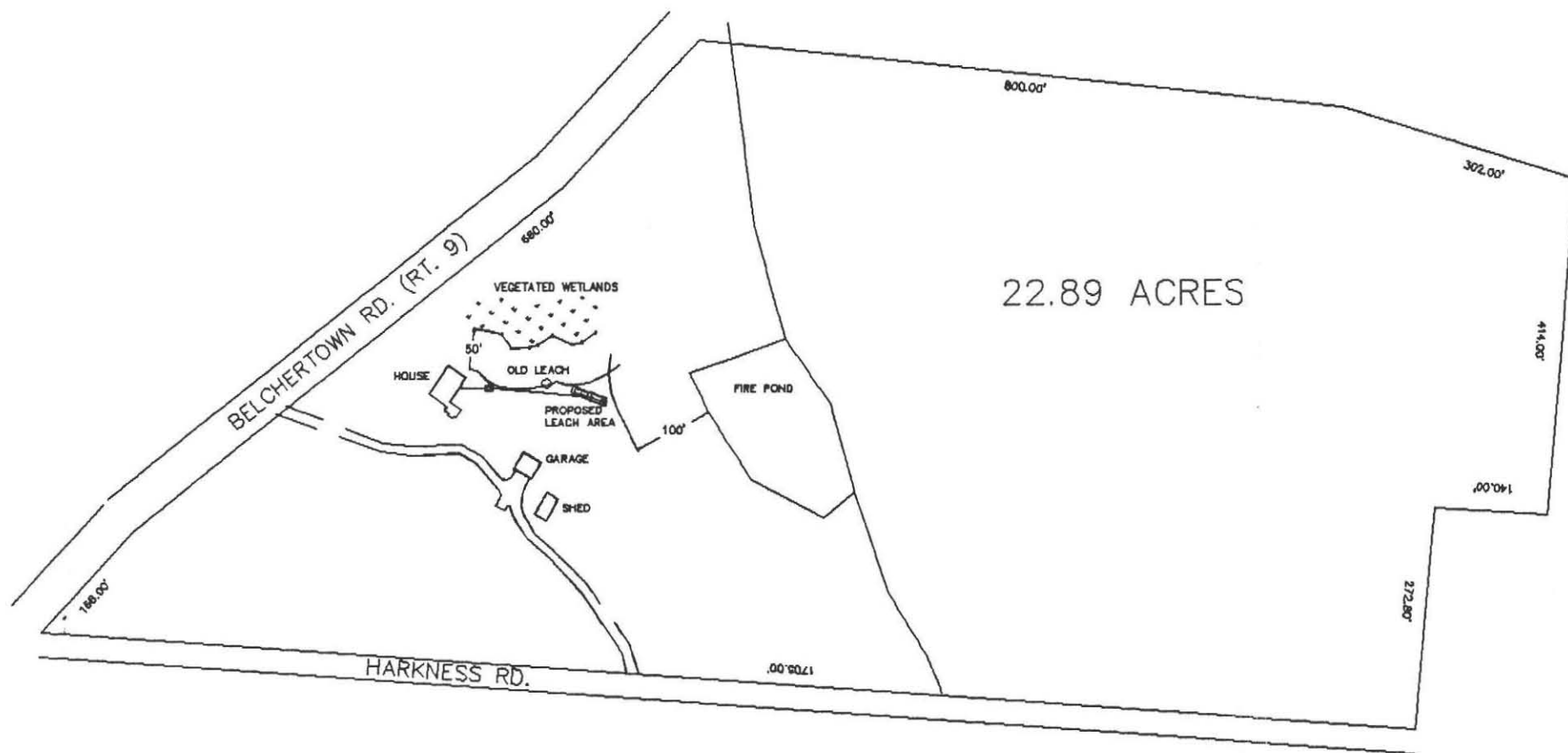
Filios Enterprises, Inc.

69 Pelham Rd., Amherst MA 01002. (413) 256-8008

Owner: James + Mariam Dayton Date: Dec. 14 1992
Location: 850 Belchertown Rd B. of H. David Zarazinski
Amherst Mass.
01002



Percolation Rate at: 60 inches
4 min./inch



*INFILTRATOR - 76" Long x 15" high
with 18" of space below inlet
Each section - weigh 3516 -*

LOCUS OF SEWAGE DISPOSAL SYSTEM	
AT: 850 BELCHERTOWN RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: JAMES AND MIRIAM DAYTON 850 BELCHERTOWN RD. AMHERST, MA 01002
Drawn By: P. Filios	SCALE: 1" = 200'
20 Jan 93	Page 1 of 4

~~File~~

Location

New Plan

New - Expansion

System

December

End of

9/21/93

Transferred
This Plan

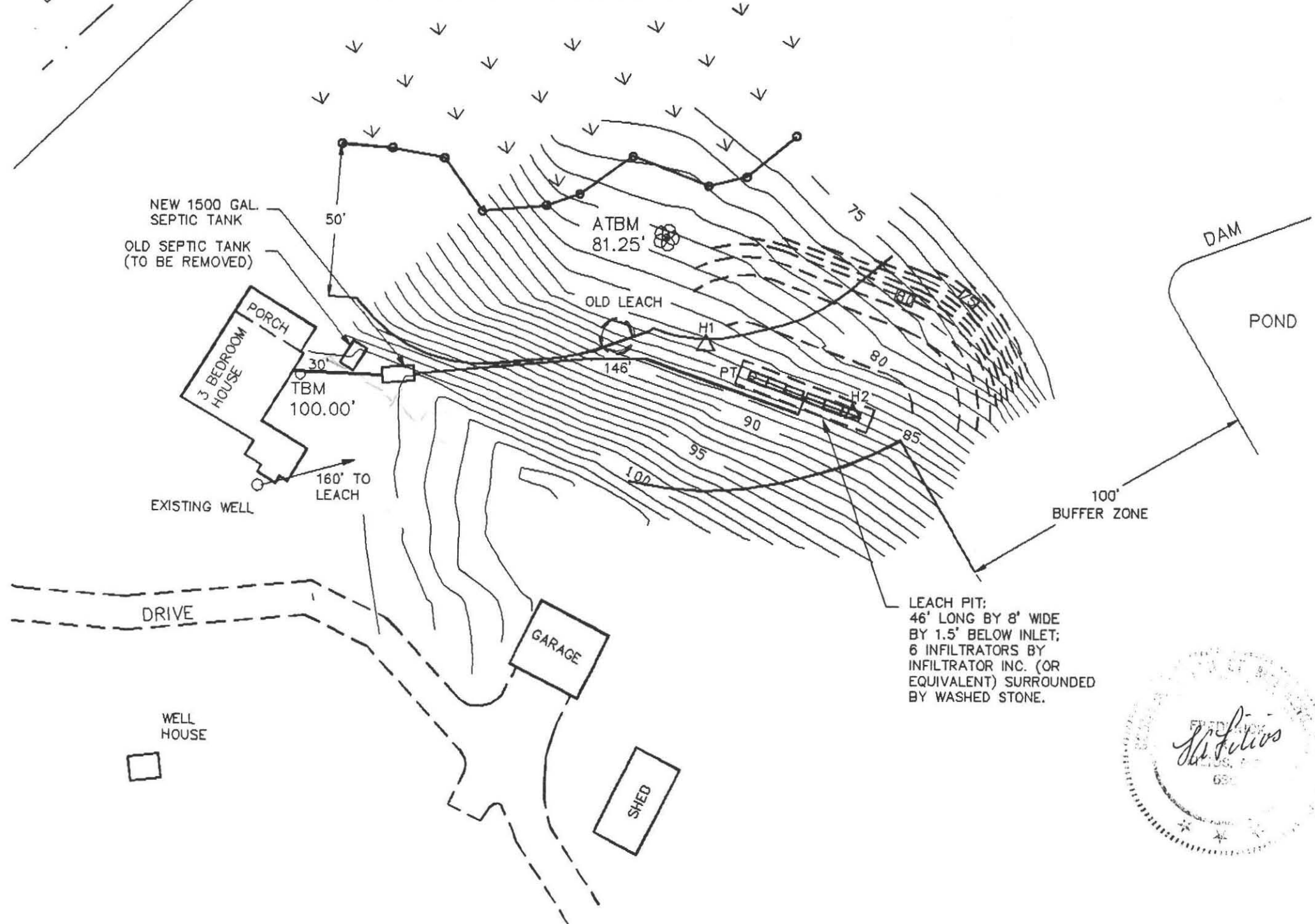
System used

Account change
pursued

BELCHERTOWN RD.



BORDERING VEGETATED WETLANDS



LEGEND

- PT PERCOLATION TEST
- △ Hx DEEP TEST PIT
- CONTOUR LINES (1' INTERVAL)
- - - PROPOSED CONTOUR LINES (1' INTERVAL)

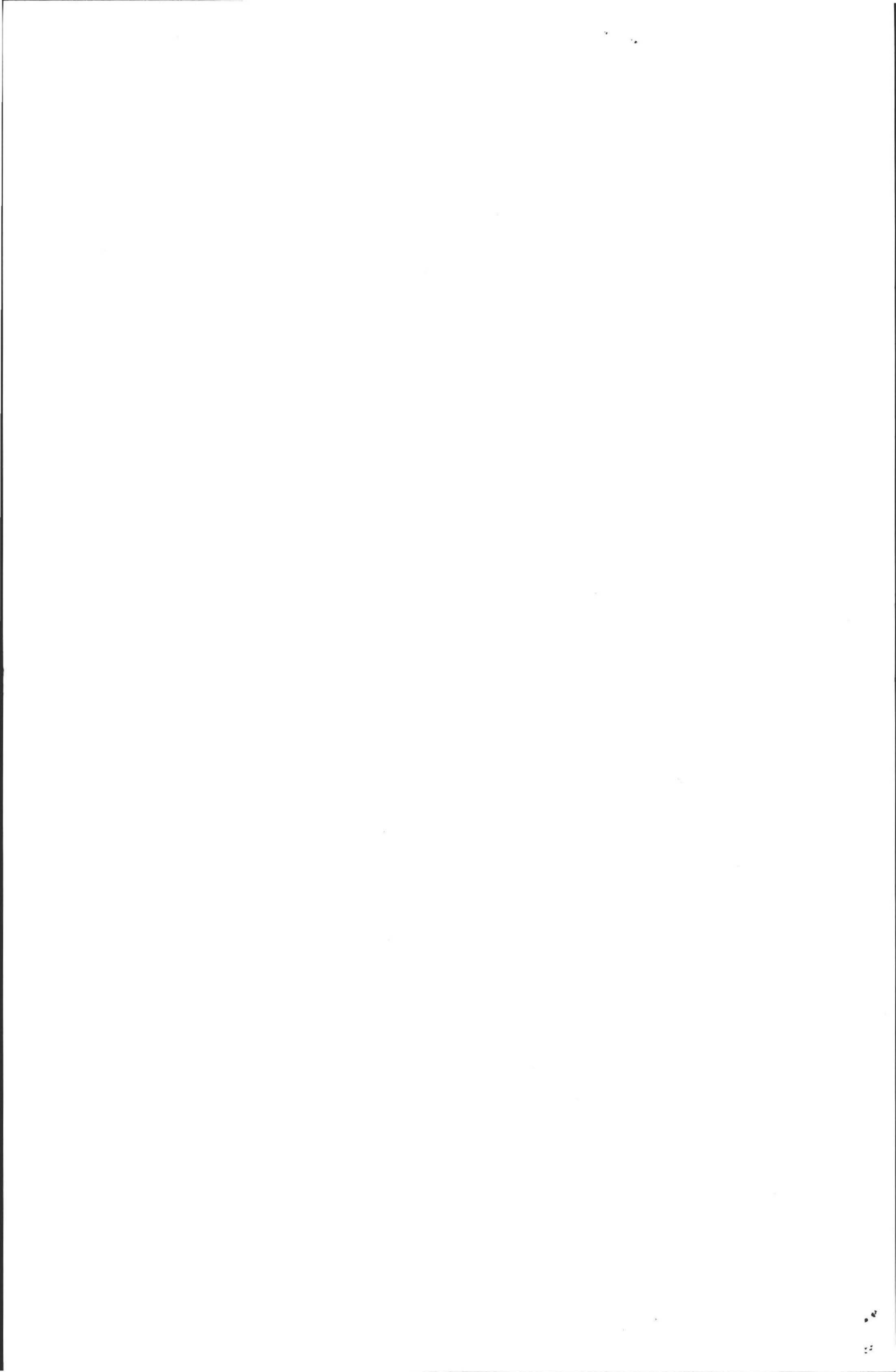
NOTES:

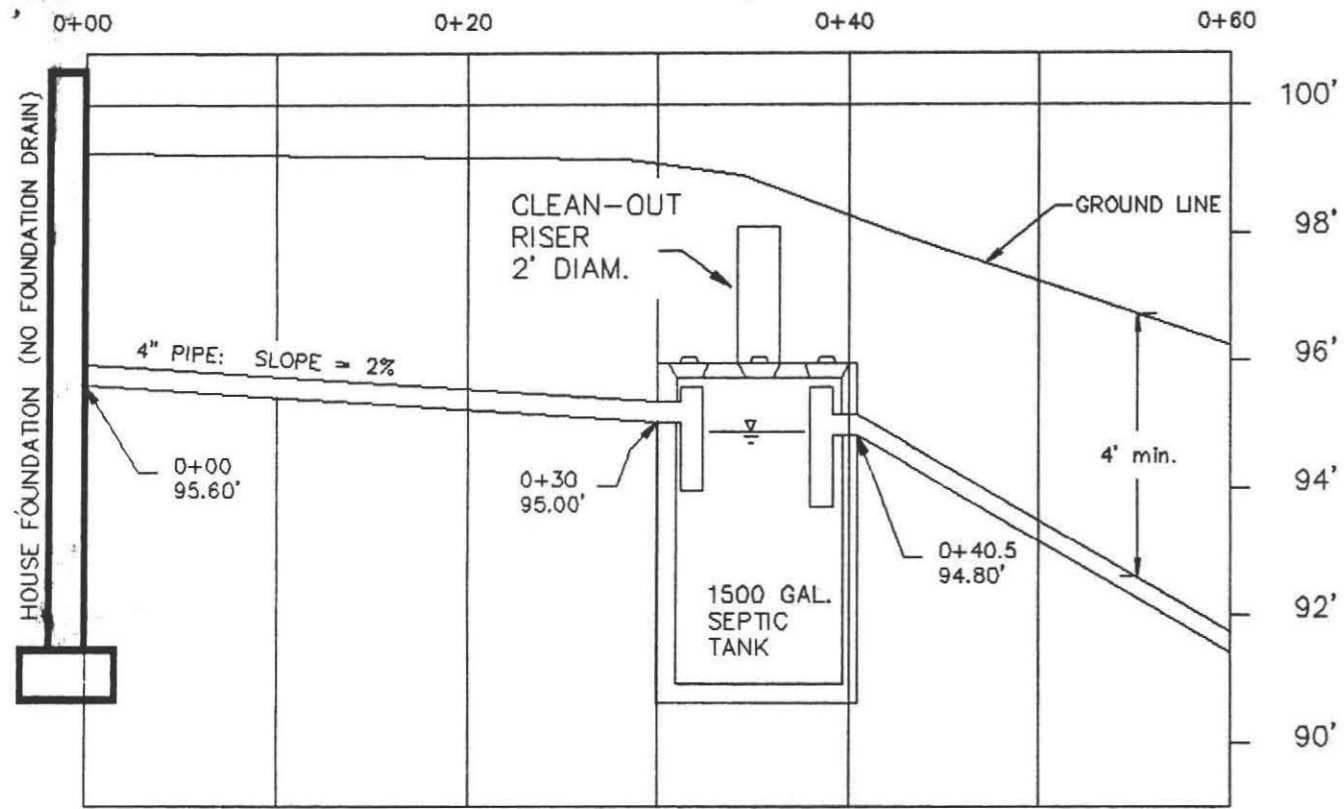
1. TBM IS TOP OF OIL FILL PIPE. ATBM IS NAIL IN 2' HICKORY.
2. NO OTHER WELLS WITHIN 200' OF THE LEACH AREA AT THE TIME OF SURVEY.

LEACH PIT:
46' LONG BY 8' WIDE
BY 1.5' BELOW INLET;
6 INFILTRATORS BY
INFILTRATOR INC. (OR
EQUIVALENT) SURROUNDED
BY WASHED STONE.



DETAIL OF SEWAGE DISPOSAL SYSTEM	
REPAIR AT 850 BELCHERTOWN RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: JAMES AND MIRIAM DAYTON 850 BELCHERTOWN RD. AMHERST, MA 01002
DRAWN BY: P. FILIOS	SCALE: 1" = 40'
28 JAN, 1993	PAGE 2 OF 4





100' Elevation Assumed at TBM. TBM is top of oil fill pipe as shown on planview. Alternate TBM provided at base of hill; nail in 2' hickory.

SPECIFICATIONS
 ALL MATERIALS AND CONSTRUCTION MUST BE IN ACCORDANCE WITH COMMONWEALTH OF MASSACHUSETTS DEPT. OF ENVIRONMENTAL PROTECTION STATE ENVIRONMENTAL CODE TITLE 5.

CALCULATIONS

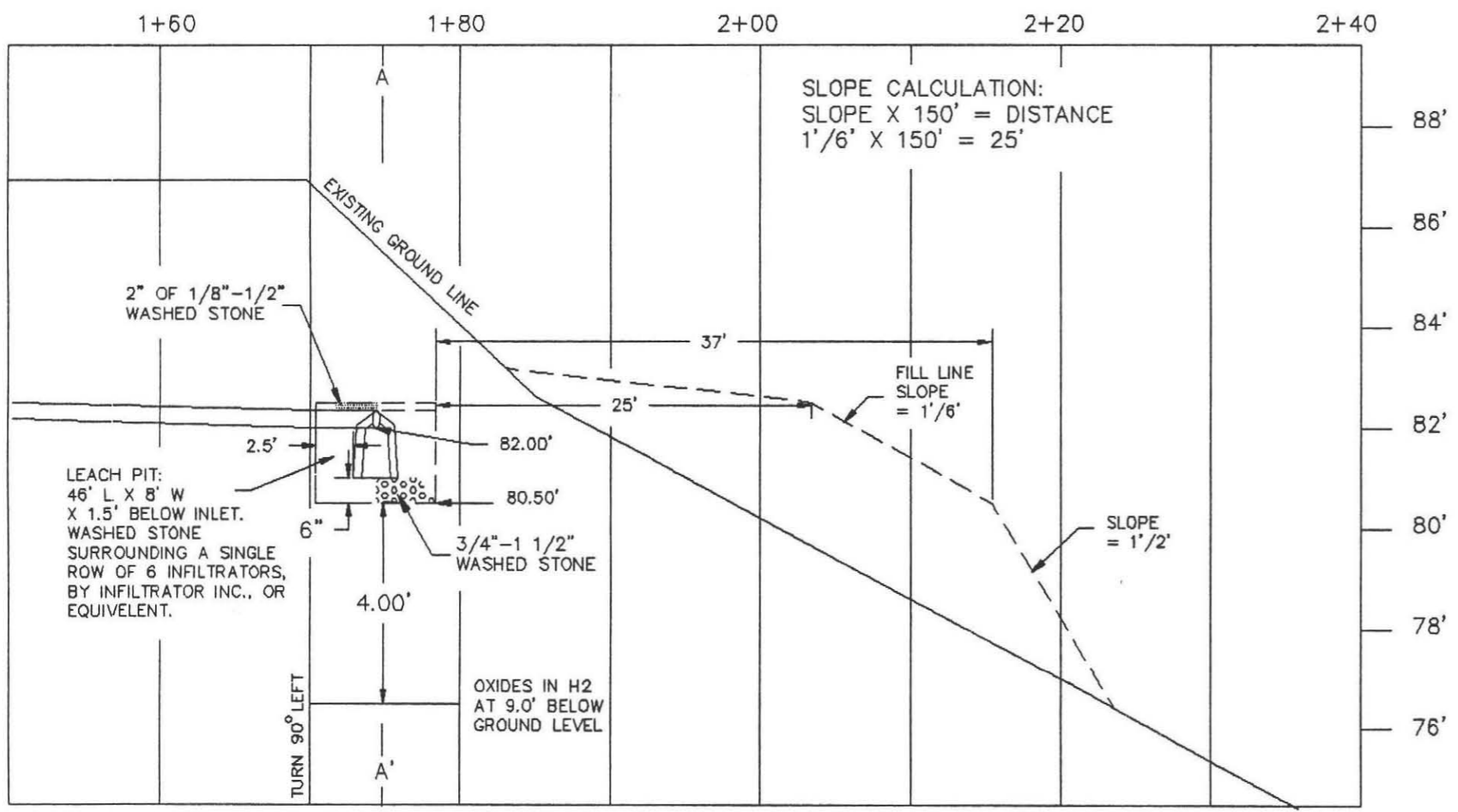
REQUIRED: For a 3 bedroom house with a garbage grinder a capacity of 330 gal./day X 1.5 X 1.25 = 618.75 gal./day.

DESIGNED: 1 leach pit 46.0'L X 8.0'W X 1.50' below inlet (effective depth), for a perc rate of 4 min./in., yielding side and bottom loading factors of 2.00 and 0.83 gal./sq.ft. respectively.

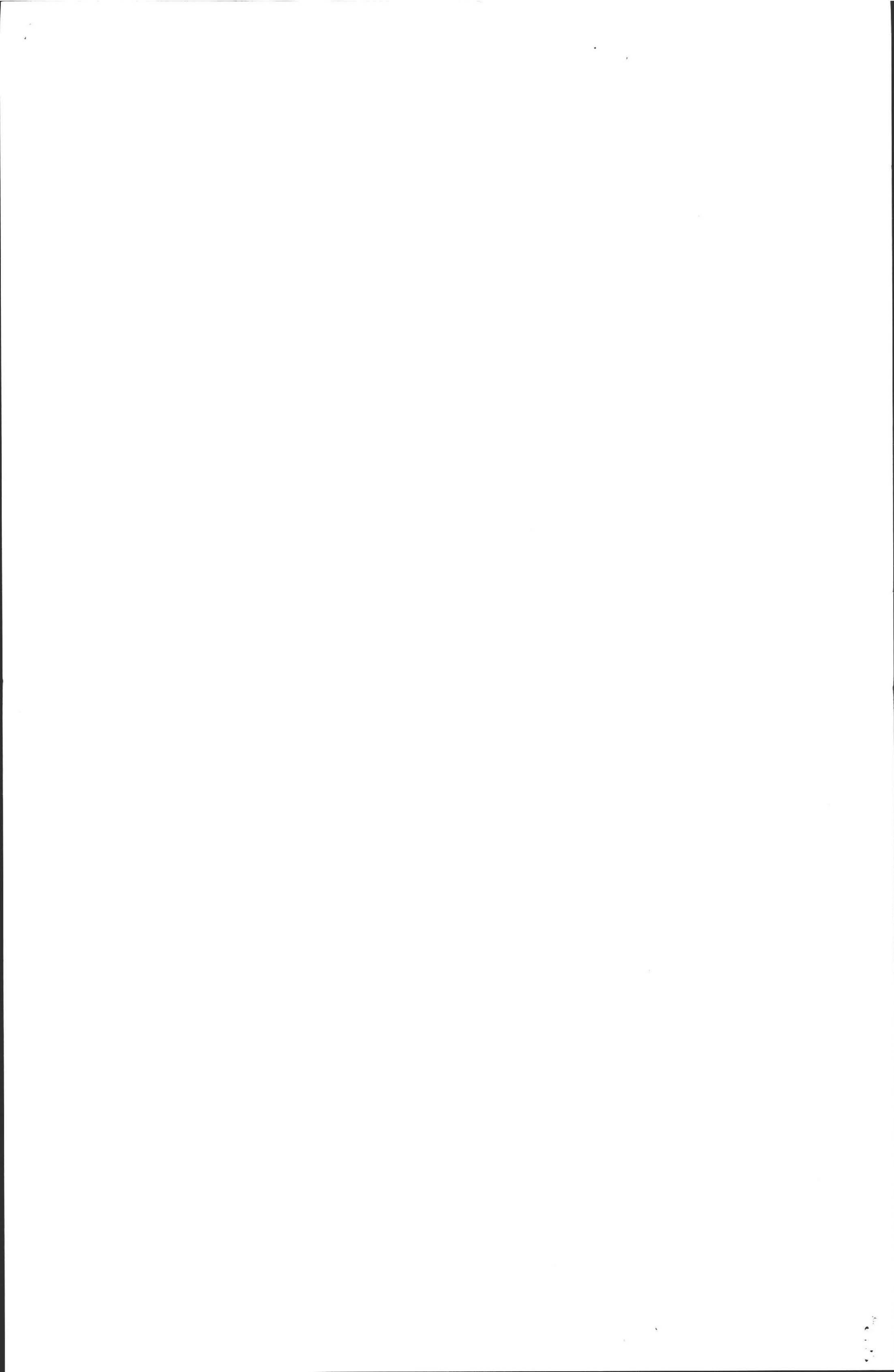
SIDEWALL: (46.0' + 8.0')2 X 1.5' X 2.00 Gal./Sq.ft. = 324.0 Gal.
 BOTTOM: (46.0' X 8.0')0.83 Gal./Sq.ft. = 305.4 Gal.
 TOTAL = 629.4 Gal.

Construction Notes

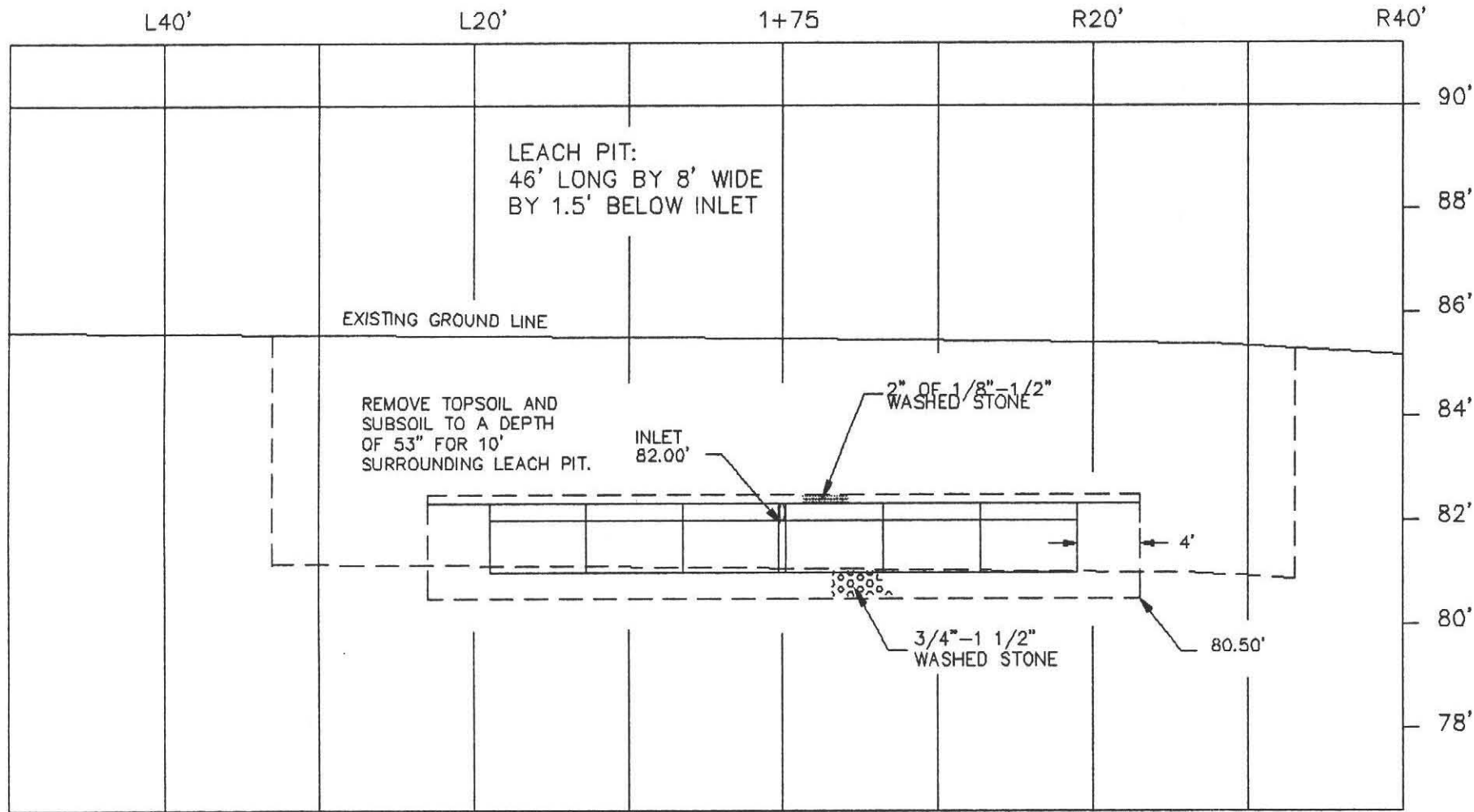
1. Septic tank should be inspected and pumped annually.
2. Inlet and outlet tees must extend 10" and 14" below the flow line respectively.



PROFILE OF SEWAGE DISPOSAL SYSTEM	
REPAIR AT 850 BELCHERTOWN RD., AMHERST	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: JAMES AND MIRIAM DAYTON 850 BELCHERTOWN RD. AMHERST, MA 01002
DRAWN BY: P. FILIOS 28 JAN, 1993	SCALE: 1" = 10' HOR. 3' VER. PAGE 3 OF 4



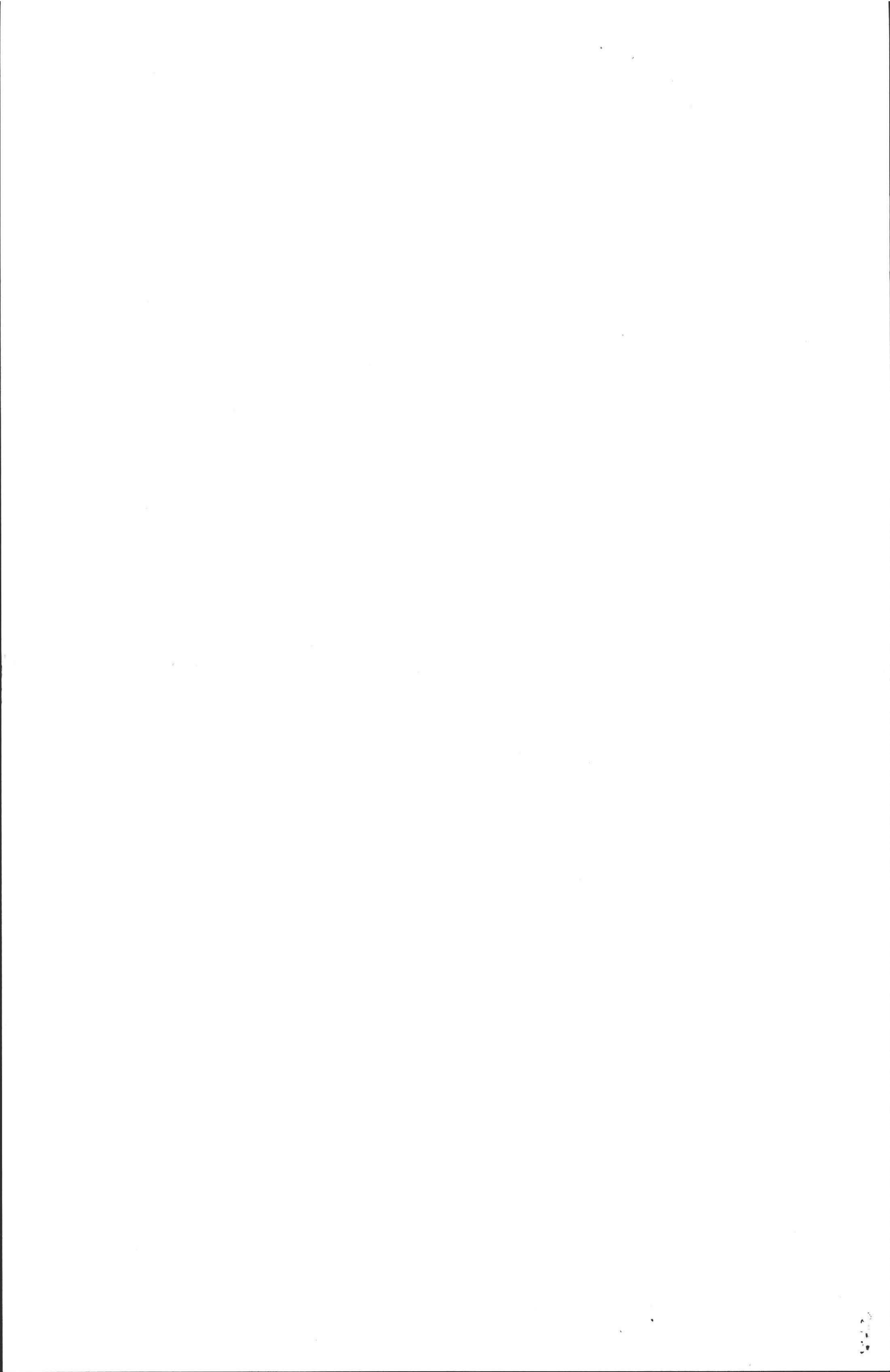
CROSS-SECTION OF LEACH PIT AT A-A' (1+75)

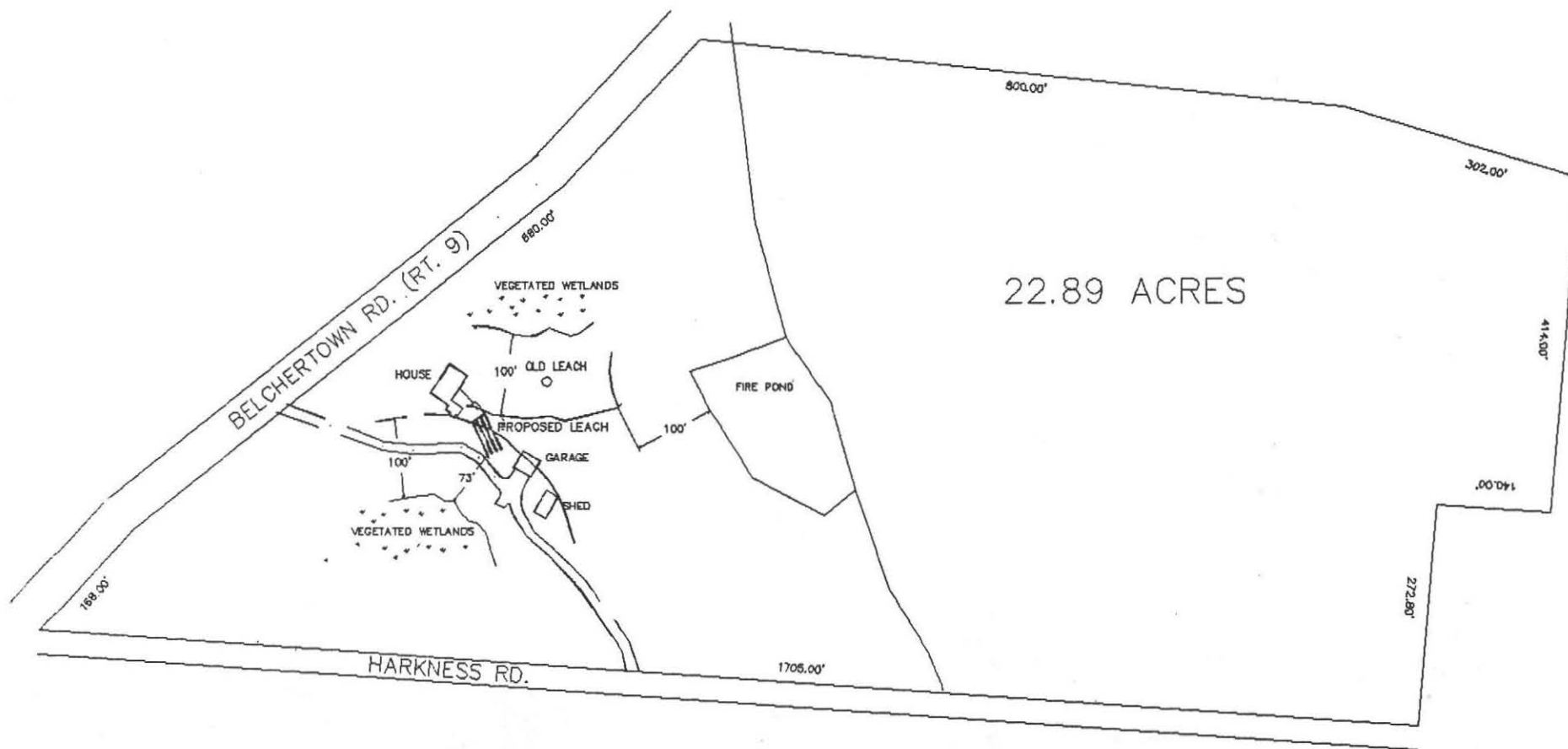


100' Elevation Assumed at TBM. TBM is top of oil fill pipe as shown on planview.



CROSS-SECTION OF LEACH PIT AT A-A'	
REPAIR AT 850 BELCHERTOWN RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: JAMES AND MIRIAM DAYTON 850 BELCHERTOWN RD. AMHERST, MA 01002
DRAWN BY: P. FILIOS	SCALE: 1" = 10' HOR. 3' VER.
28 JAN, 1993	PAGE 4 OF 4





22.89 ACRES



LOCUS OF SEWAGE DISPOSAL SYSTEM	
AT: 850 BELCHERTOWN RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: JAMES AND MIRIAM DAYTON 850 BELCHERTOWN RD. AMHERST, MA 01002
Drawn By: P. Filios	SCALE: 1" = 200'
Rev. #2, 21 July, 1993	Page 1 of 3

3

BELCHERTOWN RD.

BORDERING VEGETATED WETLANDS

SLOPE BREAKOUT POINT:
 $150' \times 1' / 4.2' = 35.7'$
 REQUIRED

NEW 1500 GAL.
 SEPTIC TANK
 OLD SEPTIC TANK
 (TO BE REMOVED)

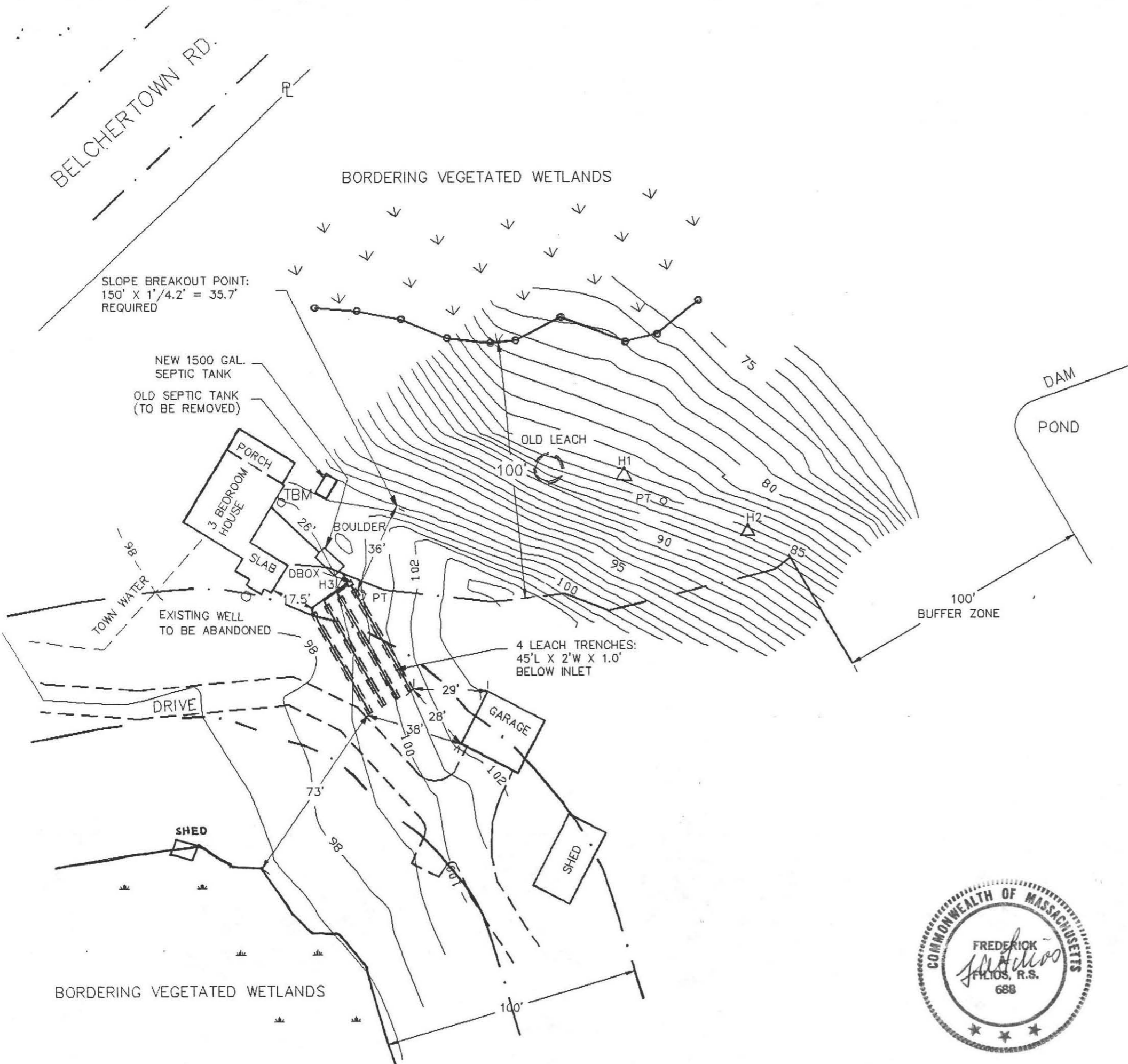
PORCH
 3 BEDROOM
 HOUSE

EXISTING WELL
 TO BE ABANDONED

DRIVE

SHED

BORDERING VEGETATED WETLANDS



LEGEND

- PT PERCOLATION TEST
- △ Hx DEEP TEST PIT
- CONTOUR LINES (1' INTERVAL)

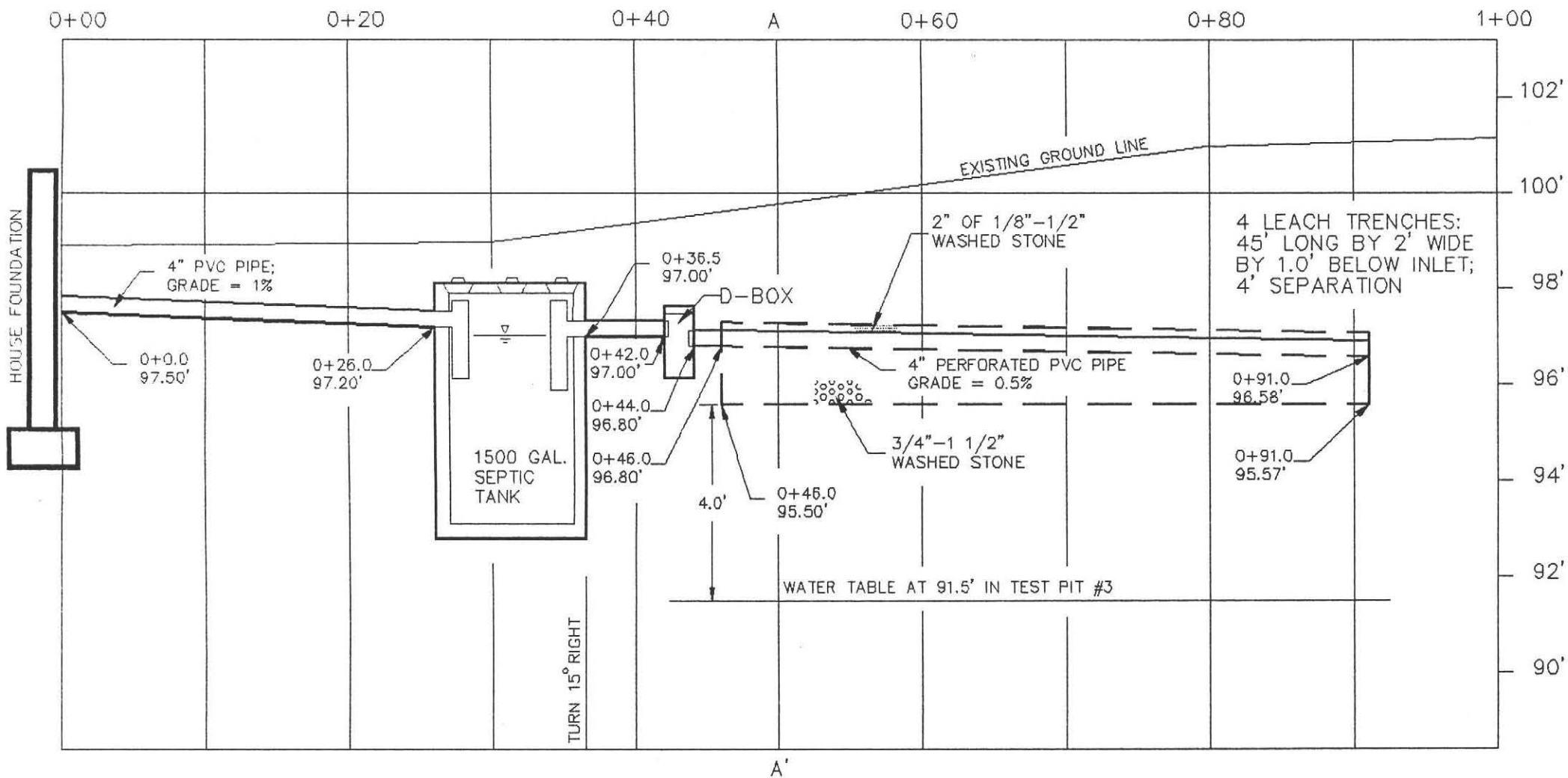
NOTES:

- TBM IS TOP OF OIL FILL PIPE. ATBM IS NAIL IN 2' HICKORY.
- NO OTHER WELLS WITHIN 200' OF THE LEACH AREA AT THE TIME OF SURVEY.



DETAIL OF SEWAGE DISPOSAL SYSTEM	
REPAIR AT 850 BELCHERTOWN RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: JAMES AND MIRIAM DAYTON 850 BELCHERTOWN RD. AMHERST, MA 01002
DRAWN BY: P. FILIOS	SCALE: 1" = 40'
REV. #2, 21 JULY, 1993	PAGE 2 OF 3



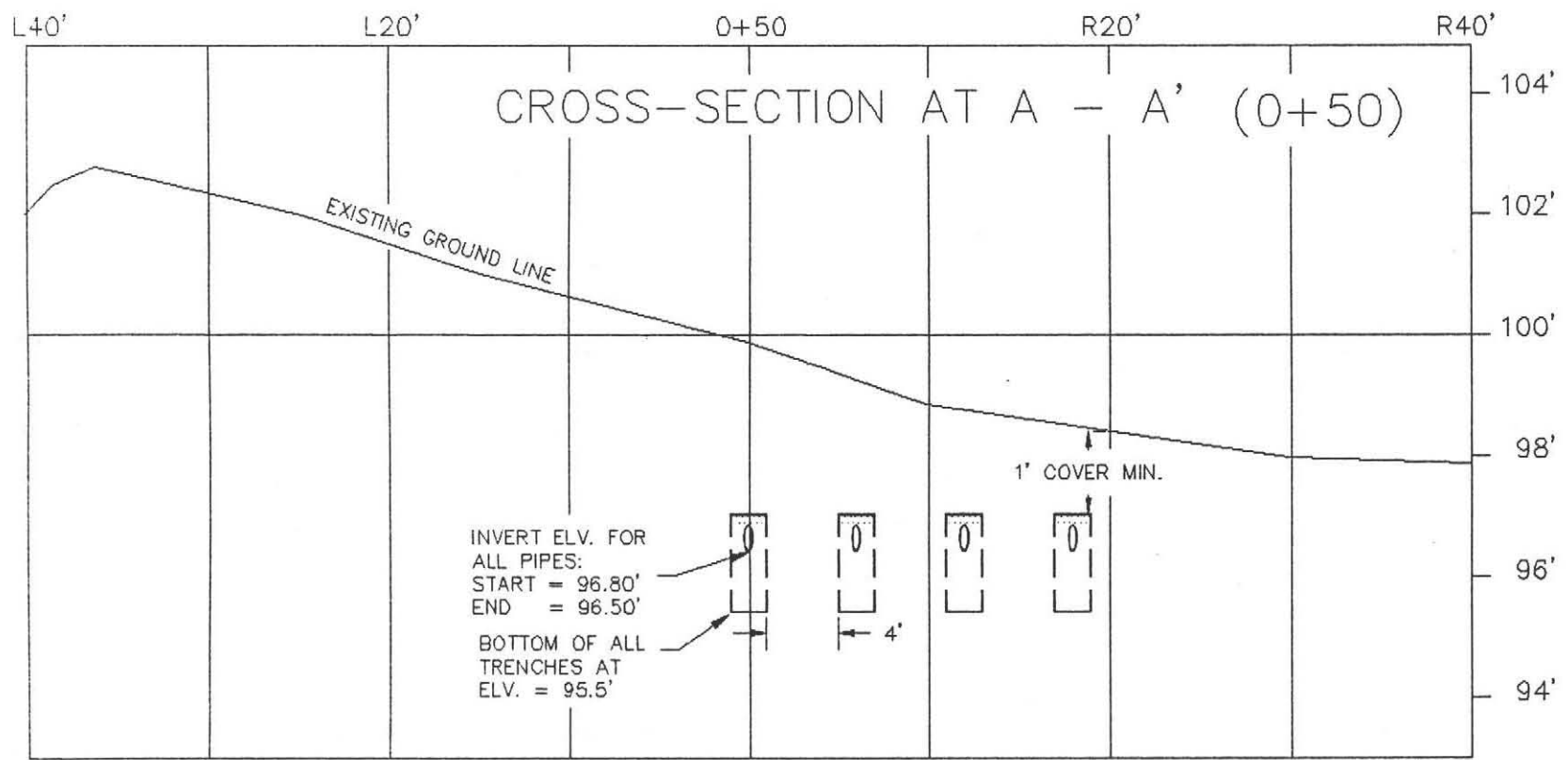


100' Elevation Assumed at TBM. TBM is top of oil fill pipe as shown on Plan view.

SPECIFICATIONS
 ALL MATERIALS AND CONSTRUCTION MUST BE IN ACCORDANCE WITH COMMONWEALTH OF MASSACHUSETTS DEPT. OF ENVIRONMENTAL PROTECTION STATE ENVIRONMENTAL CODE TITLE 5.

Construction Notes

1. Septic tank should be inspected and pumped annually.
2. Inlet and outlet tees must extend 10" and 14" below the flow line respectively.



CALCULATIONS

REQUIRED: For a 3 bedroom house with a garbage grinder a capacity of 330.0 gal./day X 1.5 (garbage grinder) X 1.25 (Amherst safety factor) = 618.75 gal./day.

DESIGNED: 4 leach trenches 45.0'L X 2.0'W X 1.00' below inlet (effective depth), for a perc rate of 8 min./in., yielding side and bottom loading factors of 1.25 and 0.63 gal./sq.ft. respectively.

SIDEWALL:	8 Sides(45.0' X 1.0')	1.25 Gal./Sq.Ft.	= 450.0 Gal.
BOTTOM:	4 Trenches(45.0' X 2.0')	0.63 Gal./Sq.Ft.	= 226.8 Gal.
TOTAL			676.8 Gal.



PROFILE OF SEWAGE DISPOSAL SYSTEM	
AT: 850 BELCHERTOWN RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: JAMES AND MIRIAM DAYTON 850 BELCHERTOWN RD. AMHERST, MA 01002
DRAWN BY: P. FILIOS	SCALE: 1" = 10' HOR. 3' VER.
21 JULY, 1993	PAGE 3 OF 3



Filios Enterprises, Inc.

69 Pelham Rd., Amherst, MA 01002 - (413) 256-8008 / FAX (413) 253-7475

July 21, 1993

Board of Health
Town of Amherst
Bangs Community Center
Amherst, MA 01002

Dear Board Members::

Enclosed is a revised plan for the repair of the septic system belonging to Mr. and Mrs. Dayton at 850 Belchertown Rd. The board had previously approved the repair of the system in February. In the original design for the repair the new leach facility would have been at the base of the hill towards the pond. Because of the high bids received for the original repair design Mr. and Mrs. Dayton have elected to abandon the well at the top of the hill which had prevented the repair from taking place at the top of the hill. Therefore the enclosed revised design moves the leach area up to the top of the hill to a location which was previously unavailable because of the setback requirements from the well.

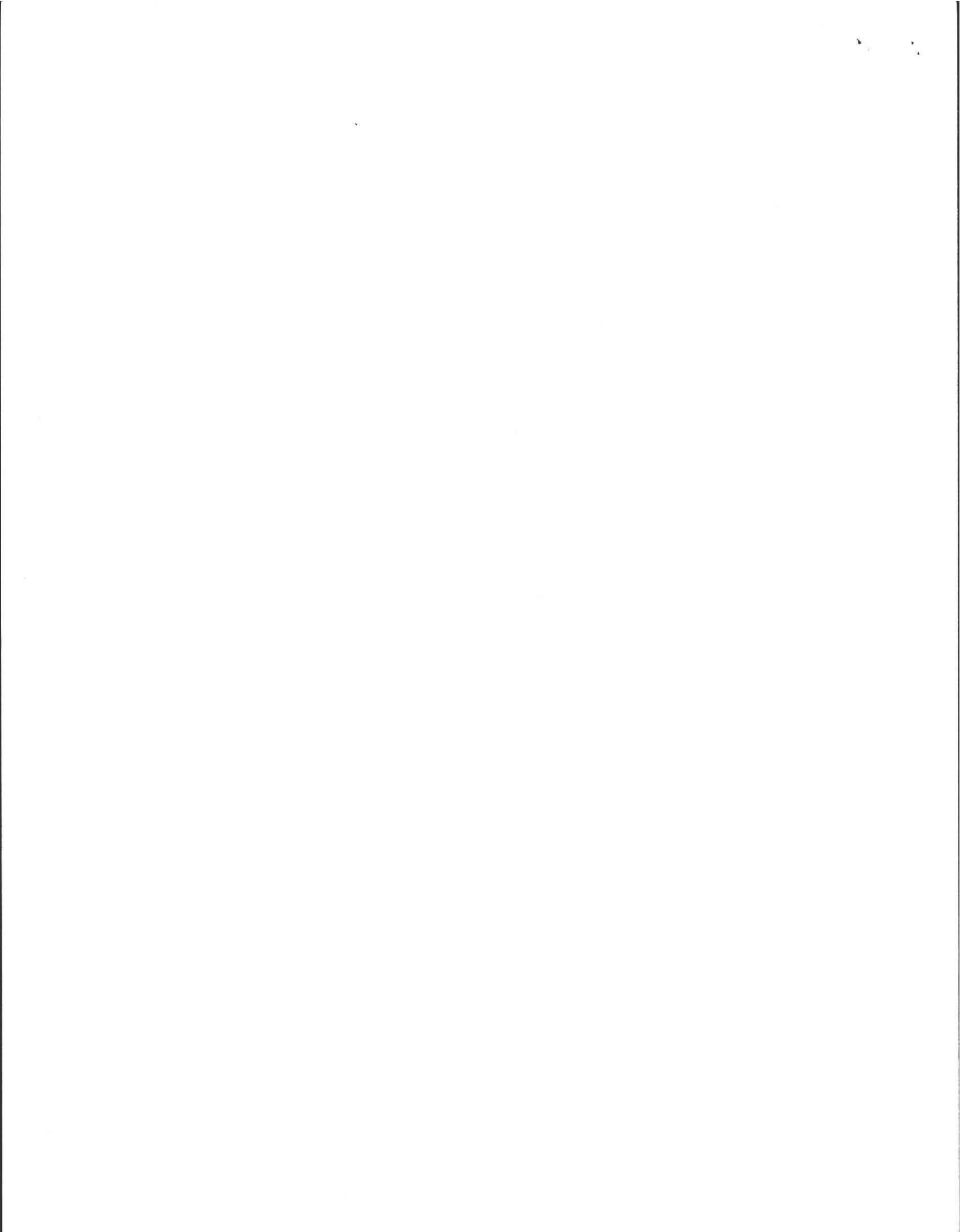
Note that the revised design still requires the variance to the Town of Amherst requirement for a setback of 100' from wetlands. While the leach facility is now more than 100' from the wetlands at the base of the hill additional wetlands across the driveway are 73' away. This is an improvement on the 55' previously approved for the original repair design. In addition no fill will be required in the 100' buffer zone. It is worth noting that the area behind the garage outside of both buffer zones is not usable because of the steep slope of the hill down to the pond. Title 5 slope setback requirements dictate that the leach facility be from 35' to 50' from the slope breakout point in this case as the slope of the hill varies between 1'4.2' and 1'3'.

I recommend that this revised design be substituted for the previously approved design and that the previously granted variance also be allowed.

Sincerely,



Frederick A. Filios
President



To: Bettye Anderson Frederic

From: David Zarozinski



Re: Variance Request for 850 Belchertown Road

Date: 07/28/93

On February 17, 1993 the Board of Health granted a variance (copy enclosed) to the Town's regulation requiring the leach field being no closer than 100 feet to a watercourse. The plan submitted by Mr. Filios located the septic system 55 feet away from the wetlands.

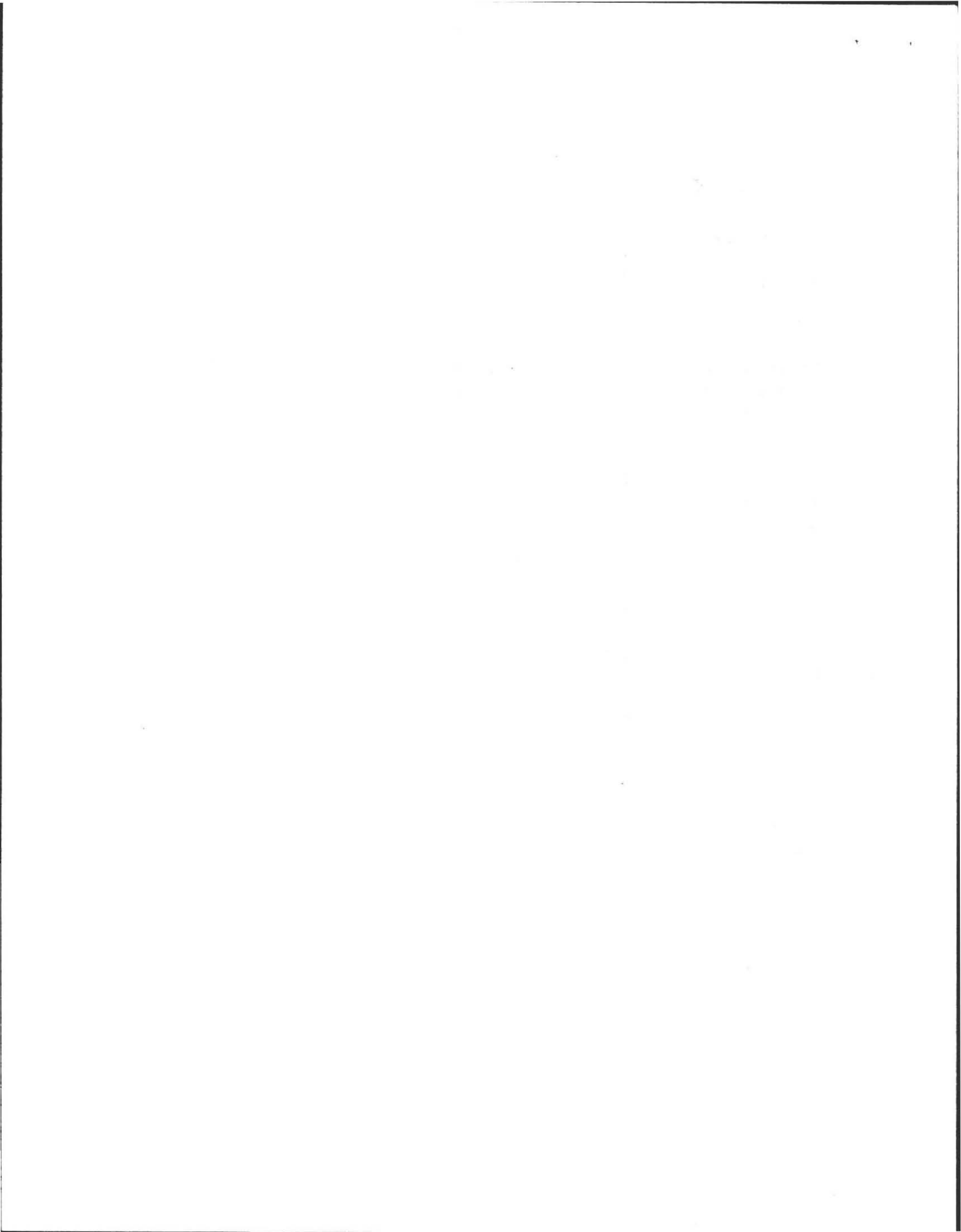
On Monday July 26, 1993, Mr. Filios submitted a revision of this plan with a new location of the system. The reason for this change was the cost of the original design's repair.

In order to make these changes, the following must take place:

1. Cap the well (house has town water).
2. Grant a new variance to the wetlands location which will now be 73 feet away from the previous area chosen.

With the added distance and the facility not requiring fill, I would recommend the following:

1. Grant the variance.
2. Recommend the garbage grinder be removed.
3. The well should be capped with bedamite or its equal, in conjunction with and/or blue clay.



No. 93-1
Revised

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH
Town OF Amherst



Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct () or Repair (X) an Individual Sewage Disposal System at:

850 Belchertown Rd
Location - Address
James and Miriam Dayton
Owner
HARIS
Installer
850 Belchertown Rd
or Lot No.
Address

Type of Building
Dwelling — No. of Bedrooms 3 Expansion Attic () Garbage Grinder (X)
Other — Type of Building _____ No. of persons _____ Showers () — Cafeteria ()
Other fixtures _____

Design Flow 55 gallons per person per day, Total daily flow 330 x 1.5 x 1.25 = 618.75 gallons
Septic Tank — Liquid capacity 1500 gallons Length 10.5' Width 5.0' Diameter _____ Depth 4.0'
Disposal Trench — No. 4 Width 2.0' Total Length 180' Total leaching area 360 sq. ft. side
Seepage Pit No. _____ Diameter _____ Depth below inlet _____ Total leaching area 360 sq. ft. bottom

Other Distribution box () Dosing tank ()
Percolation Test Results Performed by Filios Enterprises, Inc Date _____
Test Pit No. 1 4 minutes per inch Depth of Test Pit 10' Depth to ground water 87"
Test Pit No. 2 3 minutes per inch Depth of Test Pit 12' Depth to ground water 9"
" 3 " 8 " 10' " 7.5'

Description of Soil Attached

Nature of Repairs or Alterations — Answer when applicable replace septic tank and leach

Agreement:
The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Environmental Code — The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Signed Miriam M. Dayton Date 7/30/93
Application Approved By David Zugrski Date 7/30/93

Application Disapproved for the following reasons: _____

Permit No. 93-1 Revised Issued 7/30/93 Date

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH
Town OF Amherst
Certificate of Compliance

THIS IS TO CERTIFY That the Individual Sewage Disposal System constructed () or Repaired (X) by HARIS Installer

at 850 Belchertown Rd.
has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 93-1 Rev dated _____

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE _____ Inspector _____

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH
Town OF Amherst

No. 93-1 FEE _____
Revised Disposal Works Construction Permit

Permission is hereby granted JAMES-MIRIAM DAYTON
to Construct () or Repair (X) an Individual Sewage Disposal System
at No. 850 Belchertown Rd. Street

as shown on the application for Disposal Works Construction Permit No. 93-1 Dated 7/30/93

DATE 7/30/93 Board meeting 7/27/93 / unanimous
granted

CHECK OR FILL IN WHERE APPLICABLE

THE UNIVERSITY OF CHICAGO

Handwritten text, likely bleed-through from the reverse side of the page. The text is mostly illegible due to fading and bleed-through.

Additional handwritten text at the bottom of the page, also appearing to be bleed-through or very faint handwriting.

TOWN OF AMHERST

PERC TEST DATA SHEET

DATE 7/9/93 LOCATION 850 Belchertown Road LOT SIZE _____

OWNER James Dayton ADDRESS 850 Belchertown Rd TELE # 253-7949

P.E./RS Fred Filio's FIRM Filio's Enterprises OBSERVED BY David Zappala

BACK HOE OPERATOR Kael's BENCH MARK _____

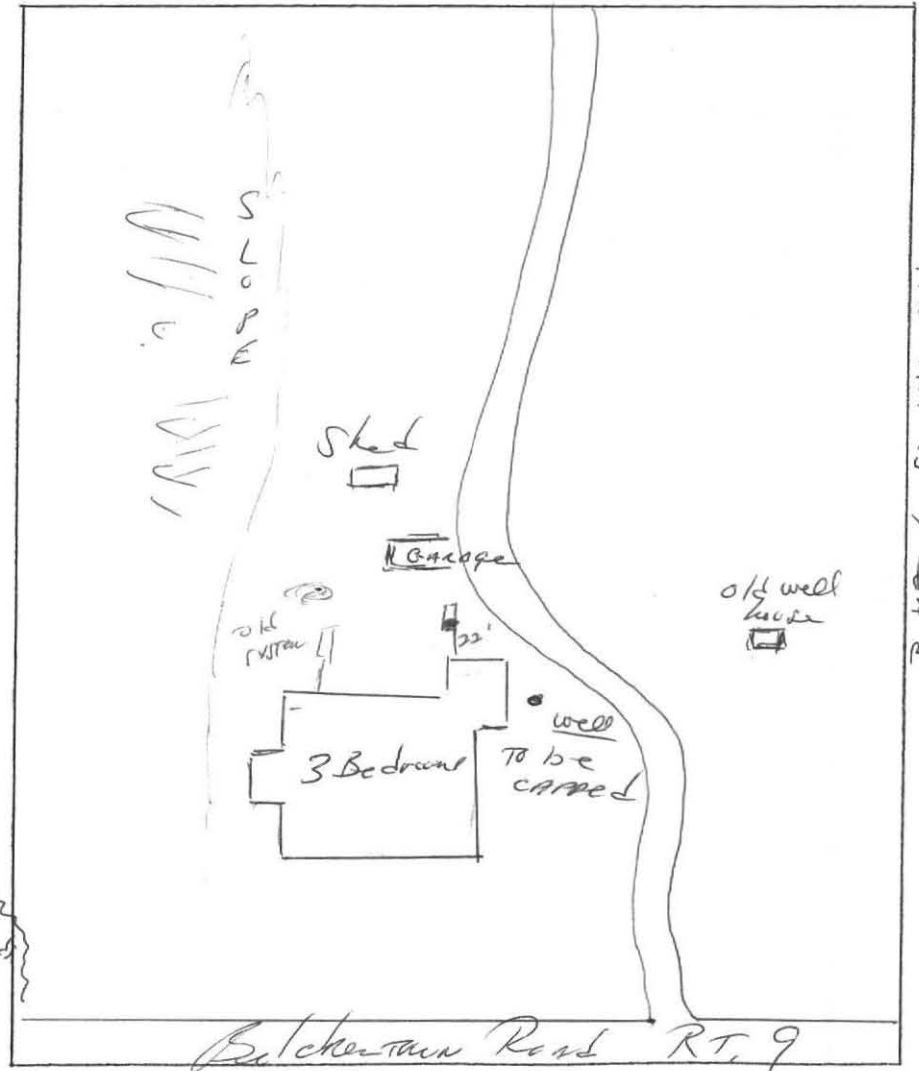
PERC DEPTH 55" PRE SOAK TIME 9:04 PERC DEPTH _____ PRE SOAK TIME _____

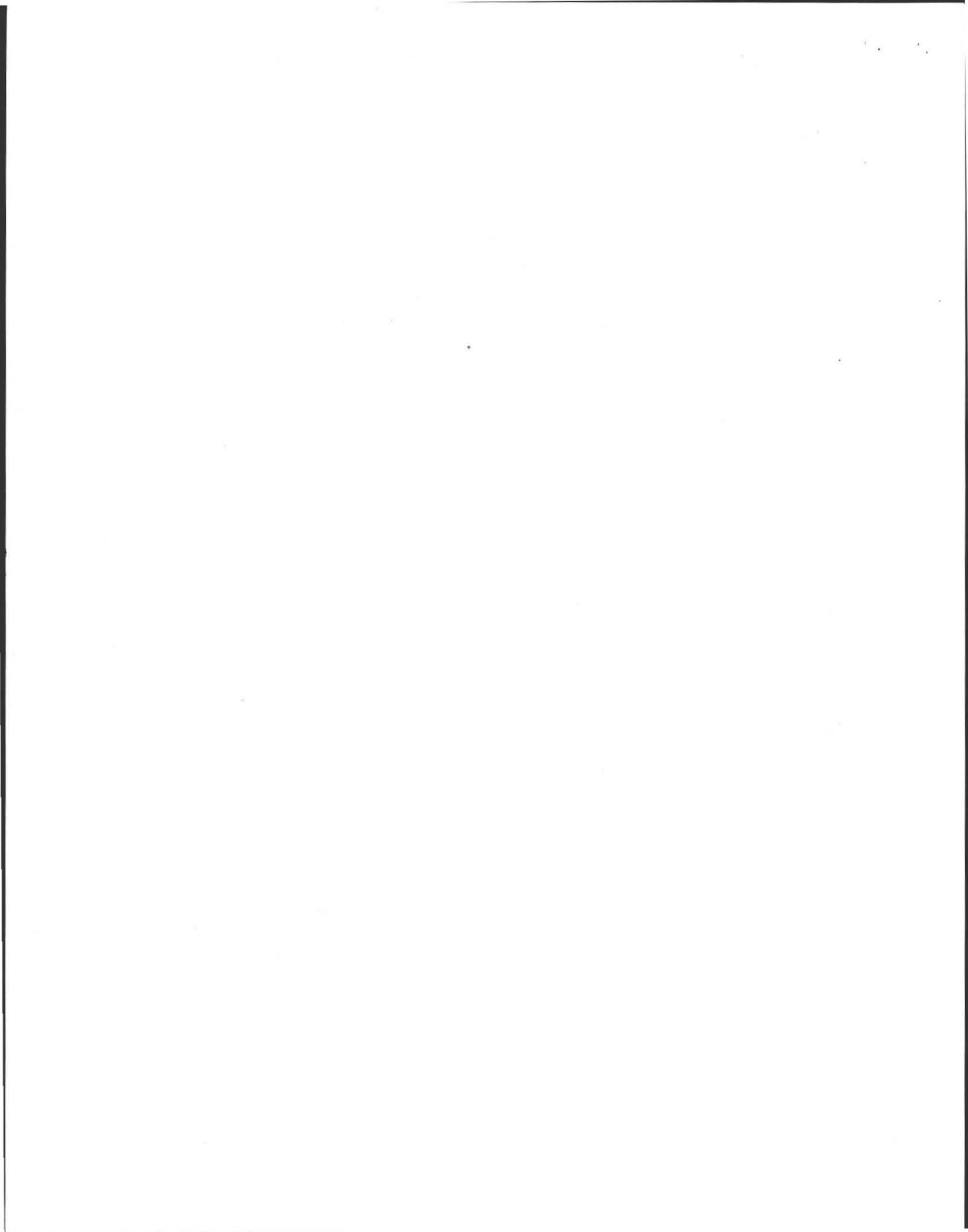
TEST	<u>12"</u>	<u>9:20</u>	<u>8"</u>	<u>9:39⁴⁵</u>	_____	_____
	<u>11"</u>	<u>9:25</u>	<u>7"</u>	<u>9:45⁵⁰</u>	_____	_____
	<u>10"</u>	<u>9:28⁵⁰</u>	<u>6"</u>	<u>9:53³⁰</u>	_____	_____
	<u>9"</u>	<u>9:34²⁰</u>	_____	_____	_____	_____

RATE (8) RATE _____

3 Bedrooms w/PO

TOP <u>6"</u>	TOP
SUB <u>21"</u>	SUB
<u>loose coarse Sand 50"</u>	
<u>OXIDE 90"</u>	
<u>10'</u>	
TOP	TOP
SUB	SUB
TOP	TOP
SUB	SUB





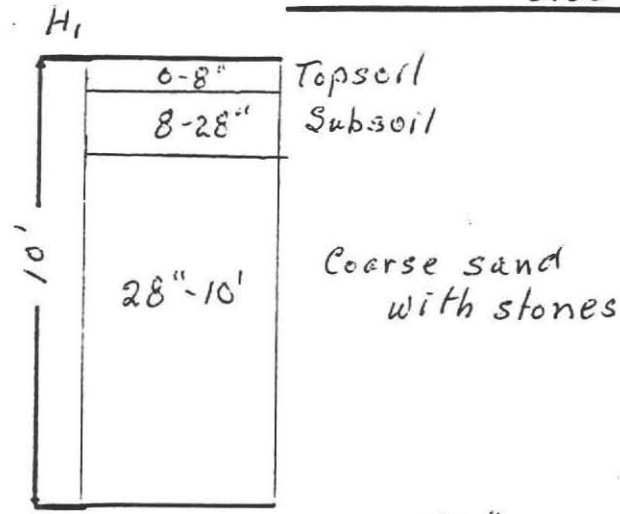


Deep Soil Logs

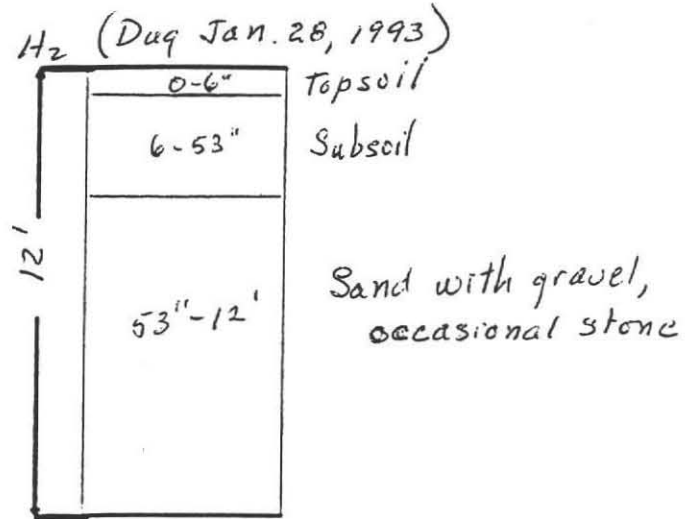
Filios Enterprises, Inc.

69 Pelham Rd., Amherst MA 01002. (413) 256-8008

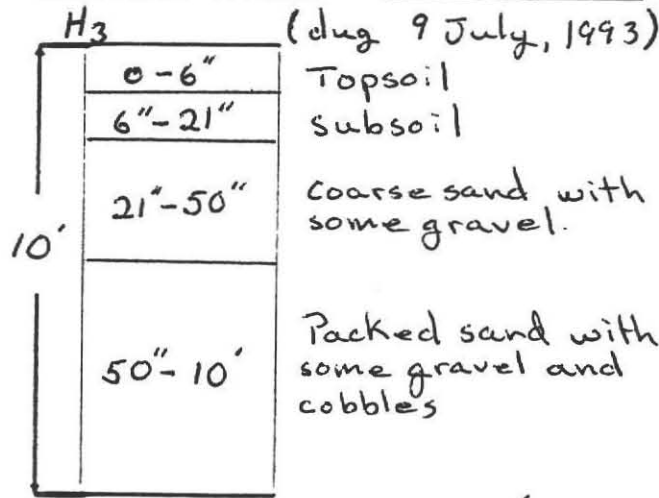
Owner: James + Mariam Dayton Date: Dec. 14 1992
 Location: 850 Belchertown Rd B. of H. David Zarazinski
Amherst Mass.
01002



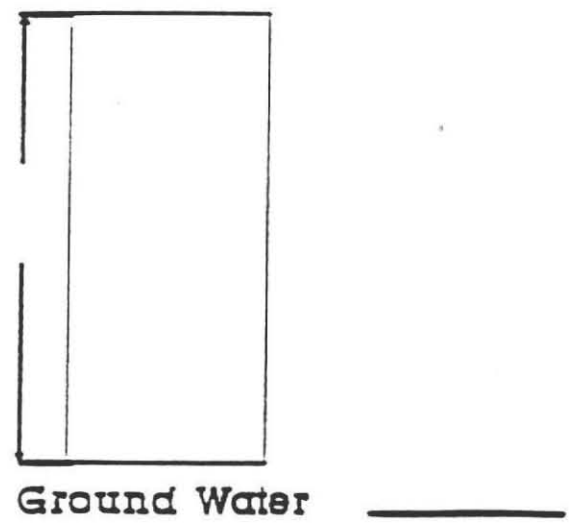
Ground Water 87"



Ground Water oxide at 9'



Ground Water 7.5'



Ground Water _____

1. Percolation Rate at: 60 inches
4 min./inch

2. Percolation Rate at: 55"
8 min./inch
 (9 July '93)

