

RECEIVED JUL 16 1999

1670 S.EAST

31 Shutesbury Road
Pelham, MA 01002
(413) 256-0647

July 14, 1999

Dave Zarozinski
Health Department
4 Boltwood Avenue
Amherst, MA 01002-2351

Subject: Title 5 Septic System Inspection at 1670 South East Street
(Property of Ruth & Steven Barrett)

Dear Dave:

On July 7 and July 14, 1999 I completed an inspection of the septic system at the subject property in accordance with 310 CMR 15.000 (Title 5) requirements. Two copies of the report are enclosed for your use.

This system is certified as, "Passed" by the criteria in the regulation. Additional comments are included in the report. As you and I spoke about by telephone, the distribution box was replaced as part of this inspection process. I re-inspected on July 14 to confirm this was done and working properly. My notes about the D-Box are on pages 8 and 10 of the report.

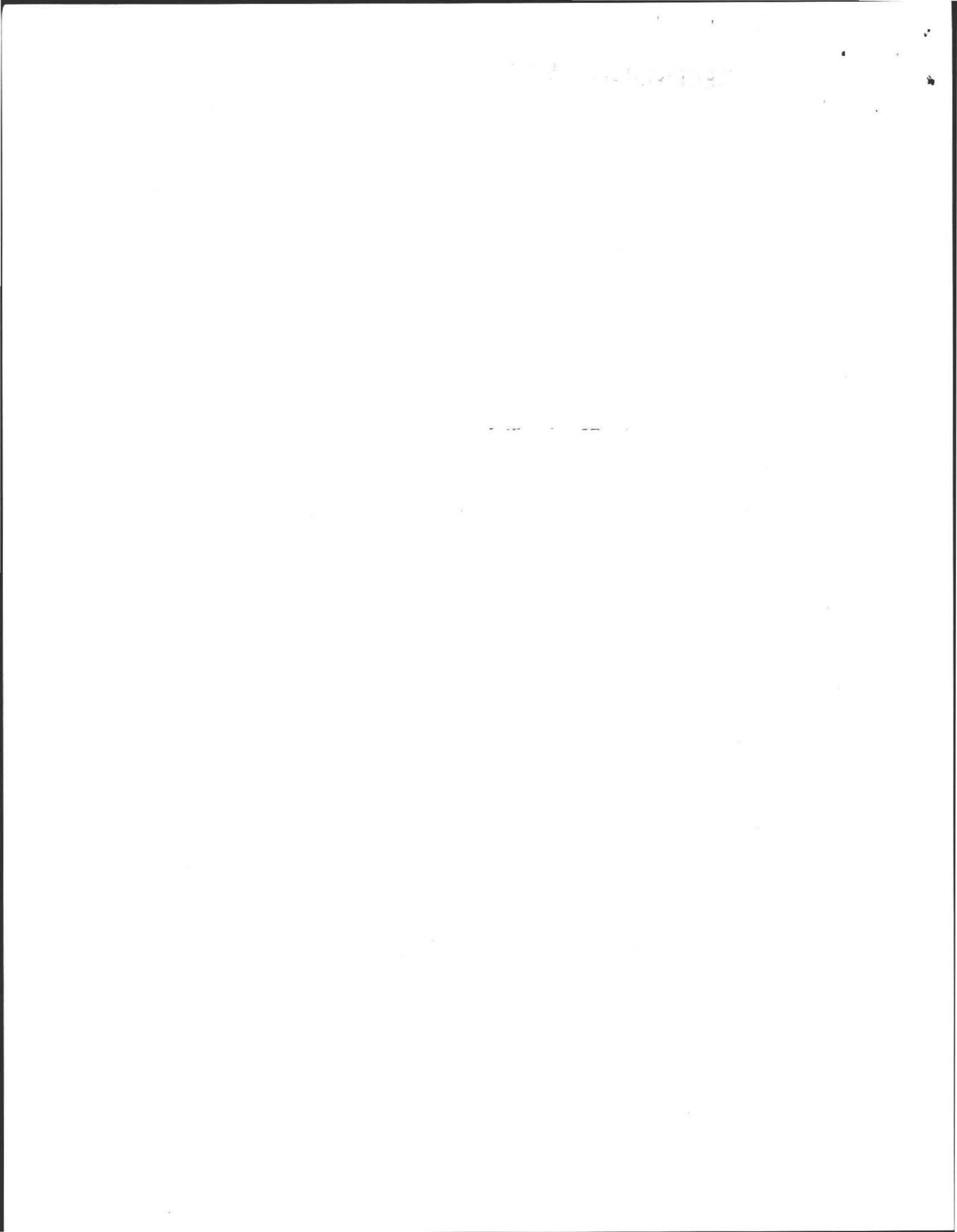
If you have questions on any aspect of the inspection or the report please contact me at the address above or by phone evenings.

Sincerely,



Richard Scott, P.E.

cc:Ruth & Steven Barrett, Owners
Janice Kynard, Realtor
Buyer c/o Janice Kynard





COMMONWEALTH OF MASSACHUSETTS
 EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 ONE WINTER STREET, BOSTON MA 02108 (617) 292-5500

TRUDY COXE
 Secretary

DAVID B. STRUHS
 Commissioner

ARGEO PAUL CELLUCCI
 Governor

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
 PART A
 CERTIFICATION

Property Address: 1670 SOUTH EAST STREET, AMHEEST Name of Owner: RUTH BARRETT
 Address of Owner: 1670 SOUTH EAST STREET
 Date of Inspection: 7-7-99 & 7-14-99
 Name of Inspector: (Please Print) RICHARD SCOTT
 I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000)
 Company Name: RICHARD SCOTT, P.E.
 Mailing Address: 31 SHUTESAUET ROAD PELHAM, MA 01002
 Telephone Number: 413-256-0647

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 inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. The system:

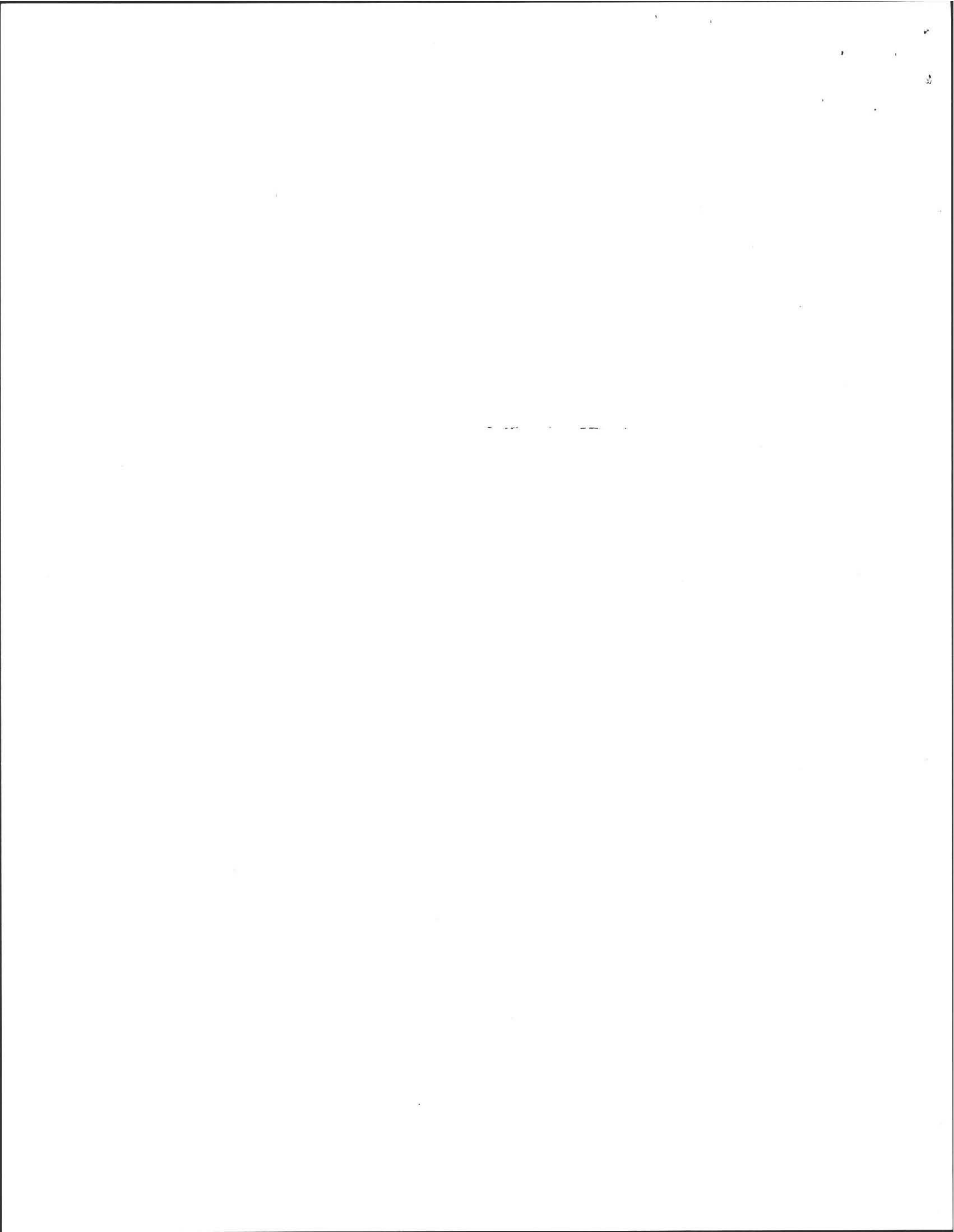
- Passes
- Conditionally Passes
- Needs Further Evaluation By the Local Approving Authority
- Fails

Inspector's Signature: Richard Scott Date: 7-14-99

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 Department of Environmental Protection. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

NOTES AND COMMENTS

SEE ADDITIONAL NOTE AT PAGE 8.
 AS OF 7-14-99 DISTR. BOX HAS BEEN REPLACED.



SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

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 and 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 AND SAFETY AND THE ENVIRONMENT:**

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

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

- ___ The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.
- ___ The system has a septic tank and soil absorption system and the SAS is within a Zone I of a public water supply well.
- ___ The system has a septic tank and soil absorption system and the SAS is within 50 feet of a private water supply well.
- ___ The system has a septic tank and soil absorption system and the SAS is less than 100 feet but 50 feet or more from a private water supply well, unless a well water analysis 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. Method used to determine distance _____ (approximation not valid).

3) OTHER

___ _____

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

INSPECTION SUMMARY: Check A, B, C, or D:

A. SYSTEM PASSES:

I have not found any information which indicates that any of the failure conditions described in 310 CMR 15.303 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.

Indicate yes, no, or not determined (Y, N, or ND). Describe basis of determination in all instances. If "not determined", explain why not.

_____ The septic tank is metal, unless the owner or operator has provided the system inspector with a copy of a Certificate of Compliance (attached) indicating that the tank was installed within twenty (20) years prior to the date of the inspection; or the septic tank, whether or not metal, is cracked, structurally unsound, shows substantial infiltration or exfiltration, or tank failure is imminent. The system will pass inspection if the existing septic tank is replaced with a complying septic tank as approved by the Board of Health.

_____ Sewage backup or breakout or high static water level observed 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 levelled or replaced

_____ The system required pumping more than four 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

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

**PART B
CHECKLIST**



Property Address: 1670 SOUTH EAST ST. MMHERST
 Owner: RUTH BARRETT
 Date of Inspection: 7-7 & 7-14-99

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 provided by the owner, occupant, or Board of Health. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | None of the system components have been pumped for at least two weeks and the system has been receiving normal flow rates during that period. Large volumes of water have not been introduced into the system recently or as part of this inspection. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | As built plans have been obtained and examined. Note if they are not available with N/A. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The facility or dwelling was inspected for signs of sewage back-up. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The system does not receive non-sanitary or industrial waste flow. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site was inspected for signs of breakout. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | All system components, excluding the Soil Absorption System, have been located on the site. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The septic tank manholes were uncovered, opened, and the interior of the septic tank was inspected for condition of baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge, depth of scum.
The size and location of the Soil Absorption System on the site has been determined based on: |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Existing information. For example, Plan at B.O.H. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Determined in the field (if any of the failure criteria related to Part C is at issue, approximation of distance is unacceptable) [15.302(3)(b)] |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The facility owner (and occupants, if different from owner) were provided with information on the proper maintenance of SubSurface Disposal Systems. |

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
 Owner: RUTH BARRETT
 Date of Inspection: 7-7 & 7-14-99

D. SYSTEM FAILS:

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

I have determined that one or more of the following failure conditions exist as described in 310 CMR 15.303. The basis for this determination is identified below. The Board of Health should be contacted to determine what will be necessary to correct the failure.

- | Yes | No | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Backup of sewage into facility or system component due to an overloaded or clogged SAS or cesspool. |
| <input type="checkbox"/> | <input 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 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 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 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 type="checkbox"/> | Any portion of the Soil Absorption System, cesspool or privy is below the high groundwater elevation. |
| <input type="checkbox"/> | <input type="checkbox"/> | Any portion of a cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply. |
| <input type="checkbox"/> | <input type="checkbox"/> | Any portion of a cesspool or privy is within a Zone I of a public well. |
| <input type="checkbox"/> | <input type="checkbox"/> | Any portion of a cesspool or privy is within 50 feet of a private water supply well. |
| <input type="checkbox"/> | <input 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. If the well has been analyzed to be acceptable, attach copy of well water analysis for coliform bacteria, volatile organic compounds, ammonia nitrogen and nitrate nitrogen. |

E. LARGE SYSTEM FAILS:

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:

The system serves a facility with a design flow of 10,000 gpd or greater (Large System) and the system is a significant threat to public health and safety and the environment because one or more of the following conditions exist:

- | 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) |

The owner or operator of any such system shall upgrade the system in accordance with 310 CMR 15.304(2). Please consult the local regional office of the Department for further information.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

BUILDING SEWER:
(Locate on site plan)

Depth below grade:
Material of construction: ___ cast iron 40 PVC ___ other (explain)

Distance from private water supply well or suction line N/A - WATER SUPPLY IS A PRESSURE-LINE
Diameter 4"
Comments: (condition of joints, venting, evidence of leakage, etc.)
GOOD CONDITION.

SEPTIC TANK:
(locate on site plan)

Depth below grade: 12"
Material of construction: concrete ___ metal ___ Fiberglass ___ Polyethylene ___ other(explain)

If tank is metal, list age ___ Is age confirmed by Certificate of Compliance ___ (Yes/No)

Dimensions: 58" x 102" x 48" DEEP
Sludge depth: 6"
Distance from top of sludge to bottom of outlet tee or baffle: 22"
Scum thickness: 8"
Distance from top of scum to top of outlet tee or baffle: 3"
Distance from bottom of scum to bottom of outlet tee or baffle: 15"
How dimensions were determined: DIRECT OBSERVATION AT TIME OF PUMPING

Comments:
(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.) SOLIDS ACCUMULATION WAS HEAVY BUT THERE WAS NO SIGNIFICANT CARRY-OVER TO D-BOX. RECOMMEND ANNUAL PUMPING FOR 8 OCCUPANTS. TANK AND BAFFLES ARE IN GOOD CONDITION

GREASE TRAP: N/A
(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 or baffle: ___
Distance from bottom of scum to bottom of outlet tee or baffle: ___
Date of last pumping: ___

Comments:
(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

FLOW CONDITIONS

RESIDENTIAL:

Design flow: 110 g.p.d./bedroom.
Number of bedrooms (design): 4 Number of bedrooms (actual): 4
Total DESIGN flow 440
Number of current residents: 8
Garbage grinder (yes or no): No
Laundry (separate system) (yes or no): No; If yes, separate inspection required LAUNDRY DISCHARGE IS TO SEPTIC TANK. AS RECOMMENDED.
Laundry system inspected (yes or no)
Seasonal use (yes or no): No
Water meter readings, if available (last two year's usage (gpd)): 2-17-99 TO 5-26-99 = 360 GPD AVG.
Sump Pump (yes or no): No
Last date of occupancy: CURRENTLY OCCUPIED

COMMERCIAL/INDUSTRIAL:

Type of establishment: _____
Design flow: _____ gpd (Based on 15.203)
Basis of design flow _____
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) _____
Water meter readings, if available: _____
Last date of occupancy: _____

OTHER: (Describe) _____
Last date of occupancy: _____

GENERAL INFORMATION

PUMPING RECORDS and source of information:

PUMPED LAST 1997 BY KARLS. PER OWNER
System pumped as part of inspection: (yes or no) YES
If yes, volume pumped: 1000 gallons
Reason for pumping: SOLIDS REMOVAL & CHECK TANK

TYPE OF SYSTEM

- Septic tank/distribution box/soil absorption system
- Single cesspool
- Overflow cesspool
- Privy
- Shared system (yes or no) (if yes, attach previous inspection records, if any)
- I/A Technology etc. Attach copy of up to date operation and maintenance contract
- Tight Tank _____ Copy of DEP Approval

Other _____

APPROXIMATE AGE of all components, date installed (if known) and source of information: 9 YEARS PER 1990 DESIGN PLAN.

Sewage odors detected when arriving at the site: (yes or no) No

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)



Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

SOIL ABSORPTION SYSTEM (SAS):

(locate on site plan, if possible; excavation not required, location may be approximated by non-intrusive methods)

If not located, explain:

Type:

- leaching pits, number: _____
- leaching chambers, number: _____
- leaching galleries, number: _____
- leaching trenches, number, length: 2 EACH 36" WIDE, 6" DEEP, 50 FEET LONG
- leaching fields, number, dimensions: _____
- overflow cesspool, number: _____
- Alternative system: _____
- Name of Technology: _____

Comments:

(note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.)

GROUND SURFACE CONDITIONS ARE GOOD.

CESSPOOLS: N/A
(locate on site plan)

- Number and 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 (cesspool must be pumped as part of inspection) _____

Comments:

(note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)

PRIVY: N/A
(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.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

TIGHT OR HOLDING TANK: N/A (Tank must be pumped prior to, or at time of, inspection)
(locate on site plan)

Depth below grade: _____
Material of construction: concrete metal Fiberglass Polyethylene other(explain)

Dimensions: _____
Capacity: _____ gallons
Design flow: _____ gallons/day
Alarm present _____
Alarm level: _____ Alarm in working order: Yes No
Date of previous pumping: _____
Comments:
(condition of inlet tee, condition of alarm and float switches, etc.)

DISTRIBUTION BOX:
(locate on site plan)

Depth of liquid level above outlet invert: 0"

Comments:
(note if level and distribution is equal, evidence of solids carryover, evidence of leakage into or out of box, etc.) INITIAL INSPECTION SHOWED LIQUID LEVELS 1/2" AND 1" ABOVE INVERTS. D-BOX WAS NOT LEVEL. THERE WAS NO EVIDENCE OF ANY PRIOR HIGHER LIQUID LEVELS AND NO OTHER INDICATION THAT THIS WAS DUE TO A "CLOGGED OR OVERLOADED SAS." AFTER TEL. DISCUSSION WITH HEALTH AGENT, THE PUMPER WAS AUTHORIZED TO INSTALL A NEW D-BOX LEVEL AND CORRECT ELEVATION. THE 7-14-99 FOLLOW-UP INSPECTION SHOWED THE SEPTIC TANK RE-FILLED, FLOW IS TO D-BOX, DISTRIBUTION OUT OF D-BOX IS EVEN. LIQUID LEVEL IN PUMP CHAMBER: N/A NOT ABOVE THE OUTLET INVERTS. D-BOX NOW LOOKS GOOD.

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.) _____

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 South East St. Amherst
Owner: Ruth Barrett
Date of Inspection: 7-7 & 7-14-99

NRCS Report name _____
Soil Type _____
Typical depth to groundwater _____

USGS Date website visited _____
Observation Wells checked _____
Groundwater depth: Shallow _____ Moderate _____ Deep _____

SITE EXAM Slope
 Surface water
 Check Cellar
 Shallow wells

Estimated Depth to Groundwater 7 Feet

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

- Obtained from Design Plans on record
- Observed Site (Abutting property, observation hole, basement sump etc.)
- Determined from local conditions
- Checked with local Board of health
- Checked FEMA Maps
- Checked pumping records
- Checked local excavators, installers
- Used USGS Data

Describe how you established the High Groundwater Elevation. (**Must** be completed)

REVIEWED 1990 SOIL TEST REPORT ON FILE.

GROUND SURFACE, CELLAR AND LEACH TRENCH OBSERVATIONS ARE CONSISTENT WITH 7 FEET TO GROUNDWATER.

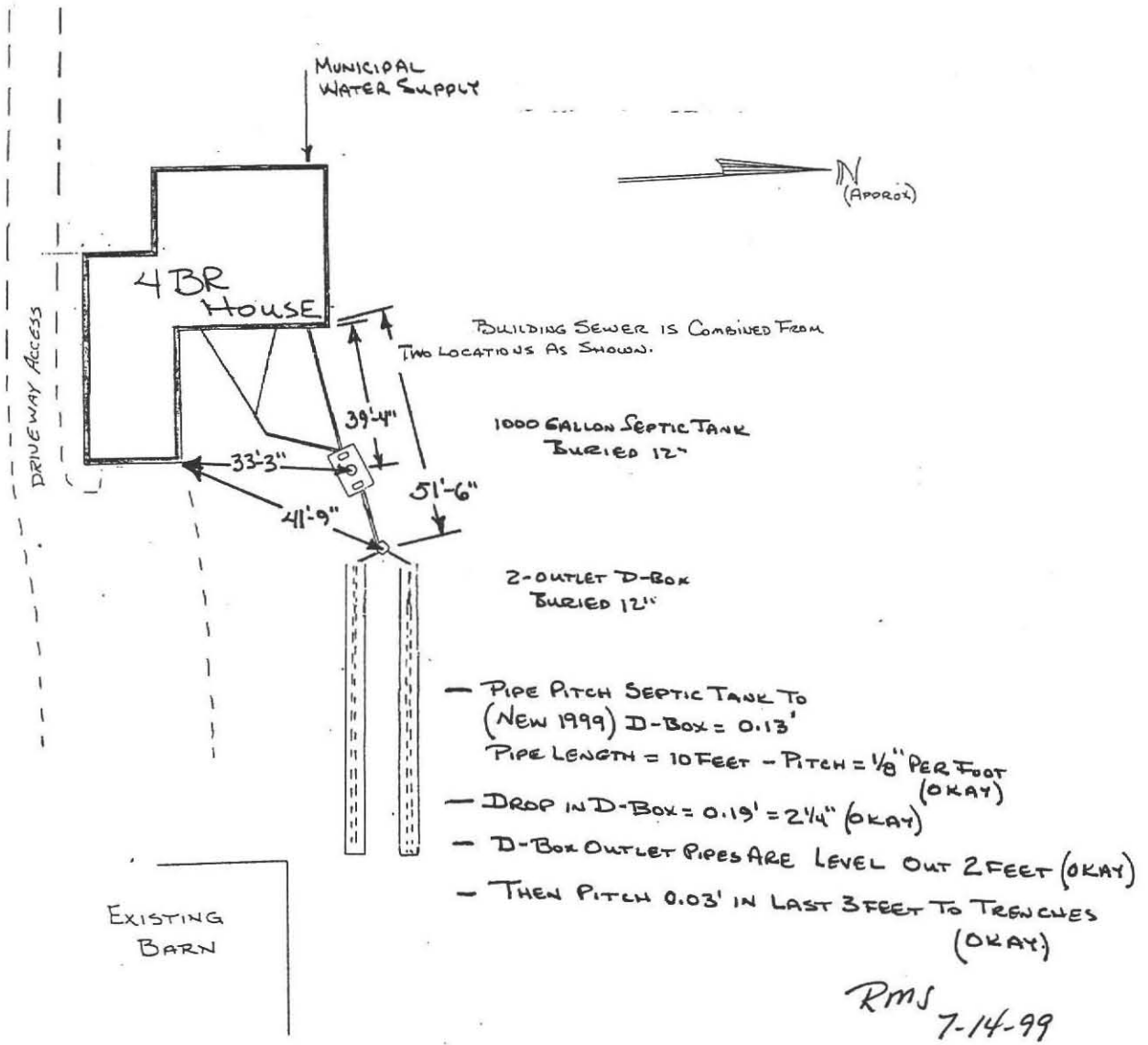
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
 Owner: RUTH BARRETT
 Date of Inspection: 7-7 & 7-14-99

SKETCH OF SEWAGE DISPOSAL SYSTEM:

include ties to at least two permanent reference landmarks or benchmarks
 locate all wells within 100' (Locate where public water supply comes into house)

SOUTH EAST STREET



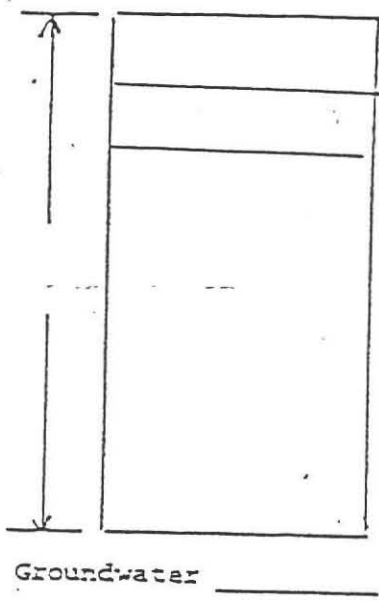
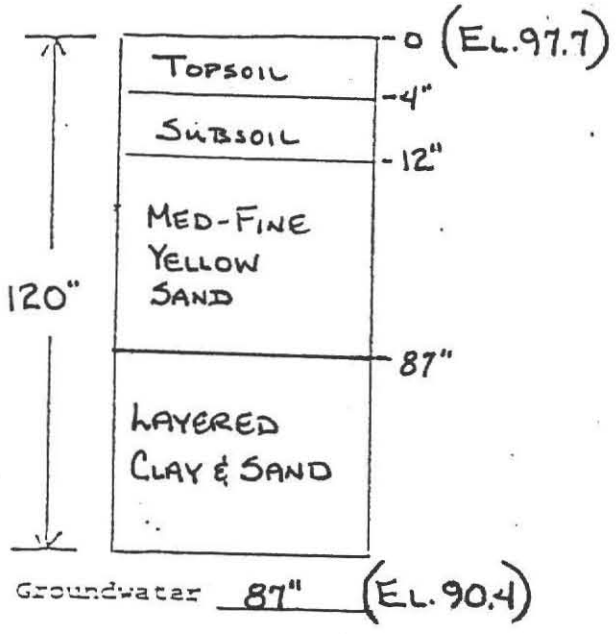
OBSERVATION PITS

REQUESTED BY: FRANCIS LYMAN

LOCATION: 1670 SOUTH EAST ST.
AMHERST, MA.

MAILING ADDRESS:

DATE: 5-16-90 OBSERVER: R. SCOTT, P.E. WITNESS: D. ZAROZINSKI, BOPH.



PERC BOTTOM DEPTH = 45"

START SOAK @ 12:03

24 GAL TO START @ 12:12:30

12" @ 12:12:30

9" @ 12:14:15

6" @ 12:16:00

PERC RATE = 1:45 / 3 INCHES = 0.6 MIN / INCH

DESIGN RATE = 2 MIN / INCH

No.

FEE

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Richard Scott
7-6-90
REGISTERED

Application for Disposal Works Construction Permit

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

1670 SOUTH EAST ST.
Location - Address
FRANCIS LYMAN
Owner
KARL'S EXCAVATING
Installer
75 MECHANIC ST. AMHERST, MA-01002
Address
RIVER DRIVE HADLEY, MA 01035
Address

Type of Building
Dwelling (X) No. of Bedrooms 4 Expansion Attic (N) Garbage Grinder (N)
Other - Type of Building No. of persons Showers () - Cafeteria ()
Other fixtures

Design Flow 110 gallons per person per day. Total daily flow 440 gallons.
Septic Tank (X) Liquid capacity 1000 gallons Existing Length 8' Width 5' Diameter - Depth 4'
Disposal Trench (X) No. 2 Width 36" Total Length 100' Total leaching area 406 sq. ft.
Seepage Pit No. Diameter Depth below inlet Total leaching area sq. ft.
Other Distribution box (Yes) Dosing tank (No)

Percolation Test Results Performed by R. SCOTT, P.E. WITNES: D. ZARZYNSKI, O.A.F.H. Date 5-16-90
Test Pit No. 1 2 minutes per inch Depth of Test Pit 120" Depth to ground water 87"
Test Pit No. 2 minutes per inch Depth of Test Pit Depth to ground water

Description of Soil To 4" Topsoil; To 12" Subsoil; To 87" MED-FINE YELLOW SAND; To 120"
DEPTH LAYERED CLAY & SAND

Nature of Repairs or Alterations - Answer when applicable RE-USE EXISTING BUILDING SEWER & SEPTIC TANK; REPLACE PIPE FROM TANK AND LEACH FACILITY

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

Certificate of Compliance

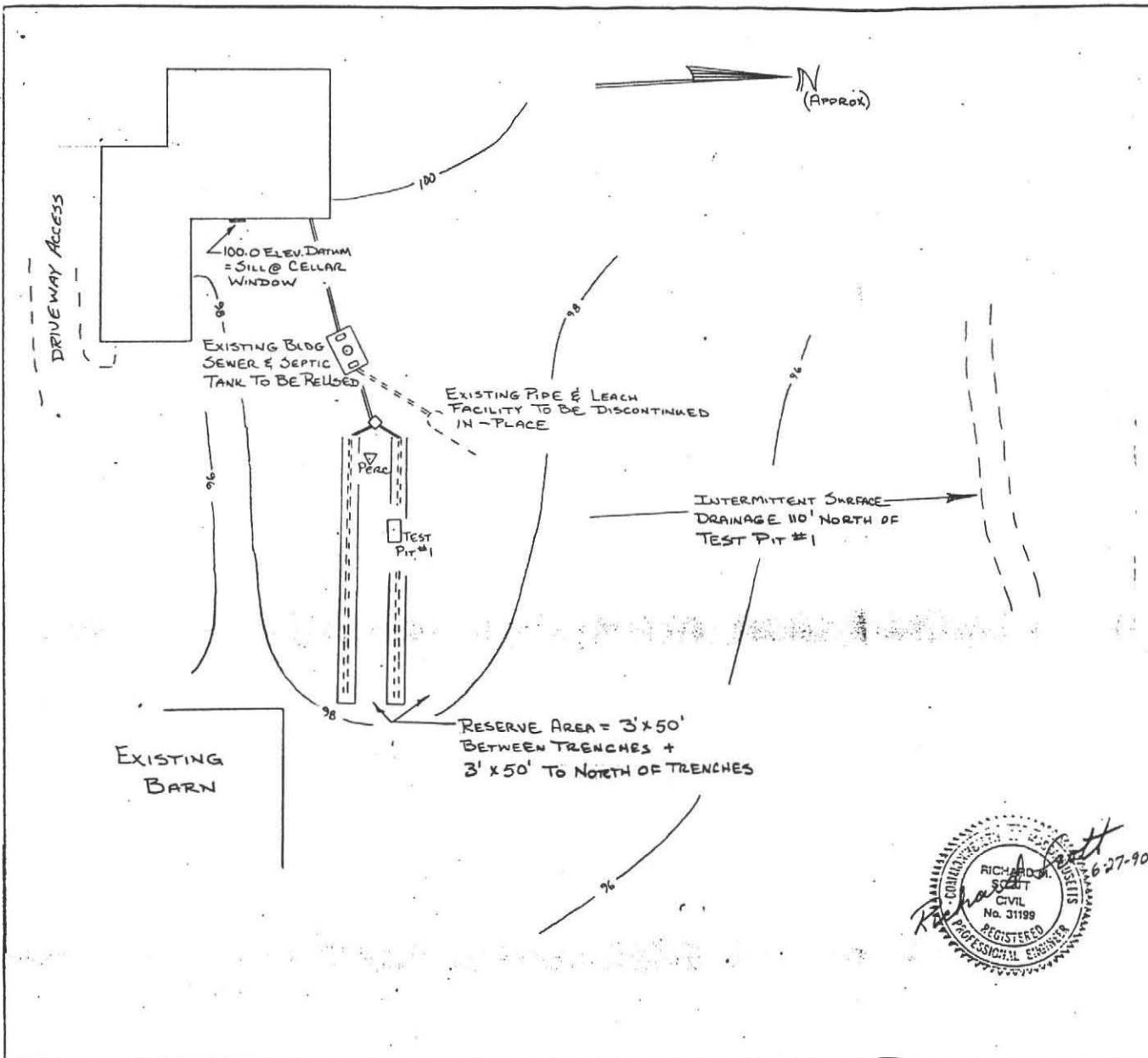
THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired () by _____

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



NOTES

TOWN WATER SUPPLY - NO WELLS IN AREA OF LEACH TRENCHES

FINISH CONTOURS APPROXIMATE EXISTING



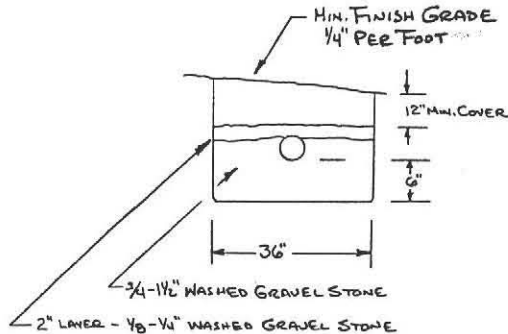
SEPTIC SYSTEM DESIGN		
AT 1670 SOUTH EAST ST. AMHERST, MA.		
SCALE: 1" = 20'	APPROVED BY:	DRAWN BY <i>RMS</i>
DATE: 6-27-90		REVISED 7-6-90
FOR: FRANCIS LYMAN		TRENCHES WERE 40" DEEP
BY: RICHARD SCOTT, P.E.		
		DRAWING NUMBER

SYSTEM DESIGN CALCULATIONS

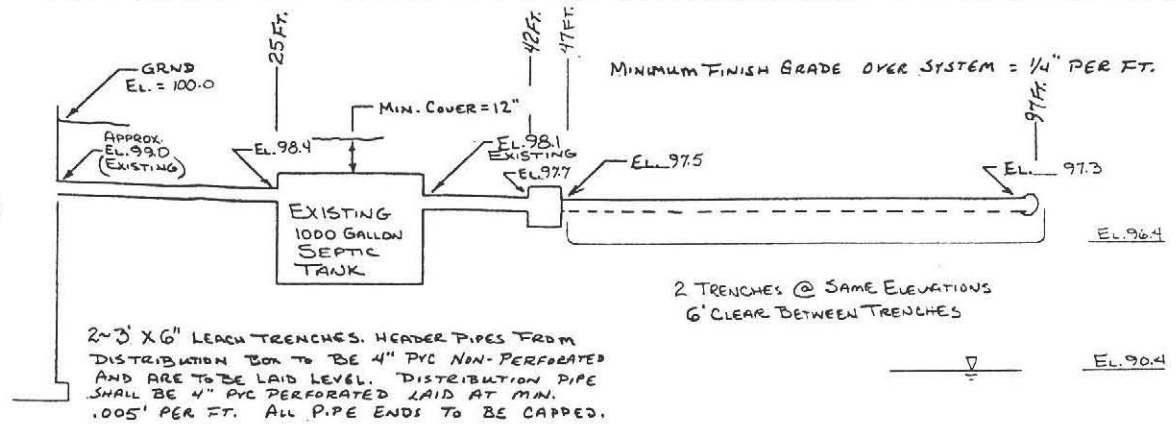
4 BEDROOM X 110 GAL. PER BR PER DAY =
 440 GAL. PER DAY DESIGN FLOW.
 MINIMUM EFFECTIVE SEPTIC TANK VOLUME = 1.5 X 440 = 660 GAL
 SPECIFIED TANK VOLUME FOR THIS INSTALLATION = 1000 GAL. (EXISTING)
 PERCOLATION RATE = 2 MINUTES PER INCH →
 DESIGN LOADING = 2.50 GPD PER SQ. FT. OF EFFECTIVE
 SIDEWALL & 100 GPD PER SQ. FT. OF BOTTOM AREA.

SPECIFIED LEACH TRENCHES ARE 3.0 FT. WIDE X 0.5 FT.
 EFFECTIVE DEPTH. ALLOWABLE LOADING PER FT. OF
 TRENCH = 1.0 X 3.0 X 100 + 2 X 1.0 X 0.5 X 2.5 = 5.50 GPD/FT.
 REQUIRED TRENCH LENGTH = 440 ÷ 5.5 = 80 FEET
 (WITHOUT CONSIDERATION OF TRENCH ENDS)

SPECIFIED TRENCHES = 2 @ 40 FT. LONG
 ALLOWABLE VOLUME = 80 X 5.50 + 4 X 3 X 0.5 X 2.5 = 455 GPD (PER MASS. TITLE 5)
 (WITH CONSIDERATION OF TRENCH ENDS)
 AMHERST SUPPLEMENTAL REGULATION REQUIRES 125 X TITLE 5 = 2 @ 50' LONG
 TITLE 5 CAPACITY = 100' X 5.50 GPD/FT. + 4 ENDS X 3 FT X 0.5 FT X 2.50 GPD/FT. = 565 GPD



TYPICAL TRENCH CONSTRUCTION



SYSTEM PROFILE - SECTION PARALLEL TO FLOW
 (NOT TO SCALE)

Richard Scott
 6-27-90

SEPTIC SYSTEM DESIGN		
AT 1670 SOUTH EAST ST. AMHERST		
SCALE: AS SHOWN	APPROVED BY:	DRAWN BY RMS
DATE: 6-27-90		REVISED 7-6-90
FOR: FRANCIS LYMAN		ADDED 125 FACTOR
BY: RICHARD SCOTT, P.E.		
		DRAWING NUMBER

31 Shutesbury Road
Pelham, MA 01002
(413) 256-0647

July 14, 1999

Dave Zarozinski
Health Department
4 Boltwood Avenue
Amherst, MA 01002-2351

Subject: Title 5 Septic System Inspection at 1670 South East Street
(Property of Ruth & Steven Barrett)

Dear Dave:

On July 7 and July 14, 1999 I completed an inspection of the septic system at the subject property in accordance with 310 CMR 15.000 (Title 5) requirements. Two copies of the report are enclosed for your use.

This system is certified as, "Passed" by the criteria in the regulation. Additional comments are included in the report. As you and I spoke about by telephone, the distribution box was replaced as part of this inspection process. I re-inspected on July 14 to confirm this was done and working properly. My notes about the D-Box are on pages 8 and 10 of the report.

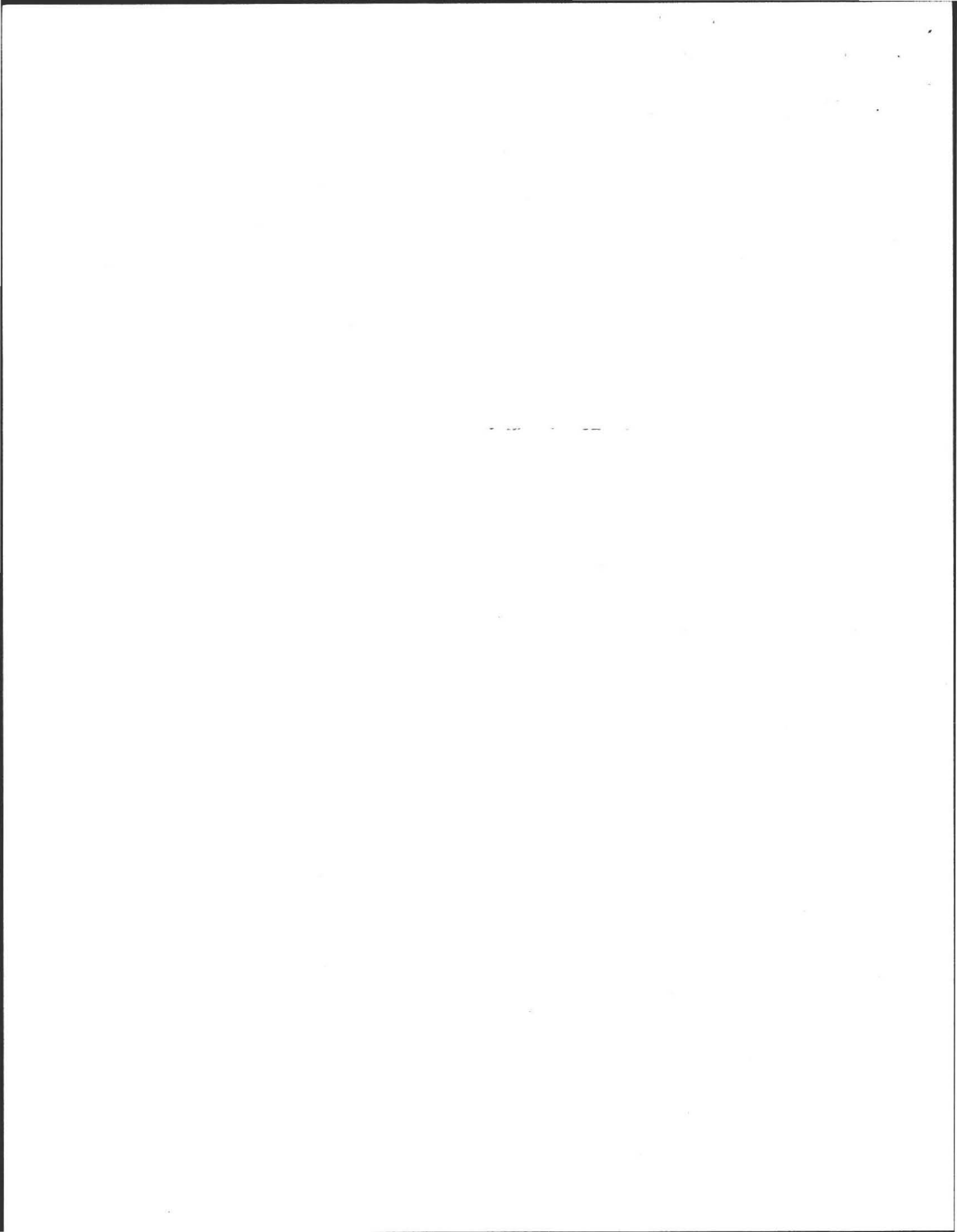
If you have questions on any aspect of the inspection or the report please contact me at the address above or by phone evenings.

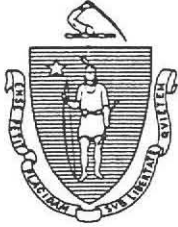
Sincerely,



Richard Scott, P.E.

cc:Ruth & Steven Barrett, Owners
Janice Kynard, Realtor
Buyer c/o Janice Kynard





COMMONWEALTH OF MASSACHUSETTS
 EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 ONE WINTER STREET, BOSTON MA 02108 (617) 292-5500

TRUDY COXE
 Secretary

DAVID B. STRUHS
 Commissioner

ARGEO PAUL CELLUCCI
 Governor

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
 PART A
 CERTIFICATION

Property Address: 1670 SOUTH EAST STREET, AMHERST Name of Owner: RUTH BARRETT
 Address of Owner: 1670 SOUTH EAST STREET
 Date of Inspection: 7-7-99 & 7-14-99
 Name of Inspector: (Please Print) RICHARD SCOTT
 I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000)
 Company Name: RICHARD SCOTT, P.E.
 Mailing Address: 31 SHUTESBURY ROAD PELHAM, MA 01002
 Telephone Number: 413-256-0647

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 inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. The system:

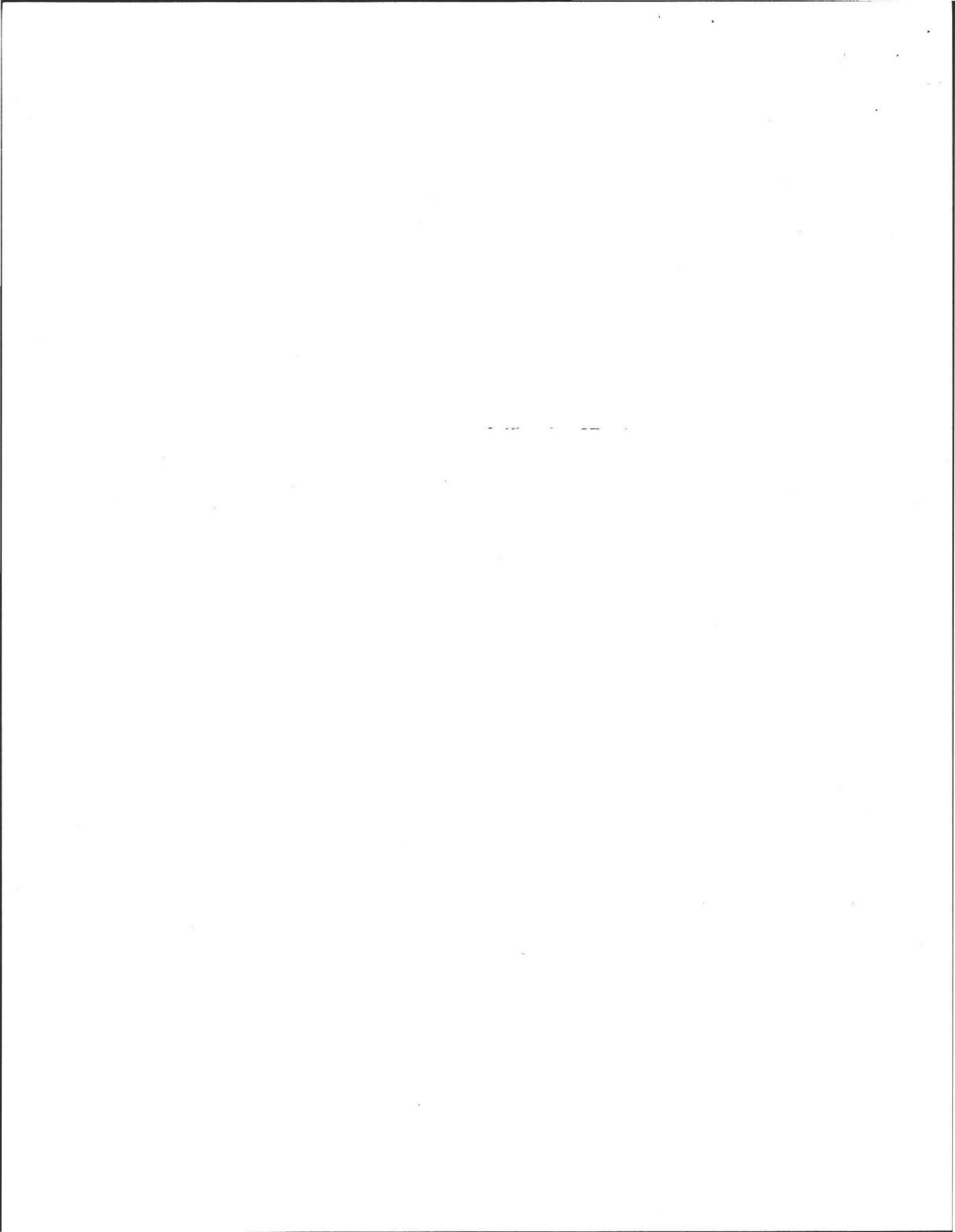
- Passes
- Conditionally Passes
- Needs Further Evaluation By the Local Approving Authority
- Fails

Inspector's Signature: Richard Scott Date: 7-14-99

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 Department of Environmental Protection. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

NOTES AND COMMENTS

SEE ADDITIONAL NOTE AT PAGE 8.
 AS OF 7-14-99 DISTR. BOX HAS BEEN REPLACED.



SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 1670 South East St. Amherst
Owner: Ruth Barrett
Date of Inspection: 7-7 & 7-14-99

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 and 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 AND SAFETY AND THE ENVIRONMENT:**

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

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

- ___ The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.
- ___ The system has a septic tank and soil absorption system and the SAS is within a Zone I of a public water supply well.
- ___ The system has a septic tank and soil absorption system and the SAS is within 50 feet of a private water supply well.
- ___ The system has a septic tank and soil absorption system and the SAS is less than 100 feet but 50 feet or more from a private water supply well, unless a well water analysis 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. Method used to determine distance _____ (approximation not valid).

3) OTHER

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 1670 South East St. Amherst
Owner: Ruth Barrett
Date of Inspection: 7-7 & 7-14-99

INSPECTION SUMMARY: Check A, B, C, or D:

A. SYSTEM PASSES:

I have not found any information which indicates that any of the failure conditions described in 310 CMR 15.303 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.

Indicate yes, no, or not determined (Y, N, or ND). Describe basis of determination in all instances. If "not determined", explain why not.
_____ The septic tank is metal, unless the owner or operator has provided the system inspector with a copy of a Certificate of Compliance (attached) indicating that the tank was installed within twenty (20) years prior to the date of the inspection; or the septic tank, whether or not metal, is cracked, structurally unsound, shows substantial infiltration or exfiltration, or tank failure is imminent. The system will pass inspection if the existing septic tank is replaced with a complying septic tank as approved by the Board of Health.

_____ Sewage backup or breakout or high static water level observed 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 levelled or replaced

_____ The system required pumping more than four 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

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
CHECKLIST



Property Address: 1670 SOUTH EAST ST. MMHERST
 Owner: RUTH BARRETT
 Date of Inspection: 7-7 & 7-14-99

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 provided by the owner, occupant, or Board of Health. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | None of the system components have been pumped for at least two weeks and the system has been receiving normal flow rates during that period. Large volumes of water have not been introduced into the system recently or as part of this inspection. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | As built plans have been obtained and examined. Note if they are not available with N/A. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The facility or dwelling was inspected for signs of sewage back-up. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The system does not receive non-sanitary or industrial waste flow. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site was inspected for signs of breakout. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | All system components, excluding the Soil Absorption System, have been located on the site. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The septic tank manholes were uncovered, opened, and the interior of the septic tank was inspected for condition of baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge, depth of scum.
The size and location of the Soil Absorption System on the site has been determined based on: |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Existing information. For example, Plan at B.O.H. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Determined in the field (if any of the failure criteria related to Part C is at issue, approximation of distance is unacceptable) [15.302(3)(b)] |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The facility owner (and occupants, if different from owner), were provided with information on the proper maintenance of SubSurface Disposal Systems. |

**SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)**

Property Address: 1670 SOUTH EAST ST. AMHERST
 Owner: RUTH BARRETT
 Date of Inspection: 7-7 & 7-14-99

D. SYSTEM FAILS:

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

I have determined that one or more of the following failure conditions exist as described in 310 CMR 15.303. The basis for this determination is identified below. The Board of Health should be contacted to determine what will be necessary to correct the failure.

- | Yes | No | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Backup of sewage into facility or system component due to an overloaded or clogged SAS or cesspool. |
| <input type="checkbox"/> | <input 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 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 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 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 type="checkbox"/> | <input type="checkbox"/> | Any portion of the Soil Absorption System, cesspool or privy is below the high groundwater elevation. |
| <input type="checkbox"/> | <input type="checkbox"/> | Any portion of a cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply. |
| <input type="checkbox"/> | <input type="checkbox"/> | Any portion of a cesspool or privy is within a Zone I of a public well. |
| <input type="checkbox"/> | <input type="checkbox"/> | Any portion of a cesspool or privy is within 50 feet of a private water supply well. |
| <input type="checkbox"/> | <input 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. If the well has been analyzed to be acceptable, attach copy of well water analysis for coliform bacteria, volatile organic compounds, ammonia nitrogen and nitrate nitrogen. |

E. LARGE SYSTEM FAILS:

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:

The system serves a facility with a design flow of 10,000 gpd or greater (Large System) and the system is a significant threat to public health and safety and the environment because one or more of the following conditions exist:

- | 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) |

The owner or operator of any such system shall upgrade the system in accordance with 310 CMR 15.304(2). Please consult the local regional office of the Department for further information.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

BUILDING SEWER:
(Locate on site plan)

Depth below grade:
Material of construction: cast iron 40 PVC other (explain)

Distance from private water supply well or suction line N/A - WATER SUPPLY IS A PRESSURE-LINE
Diameter 4"
Comments: (condition of joints, venting, evidence of leakage, etc.)
GOOD CONDITION.

SEPTIC TANK:
(locate on site plan)

Depth below grade: 12"
Material of construction: concrete metal Fiberglass Polyethylene other(explain)

If tank is metal, list age . Is age confirmed by Certificate of Compliance (Yes/No)

Dimensions: 58" x 102" x 48" DEEP
Sludge depth: 6"
Distance from top of sludge to bottom of outlet tee or baffle: 22"
Scum thickness: 8"
Distance from top of scum to top of outlet tee or baffle: 3"
Distance from bottom of scum to bottom of outlet tee or baffle: 15"
How dimensions were determined: DIRECT OBSERVATION AT TIME OF PUMPING

Comments:
(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.) SOLIDS ACCUMULATION WAS HEAVY BUT THERE WAS NO SIGNIFICANT CARRY-OVER TO D-BOX. RECOMMEND ANNUAL PUMPING FOR 8 OCCUPANTS. TANK AND BAFFLES ARE IN GOOD CONDITION

GREASE TRAP: N/A
(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 or baffle:
Distance from bottom of scum to bottom of outlet tee or baffle:
Date of last pumping:

Comments:
(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

FLOW CONDITIONS

RESIDENTIAL:

Design flow: 110 g.p.d./bedroom.
Number of bedrooms (design): 4 Number of bedrooms (actual): 4
Total DESIGN flow 440
Number of current residents: 8
Garbage grinder (yes or no): No
Laundry (separate system) (yes or no): No; If yes, separate inspection required LAUNDRY DISCHARGE IS TO SEPTIC TANK.
Laundry system inspected (yes or no) AS RECOMMENDED.
Seasonal use (yes or no): No
Water meter readings, if available (last two year's usage (gpd): 2-17-99 TO 5-26-99 = 360 GPD AVG.
Sump Pump (yes or no): No
Last date of occupancy: CURRENTLY OCCUPIED

COMMERCIAL/INDUSTRIAL:

Type of establishment: _____
Design flow: _____ gpd (Based on 15.203)
Basis of design flow _____
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) _____
Water meter readings, if available: _____
Last date of occupancy: _____

OTHER: (Describe) _____
Last date of occupancy: _____

GENERAL INFORMATION

PUMPING RECORDS and source of information:

PUMPED LAST 1997 BY KARLS. PER OWNER
System pumped as part of inspection: (yes or no) YES
If yes, volume pumped: 1000 gallons
Reason for pumping: SOLIDS REMOVAL & CHECK TANK

TYPE OF SYSTEM

Septic tank/distribution box/soil absorption system
 Single cesspool
 Overflow cesspool
 Privy
 Shared system (yes or no) (if yes, attach previous inspection records, if any)
 I/A Technology etc. Attach copy of up to date operation and maintenance contract
 Tight Tank _____ Copy of DEP Approval

Other _____

APPROXIMATE AGE of all components, date installed (if known) and source of information: 9 YEARS PER 1990 DESIGN PLAN.

Sewage odors detected when arriving at the site: (yes or no) No

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

SOIL ABSORPTION SYSTEM (SAS):
(locate on site plan, if possible; excavation not required, location may be approximated by non-intrusive methods)

If not located, explain:

Type:

leaching pits, number: _____
leaching chambers, number: _____
leaching galleries, number: _____
leaching trenches, number, length: 2 EACH 36" WIDE, 6" DEEP, 50 FEET LONG
leaching fields, number, dimensions: _____
overflow cesspool, number: _____
Alternative system: _____
Name of Technology: _____

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

GROUND SURFACE CONDITIONS ARE GOOD.

CESSPOOLS: N/A
(locate on site plan)

Number and 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 (cesspool must be pumped as part of inspection) _____

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

PRIVY: N/A
(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.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
Owner: RUTH BARRETT
Date of Inspection: 7-7 & 7-14-99

TIGHT OR HOLDING TANK: N/A (Tank must be pumped prior to, or at time of, inspection)
(locate on site plan)

Depth below grade: _____
Material of construction: ___concrete ___metal ___Fiberglass ___Polyethylene ___other(explain)

Dimensions: _____
Capacity: _____ gallons
Design flow: _____ gallons/day
Alarm present _____
Alarm level: _____ Alarm in working order: Yes ___ No ___
Date of previous pumping: _____
Comments:
(condition of inlet tee, condition of alarm and float switches, etc.)

DISTRIBUTION BOX:
(locate on site plan)

Depth of liquid level above outlet invert: 0"

Comments:
(note if level and distribution is equal, evidence of solids carryover, evidence of leakage into or out of box, etc.) INITIAL INSPECTION SHOWED LIQUID LEVELS 1/2" AND 1" ABOVE INVERTS. D-BOX WAS NOT LEVEL. THERE WAS NO EVIDENCE OF ANY PRIOR HIGHER LIQUID LEVELS AND NO OTHER INDICATION THAT THIS WAS DUE TO A "CLOGGED OR OVERLOADED SAS." AFTER TEL. DISCUSSION WITH HEALTH AGENT, THE PUMPER WAS AUTHORIZED TO INSTALL A NEW D-BOX LEVEL AND CORRECT ELEVATION. THE 7-14-99 FOLLOW-UP INSPECTION SHOWED THE SEPTIC TANK RE-FILLED, FLOW IS TO D-BOX, DISTRIBUTION OUT OF D-BOX IS EVEN. LIQUID LEVEL IS PUMP CHAMBER: N/A NOT ABOVE THE OUTLET INVERTS. D-BOX NOW LOOKS GOOD.
(locate 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.) _____

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 South East St. Amherst
Owner: Ruth Barrett
Date of Inspection: 7-7 & 7-14-99

NRCS Report name _____
Soil Type _____
Typical depth to groundwater _____

USGS Date website visited _____
Observation Wells checked _____
Groundwater depth: Shallow _____ Moderate _____ Deep _____

SITE EXAM Slope
 Surface water
 Check Cellar
 Shallow wells

Estimated Depth to Groundwater 7 Feet

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

- Obtained from Design Plans on record
 Observed Site (Abutting property, observation hole, basement sump etc.)
 Determined from local conditions
 Checked with local Board of health
 Checked FEMA Maps
 Checked pumping records
 Checked local excavators, installers
 Used USGS Data

Describe how you established the High Groundwater Elevation. (Must be completed)

REVIEWED 1990 SOIL TEST REPORT ON FILE.

GROUND SURFACE, CELLAR AND LEACH TRENCH OBSERVATIONS ARE CONSISTENT WITH 7 FEET TO GROUNDWATER.

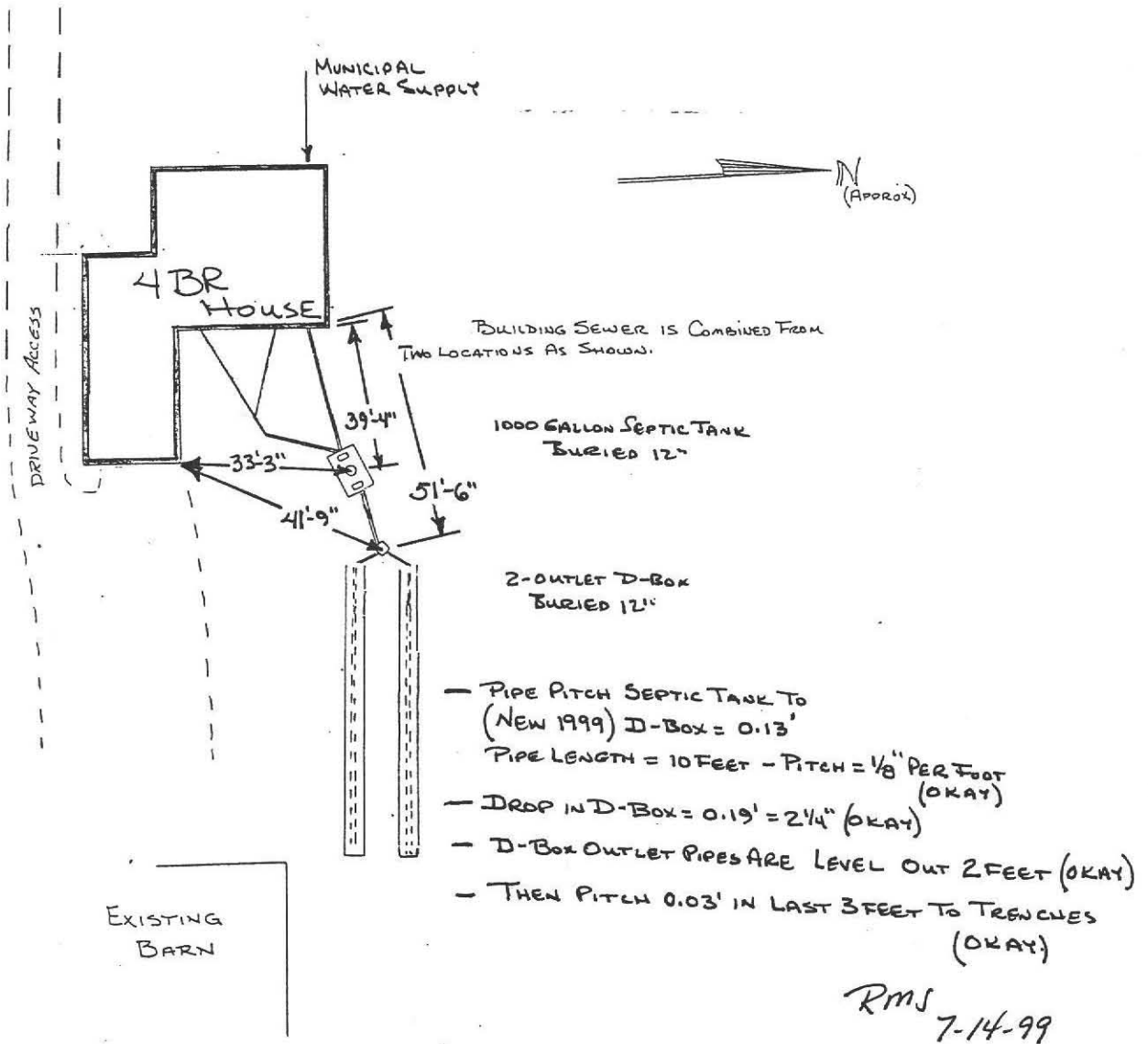
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 1670 SOUTH EAST ST. AMHERST
 Owner: RUTH BARRETT
 Date of Inspection: 7-7 & 7-14-99

SKETCH OF SEWAGE DISPOSAL SYSTEM:

include ties to at least two permanent reference landmarks or benchmarks
 locate all wells within 100' (Locate where public water supply comes into house)

SOUTH EAST STREET



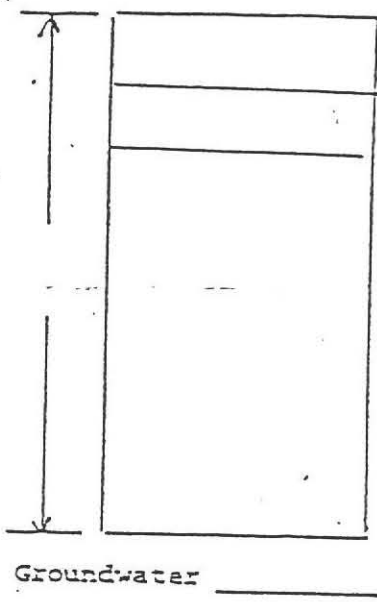
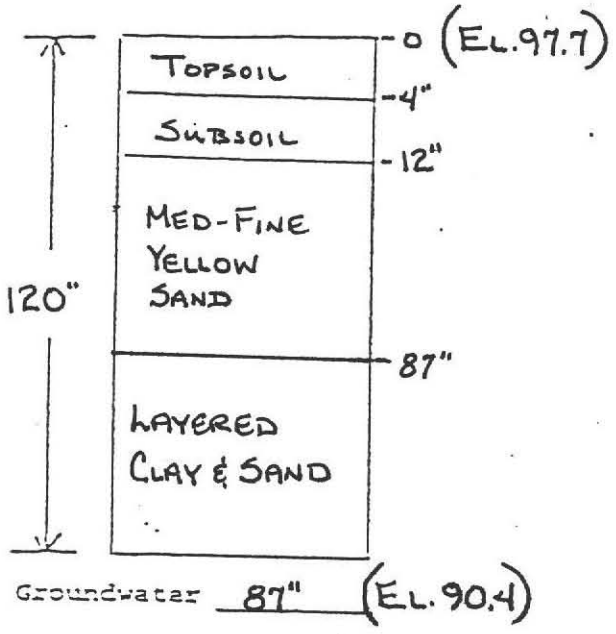
OBSERVATION PITS

REQUESTED BY: FRANCIS LYMAN

LOCATION: 1670 SOUTH EAST ST.
AMHERST, MA.

MAILING ADDRESS:

DATE: 5-16-90 OBSERVER: R. SCOTT, P.E. WITNESS: D. ZAROZINSKI, BOPH.



PERC BOTTOM DEPTH = 45"

- START SOAK @ 12:03
- 24 GAL TO START @ 12:12:30
- 12" @ 12:12:30
- 9" @ 12:14:15
- 6" @ 12:16:00

PERC RATE = $1:45 / 3 \text{ INCHES} = 0.6 \text{ MIN} / \text{INCH}$

DESIGN RATE = $2 \text{ MIN} / \text{INCH}$

No.

FEE

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Richard Scott
7-6-90
REGISTERED

Application for Disposal Works Construction Permit

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

1670 SOUTH EAST ST.
Location - Address
FRANCIS LYMAN
Owner
KARL'S EXCAVATING
Installer

75 MECHANIC ST. AMHERST, MA. 01002
or Lot No.
Address
RIVER DRIVE HADLEY, MA. 01035
Address

Type of Building Dwelling (X) No. of Bedrooms 4 Expansion Attic (N6) Garbage Grinder (N6)
Other - Type of Building No. of persons Showers () - Cafeteria ()
Other fixtures

Design Flow 110 gallons per person per day. Total daily flow 440 gallons.
Septic Tank (X) Liquid capacity 1000 gallons Existing Length 8' Width 5' Diameter - Depth 4'
Disposal Trench (X) No. 2 Width 36" Total Length 100' Total leaching area 406 sq. ft.
Seepage Pit No. Diameter Depth below inlet Total leaching area sq. ft.

Other Distribution box (Yes) Dosing tank (No)
Percolation Test Results Performed by R. Scott, P.E. Witness: D. Zaczinski, Cof. H. Date 5-16-90
Test Pit No. 1 2 minutes per inch Depth of Test Pit 120" Depth to ground water 87"
Test Pit No. 2 minutes per inch Depth of Test Pit Depth to ground water

Description of Soil Tr. 4" TOPSOIL; Tr. 10" SUBSOIL; Tr. 87" MED-FINE YELLOW SAND; Tr. 120" DEPTH LAYERED CLAY & SAND

Nature of Repairs or Alterations - Answer when applicable RE-USE EXISTING BUILDING SEWER & SEPTIC TANK; REPLACE PIPE FROM TANK AND LEACH FACILITY

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

Application Approved By

Application Disapproved for the following reasons:

Permit No. Issued Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Certificate of Compliance

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

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.

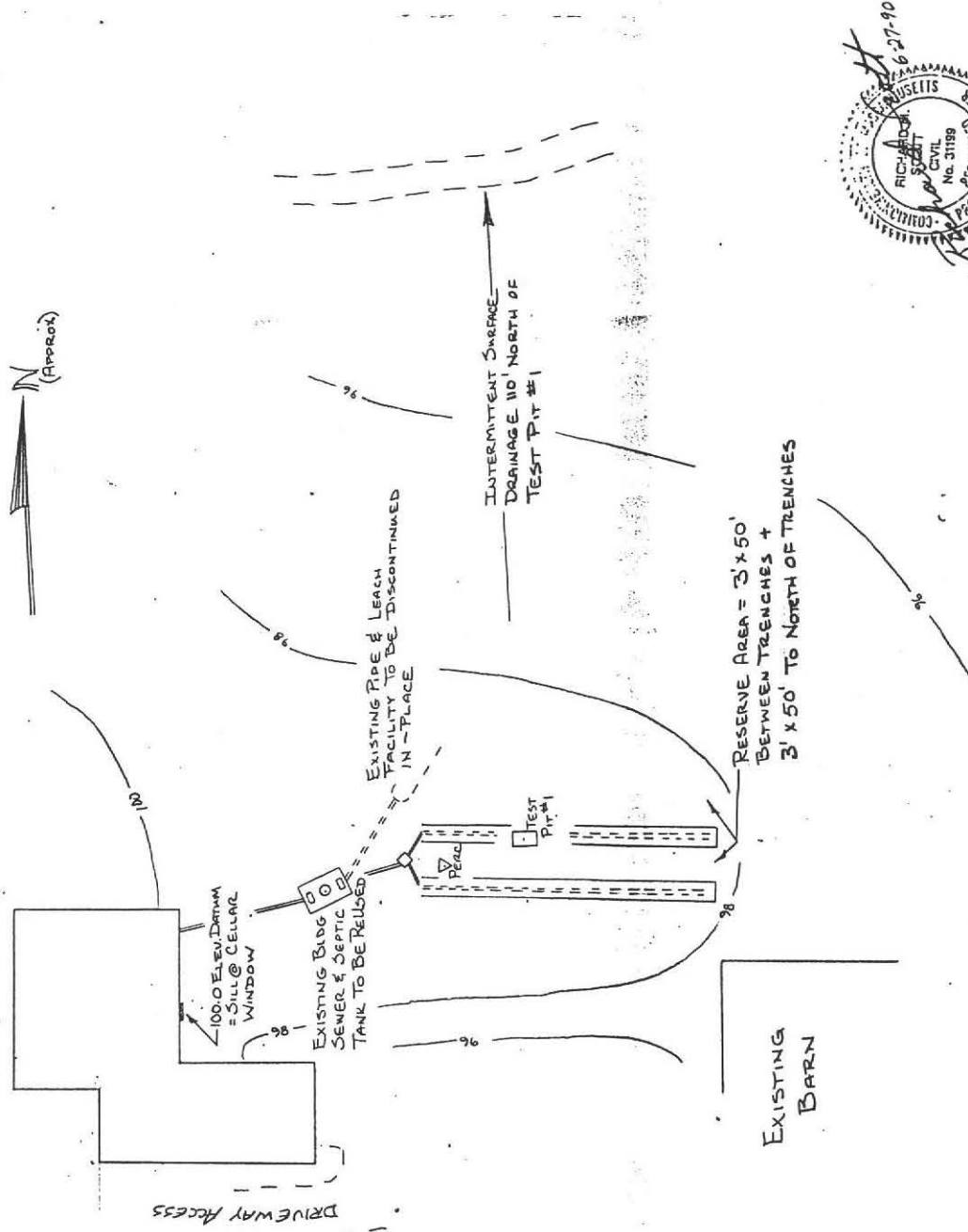
DATE Inspector

CHECK OR FILL IN WHERE APPLICABLE

NOTES

TOWN WATER SUPPLY - NO WELLS IN
AREA OF LEACH TRENCHES

FINISH CONTOURS APPROXIMATE EXISTING



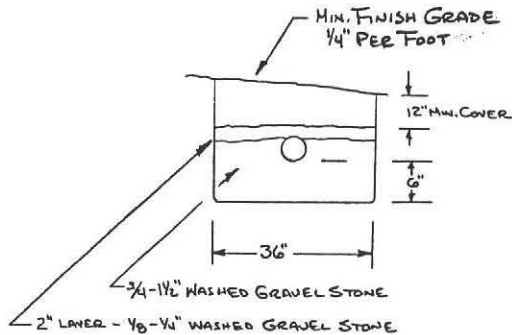
SEPTIC SYSTEM DESIGN AT 1670 SOUTH EAST ST. AMHERST, MA.	
SCALE: 1" = 20'	APPROVED BY:
DATE: 6-27-90	DRAWN BY: <i>RMS</i>
REVISED 7-6-90	
TRENCHES WERE 40' LONG	
FOR: FRANCIS LYMAN	
BY: RICHARD SCOTT, P.E.	
DRAWING NUMBER	

SYSTEM DESIGN CALCULATIONS

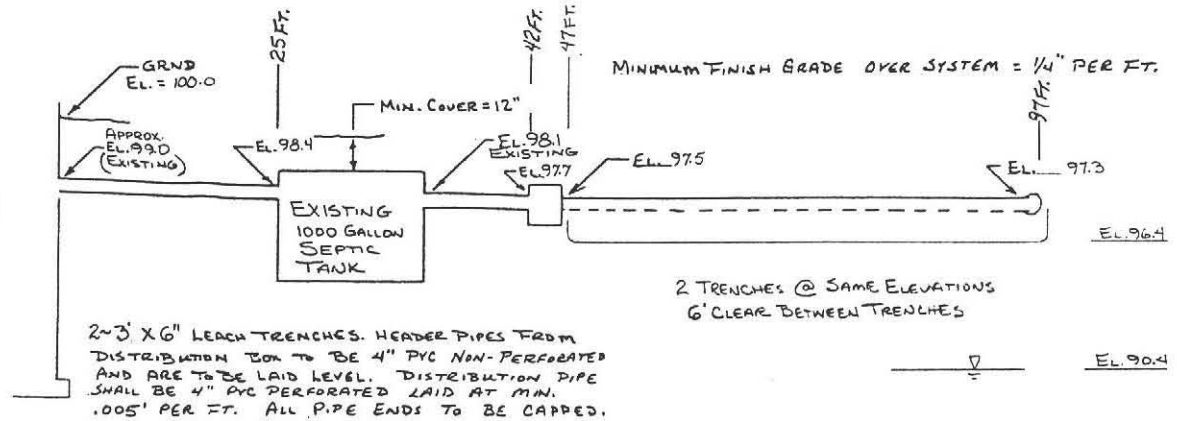
4 BEDROOM X 110 GAL. PER BR PER DAY =
 . 440 GAL. PER DAY DESIGN FLOW.
 MINIMUM EFFECTIVE SEPTIC TANK VOLUME = $1.5 \times 440 = 660$ GAL
 SPECIFIED TANK VOLUME FOR THIS INSTALLATION = 1000 GAL. (EXISTING)
 PERCOLATION RATE = 2 MINUTES PER INCH →
 DESIGN LOADING = 2.50 GPD PER SQ. FT. OF EFFECTIVE
 SIDEWALL & 100 GPD PER SQ. FT. OF BOTTOM AREA.

SPECIFIED LEACH TRENCHES ARE 3.0 FT. WIDE X 0.5 FT.
 EFFECTIVE DEPTH. ALLOWABLE LOADING PER FT. OF
 TRENCH = $10 \times 3.0 \times 100 + 2 \times 10 \times 0.5 \times 2.5 = 5.50$ GPD/FT.
 REQUIRED TRENCH LENGTH = $440 \div 5.5 = 80$ FEET
 (WITHOUT CONSIDERATION OF TRENCH ENDS)

- SPECIFIED TRENCHES = 2 @ 40 FT. LONG
- ALLOWABLE VOLUME = $80 \times 5.50 + 4 \times 3 \times 0.5 \times 2.5 = 455$ GPD (PER MASS. TITLE 5)
 (WITH CONSIDERATION OF TRENCH ENDS)
- AMHERST SUPPLEMENTAL REGULATION REQUIRES 1.25 X TITLE 5 = 2 @ 50' LONG
 TITLE 5 CAPACITY = $100' \times 5.50$ GPD/FT. + 4 ENDS $\times 3$ FT $\times 0.5$ FT $\times 2.50$ GPD/FT² = 565 GPD



TYPICAL TRENCH CONSTRUCTION



SYSTEM PROFILE - SECTION PARALLEL TO FLOW
 (NOT TO SCALE)

Richard Scott
 6-27-90

SEPTIC SYSTEM DESIGN		
AT 1670 SOUTH EAST ST. AMHERST		
SCALE: AS SHOWN	APPROVED BY:	DRAWN BY RMS
DATE: 6-27-90		REVISED 7-6-90
FOR: FRANCIS LYMAN		ADDED 1.25 FACTOR
BY: RICHARD SCOTT, P.E.		
		DRAWING NUMBER