



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

600
RECEIVED DEC 12 2007
COPY

600 Station Road, Amherst

Property Address

Jesse Schwalbaum

Owner's Name

Amherst

City/Town

MA

State

01002

Zip Code

12.06.2007

Date of Inspection

Owner information is required for every page.

Inspection results must be submitted on this form. Inspection forms may not be altered in any way.

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. General Information

1. Inspector:

Alan E. Weiss

Name of Inspector

Cold Spring Environmental Consultants Inc.

Company Name

350 Old Enfield Road

Company Address

Belchertown

City/Town

MA

State

01007

Zip Code

413.323.5957

Telephone Number

License Number

B. Certification

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

Fails

Needs Further Evaluation by the Local Approving Authority

Inspector's Signature

12.06.2007

Date

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 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.

****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.

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B. Certification (cont.)

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 criteria described in 310 CMR 15.303 or in 310 CMR 15.304 exist. Any failure criteria not evaluated are indicated below.

Comments:

All system levels were good. Leaching tank had no standing liquid, (24"+ eff. ht.). Septic Tank was pumped, baffles in place with good levels. (reportedly installed 12+ yrs ago). Tank was pumped by Karls.

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.

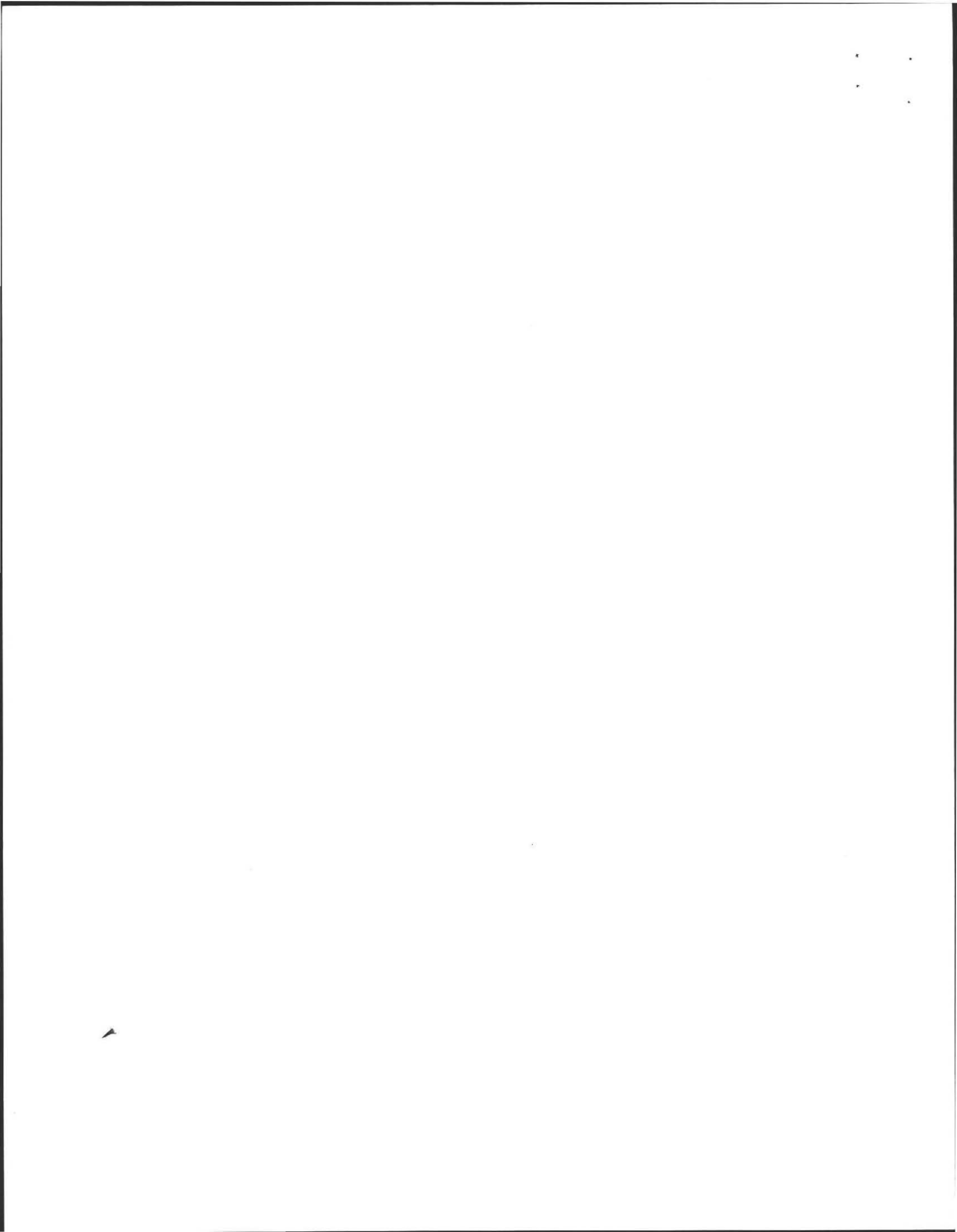
Answer yes, no or not determined (Y, N, ND) in the for the following statements. If "not determined," please explain.

- 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 break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health):





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broken pipe(s) are replaced

obstruction is removed

B. Certification (cont.)

B) System Conditionally Passes (cont.):

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:

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 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 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 the 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 environment:



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- 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 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.

B. Certification (cont.)

C) Further Evaluation is Required by the Board of Health (cont.):

- 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: _____

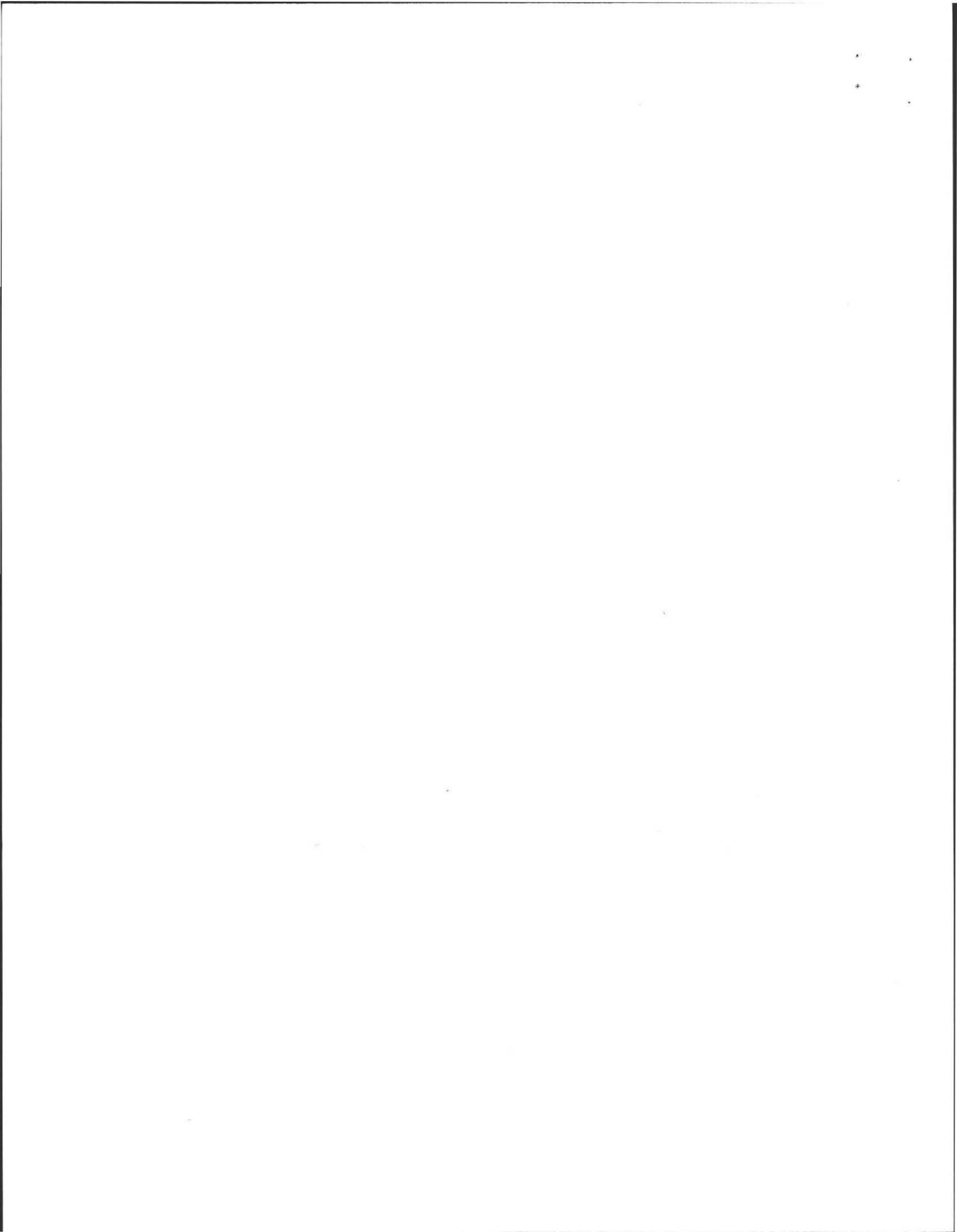
** This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must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

3. Other:

D) System Failure Criteria Applicable to All Systems:

You must indicate "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 |





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- Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow
- Required pumping more than 4 times in the last year **NOT** due to clogged or obstructed pipe(s). Number of times pumped: _____.
- Any portion of the SAS, cesspool or privy is below high ground water elevation.
- Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.

B. Certification (cont.)

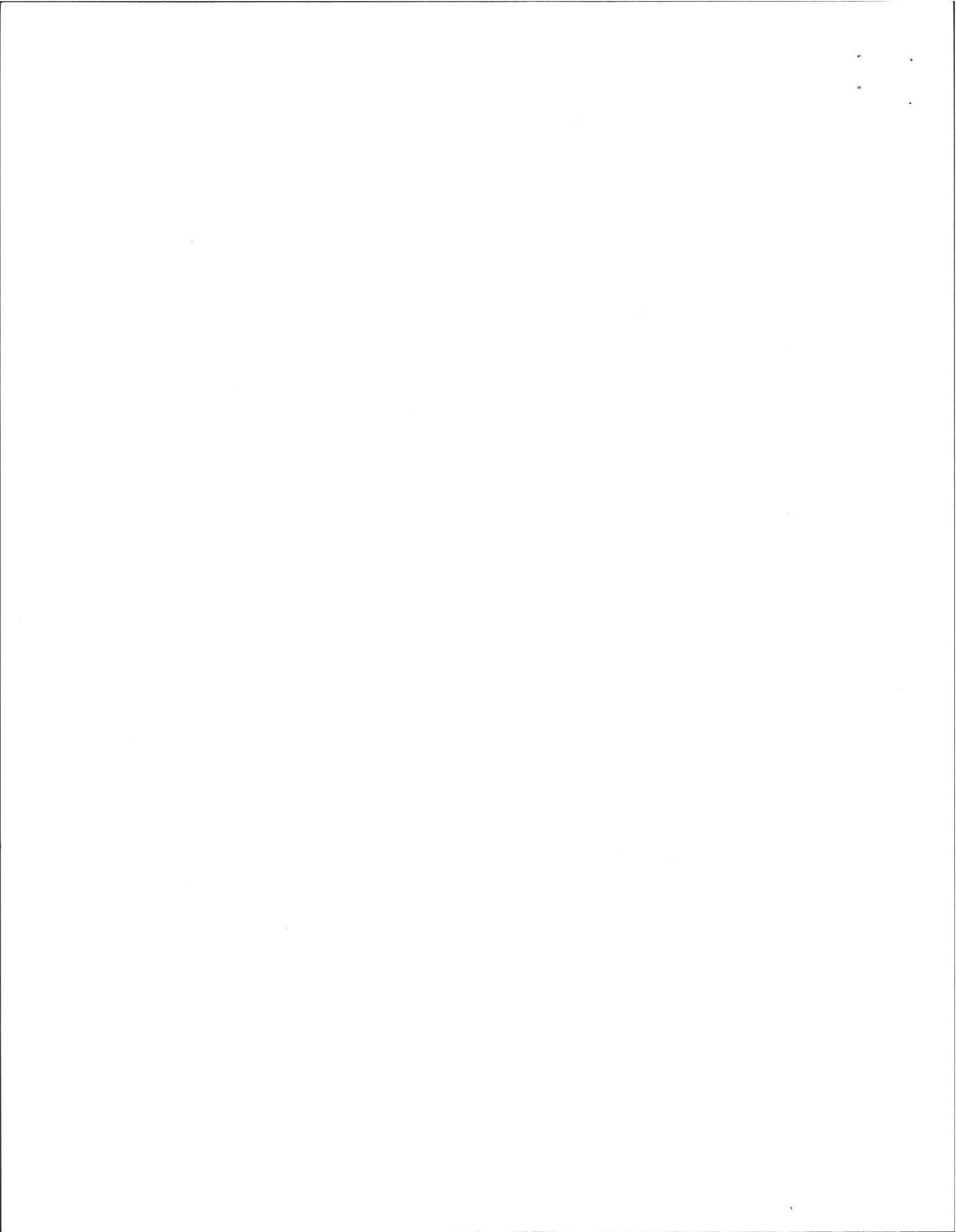
D) System Failure Criteria Applicable to All Systems (cont.):

- | Yes | No | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within a Zone 1 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 fecal coliform bacteria indicates absent 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 and chain of custody must be attached to this form.] |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | The system is a cesspool serving a facility with a design flow of 2000gpd-10,000gpd. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | The system fails. I have determined that one or more of the above failure criteria exist as described 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. |

E) 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.

For large systems, you must indicate either "yes" or "no" to each of the following, in addition to the questions in Section D.

- | 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 |





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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 significant threat, or answered "yes" in Section D above the large system has failed. The owner or operator of 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.

C. Checklist

Check if the following have been done. You must indicate "yes" or "no" as to each of the following:

- Yes No Pumping information was provided by the owner, occupant, or Board of Health
Were any of the system components pumped out in the previous two weeks?
Has the system received normal flows in the previous two week period?
Have large volumes of water been introduced to the system recently or as part of this inspection?
Were as built plans of the system obtained and examined? (If they were not available note as N/A)
Was the facility or dwelling inspected for signs of sewage back up?
Was the site inspected for signs of break out?
Were all system components, excluding the SAS, located on site?
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?
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:

Existing information. For example, a plan at the Board of Health.



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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(5)]

D. System Information

Residential Flow Conditions:

Number of bedrooms (design): 3 Number of bedrooms (actual): 3

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 330 (412)

Number of current residents: 2-3

Does residence have a garbage grinder? Yes No

Is laundry on a separate sewage system? [if **yes** separate inspection required] Yes No

Laundry system inspected? Yes No

Seasonal use? Yes No

Water meter readings, if available (last 2 years usage (gpd)): N/A

Sump pump? Yes No

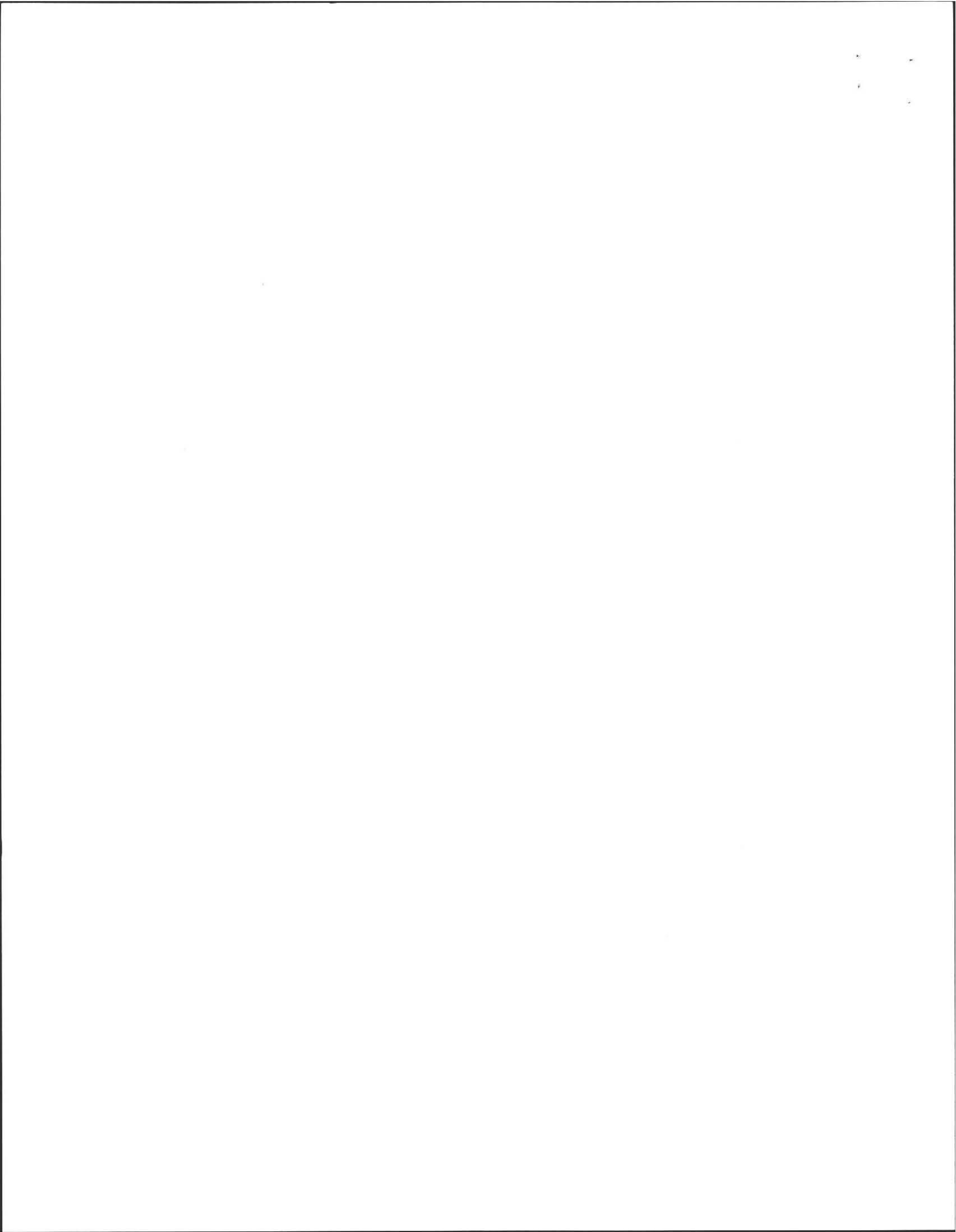
Last date of occupancy: current
Date

Commercial/Industrial Flow Conditions:

Type of Establishment: N/A

Design flow (based on 310 CMR 15.203): N/A
Gallons per day (gpd)

Basis of design flow (seats/persons/sq.ft., etc.): N/A





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Grease trap present? Yes No

Industrial waste holding tank present? Yes No

Non-sanitary waste discharged to the Title 5 system? Yes No

Water meter readings, if available: N/A

Last date of occupancy/use: N/A

Date

Date

Other (describe): N/A

D. System Information (cont.)

General Information

Pumping Records:

Source of information: Owner 12 yrs.

Was system pumped as part of the inspection? Yes No

If yes, volume pumped: 1500 g
gallons

How was quantity pumped determined? pumper

Reason for pumping: T-5

Type of System:

Septic tank, distribution box, soil absorption system

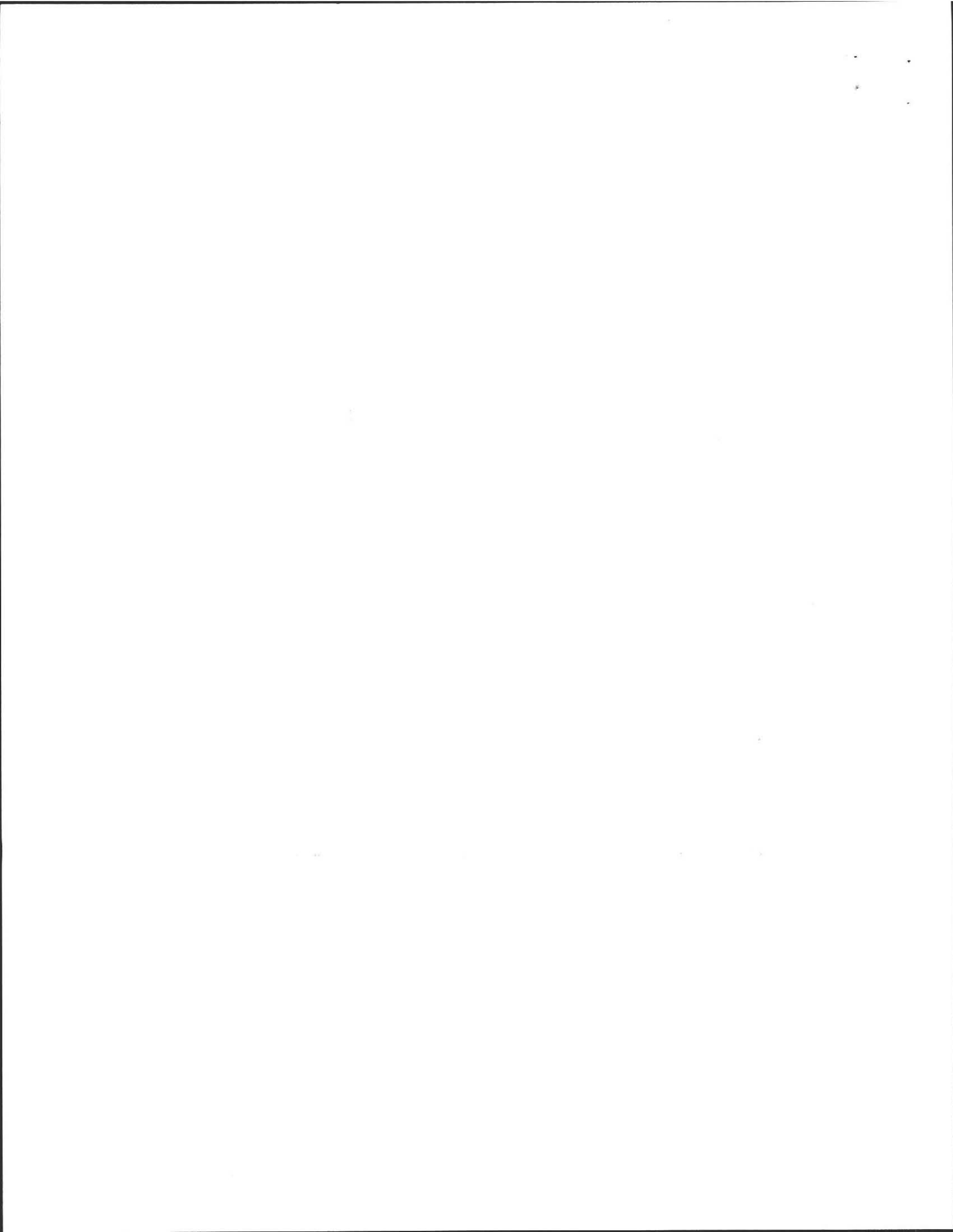
Single cesspool

Overflow cesspool

Privy

Shared system (yes or no) (if yes, attach previous inspection records, if any)

Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner)





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Tight tank. Attach a copy of the DEP approval.

Other (describe):

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

12+ Years

Were sewage odors detected when arriving at the site?

Yes No

D. System Information (cont.)

Building Sewer (locate on site plan):

Depth below grade:

1.0+
feet

Material of construction:

cast iron

40 PVC

other (explain):

Distance from private water supply well or suction line:

10'+ (Town Water)
feet

Comments (on condition of joints, venting, evidence of leakage, etc.):

laundry tied in.

Septic Tank (locate on site plan):

Depth below grade:

12"
feet

Material of construction:

concrete

metal

fiberglass

polyethylene

other (explain)

If tank is metal, list age:

years

Faint, illegible text covering the majority of the page, possibly bleed-through from the reverse side.

Faint text at the bottom of the page, possibly a signature or date.



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Is age confirmed by a Certificate of Compliance? (attach a copy of certificate) [X] Yes [] No

Dimensions: 10.5'X4.5'X4.5'
Sludge depth: 2"
Distance from top of sludge to bottom of outlet tee or baffle: 40"
Scum thickness: 2"
Distance from top of scum to top of outlet tee or baffle: 6"
Distance from bottom of scum to bottom of outlet tee or baffle: 12"
How were dimensions determined? Measured

D. System Information (cont.)

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

Tank level good, good baffles.

Grease Trap (locate on site plan):

Depth below grade: N/A feet

Material of construction:

[] concrete [] metal [] fiberglass [] polyethylene [] other (explain):

Dimensions: N/A

Scum thickness: N/A

Distance from top of scum to top of outlet tee or baffle: N/A



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

N/A

Date of last pumping:

N/A

Date

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

N/A

Tight or Holding Tank (tank must be pumped at time of inspection) (locate on site plan):

Depth below grade:

N/A

Material of construction:

concrete

metal

fiberglass

polyethylene

other (explain):

N/A

D. System Information (cont.)

Tight or Holding Tank (cont.)

Dimensions:

N/A

Capacity:

N/A

gallons

Design Flow:

N/A

gallons per day

Alarm present:

Yes

No

Alarm level:

N/A

Alarm in working order:

Yes

No

Date of last pumping:

N/A

Date

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

N/A

* Attach copy of current pumping contract (required). Is copy attached?

Yes

No



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Distribution Box (if present must be opened) (locate on site plan):

Depth of liquid level above outlet invert

N/A

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.):

Pump Chamber (locate on site plan):

Pumps in working order:

Yes

No

Alarms in working order:

Yes

No

D. System Information (cont.)

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

Soil Absorption System (SAS) (locate on site plan, excavation not required):

If SAS not located, explain why:

Type:

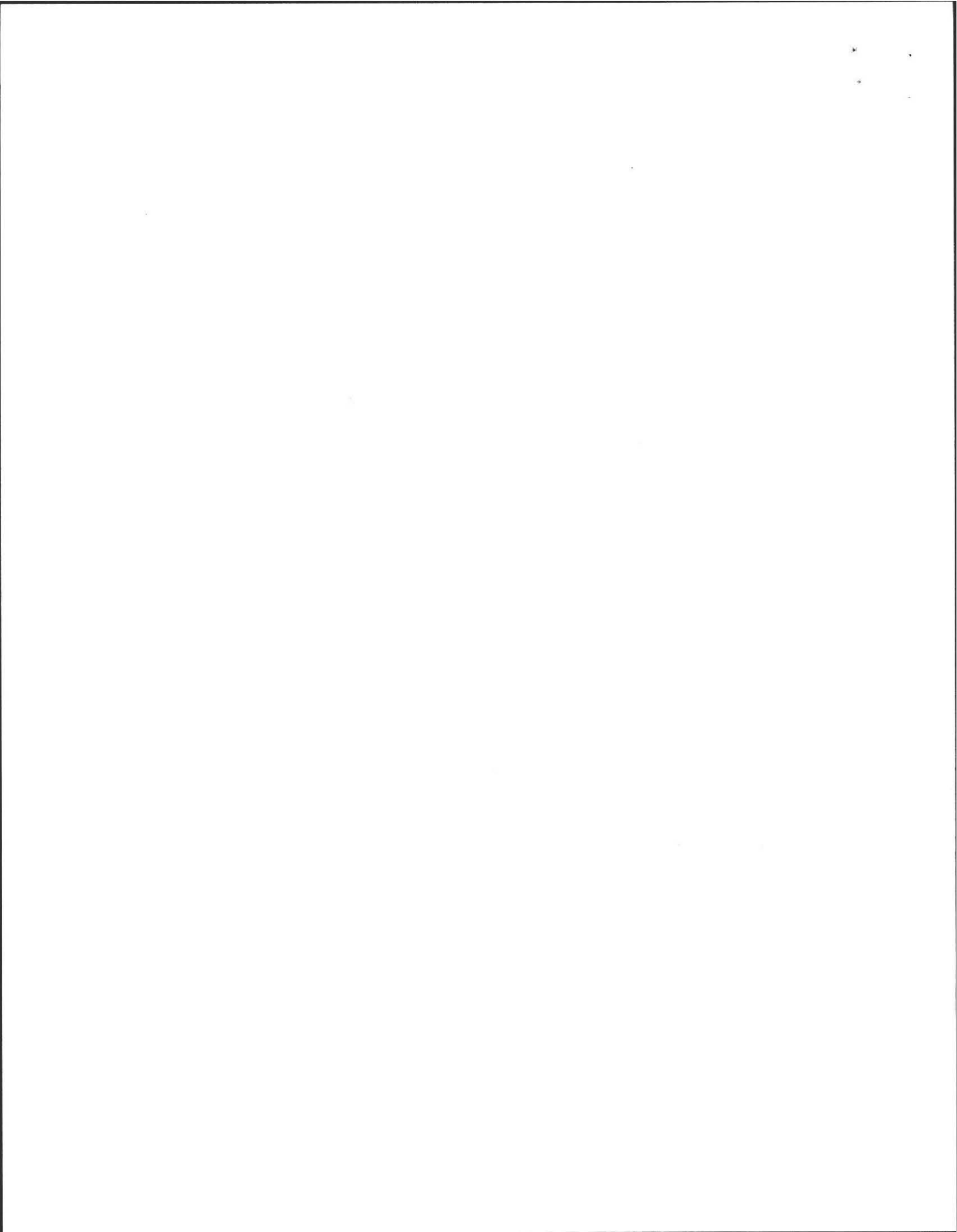
leaching pits

number:

leaching chambers

number:

2 @ 8' l x 4' w x
24"+ eff ht. (500





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- leaching galleries number: _____
- leaching trenches number, length: _____
- leaching fields number, dimensions: _____
- overflow cesspool number: _____
- innovative/alternative system

Type/name of technology: _____

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

No evidence of hydraulic failure, soil at top good no stone staining. (no standing liquid in stone in Chamber), no staining on high portion of leaching chamber.

D. System Information (cont.)

Cesspools (cesspool must be pumped as part of inspection) (locate on site plan):

Number and configuration _____

Depth – top of liquid to inlet invert _____

Depth of solids layer _____

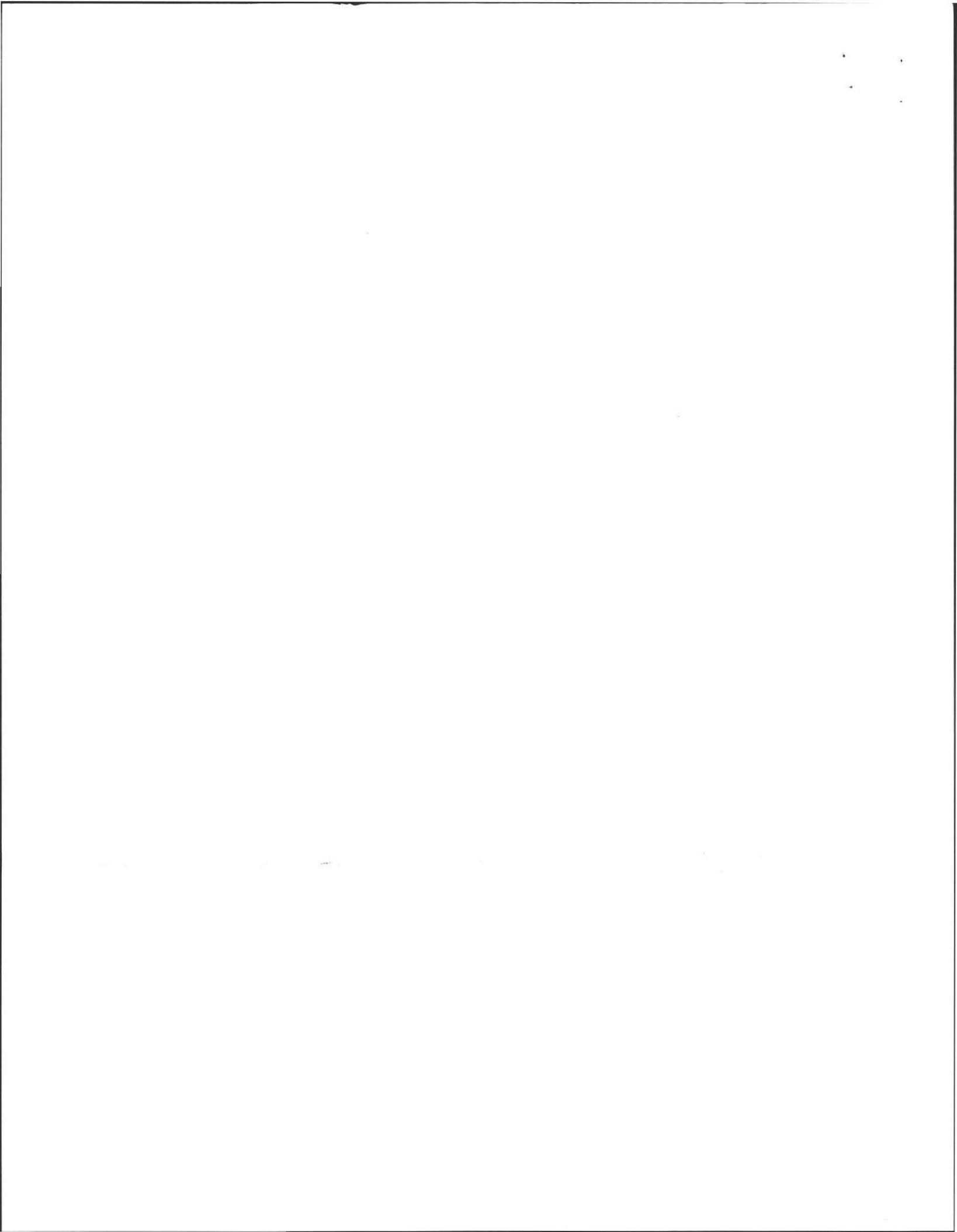
Depth of scum layer _____

Dimensions of cesspool _____

Materials of construction _____

Indication of groundwater inflow Yes No

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





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Privy (locate on site plan):

Materials of construction:

N/A

Dimensions

N/A

Depth of solids

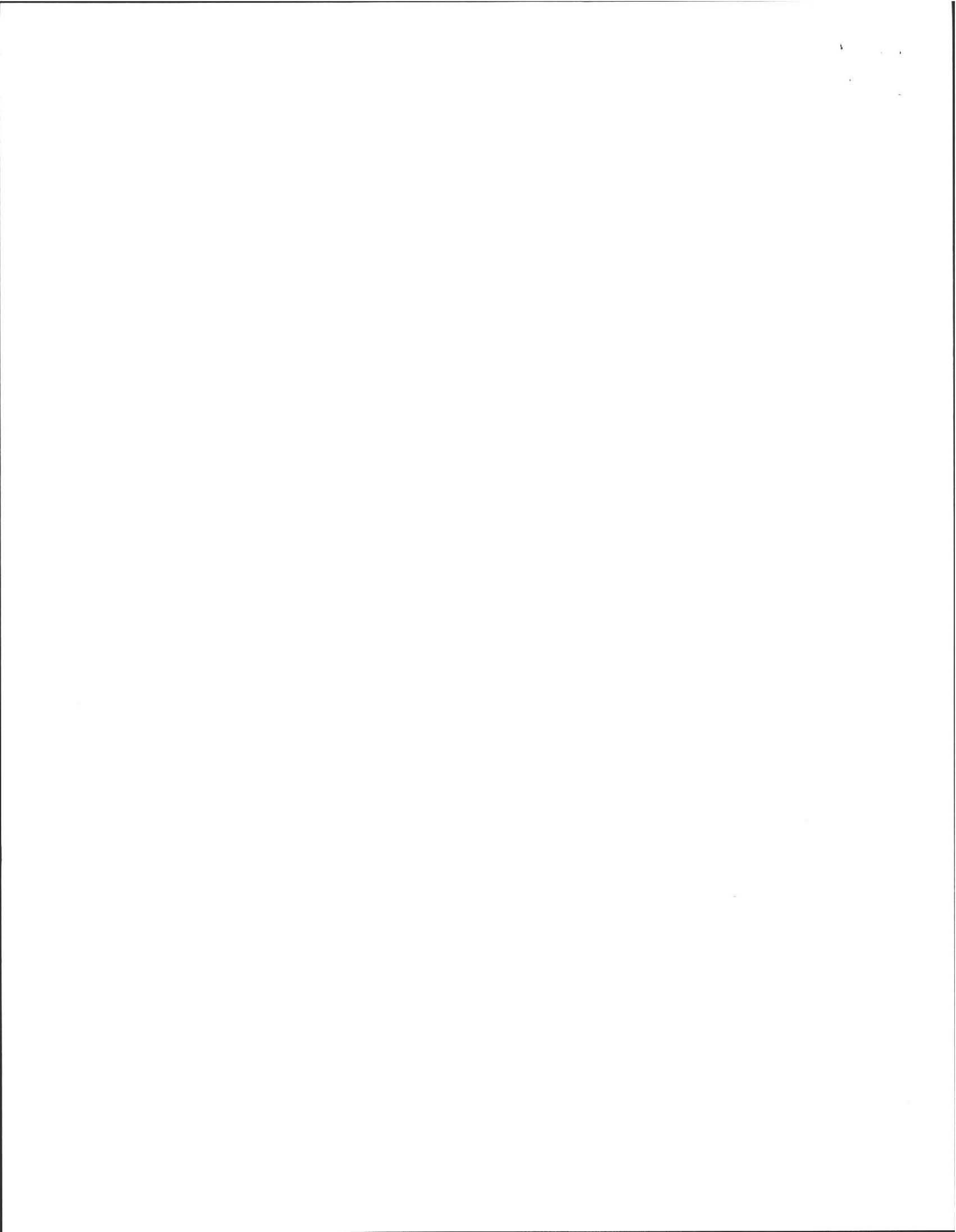
N/A

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

N/A

D. System Information (cont.)

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.





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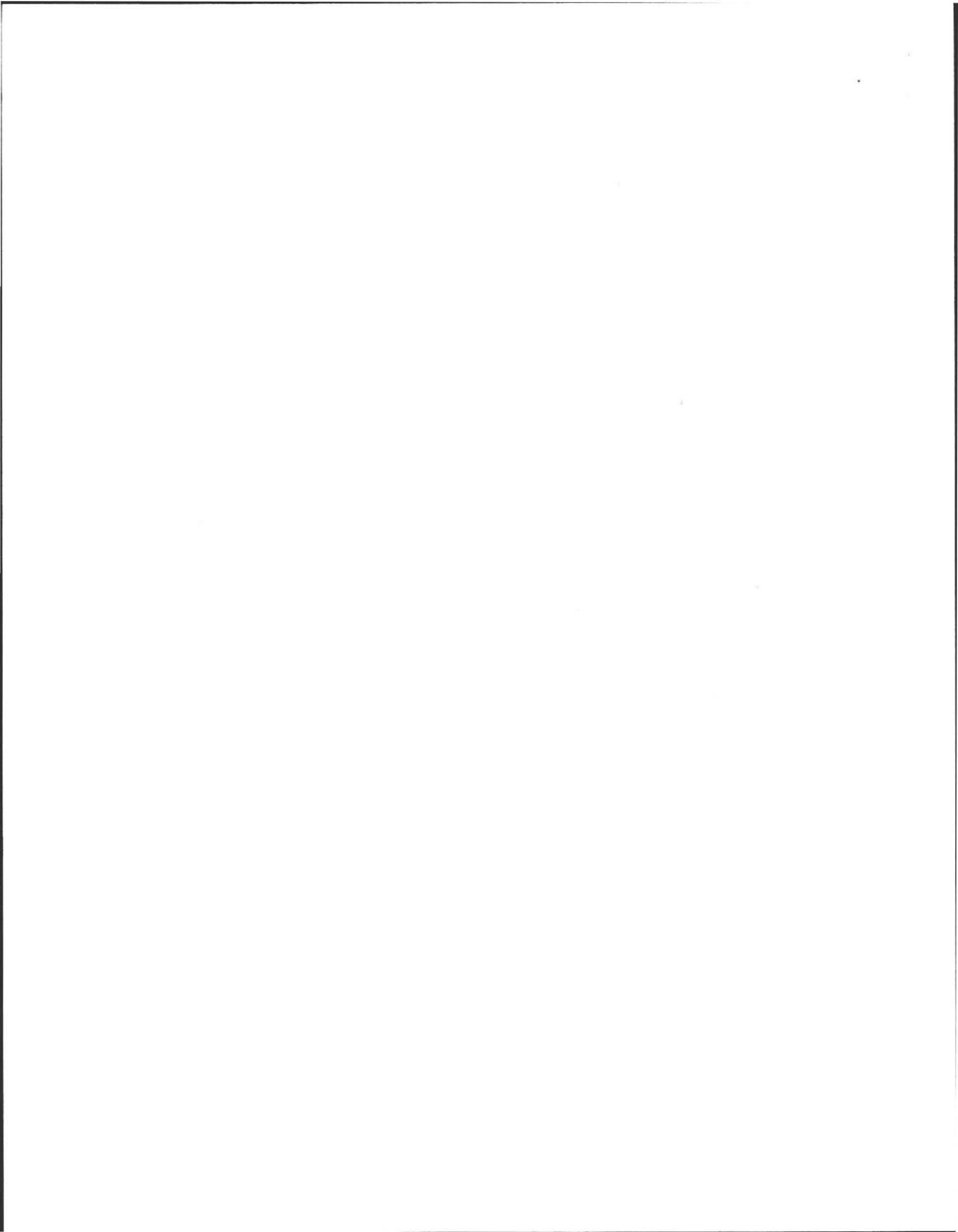
Site Exam:

- Check Slope
- Surface water
- Check cellar
- Shallow wells

Estimated depth to ground water:

10.'+ from hole near to l. tank 1995
feet

Please indicate all methods used to determine the high ground water elevation:





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Obtained from system design plans on record

If checked, date of design plan reviewed: N/A per town records and topo
Date

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

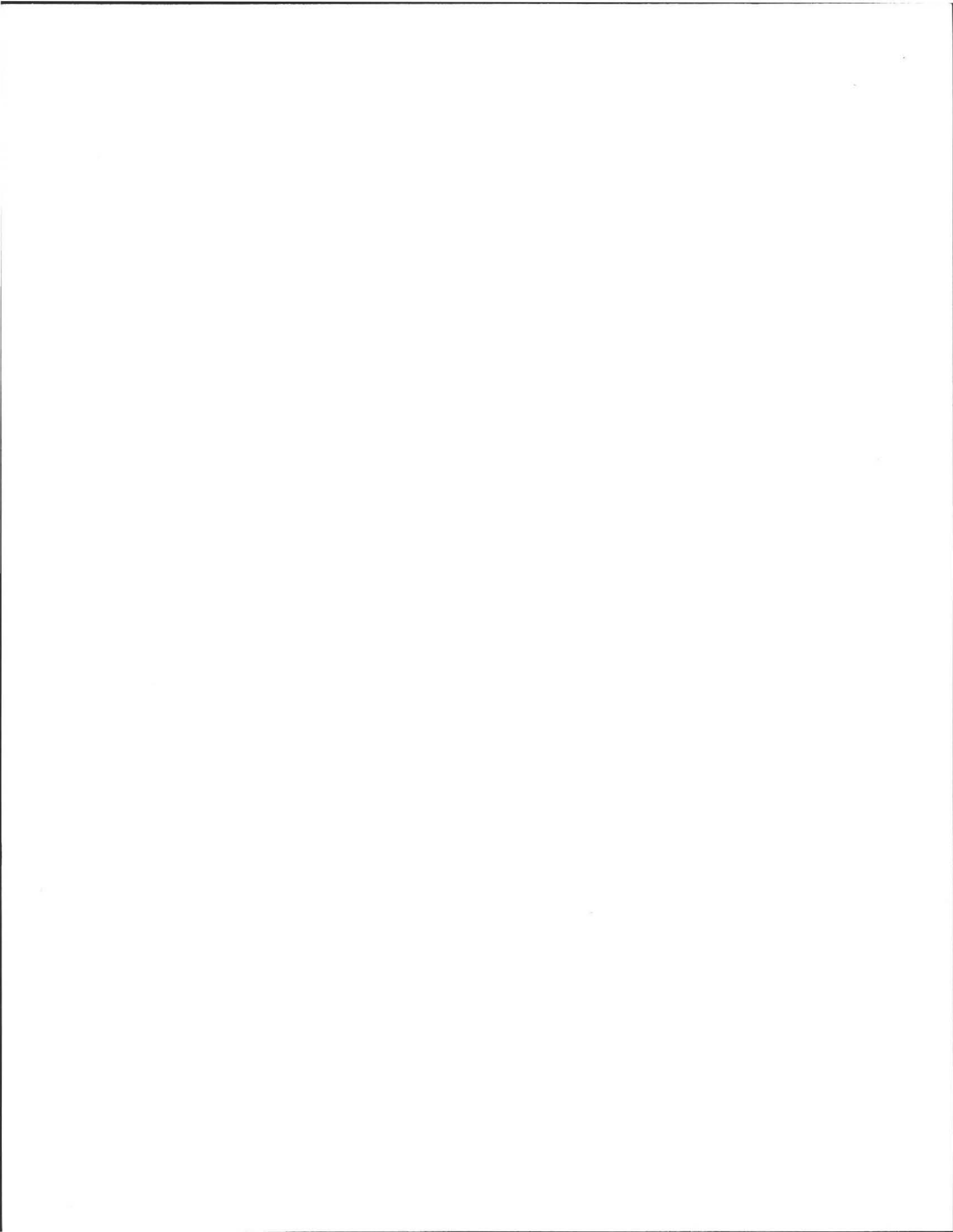
Checked with local Board of Health - explain:

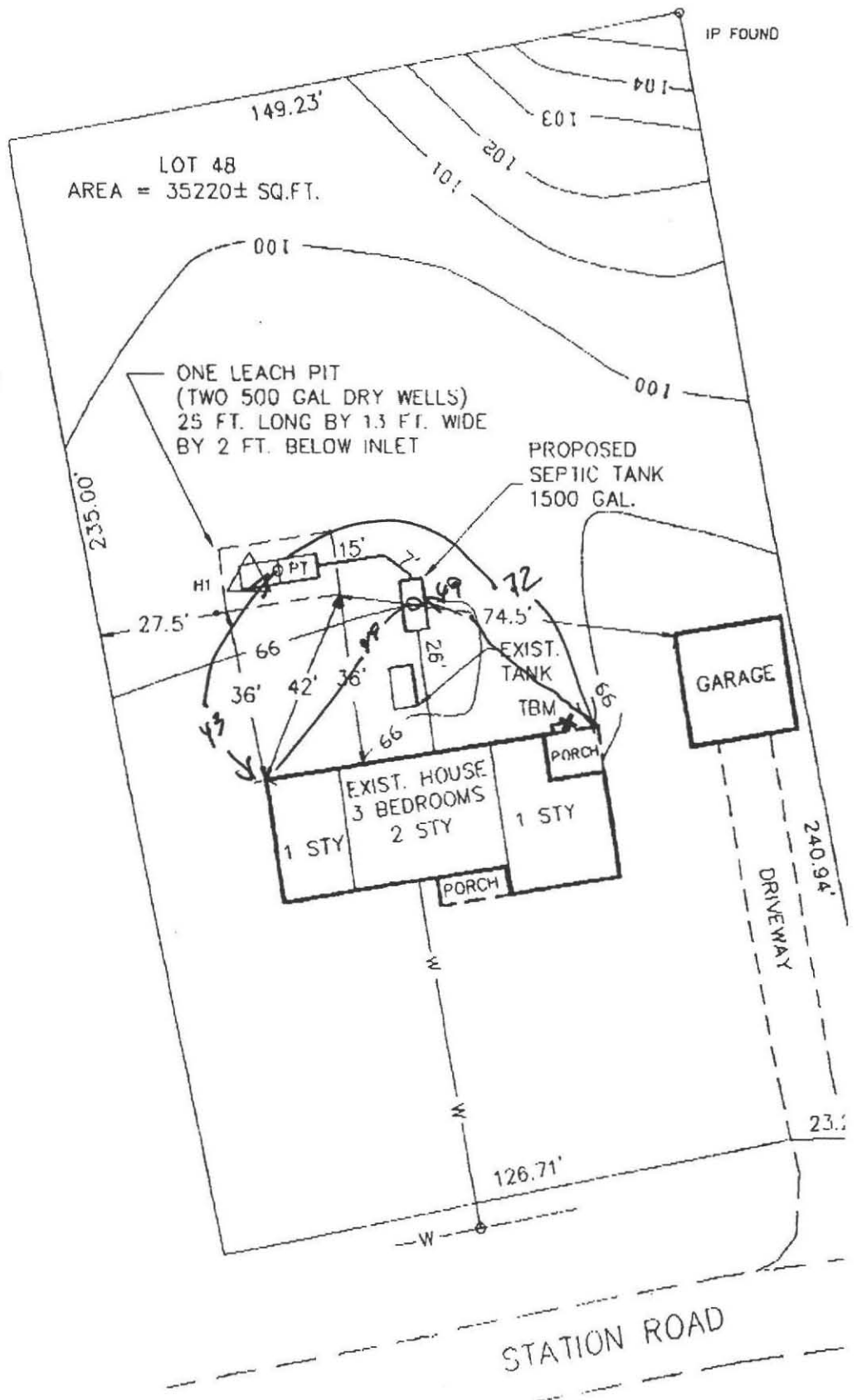
Checked with local excavators, installers - (attach documentation)

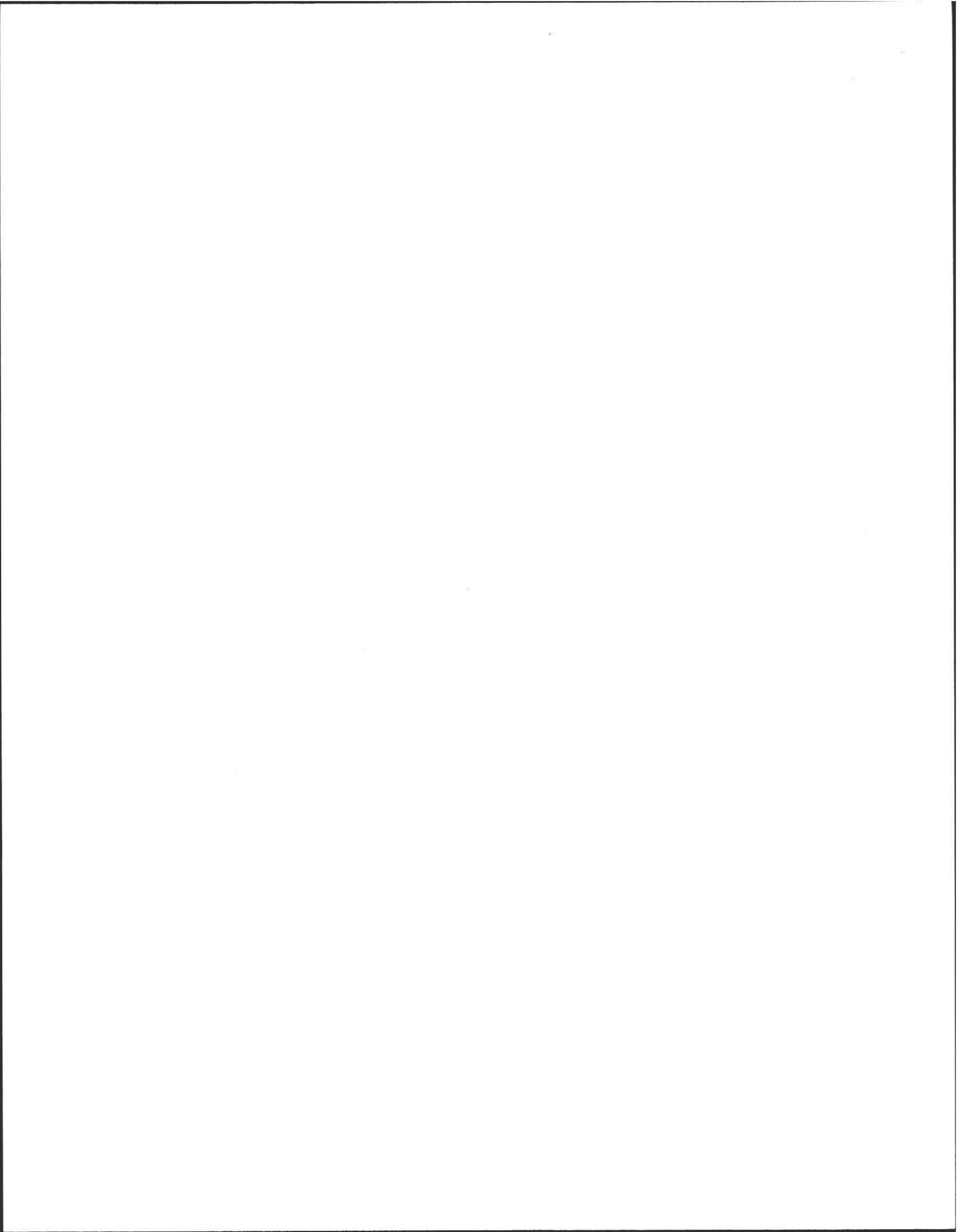
Accessed USGS database - explain:

You **must** describe how you established the high ground water elevation:

Interpreted from depth of L. chamber and adjacent topo and records in immediate area of SAS and depth of adjacent test pit in 1995.









LEGEND

○ PT PERCOLATION TEST

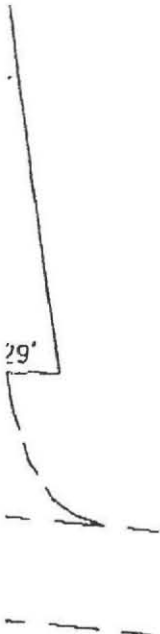
△ Hx DEEP TEST PIT

---XXX--- CONTOUR LINES (1' INTERVAL)

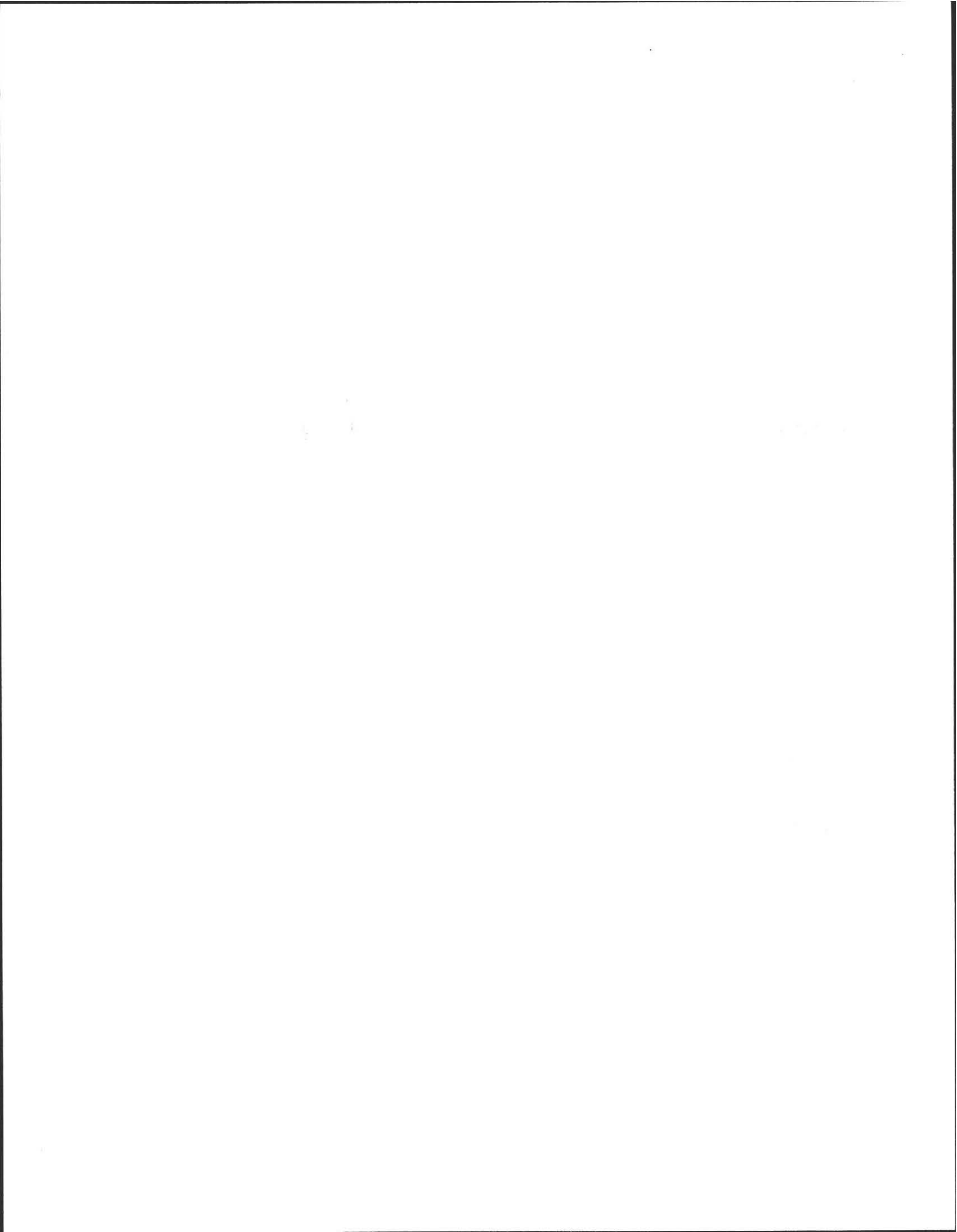
---W---○ WATER SERVICE LINE AND VALVE

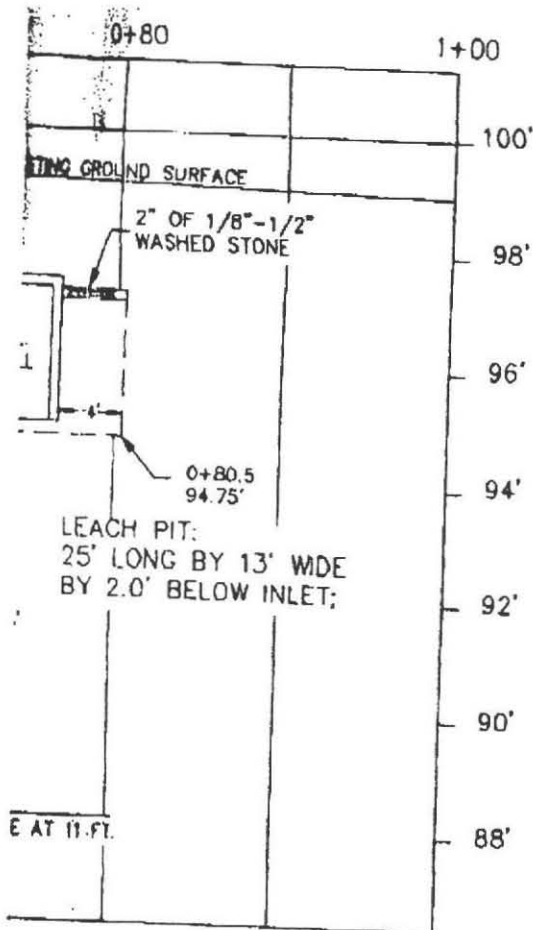
NOTES:

1. TBM IS NORTHEAST CORNER OF CONC. STEP TO BACK PORCH.
2. NO OTHER WELLS WITHIN 200' OF THE LEACH AREA AT THE TIME OF SURVEY.
3. DRY WELLS SHALL BE TIGHTLY BUTTED END-TO-END.
4. EXIST. SEPTIC TANK SHALL BE PUMPED AND FILLED WITH SAND.
5. EXIST. FOUNDATION SEWER OUTLET SHALL BE RAISED



| | |
|--|---|
| PLAN OF SEWAGE DISPOSAL SYSTEM | |
| REPAIR AT 600 STATION RD., AMHERST, MA | |
| BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008 | FOR: CAROLYN LESTER 600 STATION RD. AMHERST, MA 01002 |
| ROBERT STOVER JANUARY 9, 1995 | SCALE: 1" = 30' PAGE ONE OF TWO |

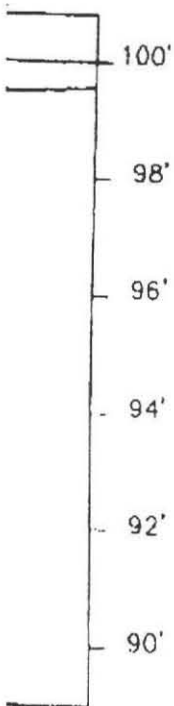




100 FT. ELEVATION ASSUMED AT TBM.
TBM IS NORTHEAST CORNER OF CONC.
STEP TO BACK PORCH AS SHOWN ON
THE PLANVIEW.

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

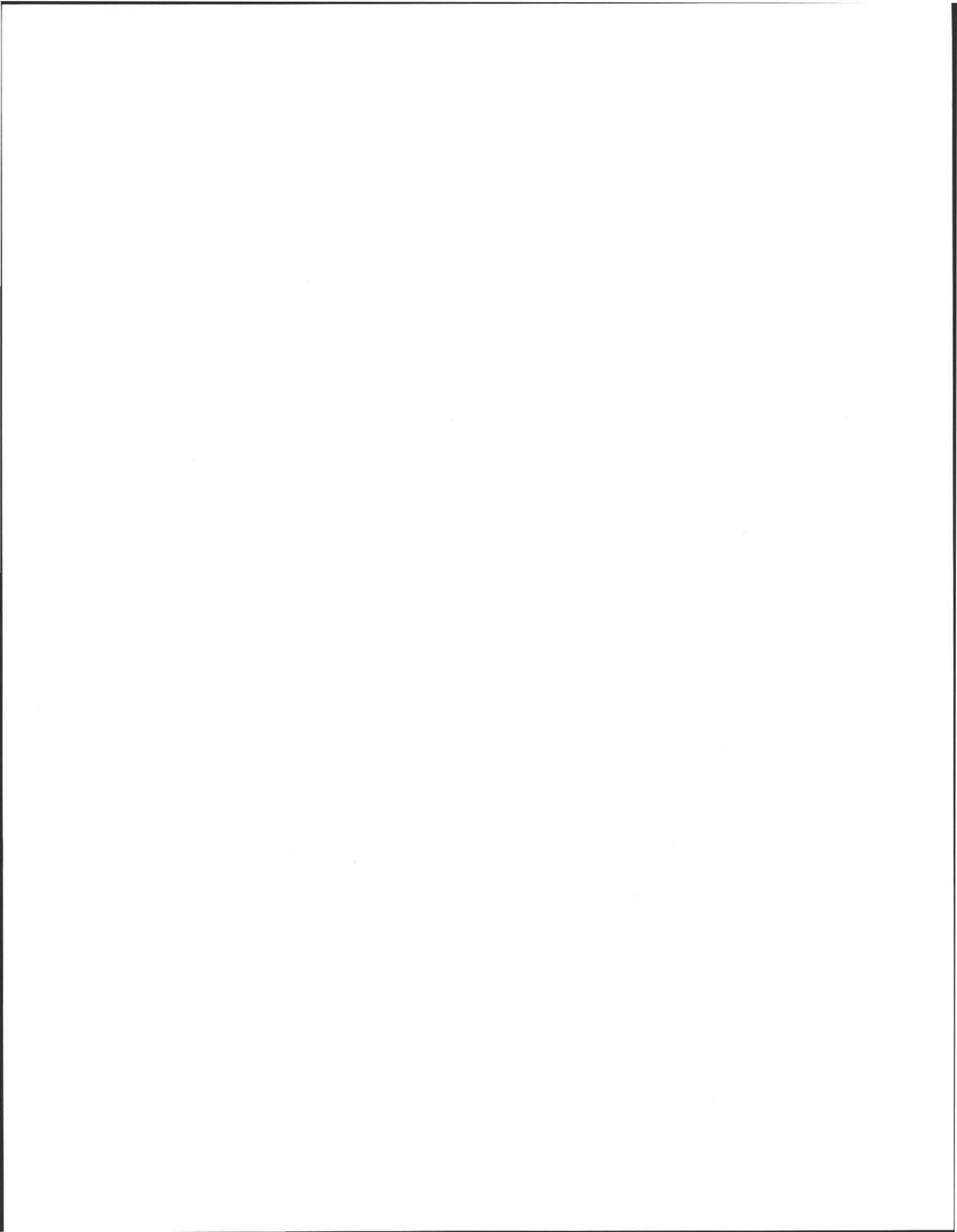
CONSTRUCTION NOTES
1. SEPTIC TANK SHOULD BE INSPECTED AND PUMPED EVERY
TWO YEARS.
2. SEPTIC TANK INLET AND OUTLET TEES SHALL EXTEND 10"
AND 14" BELOW THE FLOWLINE RESPECTIVELY. TOPS OF TEES
SHALL BE LEFT OPEN WITH 3" AIR SPACES BETWEEN TOPS OF
TEES AND THE INSIDE OF THE TANK COVER.
3. THE INVERT ELEVATION OF THE SEPTIC TANK INLET SHALL
BE AT LEAST 2" ABOVE THE INVERT ELEVATION OF THE OUTLET.
4. EXIST. SEPTIC TANK SHALL BE PUMPED AND FILLED WITH SAND.
5. THE TWO (500 GAL.) DRY WELLS SHALL BE TIGHTLY BUTTED
END-TO-END.

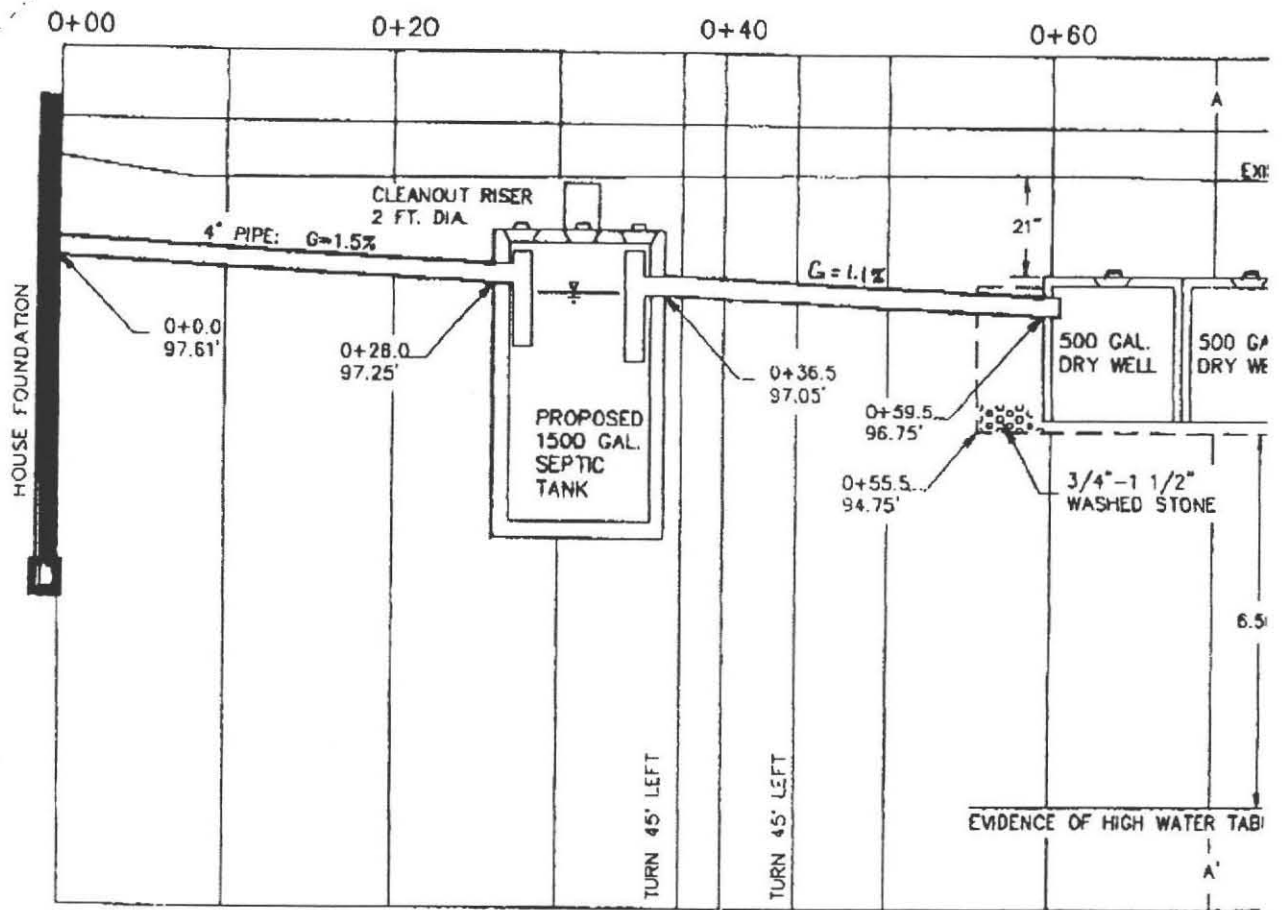


CALCULATIONS
REQUIRED: For a 3 bedroom house without a garbage grinder a capacity
of 330.0 gal./day x 1.25 (Town safety factor) = 412.5 gal./day.
DESIGNED: 1 leach pit 25.0'L X 13.0'W X 2.00' below inlet
(effective depth), for a perc rate of 2 min./in., yielding side and
bottom loading factors of 2.50 and 1.00 gal./sq.ft. respectively.
SIDEWALL: (25.0' + 13.0')2 X 2.0' X 2.50 Gal./Sq.ft. = 380.0 Gal.
BOTTOM: (25.0' X 13.0')1.00 Gal./Sq.ft. = 325.0 Gal.
TOTAL 705.0 Gal.

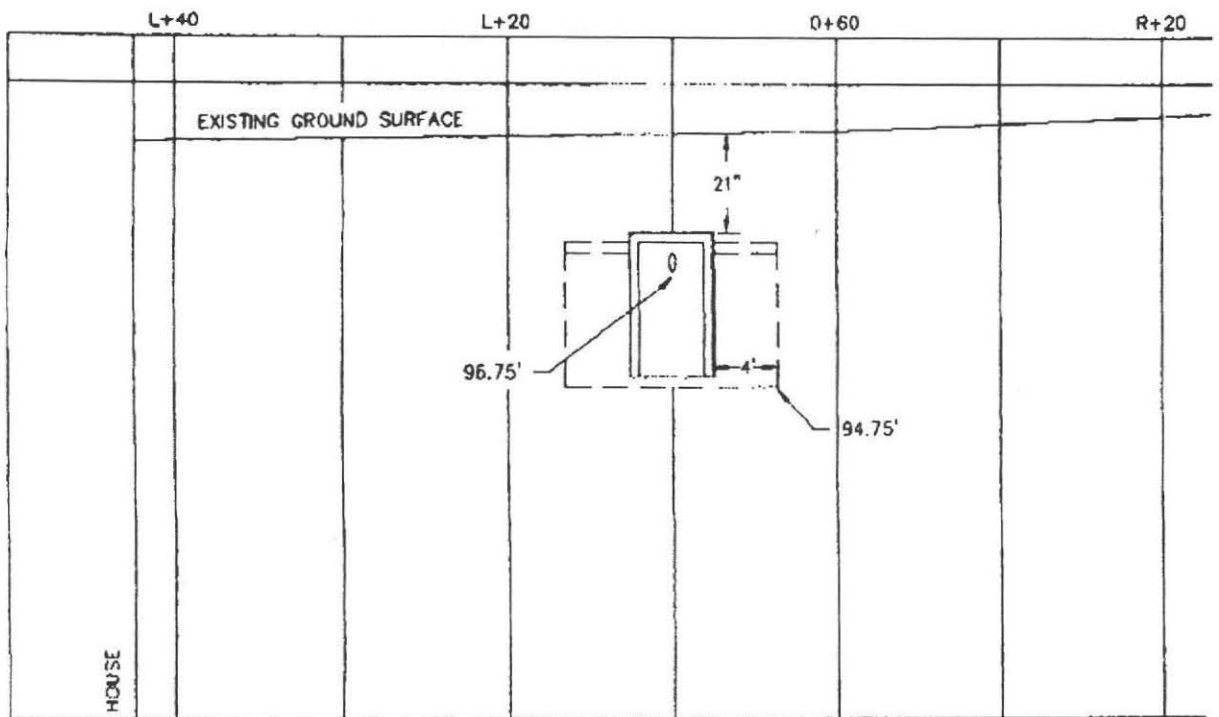


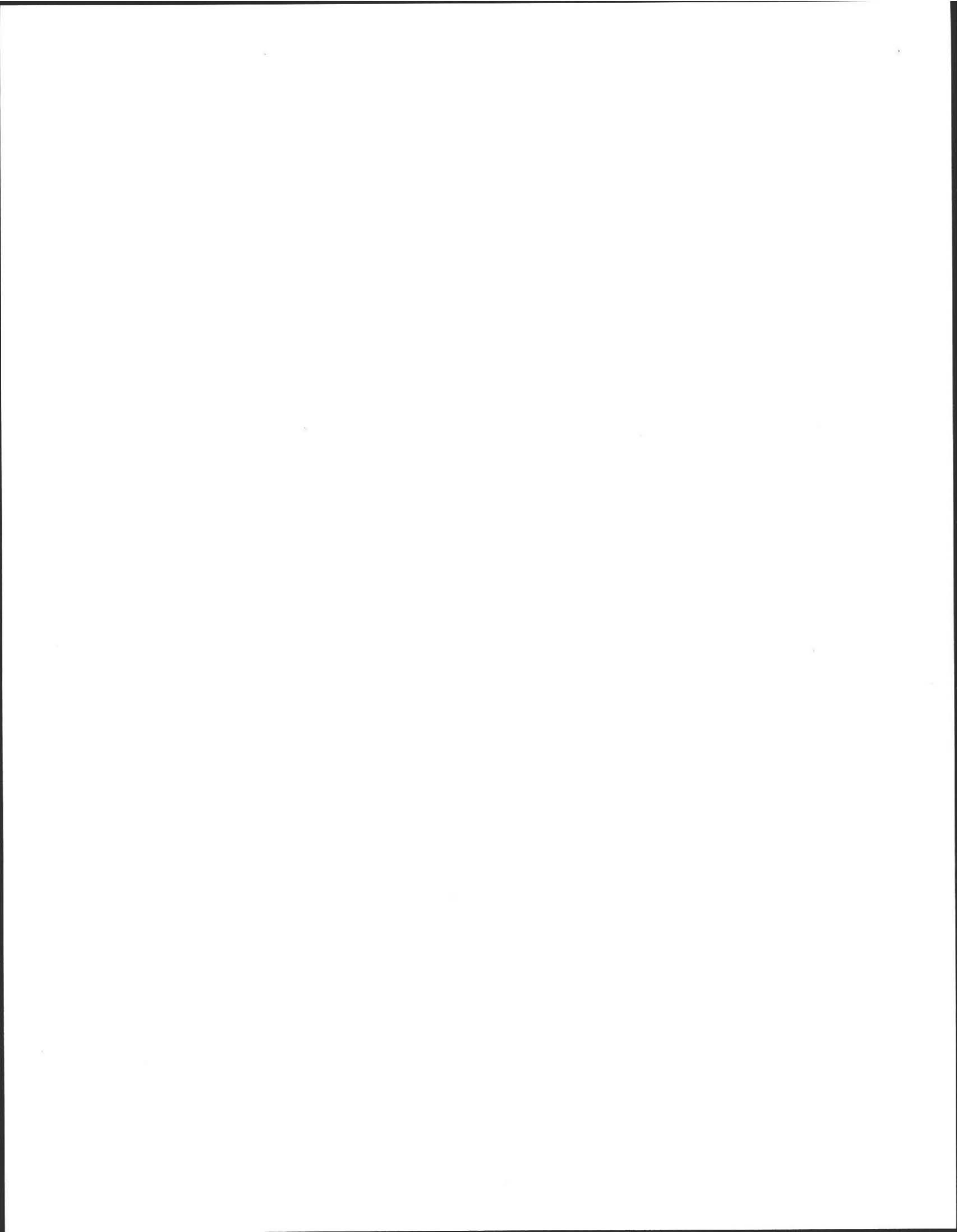
| PROFILE OF SEWAGE DISPOSAL SYSTEM | |
|--|---|
| REPAIR AT 600 STATION RD., AMHERST, MA | |
| BY: FILIOS ENTERPRISES, INC. 69 PELHAM RD. AMHERST MA 01002 (413)256-8008 | FOR: CAROLYN LESTER 600 STATION RD. AMHERST, MA 01002 |
| ROBERT STOVER | SCALE: 1" = 10' HOR. 3" VER. |
| JANUARY 9, 1995 | PAGE TWO OF TWO |





CROSS-SECTION AT A - A' (0+70)





Josse Schwalbe
253-2871

No. 95-2

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

Town Amherst OF

Application for Disposal Works Construction Permit



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

Location - Address 600 Station Rd. or Lot No. 48
Owner Carolyn Lester Address 600 Station Rd., Amherst, MA 01002

Installer _____ Address _____
Type of Building _____ Size Lot 35,220± Sq. feet
Dwelling - No. of Bedrooms 3 Expansion Attic () Garbage Grinder ()
Other - Type of Building _____ No. of persons _____ Showers () - Cafeteria ()
Other fixtures _____

Design Flow 5.5 gallons per person per day. Total daily flow 412.5 gallons.
Septic Tank - Liquid capacity 1500 gallons Length 10.5' Width 5.0' Diameter _____ Depth 4.0' (liquid)
Disposal Trench - No. _____ Width _____ Total Length 35.0' Total leaching area 152.0 sq. ft. Sidewall
Seepage Pit No. 1 Diameter 25.0" x 30" Depth below inlet 2.0' Total leaching area 325.0 sq. ft. Bottom
Other Distribution box () Dosing tank ()
Percolation Test Results Performed by Filios Enterprises, Inc. Date January 6, 1995
Test Pit No. 1 2 minutes per inch Depth of Test Pit 16.1" Depth to ground water 11'
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 raise building sewer outlet, replace tank with 1500 gal. septic tank, construct new 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.

Application Approved By [Signature] Signed _____ Date _____
Application Disapproved for the following reasons: _____

Permit No. 95-2 Issued _____ Date _____

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

Town Amherst OF

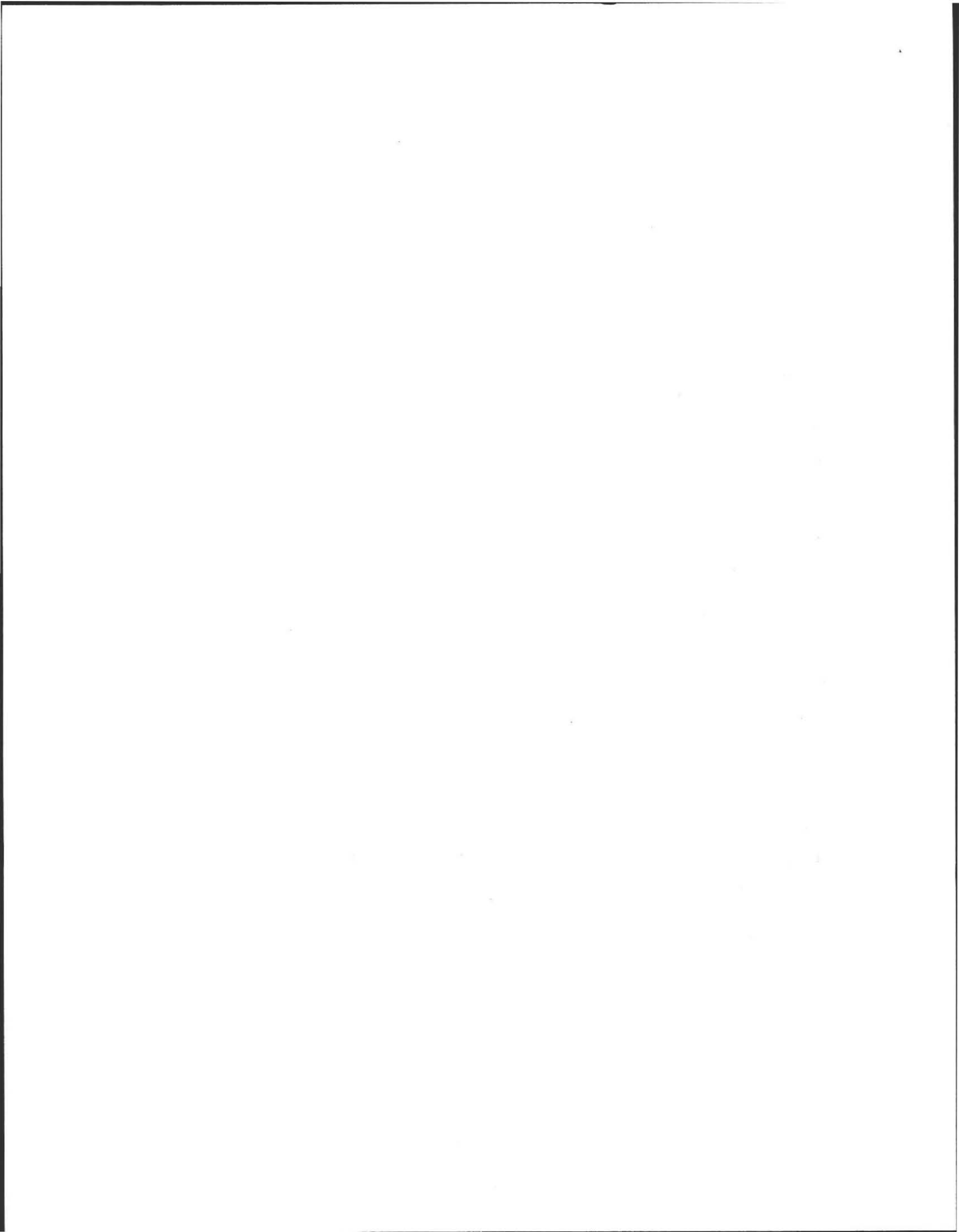
Certificate of Compliance

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired () by _____ at 600 Station 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. _____ dated _____

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

DATE _____

CHECK OR FILL IN WHERE APPLICABLE





Deep Soil Logs

Filios Enterprises, Inc.

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

Owner: Carolyn Lester

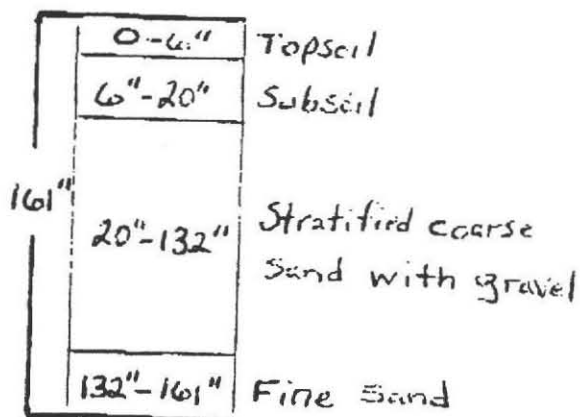
Date: January 6, 1995

Location: 600 Station Rd.

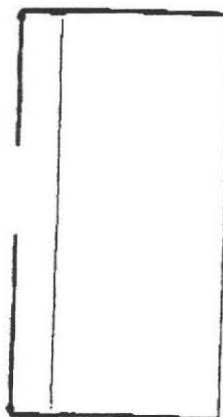
B. of H. David Zarozinski

Amherst, MA

Repair Perc



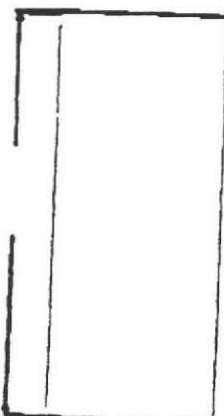
Ground Water Oxides At 11'



Ground Water _____



Ground Water _____



Ground Water _____

Percolation Rate at: 58"
2 min./Inch

