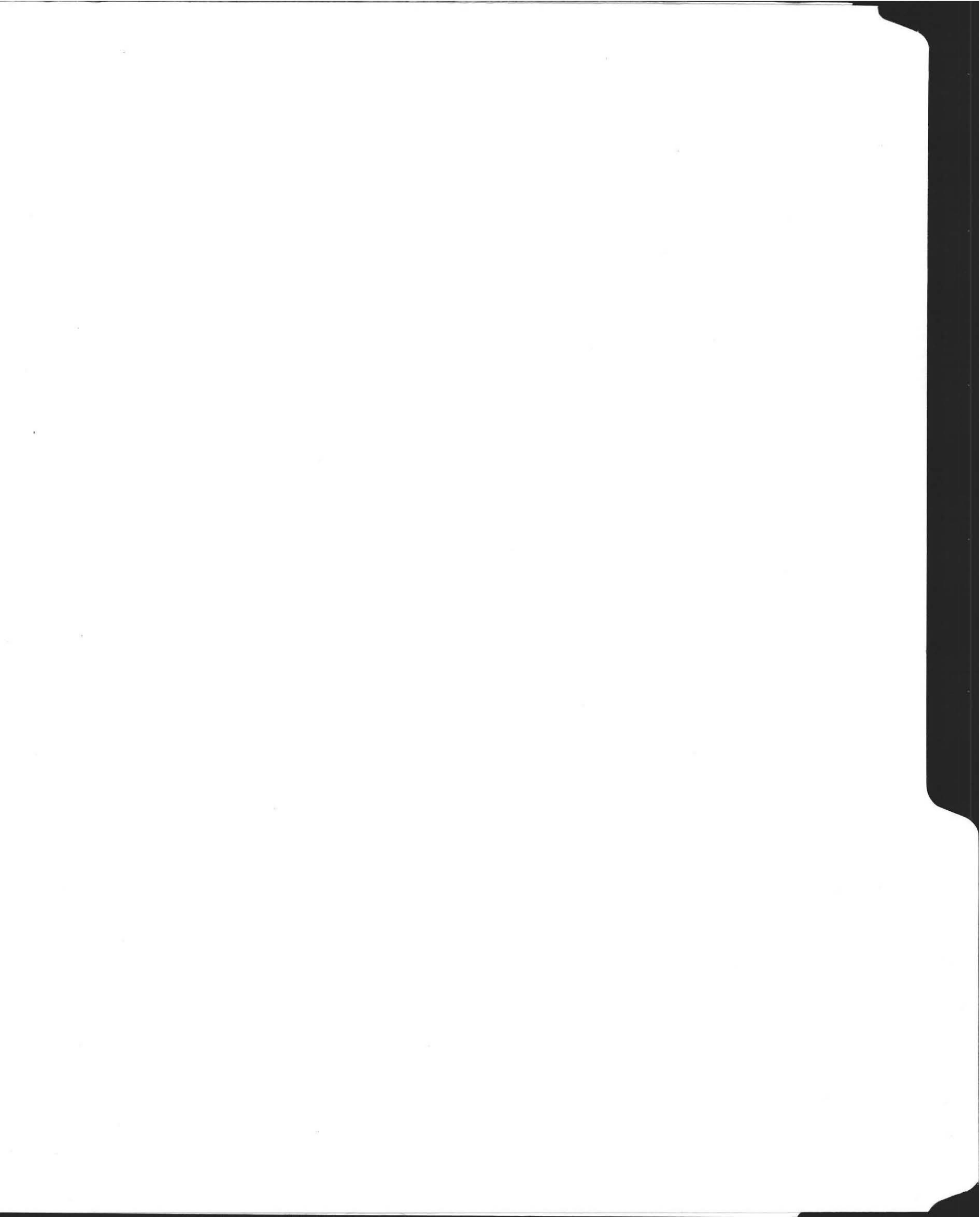


34 Elf Hill Rd



34 Elf Hill

Filios Enterprises, Inc.
69 Pelham Rd.
Amherst, MA 01002

7 July, 1992

Frank R. Sanning
34 Elf Hill Rd.
Amherst, MA 01002

This is to notify you that Filios Enterprises, Inc. has inspected the septic repair installed at the address above.

The purpose of the inspection was to determine whether the installed system complied with the plan prepared by this office and approved by the Amherst Health Department.

The inspection revealed that the elevations and layout of the as-built system varied from the approved plan to the extent shown in red on the copy of the plan profile and planview enclosed.

This variation from the plan does not represent a violation of either the regulations of the Amherst Health Dept. or the Mass. State Environmental Code, Title 5, and should not interfere with the proper functioning of the installed system.

Sincerely Yours,



Frederick A. Filios
President

C.C. to Amherst Health Dept.

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JUL 06 1992

FILIOS ENTERPRISES, INC.
69 Pelham Rd.
Amherst, MA 01002

Date: 3 July, 1992

Name: Frank R. Sanning
Address: 34 Elf Hill Rd.
Amherst, MA 01002

Dear Mr. Sanning,

This is to notify you that Filios Enterprises, Inc. has inspected the septic system installed

AT: Repair at above address

Unless exceptions are noted below, the system complied with the approved design and elevations.

Exceptions:

- 1.) Building sewer outlet and existing tank raised to eliminate need for pump.
- 2.) Elevations of the as-built system vary from those of the design to the extent shown in red on the copy of the profile enclosed.
- 3.) The layout of the as-built system varies from that of the design to the extent shown in red on the copy of the planview enclosed.

Sincerely,

Frederick A. Filios
(Frederick A. Filios)

C.C. to Board of Health

10/10/10

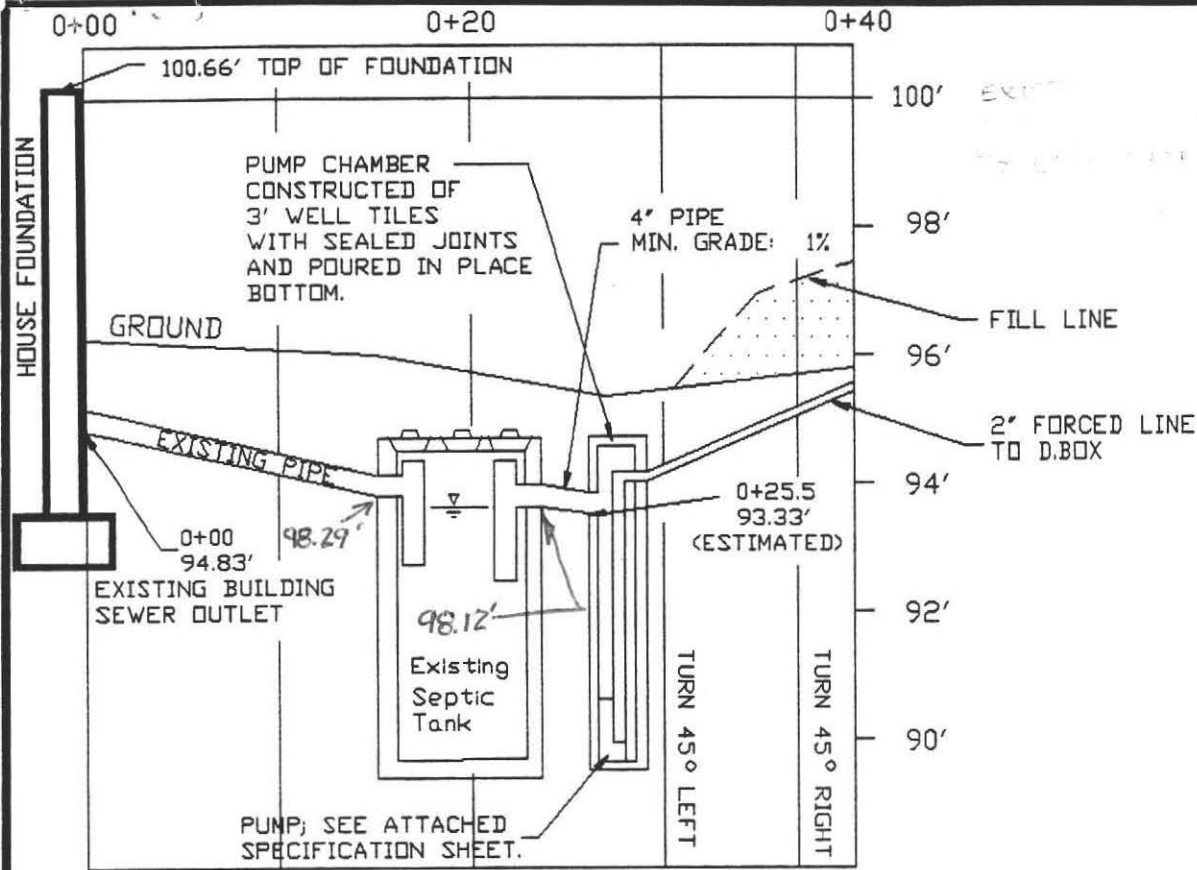
From R. ...

of ...

...

...

- 1) ...
- 2) ...
- 3) ...
- 4) ...



100' Elevation Assumed at TBM. TBM is top of landing at top of back steps shown on planview.

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

Construction Notes

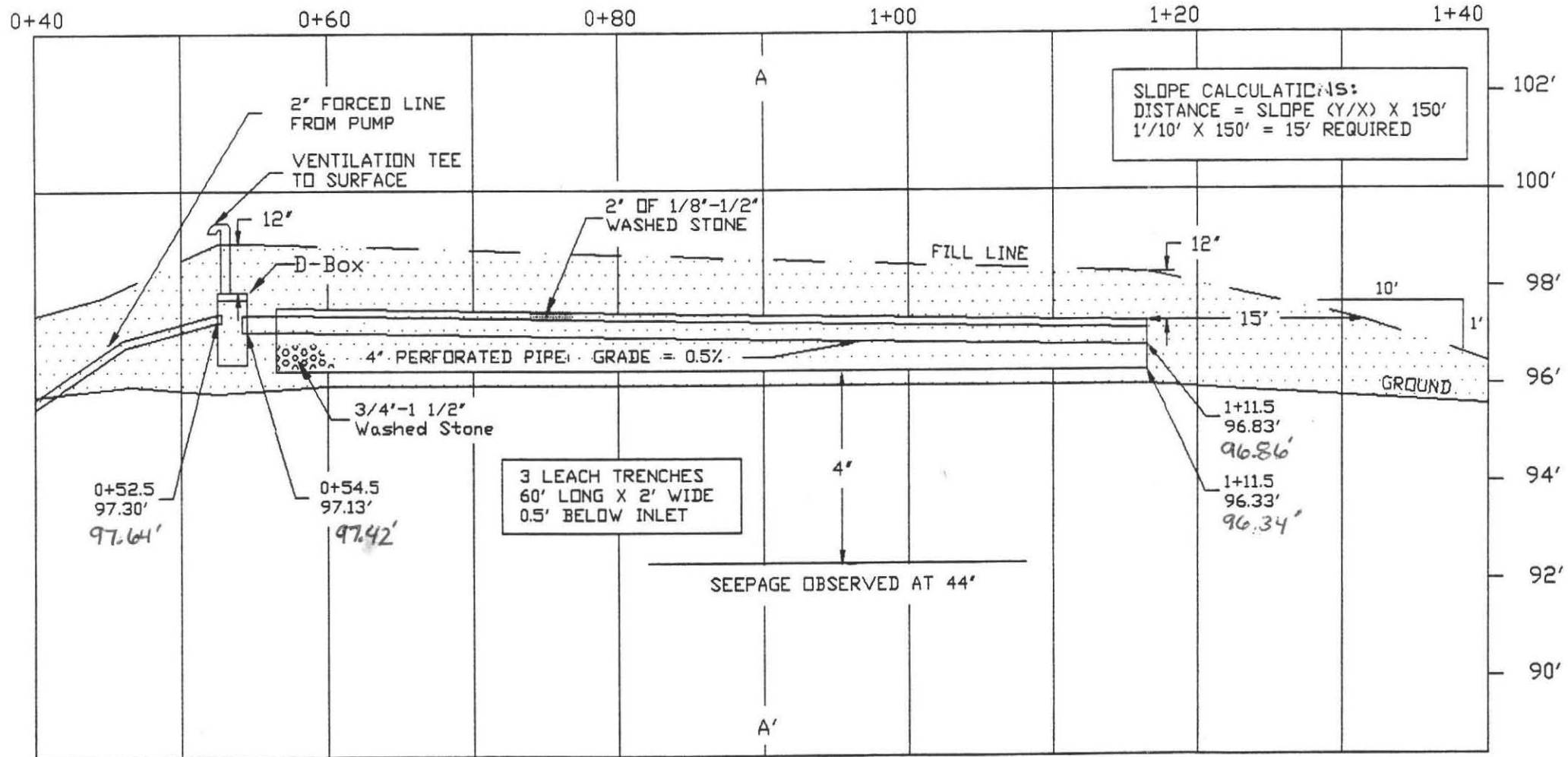
1. Septic tank should be inspected and pumped annually.
2. Inlet and outlet tees must extend 14" and 24" below the flow line respectively.

CALCULATIONS

REQUIRED:
 FOR A 4 BEDROOM HOUSE WITH GARBAGE GRINDER REMOVED AND A VARIANCE TO TOWN OF AMHERST REQUIREMENT THAT THE LEACHING AREA NOT BE LESS THAN 1 1/4 TIMES THE MIN. AREA REQUIRED BY TITLE 5. AT 110 GAL./BEDROOM/DAY = 440 GAL./DAY REQUIRED.

DESIGNED:
 3 LEACH TRENCHES: 60' LONG X 2' WIDE X 0.5' BELOW INLET (EFFECTIVE DEPTH). DESIGNED WITH A PERCOLATION RATE OF 8 MIN./INCH GIVING LOADING FACTORS OF 1.25 AND 0.63 GAL./SQ.FT./DAY RESPECTIVELY.

SIDEWALL: 6 SIDES (60' X 0.5')	1.25 GAL./SQ.FT./DAY	= 225 GAL./DAY
BOTTOM: 3 TR.S (60' X 2')	0.63 GAL./SQ.FT./DAY	= 227 GAL./DAY
TOTAL:		= 452 GAL./DAY



SLOPE CALCULATIONS:
 DISTANCE = SLOPE (Y/X) X 150'
 1'/10' X 150' = 15' REQUIRED

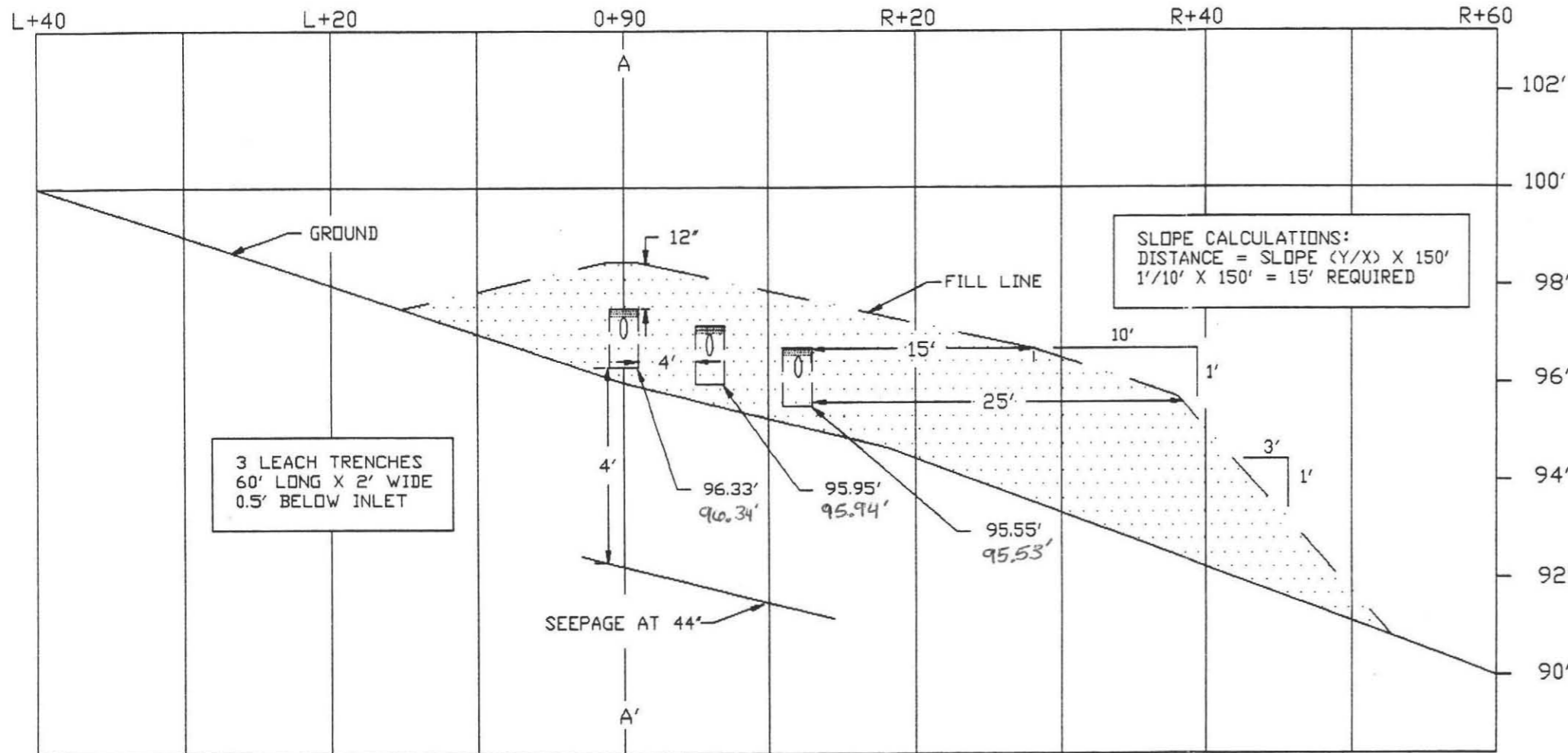


PROFILE OF SEWAGE DISPOSAL SYSTEM	
REPAIR AT 34 ELF HILL RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: FRANK R. SANING 34 ELF HILL RD. AMHERST, MA 01002
DRAWN BY R. STOVER 21 AUGUST 1991	SCALE: 1" = 10' HOR. 3" VER. PAGE TWO OF THREE



CROSS-SECTION OF LEACH TRENCHES AT A-A' (0+90)

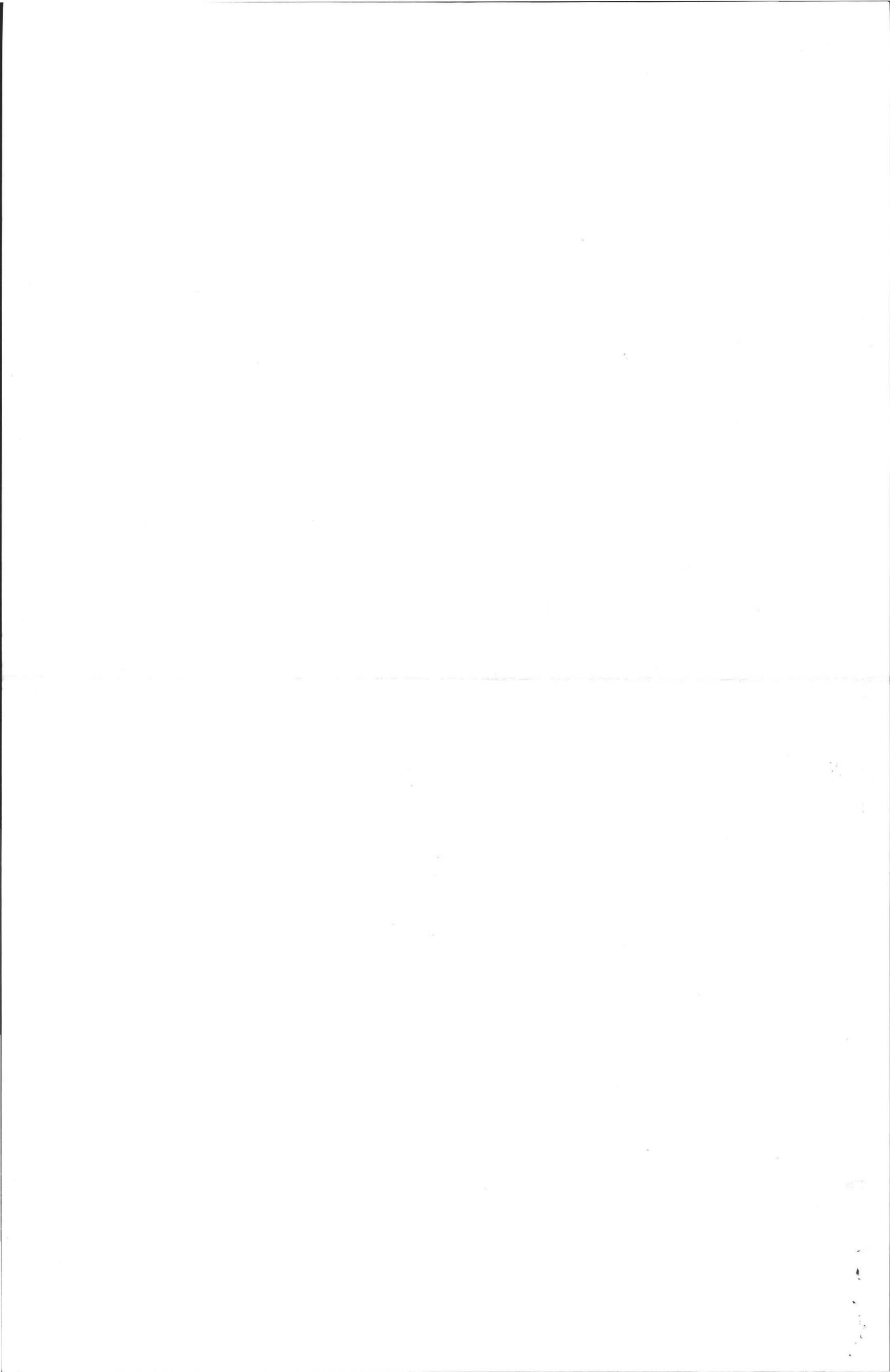
100' Elevation Assumed at TBM. TBM is top of landing at top of back steps shown on planview.

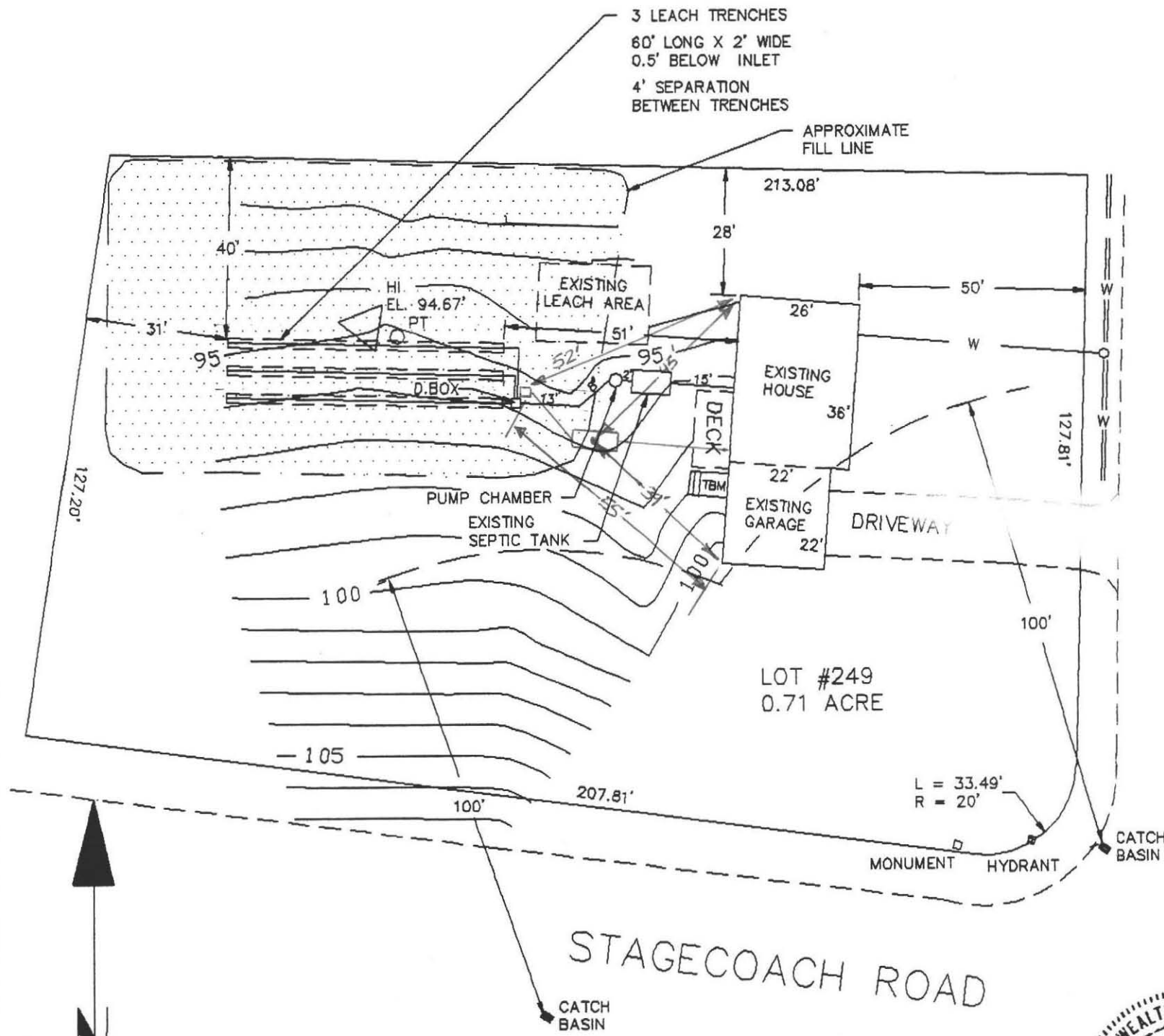


SPECIFICATIONS
 ALL MATERIALS AND CONSTRUCTION MUST BE IN ACCORDANCE WITH COMMONWEALTH OF MASSACHUSETTS DEPT. OF ENVIRONMENTAL PROTECTION STATE ENVIRONMENTAL CODE TITLE 5.



PROFILE OF SEWAGE DISPOSAL SYSTEM	
REPAIR AT 34 ELF HILL RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: FRANK R. SANNING 34 ELF HILL RD. AMHERST, MA 01002
DRAWN BY R. STOVER	SCALE: 1" = 10' HOR. 3' VER.
20 AUGUST 1991	PAGE THREE OF THREE





3 LEACH TRENCHES
 60' LONG X 2' WIDE
 0.5' BELOW INLET
 4' SEPARATION
 BETWEEN TRENCHES

APPROXIMATE
 FILL LINE

NOTES:

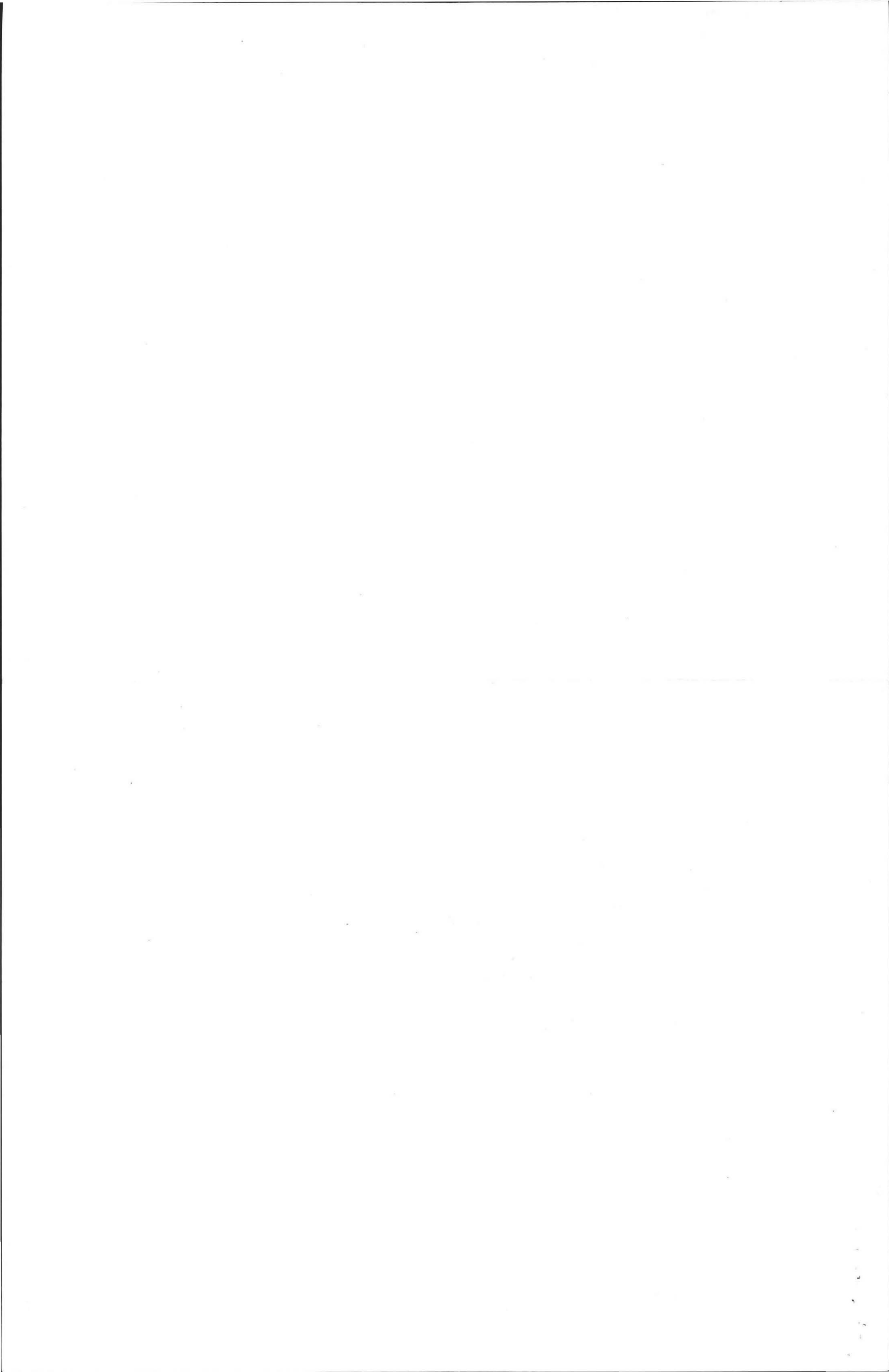
1. TBM IS TOP OF LANDING AT TOP OF BACK STEPS.
2. NO OTHER WELLS WITHIN 200' OF THE LEACH AREA AT THE TIME OF SURVEY. **TOWN WATER.**
3. THE TOPSOIL AND SUBSOIL SHALL BE REMOVED FOR A DISTANCE OF 25' FROM THE LEACH FIELD AND WHERE FILL IS TO BE PLACED.

LEGEND

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

PLAN OF SEWAGE DISPOSAL SYSTEM	
REPAIR AT 34 ELF HILL RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: FRANK R. SANNING 34 ELF HILL RD. AMHERST, MA 01002
DRAWN BY R. STOVER	SCALE: 1" = 30'00"
21 AUGUST 1991	PAGE ONE OF THREE





OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part A
Certification (continued)

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

INSPECTION SUMMARY: CHECK A, B, C, D or E / ALWAYS complete all of Section D

A] SYSTEM PASSES:

- I have not found any information which indicates that any of the failure conditions described in 310 CMR 15.303 or in CMR 15.304 exist. Any failure criteria not evaluated are indicated below.

COMMENTS: _____

B] SYSTEM CONDITIONALLY PASSES:

- One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

Answer YES, NO, or Not Determined (Y, N, or ND). in the ___ for the following statements.
If "not determined", please explain.

_____ The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health. *A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.

ND explain:

_____ Observation of sewage backup or breakout or high static water level in the distribution box is due to broken or obstructed pipe(s) or due to a broken, settled, or uneven distribution box. The system will pass inspection if (with approval of the Board of Health):

- broken pipe(s) are replaced
 obstruction is removed
 distribution box is leveled or replaced

ND explain:

_____ The system required pumping more than 4 times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health):

- broken pipe(s) are replaced
 obstruction is removed

ND explain:

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

TITLE 5 INSPECTION FORM

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

**Part A
Certification**

Property Address: 34 Elf Hill Road Amherst, Ma. Name of Owner: Frank R. Sanning

Date of Inspection: July 14, 2004 Address of Owner:

Name of Inspector: Philip J. Pasiecznik

Company Name: **Greg's Wastewater Removal
239A Greenfield Road
S. Deerfield, MA 01373**

Company Phone: (413) 665 - 3989

CERTIFICATION STATEMENT

I certify that I have personally inspected the sewage disposal system at this address and that the information reported below is true, accurate, and complete, as of the time of the inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems.

I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000). The system:

- Passes
 Conditionally Passes
 Needs Further Evaluation by the local Approving Authority
 Fails

**INSPECTOR'S
SIGNATURE:**

Philip J. Pasiecznik

DATE:

7/14/04

The System Inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within thirty (30) days of completing this inspection. If the system is a shared system or has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

NOTES AND COMMENTS: No failure criteria as described on page four of this inspection form was found at the time of inspection of this system. System Design Plan was obtained from the owner.

***This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same or different conditions of use.

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part A
Certification (continued)

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

DJ SYSTEM FAILURE CRITERIA applicable to all systems:

You must indicate either "Yes" or "No" to each of the following, for all inspections:

- | YES | NO | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s).
Number of times pumped _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of the Soil Absorption System, cesspool, or privy is below the high groundwater elevation. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within a Zone I of a public well. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within 50 feet of a private water supply well. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.] |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | The system fails. I have determined that one or more of the above failure criteria exists as defined in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure. |

EJ LARGE SYSTEMS:

To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

You must indicate either "Yes" or "No" to each of the following:

(The following criteria apply to large systems in addition to the criteria above)

- | Yes | No | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | The system is within 400 feet of a surface drinking water supply |
| <input type="checkbox"/> | <input type="checkbox"/> | The system is within 200 feet of a tributary to a surface drinking water supply |
| <input type="checkbox"/> | <input type="checkbox"/> | The system is located in a nitrogen sensitive area (Interim Wellhead Protection Area (IWPA) or a mapped Zone II of a public water supply well) |

If you have answered "yes" to any question in Section E the system is considered a threat, or answered "yes" in Section D above the large system has failed. The owner or operator or any large system considered a significant threat under Section E or failed under Section D shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part A
Certification (continued)

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

C] FURTHER EVALUATION IS REQUIRED BY THE BOARD OF HEALTH

_____ Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect the public health, safety, or the environment.

- 1) **SYSTEM WILL PASS UNLESS BOARD OF HEALTH DETERMINES IN ACCORDANCE WITH 310 CMR 15.303 (1)(b) THAT THE SYSTEM IS NOT FUNCTIONING IN A MANNER WHICH WILL PROTECT THE PUBLIC HEALTH, SAFETY AND THE ENVIRONMENT:**

- Cesspool or privy is within 50 feet of a surface water
 Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh.

- 2) **SYSTEM WILL FAIL UNLESS BOARD OF HEALTH (AND PUBLIC WATER SUPPLIER, IF ANY) DETERMINES THAT THE SYSTEM IS FUNCTIONING IN A MANNER THAT PROTECTS THE PUBLIC HEALTH, SAFETY AND THE ENVIRONMENT:**

- The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet to a surface water supply or tributary to a surface water supply.
 The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.
 The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.
 The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well**. Method used to determine distance _____

**This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.

- 3) Other _____

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part C
SYSTEM INFORMATION

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

FLOW CONDITIONS

Residential:

Number of bedrooms (design): 4 Number of bedrooms (actual) 4
DESIGN Flow: 440 G.P.D. (based on 310 CMR 15.203 - for example: 110 gpd x # of bedrooms)
Number of current residents: 1
Is Garbage Grinder present (yes or no) Yes
Is laundry on a separate sewage system (yes or no) No if yes separate inspection required
Laundry system inspected (yes or no) _____
Seasonal Use (yes or no) No
Water Meter readings - if available
(last two (2) year usage (gpd)) _____
Sump Pump (yes or no) No
Last Date of Occupancy: Currently Occupied

Commercial/Industrial:

Type of establishment: _____
Design flow: (Based on 310 CMR 15.203) _____ gallons per day
Basis of design flow (seats/persons/sqft, etc.) _____
Grease trap present (yes or no) _____
Industrial Waste Holding Tank present (yes or no) _____
Non-sanitary waste discharged to the Title 5 system
(yes or no) _____
Last Date of Occupancy/Use: _____
OTHER (describe): _____

GENERAL INFORMATION

PUMPING RECORDS

Source of information: Owner states system has not been pumped since repaired in 1991.
Was system pumped as part of the inspection: Yes
(yes or no)
If YES -enter volume pumped 1000 gallons
Reason for pumping: Tank Inspection
How was the quantity pumped determined? Tank Dimensions

TYPE OF SYSTEM:

Septic Tank / D Box / Soil Absorption System Single Cesspool
 Overflow Cesspool Privy

Shared system (yes or no) (if yes, attach previous inspection records, if any) No
Innovative/Alternative technology. Attach a copy of up the current operation and maintenance contract (to be obtained from system owner) _____
Tight Tank _____ Attach a copy of DEP Approval _____
OTHER (describe): _____

Approximate age of all components, date installed (if known) and source of information:

Tank 30 Years Old + or - SAS 13 Years Old / SAS 1991 / Design Plan

Were sewage odors detected when arriving at site: (yes or no) No

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part B
CHECKLIST

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

Check if the following have been done. You **must** indicate either "Yes" or "No" as to each of the following:

- | Yes | No | |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Pumping information was requested of the owner, occupant, or Board of Health. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Were any of the system components pumped out in the previous two weeks? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Has the system received normal flows in the previous two week period? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Have large volumes of water been introduced to the system recently or as part of this inspection? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were as built plans of the system obtained and examined? (If they were not available note as N/A) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Was the facility or dwelling inspected for signs of sewage back up? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Was the site inspected for signs of break out? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were all system components, excluding the Soil Absorption System, located on site? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? |

The size and location of the Soil Absorption System (SAS) on the site has been determined based on:

- | | | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Existing information. For example, a plan at the Board of Health. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302 (3)(b)] |

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part C

SYSTEM INFORMATION (continued)

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

TIGHT or HOLDING TANK: _____ (Tank must be pumped at time of inspection) (locate on site plan)

Depth below grade: _____

Material of Construction: Concrete Metal Fiberglass Polyethylene _____ Other (explain)

Dimensions:

Capacity in gallons

Design flow in gallons per day

Alarm present (Yes or No)

Alarm level

Alarm in working order Yes No

Date of last pumping

Comments: (condition of alarm and float switches, etc.) _____

DISTRIBUTION BOX Yes No (If present, MUST be opened - locate on site plan)

Depth of liquid level above outlet invert: Not Above

Comments: (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.) The box was level and distribution was equal to all three outlet pipes. Little solids carryover was in the box when opened for inspection. No leakage was evident into or out of the box at this time.

PUMP CHAMBER: (located on site plan)

Pumps in working order: (Yes or No) _____

Alarms in working order (Yes or No) _____

Comments: (Note condition of pump chamber, condition of pumps and appurtenances, etc.) _____

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part A
Certification (continued)

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

BUILDING SEWER (Locate on site plan):

Depth below grade: 16"

Material of construction: _____ cast iron XXX 40 PVC _____ other (explain)

Distance from private water supply well or suction line Public Water Supply

Diameter 4"

Comments: (condition of joints, venting, evidence of leakage, etc.) Joints were in good condition. Venting pipes were visible outside the dwelling. No leakage was evident at this time.

SEPTIC TANK (locate on site plan):

Depth below grade: 8"

Material of Construction: Concrete Metal Fiberglass Polyethylene _____ Other (explain)

If tank is metal, list age _____ Is age confirmed by Certificate of Compliance _____
(Yes/No) (If "Y", attach copy of Certificate of Compliance)

8' Lx5' Wx6'6"D

Dimensions:

10"

Sludge Depth

35"

Distance from top of sludge to bottom of outlet tee or baffle

8"

Scum thickness

5"

Distance from top of scum to top of outlet tee or baffle

17"

Distance from bottom of scum to bottom of outlet tee or baffle

Measured

How dimensions were determined:

Comments: (On pumping recommendations, inlet & outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.) The septic tank should be pumped every two to three years. PVC Inlet tee was in place and extends 12" below the flow line. PVC Outlet tee was in place and extends 25" below the flow line. The liquid level was at the outlet invert. Structural integrity of the septic tank was good. No leakage was evident at the time of inspection.

GREASE TRAP (locate on site plan):

Depth below grade: _____

Material of Construction: Concrete Metal Fiberglass Polyethylene Other (explain) _____

Dimensions

Scum thickness

Distance from top of scum to top of outlet tee / baffle

Distance from bottom of scum to bottom of outlet tee / baffle

Date of last pumping:

Comments: (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.): _____

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part C
SYSTEM INFORMATION

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

SKETCH OF SEWAGE DISPOSAL SYSTEM:

{Provide a Sketch of the sewage disposal system including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building.

****** { SEE EXHIBIT A } ******

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part C

SYSTEM INFORMATION (continued)

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

SOIL ABSORPTION SYSTEM

(SAS):

(locate on site plan, if possible; excavation not required.)

If SAS is not located explain why: _____

TYPE:

Leaching pits & number _____

Leaching chambers & number _____

Leaching galleries & number _____

Leaching trenches, number, length 3 - Trenches 60ft. Long x 2ft. Wide
(Per Design Plan)

Leaching fields, number, dimensions _____

Overflow cesspool, number _____

Innovative/Alternative system: _____

Name of Technology: _____

Comments: (Note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.) The soil was sandy gravel with no clogging evident. No signs of hydraulic failure or ponding to the surface. The soil wasn't damp over the area of the trenches. Vegetation was mowed grass for the first ten feet of the trenches. Vegetation over the rest of the trench areas was small trees and tall grass. Vegetation all seemed uniform throughout the area. Recommend the small trees be cut down close to the ground without removing the roots. Vegetation over the area of the trenches should be kept clear..

CESSPOOLS (Cesspool must be pumped as part of inspection - locate on site plan)

Number & configuration _____

Depth - top of liquid to inlet invert _____

Depth of solids layer _____

Depth of scum layer _____

Dimensions of cesspool _____

Materials of construction _____

Indication of groundwater inflow
(Yes or No) _____

Comments: (Note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.) _____

PRIVY (locate on site plan)

Materials of construction _____

Dimensions _____

Depth of solids _____

Comments: (Note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.) _____

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Part C
SYSTEM INFORMATION (continued)

Property Address: 34 Elf Hill Road Amherst, Ma.
Owner: Frank R. Sanning
Date of Inspection: July 14, 2004

SITE EXAM Slope
 Surface water
 Check cellar
 Shallow wells

Estimated Depth to Groundwater > 4 Feet

Please indicate (check) all the methods used to determine High Groundwater Elevation:

Obtained from system design plans on record - If checked, date of design plan reviewed: August 21, 1991

Observed site (Abutting property/observation hole within 150 feet of SAS)

Checked with local Board of Health - explain: _____

Checked with local excavators, installers - (attach documentation)

Accessed USGS database - explain: _____

You **must** describe how you established the **high ground water elevation:**
Design Plan shows depth to groundwater at 44". Area was filled and trenches installed without the use of a pump chamber as Design Plan shows. No sump pump in the basement of the dwelling which was dry at this time. No sign of surface water on the property. No groundwater evident on sloped areas on the property. No infiltration of groundwater into the septic tank after pumping.

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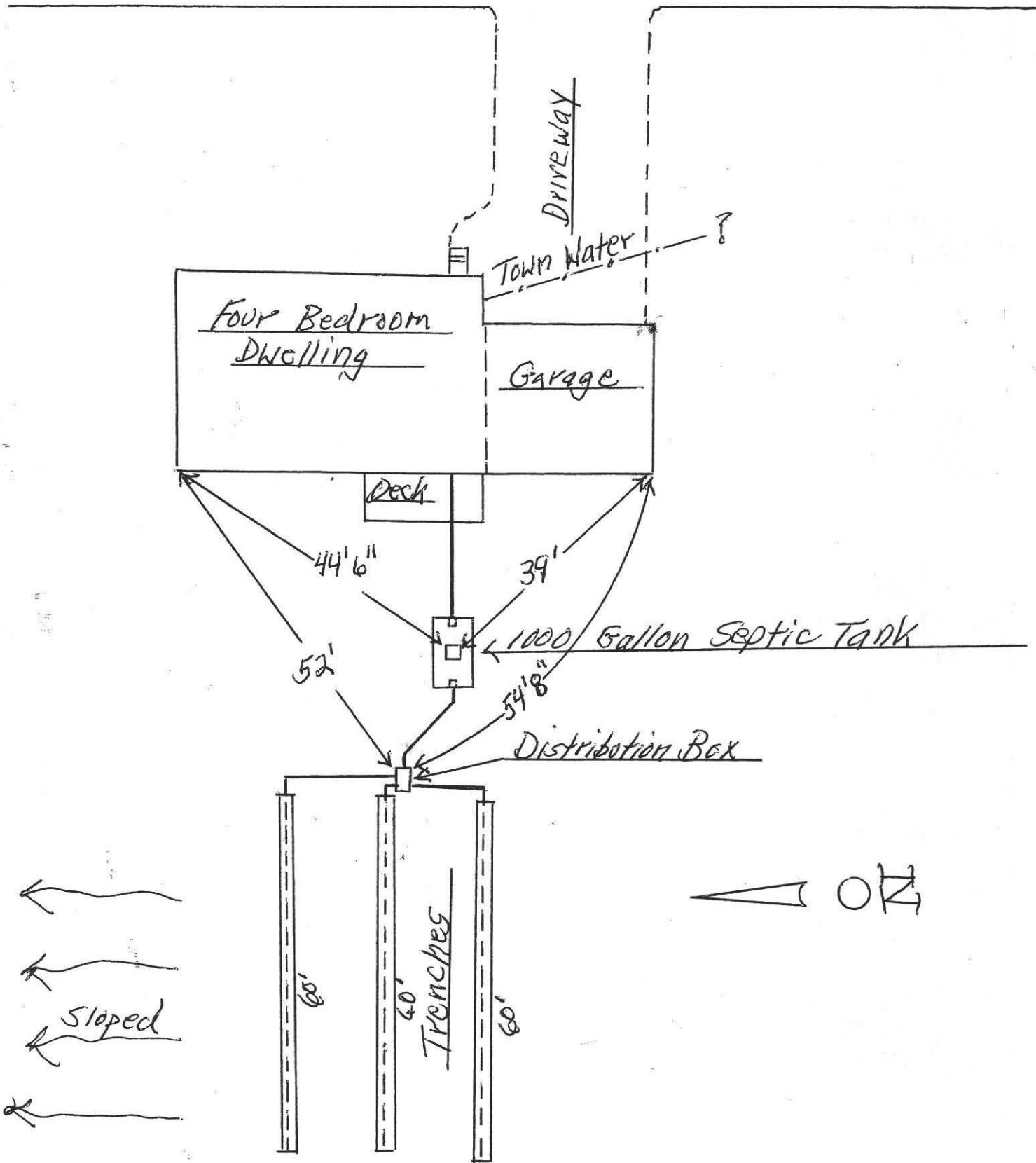
Sewage Disposal System
at 34 Elf Hill Road
Amherst, Ma.

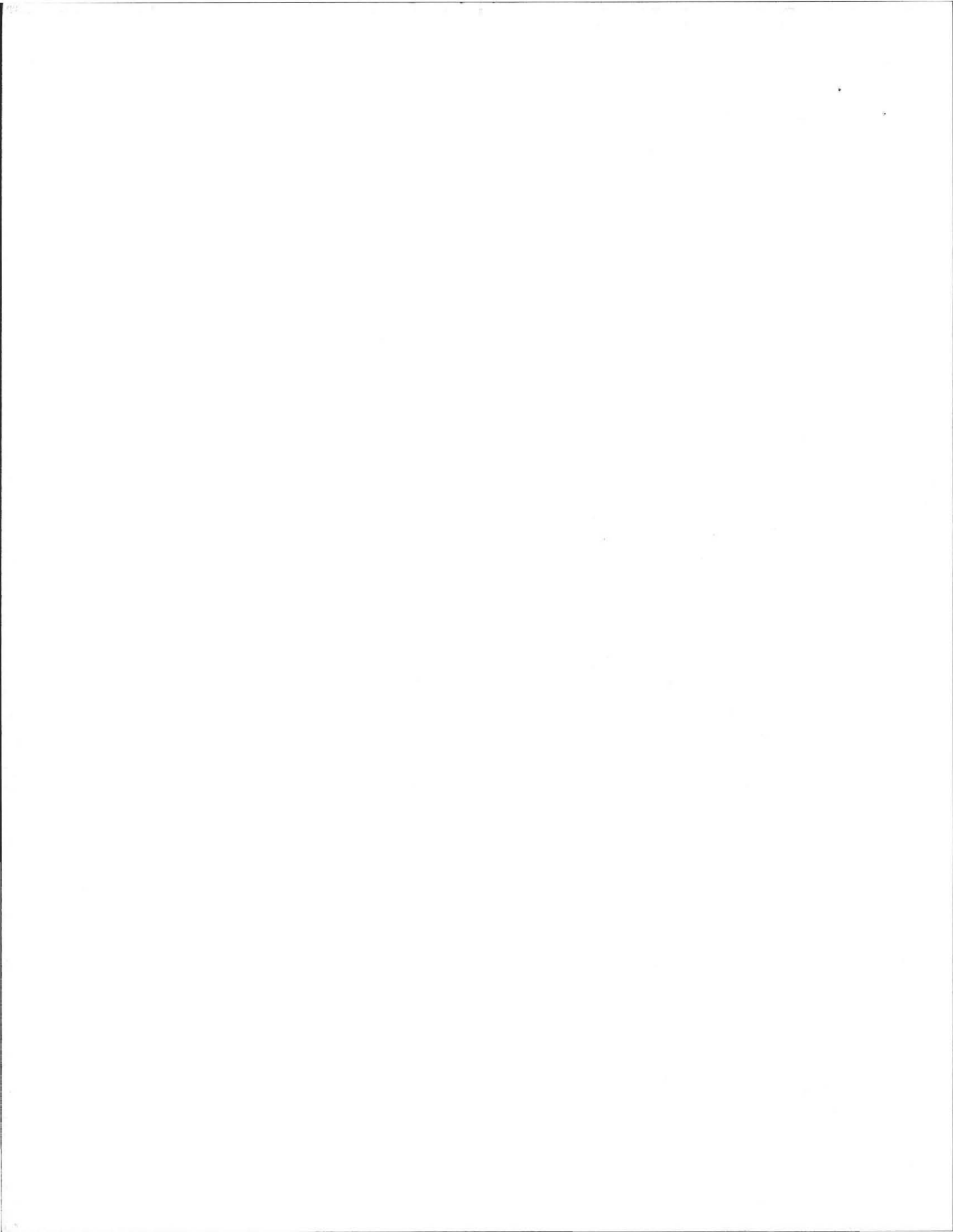
EXHIBIT "A"

Inspection Date 7/14/04

Drawing Not to Scale

Elf Hill Road





No.

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:

34 Elf Hill Rd. Lot # 249
Location - Address or Lot No.
Frank R. Sanning Same
Owner Address
Installer Address

Type of Building Dwelling - No. of Bedrooms 4 Expansion Attic () Garbage Grinder ()
Other - Type of Building No. of persons Showers () - Cafeteria ()
Other fixtures Garbage Grinder To Be Removed
Design Flow 55 gallons per person per day. Total daily flow 440 gallons.
Septic Tank - Liquid capacity gallons Length Width Diameter Depth
Disposal Trench - No. 3 Width 2' Total Length 180' Total leaching area 180 sq. ft. Sidewall
Seepage Pit No. Diameter Depth below inlet 0.5' Total leaching area 360 sq. ft. Bottom
Other Distribution box (X) Dosing tank () DEEP HOLE: MAY 14, 1991
Percolation Test Results Performed by Filios Enterprises, Inc. Date PERCTEST: JULY 19, 1991
Test Pit No. 1 7 minutes per inch Depth of Test Pit 114" Depth to ground water 44"
Test Pit No. 2 minutes per inch Depth of Test Pit Depth to ground water

Description of Soil Attached

Nature of Repairs or Alterations - Answer when applicable. Retain existing septic tank install pump and pump chamber and replace leach area.

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 _____ Date _____
Application Approved By _____ Date _____
Application Disapproved for the following reasons: _____ Date _____
Permit No. _____ Issued _____ Date _____

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

OF
Certificate of Compliance

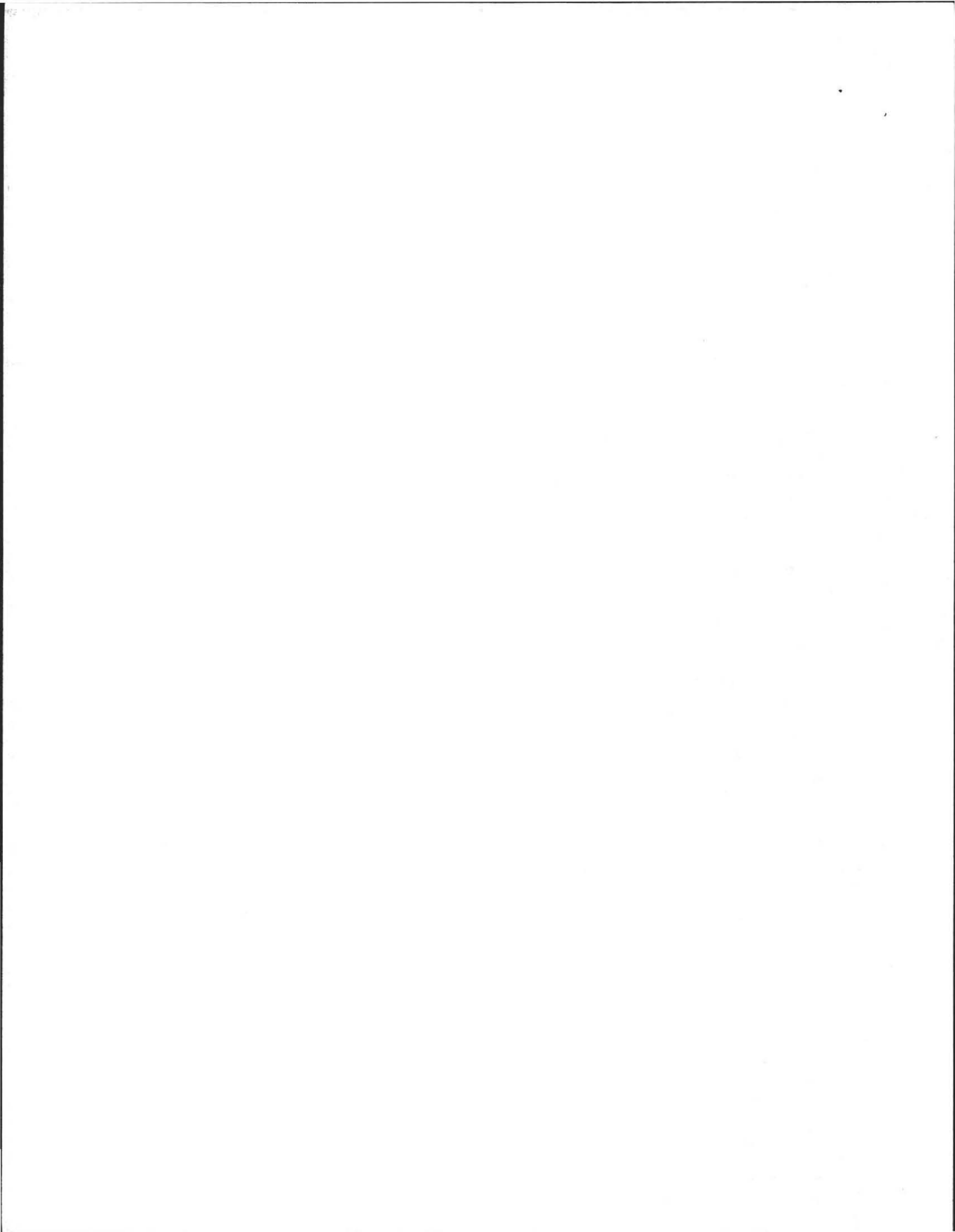
THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired () by _____ Installer

at _____ 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. _____ dated _____

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

DATE _____ Inspector _____

CHECK OR FILL IN WHERE APPLICABLE





Percolation Test Report and Deep Soil Log

FILIOS ENTERPRISES

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

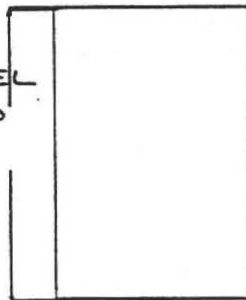
Owner: FRANK SANNING
Location: 34 ELF HILL RD.
AMHERST, MA.

Date: MAY 14 1991
B. of H. DAVE ZAROZINSKI

DEEP HOLE 1

0" - 7"	TOPSOIL
7" - 22"	SUBSOIL
22" - 44"	SAND AND SOME GRAVEL
44" - 56"	COMPACT (HARD) SAND WITH SOME SILT
56" - 108"	FIRM SAND WITH SOME SILT
108" - 114"	RED TILL

DEEP HOLE 2

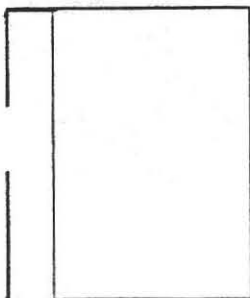


Ground Water _____

SEEPAGE AT 44"
VEINS DEEPER

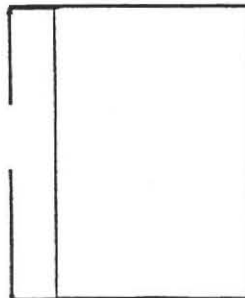
Ground Water _____

DEEP HOLE 3



Ground Water _____

DEEP HOLE 4



Ground Water _____

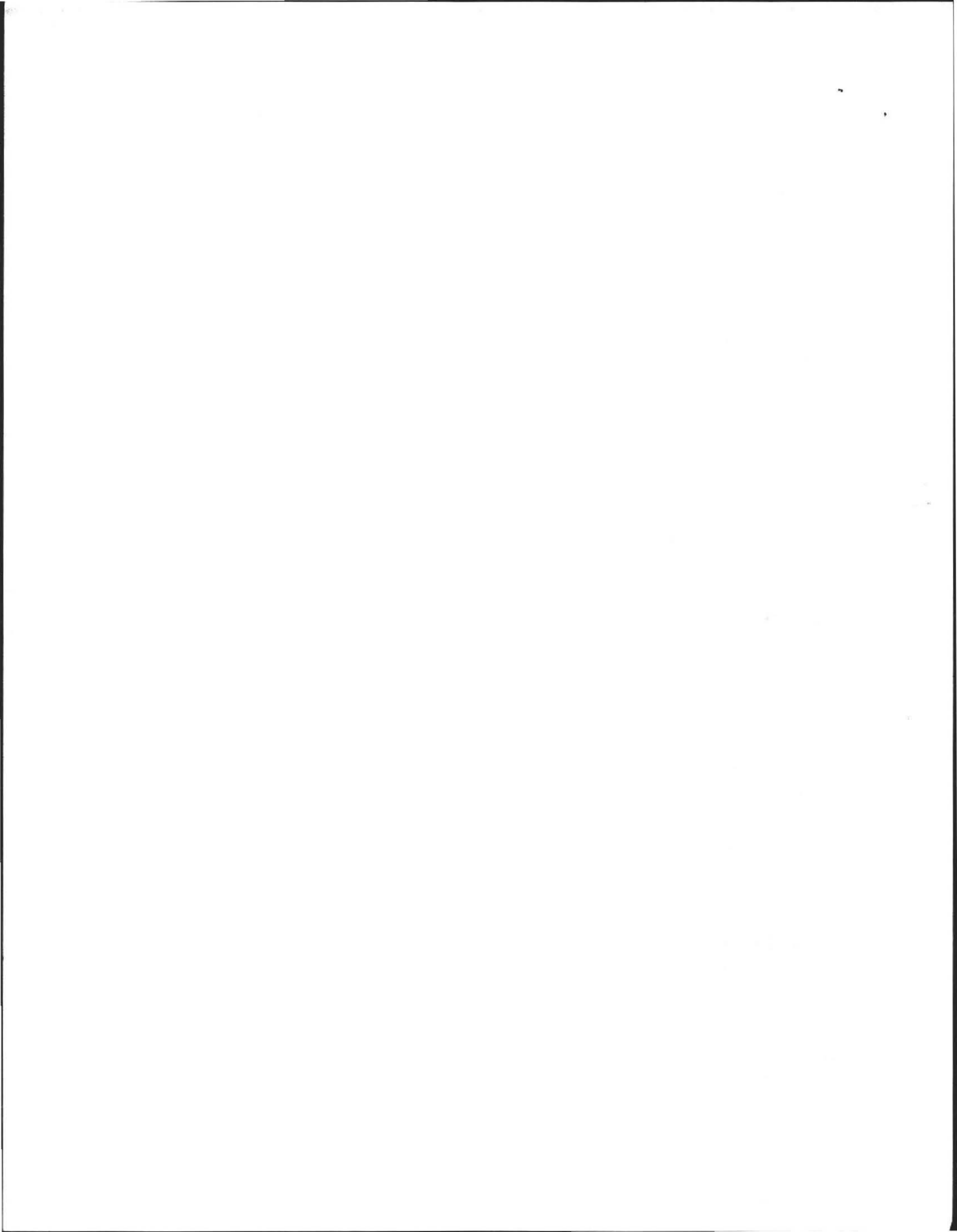
PERC TEST #1 - ABANDONED

PERC TEST #2 - ^{DONE} 7/19/91

DEPTH OF PERC 32"

PERC RATE: 7 MIN./IN.

COMMENTS: _____



Elevation Assumed
 M. TBM is top of
 g at top of back
 shown on planview.

PECIFICATIONS
 LS AND CONSTRUCTION MUST BE
 CE WITH COMMONWEALTH OF
 TS DEPT. OF ENVIRONMENTAL
 STATE ENVIRONMENTAL CODE

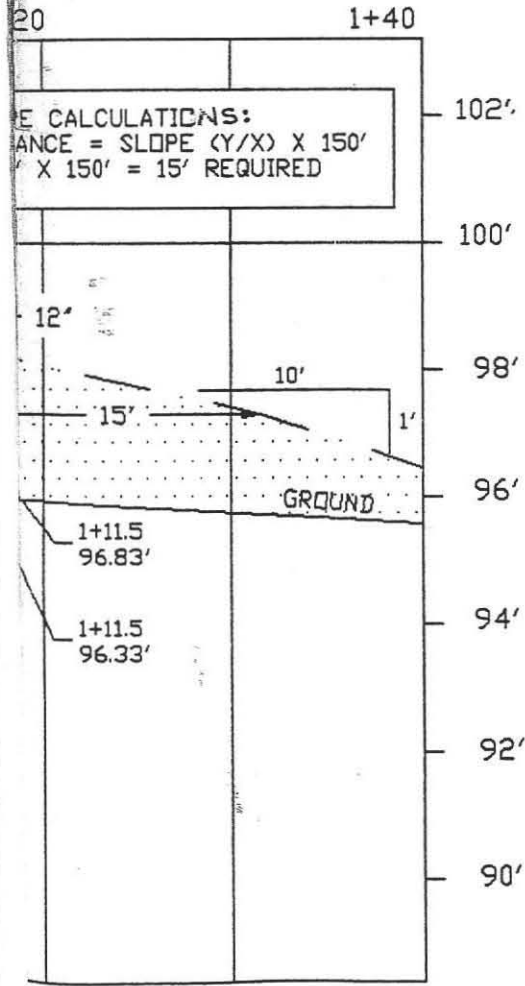
onstruction Notes
 ank should be inspected
 annually.
 d outlet tees must
 and 24" below the flow
 tively.

CALCULATIONS

REQUIRED:
 FOR A 4 BEDROOM HOUSE WITH GARBAGE GRINDER RE-
 MOVED AND A VARIANCE TO TOWN OF AMHERST RE-
 QIREMENT THAT THE LEACHING AREA NOT BE LESS
 THAN 1 1/4 TIMES THE MIN. AREA REQUIRED BY TITLE 5.
 AT 110 GAL./BEDROOM/DAY = 440 GAL./DAY REQUIRED.

DESIGNED:
 3 LEACH TRENCHES: 60' LONG X 2' WIDE X 0.5' BELOW
 INLET (EFFECTIVE DEPTH). DESIGNED WITH A PERCO-
 LATION RATE OF 8 MIN./INCH GIVING LOADING FACTORS
 OF 1.25 AND 0.63 GAL./SQ.FT./DAY RESPECTIVELY.

SIDEWALL: 6 SIDES (60' X 0.5') 1.25 GAL./SQ.FT./DAY = 225 GAL./DAY
 BOTTOM: 3 TR.S (60' X 2') 0.63 GAL./SQ.FT./DAY = 227 GAL./DAY
 TOTAL: = 452 GAL./DAY



PROFILE OF SEWAGE DISPOSAL SYSTEM	
REPAIR AT 34 ELF HILL RD., AMHERST, MA	
BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008	FOR: FRANK R. SANNING 34 ELF HILL RD. AMHERST, MA 01002
DRAWN BY R. STOVER	SCALE: 1' = 10' HOR. 3' VER.
21 AUGUST 1991	PAGE TWO OF THREE

