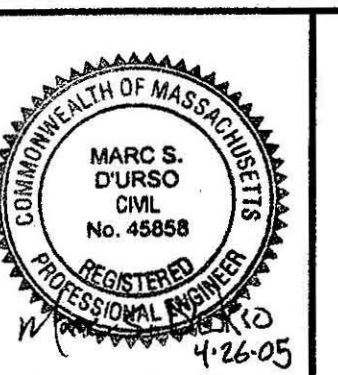


Stanley Gault Prop  
? (575 NORTHEAST STREET)

10/28/05 Temporarily using 575 Northeast as address, will  
update once address is established.







This drawing is not intended nor shall it be used for construction purposes unless the signed professional seal of a registered landscape architect or civil engineer employed by The Berkshire Design Group, Inc. is affixed above.

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**Gawle Residence**

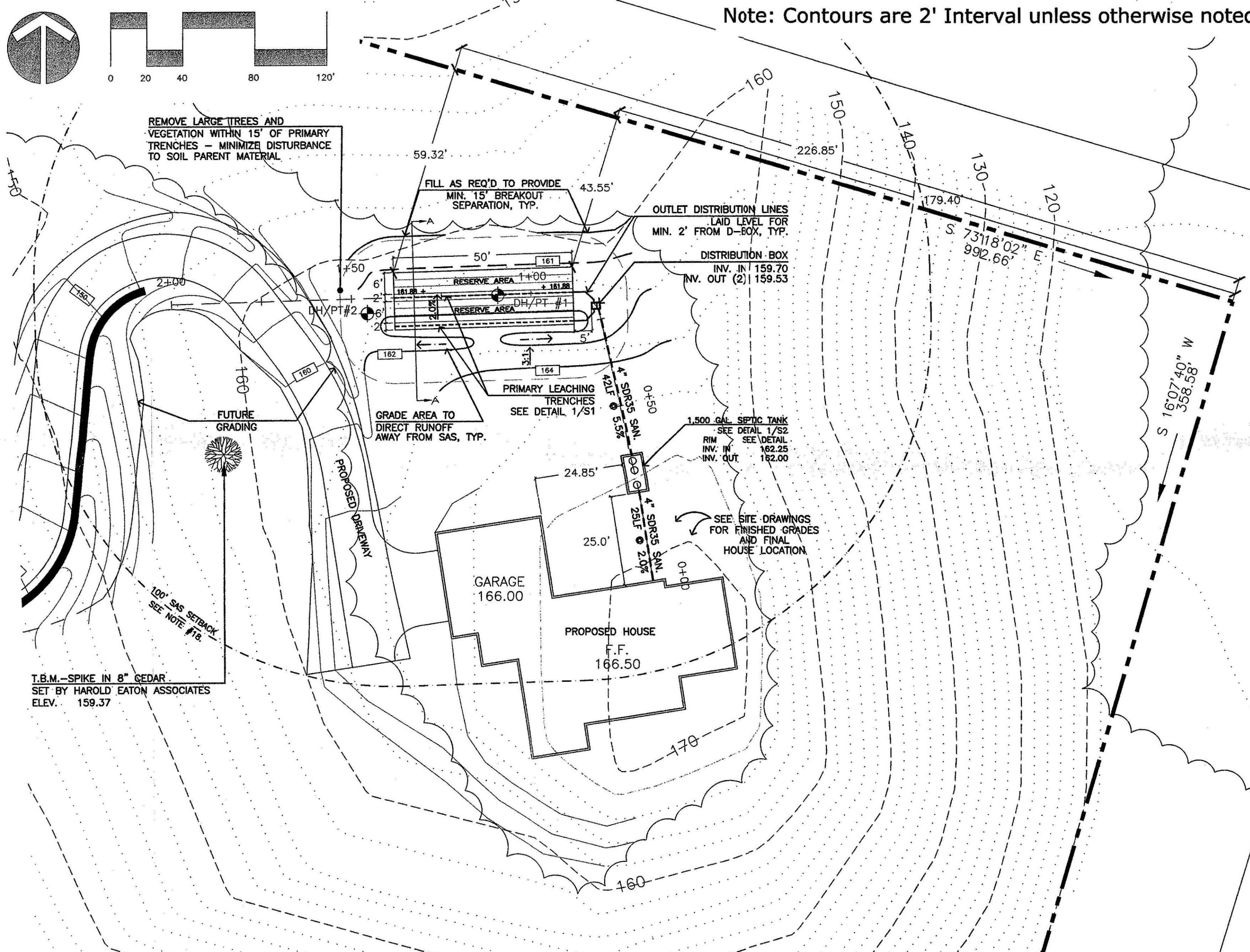
Amherst, Massachusetts

*Septic System Plan and Profiles*

Revisions

Date:	April 26, 2005	Sheet Number	
Scale:	1" = 20'	<b>S1</b>	Sheet 1 of 2
Drawn By:	MSD		
Checked By:	MBD		

Note: Contours are 2' Interval unless otherwise noted.



**Septic System Grading Plan**  
Scale: 1"=20'

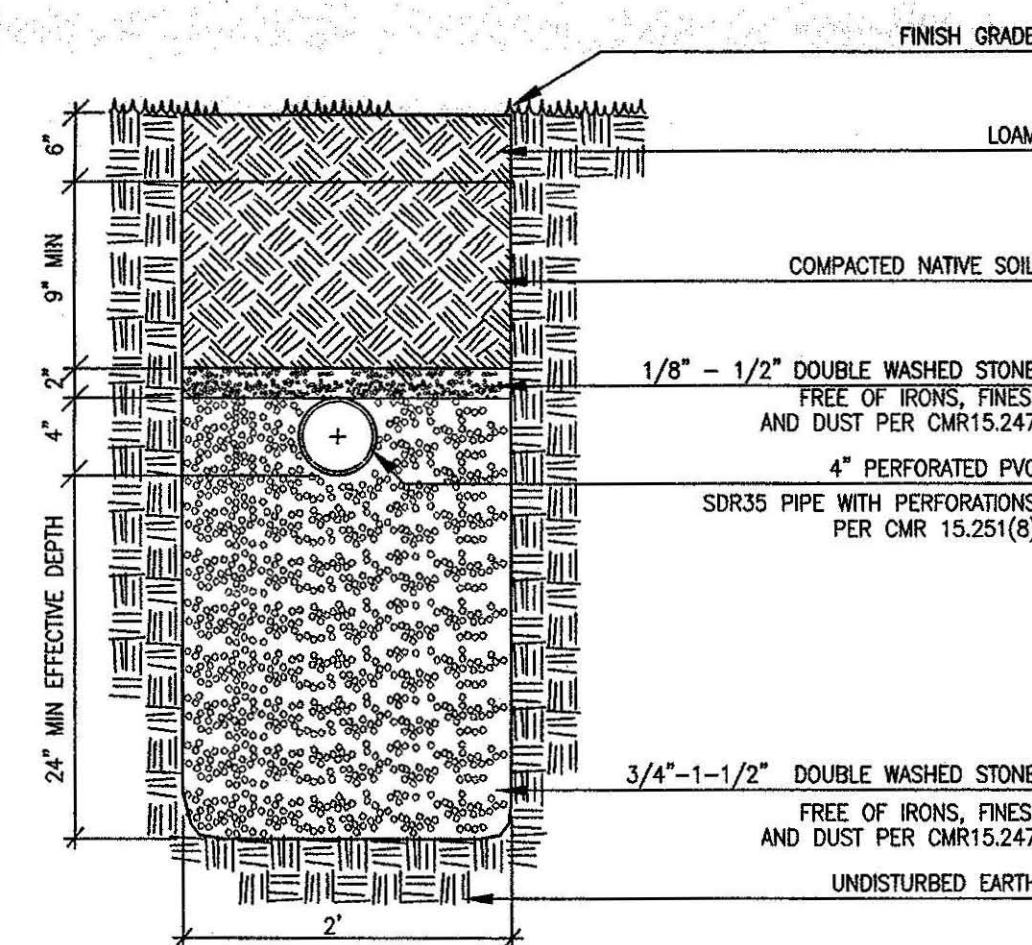
**SEPTIC SYSTEM DESIGN DETAILS:**

DESIGN FLOW (310 CMR 15.00):  
15,203(2) Family Dwelling, Single: 110 gpd per bedroom  
4 Bedrooms x 110 gpd/bedroom = 440 gpd

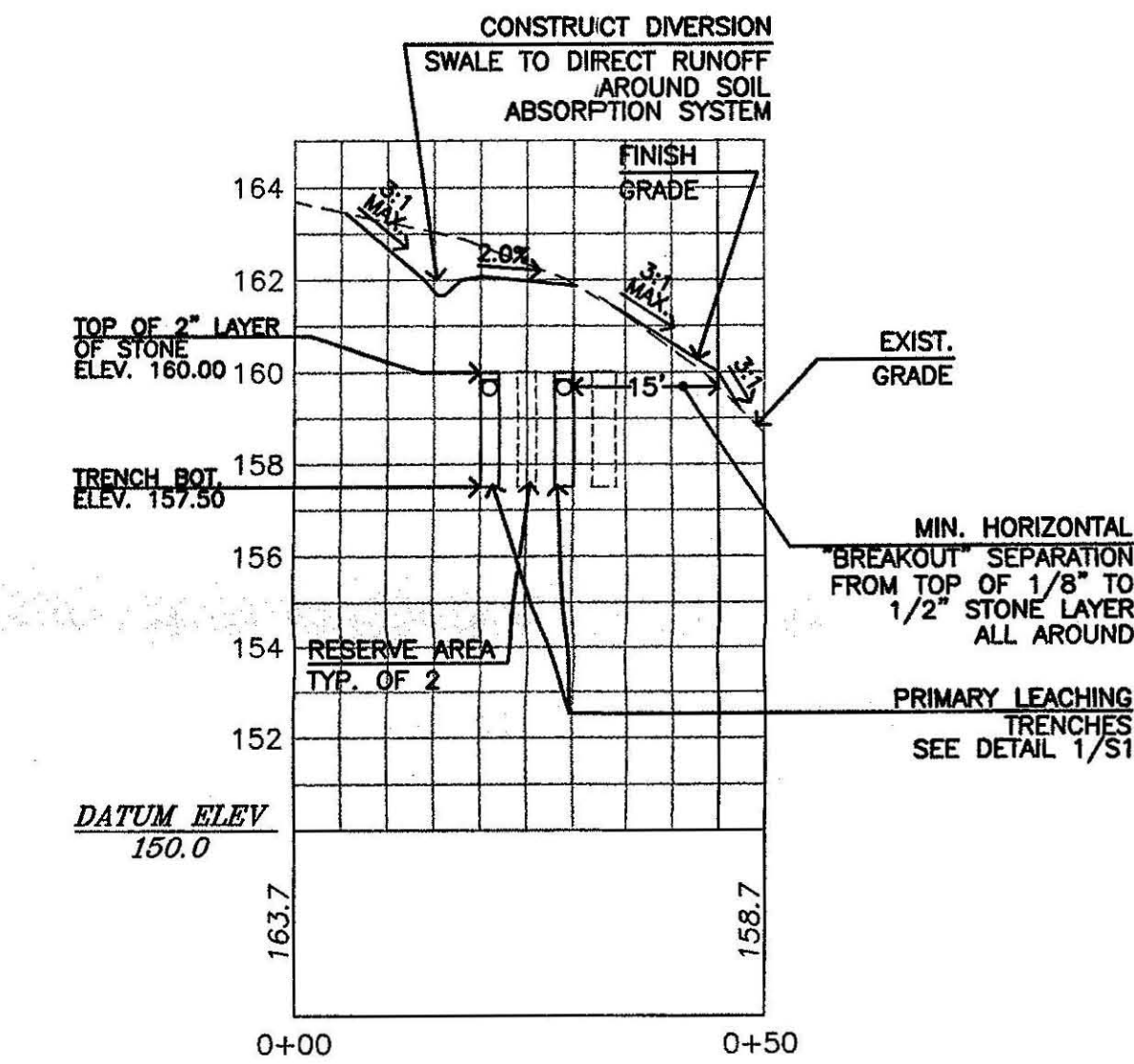
SEPTIC TANK:  
Septic Tank: Min. 1,500 gal tank required  
Use two compartment tank:  
1st compartment: 1,000 gal.  
2nd compartment: 500 gal.  
Required size: 1,500 gal. = Provided size: 1,500 gal.

WASTEWATER DISPOSAL SYSTEM:

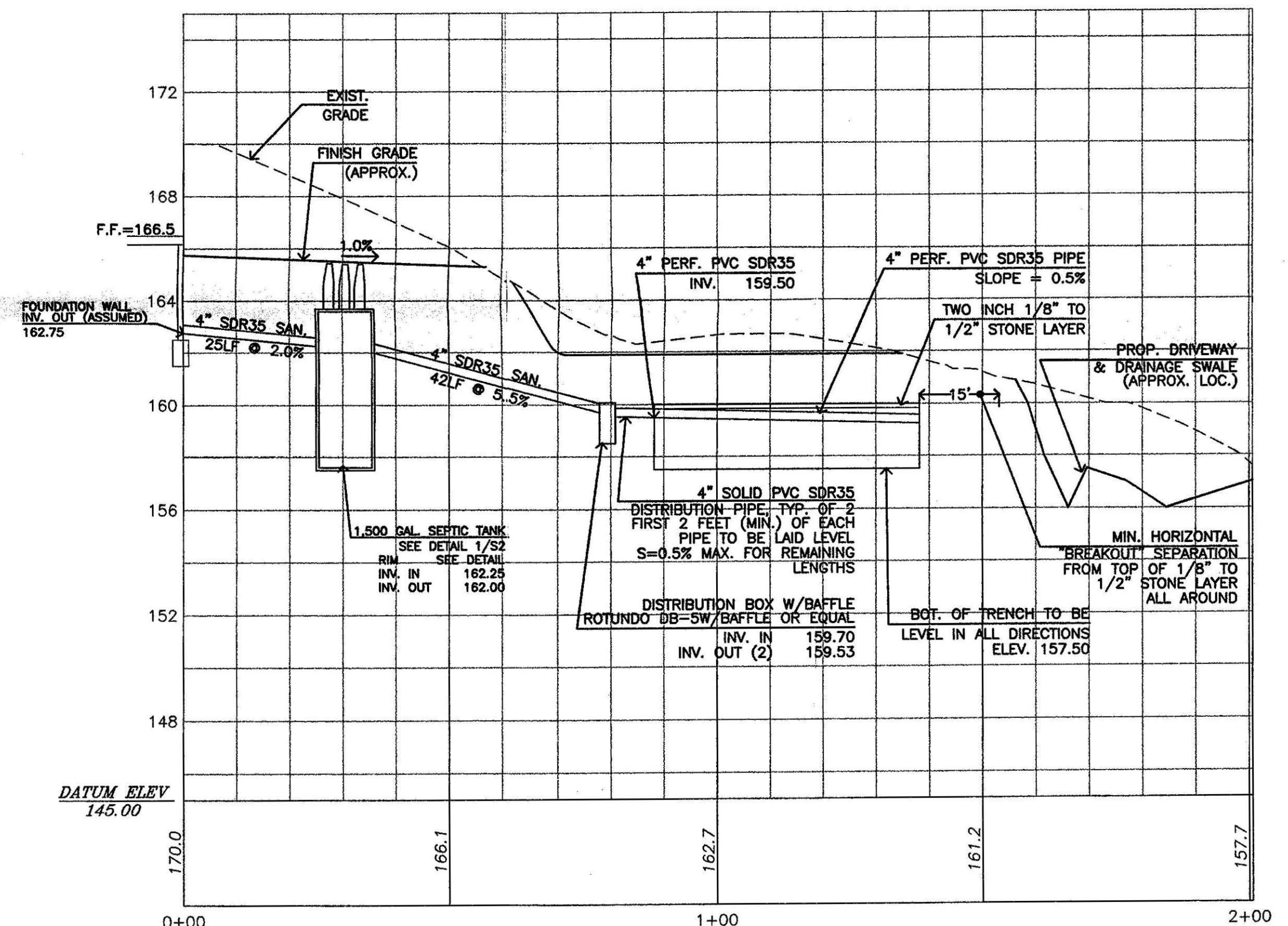
15.242 LTAR - Effluent Loading Rate  
Class 1 Soil w/ Percolation Rate < 5 min/inch:  
Effluent Loading Rate=0.74 gpd/sf  
Req'd Effective Area = (440 gpd) / 0.74 gpd/sf = 595 sf  
Effective Leaching Area per Length: 6 SF/LF (2x2' deep + 2' wide)  
Provided Effective Area = 2 Trenches x 50 lf x 6 sf/lf = 600 sf  
System is NOT designed for a garbage grinder.



**1 Trench Cross Section**  
C3 N.T.S.



**Leach Field Cross Section A-A**  
Scale: Horz 1"=20'; Vert. 1"=4'



**System Profile**  
Scale: Horz 1"=20'; Vert. 1"=4'

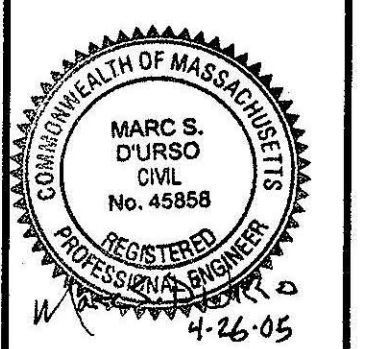
**Layout Notes**

- Existing conditions and topography taken from field survey by E.B. Holmberg & Associates, Easthampton, MA.
- All lines or points are perpendicular or parallel to lines from which they are measured unless otherwise noted.
- The Contractor shall verify all layout, dimensions, grades, and inverts prior to construction; report any and all discrepancies to the Engineer. All discrepancies shall be resolved in writing prior to beginning work.

These plans shall not be used for construction until the Disposal System Construction Permit is obtained from the Amherst Health Department.



These plans shall not be used for construction until the On-Site Sewage Disposal System has been approved by the Amherst Health Department.



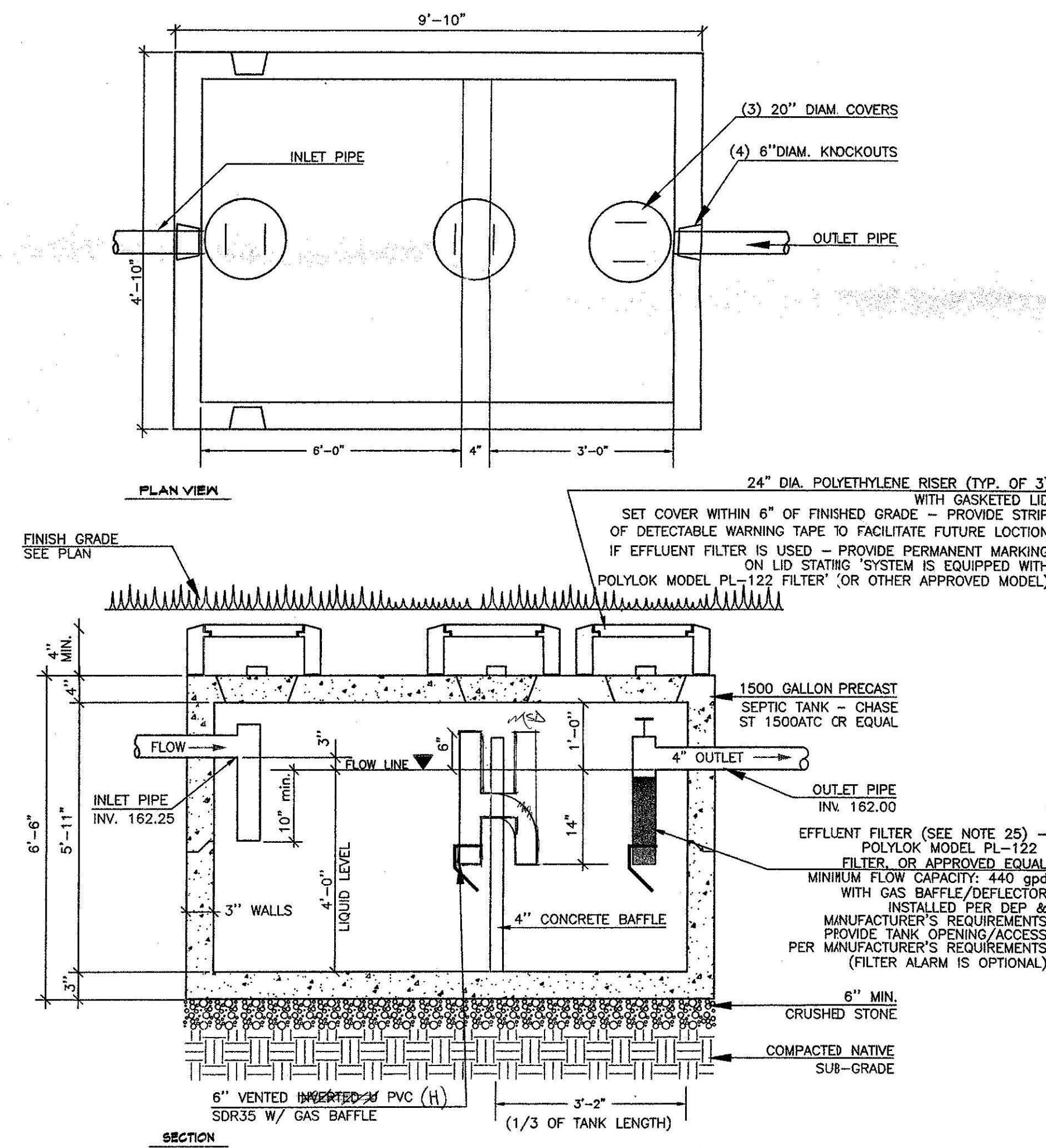
This drawing is not intended nor shall it be used for construction purposes unless the signed professional seal of a registered landscape architect or civil engineer employed by The Berkshire Design Group, Inc. is affixed above.

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### Gawle Residence

Amherst, Massachusetts

- NOTES:**
- All construction methods and materials shall comply with the State Sanitary Code 310 CMR 15.00 (Title 5).
  - No components to be back filled or concealed without inspection by the Board of Health and permission obtained from the Board of Health. Existing permeable material must be inspected by the Board of Health after excavation and prior to placement of any stone or fill.
  - A certificate by the system installer shall be submitted to the Board of Health by the installer.
  - The system shall be staked and flagged from date of installation until Certificate of Compliance is issued by the Board of Health.
  - All gravity sewer shall be constructed of SDR 35 PVC pipe with tight joints, laid on a firm compacted base.
  - Septic tank shall be placed level on minimum of 6" crushed stone.
  - All components, including, but not limited to septic tank, shall be constructed with a water tight cover.
  - Top of all system components shall be no more than 36" below finished grade. Notify Engineer of any discrepancies.
  - Remove all top (A horizon), sub soil (B horizon), and 6" below the surface of the naturally occurring permeable material from primary leaching trench area.
  - All fill material shall comply with Section 15.255 (3) of the State Sanitary Code.
  - No garbage grinder is allowed. Back-washing from water softening systems or any other system shall not be discharged into the septic system.
  - Heavy machinery shall not be permitted to pass over the leaching area during construction.
  - For proper performance, septic tank should be inspected at least once per year, and when the total depth of scum and solids exceeds 1/2 of the liquid depth of the tank, the tank should be pumped.
  - The design of the leaching area proposed is based on test pits conducted by The Berkshire Design Group, Inc. on 01/11/05.
  - Water supply lines shall be located at least 10 feet from and 18 inches above all septic components, including sewer lines. Where water supply lines must cross sewer lines, each shall be constructed of class 150 pressure pipe and shall be pressure tested to assure watertightness.
  - Proposed building and driveway are shown as approximate and is not a part of the stamped septic system design plans.
  - Site to be graded and swaled to direct surface water away from leach area.
  - Maintain a minimum setback of 100 feet between the well(s) and all existing and proposed soil absorption systems. Maintain a minimum 50 foot setback between the well(s) and septic tank.
  - Distribution box shall be set level and configured so that the effluent is evenly distributed to each distribution line. Distribution box shall have speed levers that enable precise final adjustment.
  - All disturbed areas including the soil absorption system (SAS) to be loamed and seeded. Provide hay mulch as needed for temporary stabilization.
  - Immediately notify Engineer of any site conditions that are not consistent with those shown on the plans.
  - Contractor is responsible for horizontal and vertical control. Contractor is responsible for coordination with other trades for final location of the building sewer, construction sequencing, and protection of soil absorption system area.
  - All tanks, including septic tank and distribution box, shall be watertight per 310 CMR 15.221 (1).
  - The Contractor shall provide as-built plans clearly showing dimensions of all system components to facilitate future location of the system. These as-built plans shall be provided to the Owner for submission to the Amherst Health Department.
  - A DEP approved effluent filter is recommended but not required. DEP requires annual inspections and cleaning of the filter. If the Owner chooses to use a standard effluent tee it shall be installed per 310 CMR 15.227(6). The depth of the outlet tee shall be 14" below the flow line. The standard tee shall have a gas baffle/deflector.



- NOTES:**
- CONCRETE STRENGTH F'C 4,000 PSI @ 28 DAYS, DENSITY 150 PCF.
  - CEMENT, PORTLAND TYPE I OR III PER ASTM C150-81
  - ADMIXTURES, AIR & PLASTICIZERS PER ASTM C233-82.
  - DESIGN LOADING PER H-10.
  - CONSTRUCTION JOINTS SEALED WITH 1" NEOPRENE GASKET OR EQUAL.
  - TANK TO BE WATERTIGHT PER 310 CMR 15.221 (1).

**1 1,500 Gallon Septic Tank**  
S2 Not to Scale

### SOIL SUITABILITY ASSESSMENT FOR ON-SITE SEWAGE DISPOSAL

Performed By: Marc D'Urso, The Berkshire Design Group, Inc.  
Witnessed By: David Zarozinski, Amherst Health Department

Deep Hole Number: 1 & 2 Date: 01/11/05 Time: 10-11am Weather: P-Cloudy 30°F  
Location: See Plans  
Land Use: Wooded Slope: 10% Surface Stones: None Obs.  
Vegetation: Pine Trees with some undergrowth  
Landform: Kame

Distances From:  
Open Water Body: >100 feet Drainage Way: >100 feet  
Possible Wet Area: >100 feet Property Line: see plan feet  
Drinking Water Well: >100 feet Other:

**DEEP OBSERVATION HOLE LOG**

TEST PIT #	DEPTH FROM SURFACE	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER	PERCOLATION RATE
TP#1	0-6"	A	SL	10YR3/3	n/o	forest mat, many roots, massive friable, some grav & cobbles	4.33 min/in
	6"-24"	Bw	SL	2.5YR5/8	n/o	massive, friable, 40% gravel & cobbles, roots	
	24"-64"	C1	Fine-Med Sand	7.5YR5/8 & 10YR5/8	n/o	loose and somewhat massive (mixed), 45% gravel & cobbles (sub-angular), some silt, roots down to 36", depth of interface between C1 & C2 varies	
	64"-120"	C2	Very Fine Sand	2.5Y5/3		massive, friable, stratified bands of reddish (10YR5/8) fine sand throughout, few cobbles	

Parent Material (geologic): Ice contact Outwash Depth to Bedrock: >120"  
Depth to Groundwater: Standing Water in Hole: n/o Weeping from Pit Face: n/o  
Estimated Seasonal High Ground Water: >120"

**DEEP OBSERVATION HOLE LOG**

TEST PIT #	DEPTH FROM SURFACE	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER	PERCOLATION RATE
TP#2	0-4"	A	SL	10YR3/3	n/o	forest mat, many roots, massive friable, some grav & cobbles	< 2 min/in
	4"-31"	Bw	SL	2.5YR5/8	n/o	massive, friable, 40% gravel & cobbles, roots	
	31"-61"	C1	Fine-Med Sand	7.5YR5/8 & 10YR5/8	n/o	loose and somewhat massive (mixed), 45% gravel & cobbles (sub-angular), some silt, roots down to 36"	
	61"-115"	C2	Very Fine Sand	2.5Y5/3		massive, friable, stratified bands of reddish (10YR5/8) fine sand throughout, few cobbles or gravel, some stones below 88"	

Parent Material (geologic): Ice contact Outwash Depth to Bedrock: >115"  
Depth to Groundwater: Standing Water in Hole: n/o Weeping from Pit Face: n/o  
Estimated Seasonal High Ground Water: >115"

**2 Deep Observation Hole Logs**  
S2

### Septic System Details and Notes

**Revisions**


Date: April 26, 2005 Sheet Number  
Scale: 1" = 20'  
Drawn By: MSD  
Checked By: MBD

**S2**  
Sheet 2 of 2





Commonwealth of Massachusetts  
 City/Town of  
**Application for Disposal System  
 Construction Permit**  
 Form 1A

Number \_\_\_\_\_

Fee \_\_\_\_\_

DEP has provided this form for use by local Boards of Health if they choose to do so. Before using the form, check with your local Board of Health to make sure that they will accept it.

**A. Facility Information**

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



Application is hereby made for a permit to:  Construct a new on-site sewage disposal system  
 Repair or replace an existing on-site sewage disposal system  
 Repair or replace an existing system component

1. Location of Facility:

575 Northeast Street (Tract 1, Bk:957, Pg:421)

Address or Lot #

Amherst

City/Town

MA

State

01002

Zip Code

2. Owner Information

Stanley Gawle & Dorothy A. GAWLE

Name

575 North East Street

Address (if different from above)

Amherst

City/Town

MA

State

01002

Zip Code

413 253-2695

Telephone Number

3. Installer Information

Name

AMHERST BUILDING CO.

Name of Company

Address

25 MAIN ST. Suite 445

City/Town

NORTHAMPTON

State

01060

Zip Code

413-586-5340

Telephone Number

4. Designer Information

Marc S. D'Urso

Name

4 Allen Place

Address

Northampton

City/Town

The Berkshire Design Group, Inc.

Name of Company

MA

State

01375

Zip Code

413 582-7000

Telephone Number



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Commonwealth of Massachusetts  
 City/Town of  
**Application for Disposal System  
 Construction Permit**  
 Form 1A

Number \_\_\_\_\_

Fee \_\_\_\_\_

**A. Facility Information** (continued)

5. Type of Building:

Dwelling

Garbage Grinder (check if present)

Other: Type of Building \_\_\_\_\_

Number of Persons Served \_\_\_\_\_

Showers

Number of showers \_\_\_\_\_

Cafeteria

Other fixtures

Specify other fixtures: \_\_\_\_\_

6. Design Flow:

440

Gallons per Day

Calculated Daily Flow:

440

Gallons

7. Plan:

04/26/05

Date of Original

2

Number of Sheets

Revision Date

Gawle Residence, Septic System Plan, Profile, and Details

Title of Plan

8. Description of Soil:

Fine-Med Sand underlain by Very Fine Sand – see logs

9. Nature of Repairs or Alterations (if applicable):

10. Date last inspected:

Date \_\_\_\_\_



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Commonwealth of Massachusetts  
City/Town of  
**Application for Disposal System  
Construction Permit**  
Form 1A

Number \_\_\_\_\_

Fee \_\_\_\_\_

**B. Agreement**

The undersigned agrees to ensure the construction and maintenance of the aforescribed on-site sewage disposal system in accordance with the provisions of Title 5 of the Environmental Code and not to place the system in operation until a Certificate of Compliance has been issued by this Board of Health.

Signature Stanley F. Hub Norothy A Hawk Date May 9, 2005

Application Approved By:  
Name David J. Jozanski Date 5/10/05

Application **Disapproved** for the following reasons:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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586-  
5462



**AMHERST HEALTH DEPT.  
TOWN OF AMHERST  
HEALTH PERMITS**

1380

Received of Stanley F Gwale of 575 North East St  
Name Address

For Property Located at: 575 N. East St None  
Street Address Owner

- |  |       |  |       |
|--|-------|--|-------|
| HEA009 Bakery<br>R6510 443509                                | _____ | HEA016 Septic Tank Permit-Installers<br>R6510 443511     | _____ |
| HEA001 Bed & Breakfast<br>R6510 443516                       | _____ | HEA017 Septic Tank Permit-Private<br>R6510 443510        | _____ |
| HEA002 Catering License<br>R6510 443507                      | _____ | HEA018 Septic Tank Reinspection Fee<br>R6510 432301      | _____ |
| HEA003 Food Handler<br>R6510 443515                          | _____ | HEA019 Sub-Division Review Fee<br>R6510 432306           | _____ |
| HEA004 Frozen Deserts<br>R6510 443501                        | _____ | HEA012 Swimming Pool Permits<br>R6510 443512             | _____ |
| HEA005 Health Dept. Housing Isp.<br>R6510 432302             | _____ | HEA020 Tanning License<br>R6510 443509                   | _____ |
| HEA006 Massage Therapy License<br>R6510 443504               | _____ | HEA034 Immunization Clinic<br>R6510 432307               | _____ |
| HEA008 Motel License<br>R6510 443506                         | _____ | HEA026 Smoking & Tobacco Reg. Violations<br>R6510 443518 | _____ |
| HEA010 Removal of Offal<br>R6510 443513                      | _____ | HEA022 Tobacco License<br>R6510 443505                   | _____ |
| HEA021 Removal of Rubbish<br>R6510 443520                    | _____ | HEA042 Body Arts / Tatoo<br>R6510 443521                 | _____ |
| HEA011 Percolation Test Fees <u>① 175.00</u><br>R6510 432300 | _____ | HEA043 Food Service Plan Review<br>R6510 432308          | _____ |
| HEA013 Recreation Camp License<br>R6510 443503               | _____ | HEA044 Porta Potties<br>R6510 432309                     | _____ |
| HEA014 Retail Store Permit<br>R6510 443514                   | _____ | HEA045 Ice Rinks<br>R6510 443522                         | _____ |
| HEA015 Sanitary Code Booklets<br>R6510 432305                | _____ | HEA046 Rental Registration<br>R6510 432310               | _____ |
|  |       | HEA047 Fines<br>R6510 48200                              | _____ |
|  |       | HEA  | _____ |
|  |       | HEA  | _____ |

**TOTAL FEE:** 175.00

Stanley F Gwale  
Amherst Health Department

11/11/05  
Date

Must be Validated by the Collector's Office to be considered paid

**OFFICE USE ONLY**

<b>CHECK #</b>	<b>CASH</b>	T1146
ALSO CASH RECEIPTS		
<u>4349</u>	: 01/11/05 15:25	
Payment	: \$175.00	
Receipt #	: 145823	
Check/Credit Card #:	4349	

WHITE - Applicant

YELLOW - Collector

PINK - Accounting

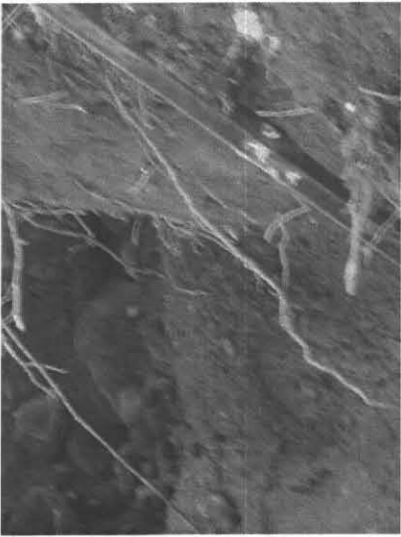
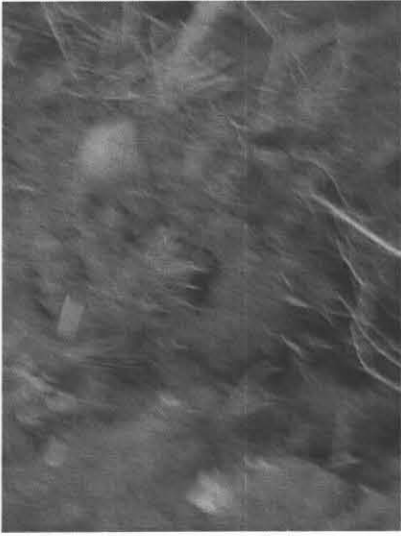
GOLD - Health / Inspections : STANLEY GWALE

QUALITY CONTROL REPORT  
FOR THE YEAR 2000

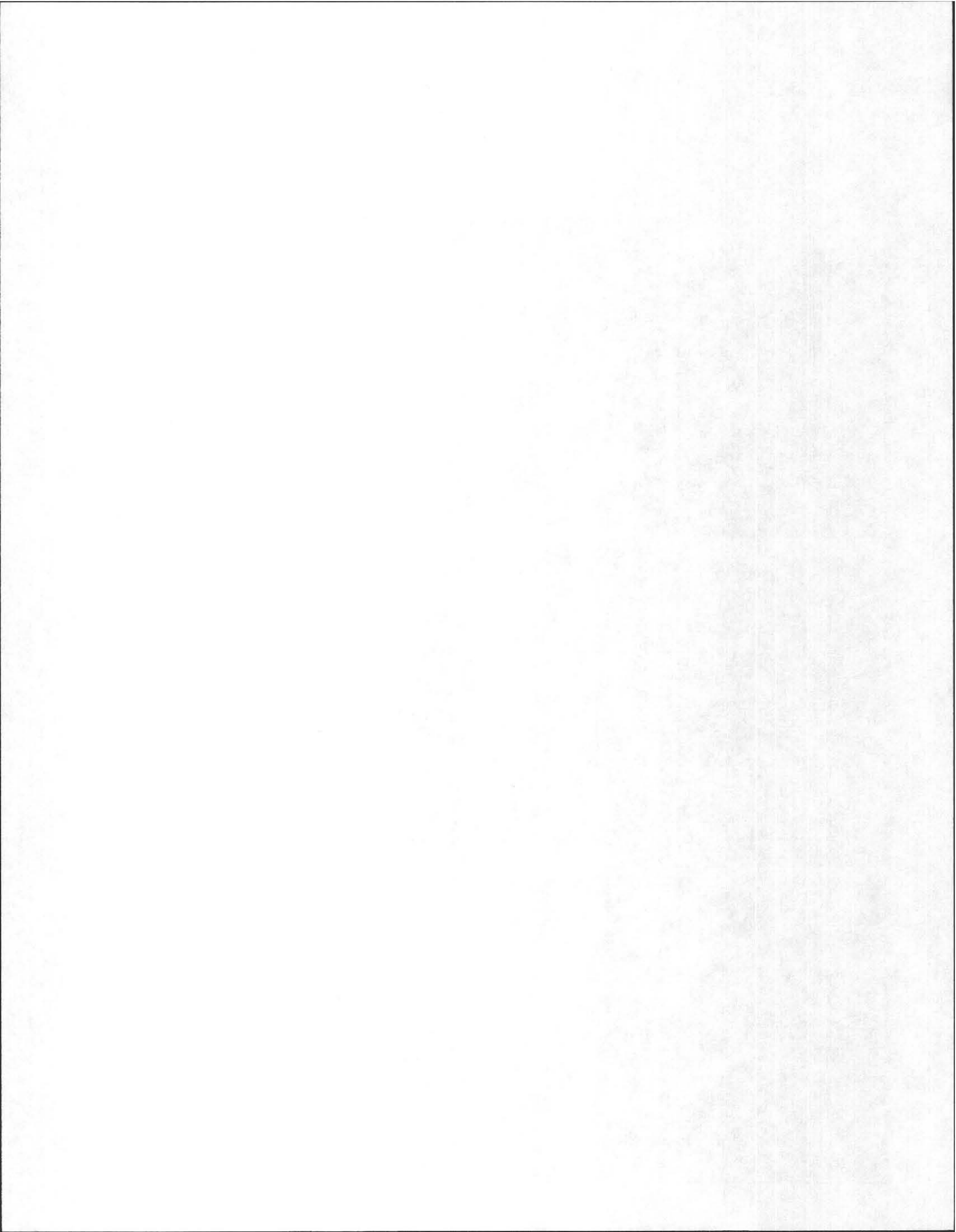
Product Name	Quantity Produced	Quantity Inspected	Defects Found	Defect Rate (%)	Remarks
Product A	1000	1000	5	0.5	Good quality
Product B	2000	2000	10	0.5	Good quality
Product C	1500	1500	8	0.53	Good quality
Product D	1200	1200	6	0.5	Good quality
Product E	800	800	4	0.5	Good quality
Product F	600	600	3	0.5	Good quality
Product G	400	400	2	0.5	Good quality
Product H	300	300	1.5	0.5	Good quality
Product I	200	200	1	0.5	Good quality
Product J	100	100	0.5	0.5	Good quality

Prepared by: [Name]  
Date: [Date]

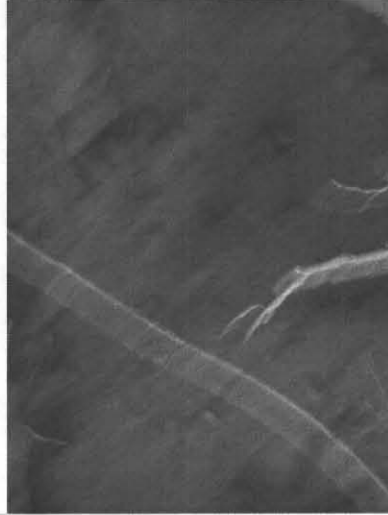
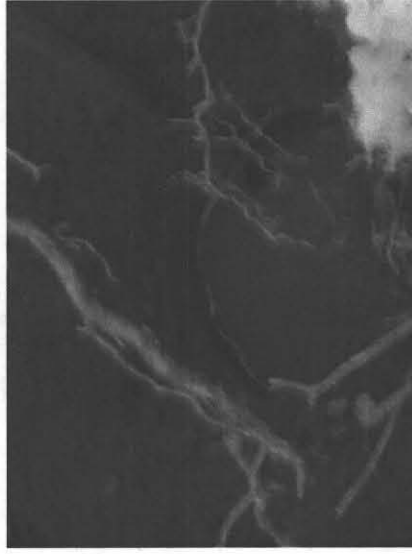
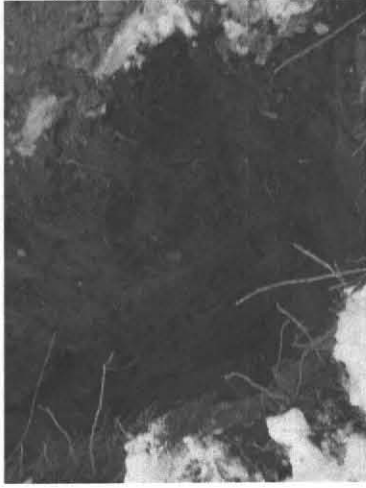




575 North East street  
Hole # 2





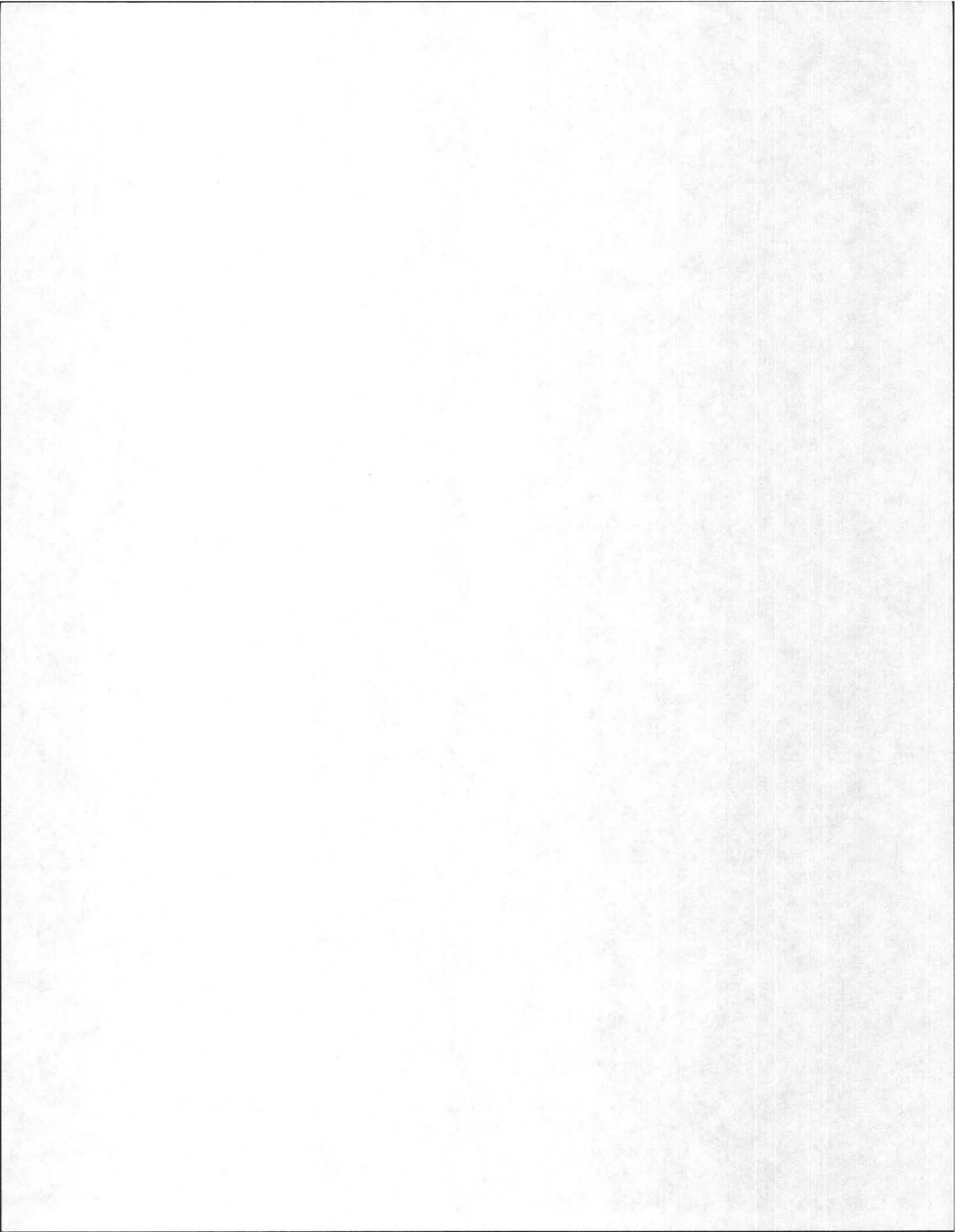


575 North East Street  
Hole #1









NO: \_\_\_\_\_

Commonwealth of Massachusetts

Town of AmherstSoil Suitability Assessment : On-Site Sewage DisposalPerformed By: Berkshire Design Group Inc  
MART DURSO Date: 11/11/05Witnessed By: DAVID ZAROZINSKI  
582-7000

Location Address of:

Lot # 575 North East St

Owner's Name:

Address of:

Telephone:

Stanley + Dorothy  
Gawke575 N. EAST STNew Construction  Repair Office ReviewPublished Soil Survey Available? No  Yes   
Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_ Soil Map Unit \_\_\_\_\_  
Drainage Class \_\_\_\_\_ Soil Limitations \_\_\_\_\_Surficial Geologic Report Available? No  Yes   
Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_  
Geologic Material (map unit) \_\_\_\_\_  
Landform \_\_\_\_\_

## Flood Insurance Rate Map:

Above 500 year flood boundary? No  Yes   
Within 500 year flood boundary? No  Yes   
Within 100 year flood boundary? No  Yes 

## Welland Area:

National Welland Inventory Map (map unit) \_\_\_\_\_

Wellands Conservancy Program Map (map unit) \_\_\_\_\_

Current Water Resource Conditions (USGS): month \_\_\_\_\_

Range: Above Normal  Normal  Below Normal 

Other Reference Reviewed:

Determination: Seasonal High Water TableMethods Used:

- 
- Depth observed standing in observation hole \_\_\_\_\_ inches
- 
- 
- Depth weeping from side of observation hole \_\_\_\_\_ inches
- 
- 
- Depth to soil mottles \_\_\_\_\_ inches
- 
- 
- Ground water adjustment \_\_\_\_\_ feet

Index Well No. \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_  
Adjustment factor \_\_\_\_\_ Adjusted ground water level \_\_\_\_\_Depth of Naturally Occurring Previous Material

Does at least four feet of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? \_\_\_\_\_

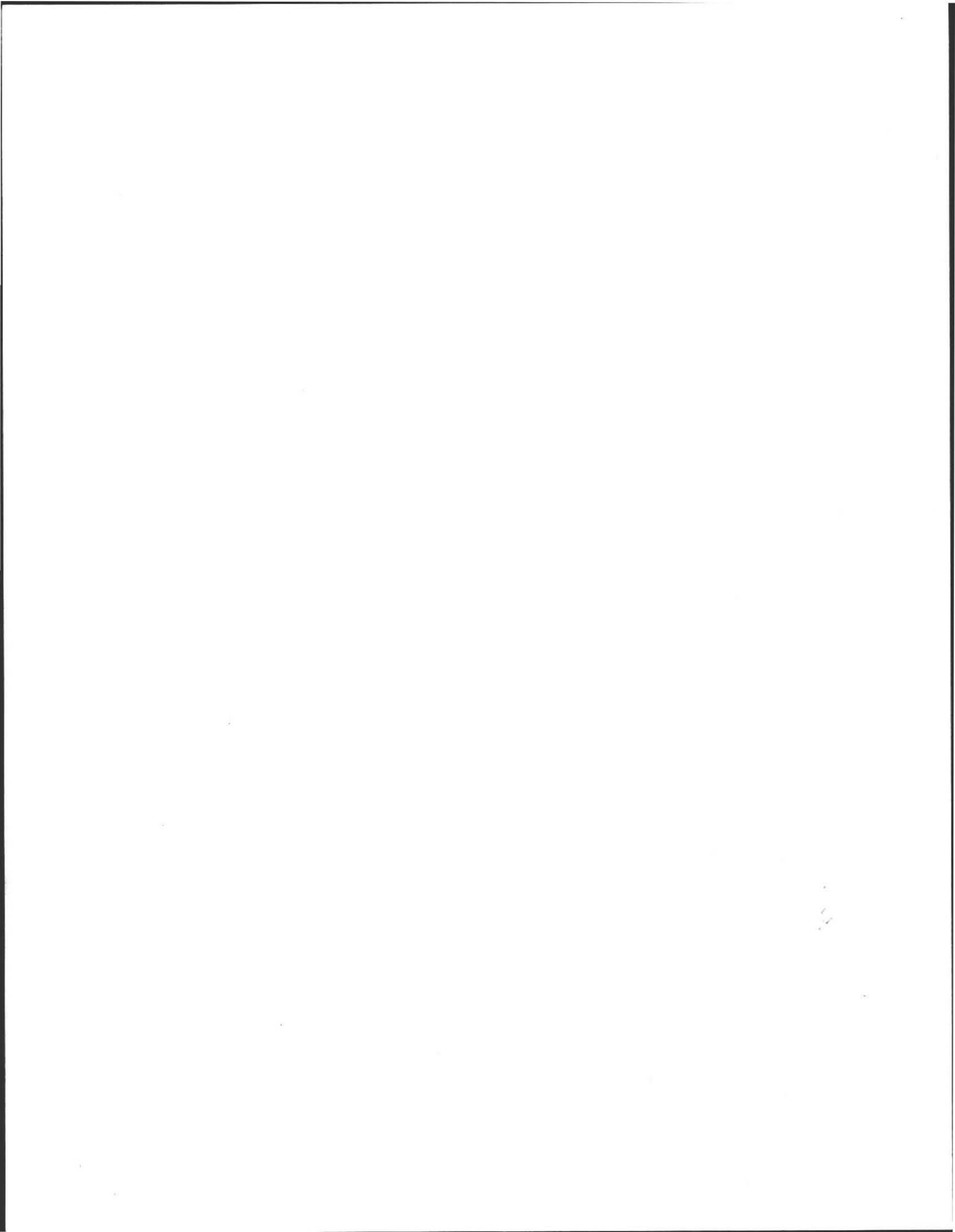
If not, what is the depth of naturally occurring previous material?  
\_\_\_\_\_Certification

I certify that on \_\_\_\_\_ (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017.

Signature \_\_\_\_\_

Date \_\_\_\_\_

Pg- 11/11/05  
CK #  
432/9  
17500  
FOR PAID  
TEST





Stanley Gwale

CH# 4349  
P# 175 Para Test  
1/1/04

On-Site Review

Deep Hole Number ① Date: 11/11/05 Time \_\_\_\_\_  
Weather cloudy Cool 30°+  
Location (identify on site plan) \_\_\_\_\_  
Land Use \_\_\_\_\_ Slope (%) \_\_\_\_\_  
Surface Stone \_\_\_\_\_  
Vegetation: \_\_\_\_\_

Landform: \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body \_\_\_\_\_ feet      Drainageway \_\_\_\_\_ feet  
Possible Wet Ares \_\_\_\_\_ feet      Property Line \_\_\_\_\_ feet  
Drinking Water Well \_\_\_\_\_ feet      Other \_\_\_\_\_

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel

Parent Material (geologic) \_\_\_\_\_

Depth to Bedrock \_\_\_\_\_

Depth to Groundwater :

Standing Water in the Hole \_\_\_\_\_

Weeping from Pit Face \_\_\_\_\_

Estimated Seasonal High Water \_\_\_\_\_

On-Site Review

Deep Hole Number ② Date: 1/1/05 Time \_\_\_\_\_  
Weather cloudy Cool 30°+  
Location (identify on site plan) \_\_\_\_\_  
Land Use \_\_\_\_\_ Slope (%) \_\_\_\_\_  
Surface Stone \_\_\_\_\_  
Vegetation: \_\_\_\_\_

Landform: \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body \_\_\_\_\_ feet      Drainageway \_\_\_\_\_ feet  
Possible Wet Ares \_\_\_\_\_ feet      Property Line \_\_\_\_\_ feet  
Drinking Water Well \_\_\_\_\_ feet      Other \_\_\_\_\_

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel

Parent Material (geologic) \_\_\_\_\_

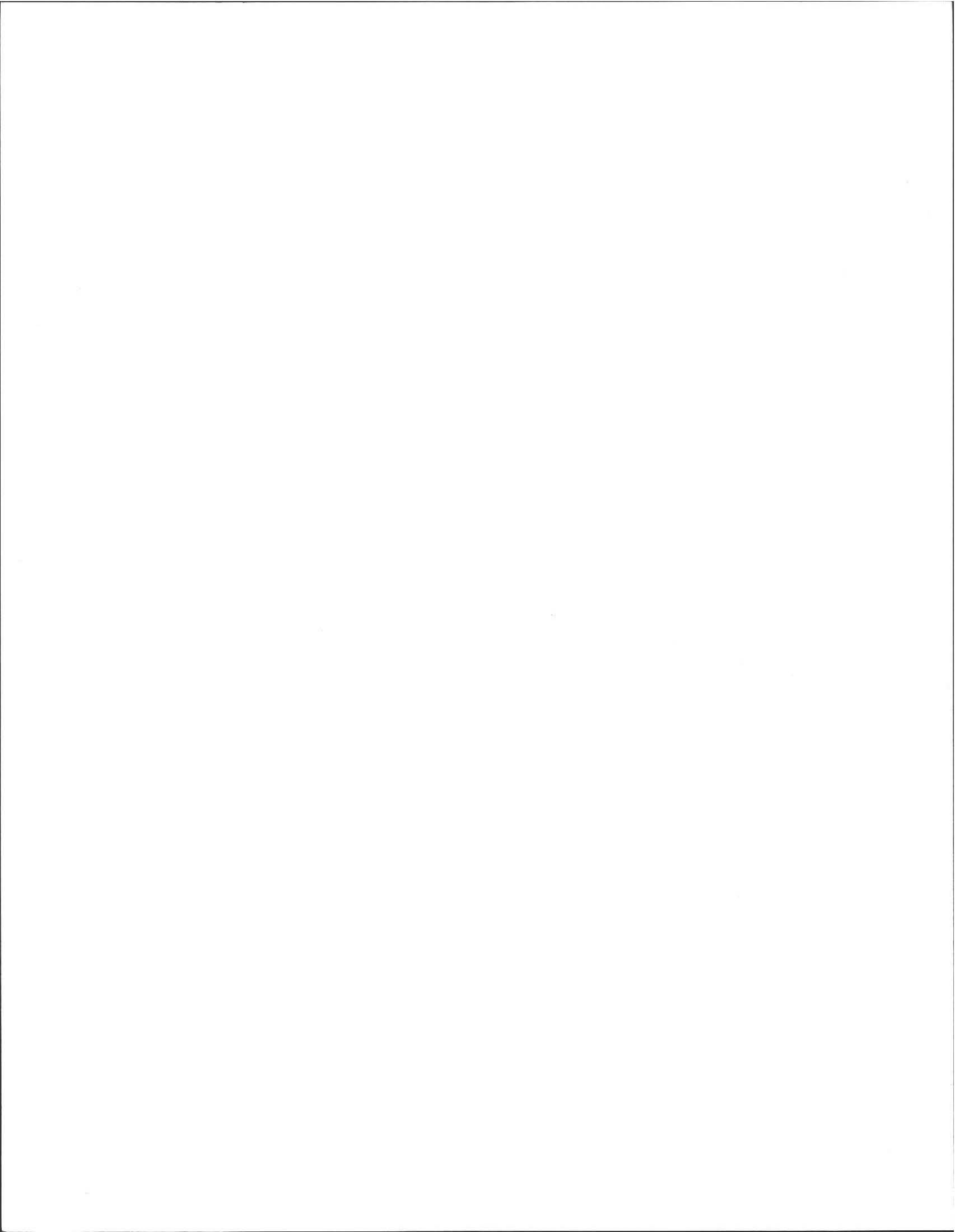
Depth to Bedrock \_\_\_\_\_

Depth to Groundwater :

Standing Water in the Hole \_\_\_\_\_

Weeping from Pit Face \_\_\_\_\_

Estimated Seasonal High Water \_\_\_\_\_



Smiley Gwale

FORM 12: Percolation Test

Location Address or Lot # 575 H. EAST ST

Commonwealth of Massachusetts

Town of Amherst

PERCOLATION TEST *		
DATE: <u>1/11/05</u>		TIME:
Observation Hole #		
Depth of Perc		
Start Pre-soak		
End Pre-soak		
Time at 12"		
Time at 9"		
Time at 6"		
Time (9"-6")		
Rate Min./Inch		

\*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed

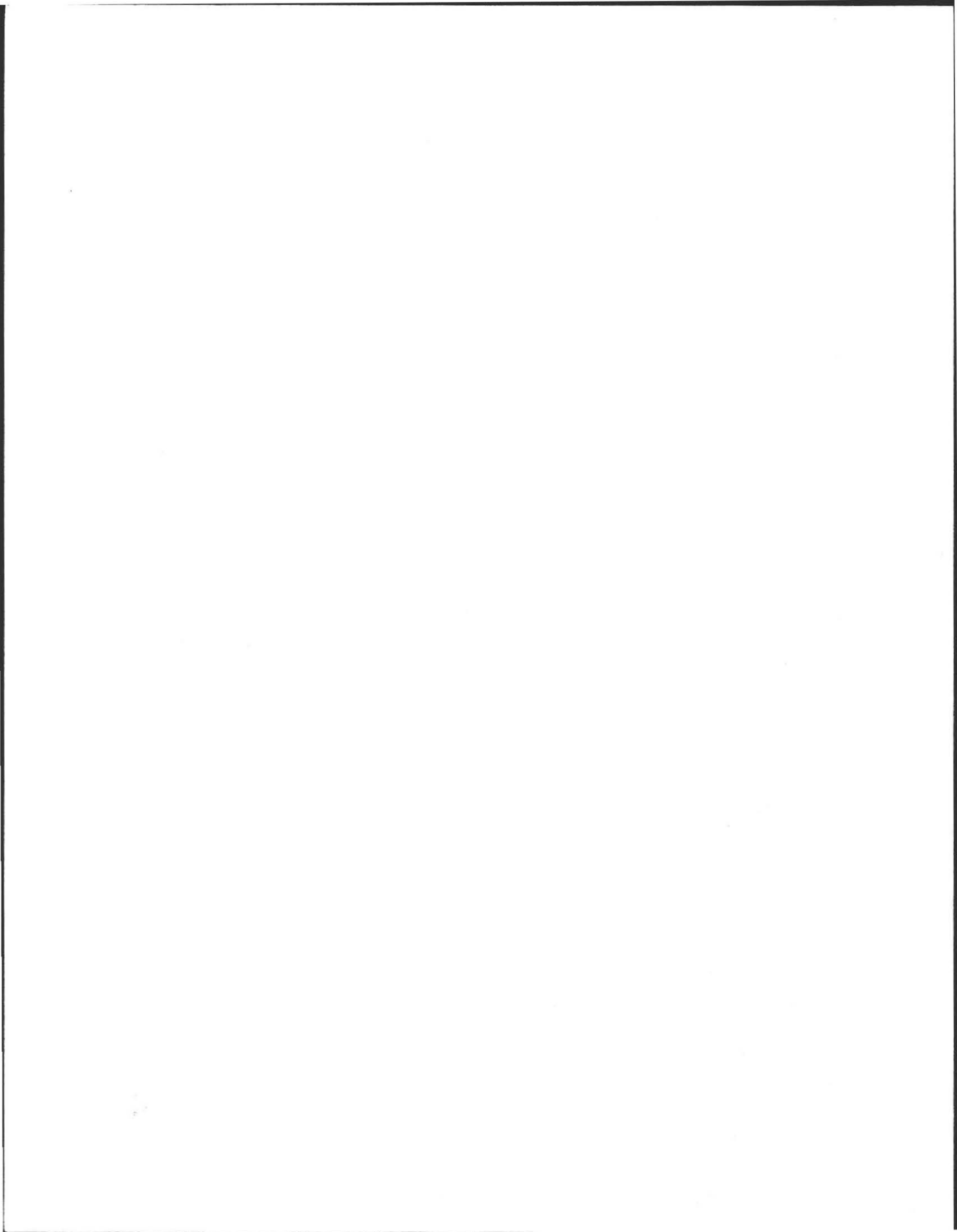
Site failed

Performed by \_\_\_\_\_

Witnessed by \_\_\_\_\_

Comments:







The  
Berkshire  
Design  
Group, Inc.

### Fax Transmittal

Landscape Architecture  
Civil Engineering  
Planning  
Urban Design  
Environmental Services

To: DAVE ZAKOZINSKI  
AMHERST HEALTH DEPARTMENT

From: MARC D'URSO

Date: 1-10-05

Re: GAWLE RESIDENCE PERC.  
LOCUS MAP

Pages to Follow: 1

Remarks

DATE OF PERCS 1-11-05  
TUESDAY

575 NORTH EAST ST.  
BRICK FARM HOUSE

WE'LL BE UP ON THE KNOLL - NORTH EAST OF HOUSE

MOBILE PH # 695-1796

BLUE SUBARU OUTBACK

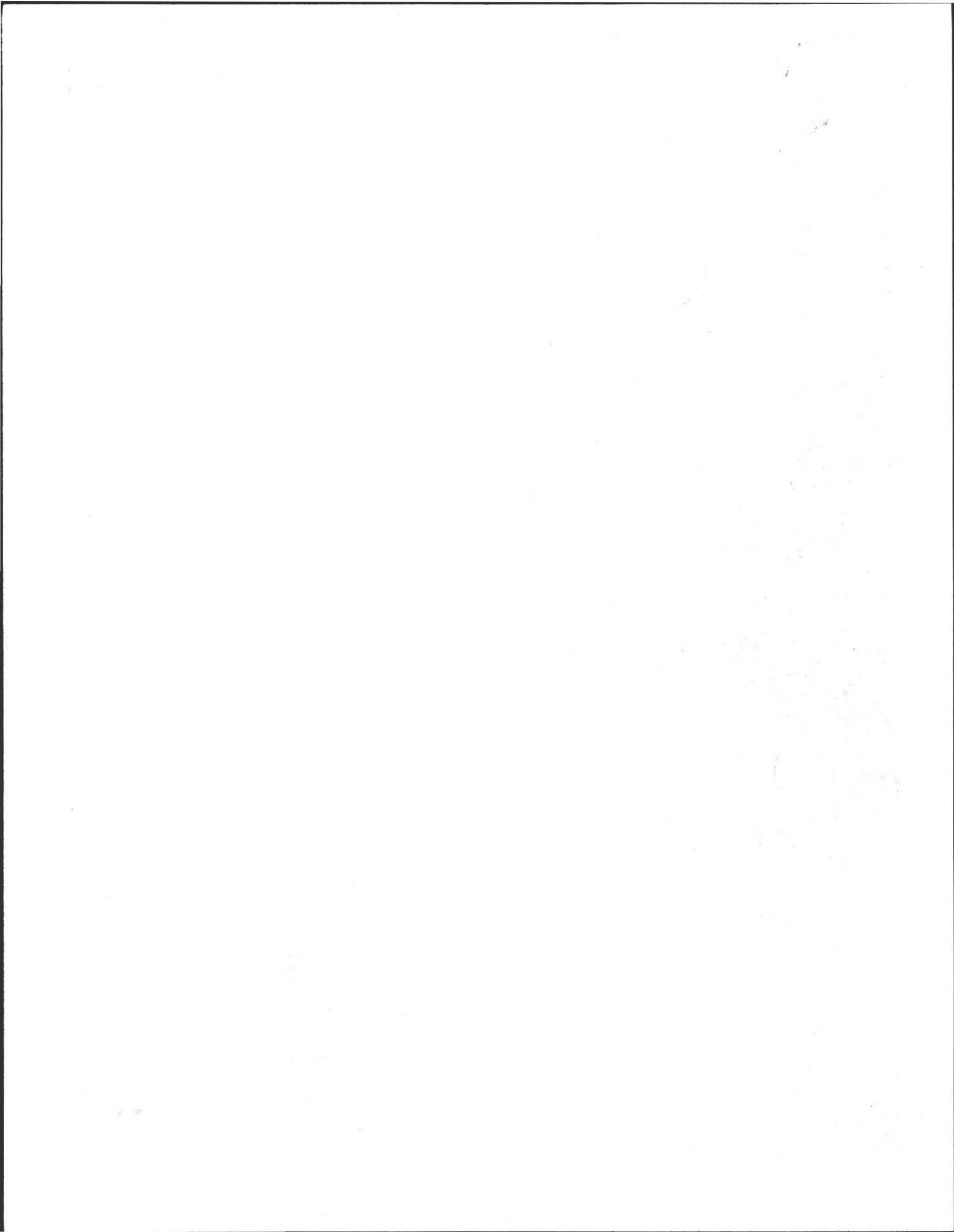
WE'RE STARTING AT 7:30am.

SHOULD BE READY BY 9:30am.

CALL W/ QUESTIONS

THANKS, MARC

*If any portion of this transmission is illegible or in question, please  
call our office at (413) 582-7000. Our fax number is (413) 582-7005.*



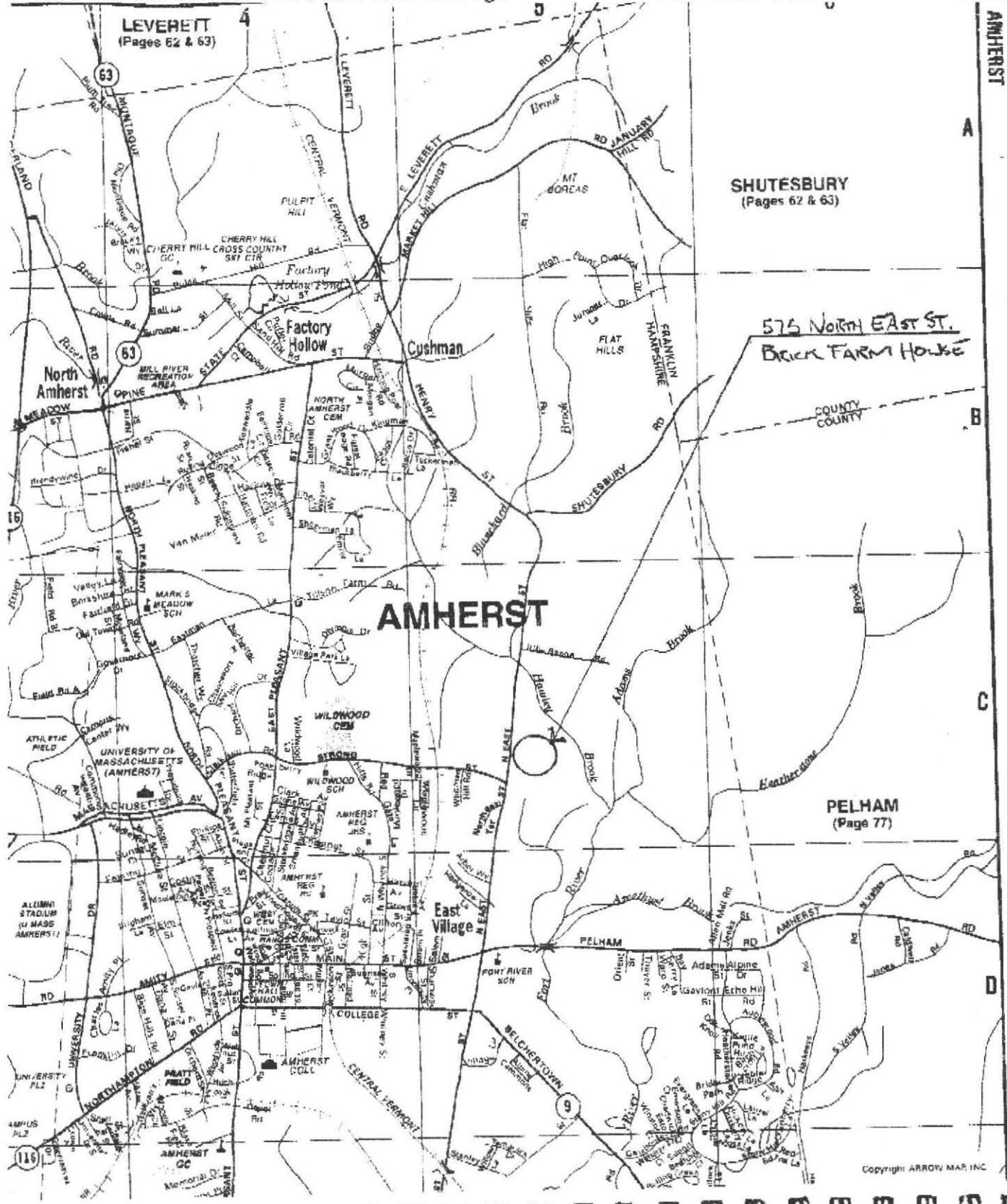
LEVERETT  
(Pages 62 & 63)

SHUTESBURY  
(Pages 62 & 63)

PELHAM  
(Page 77)

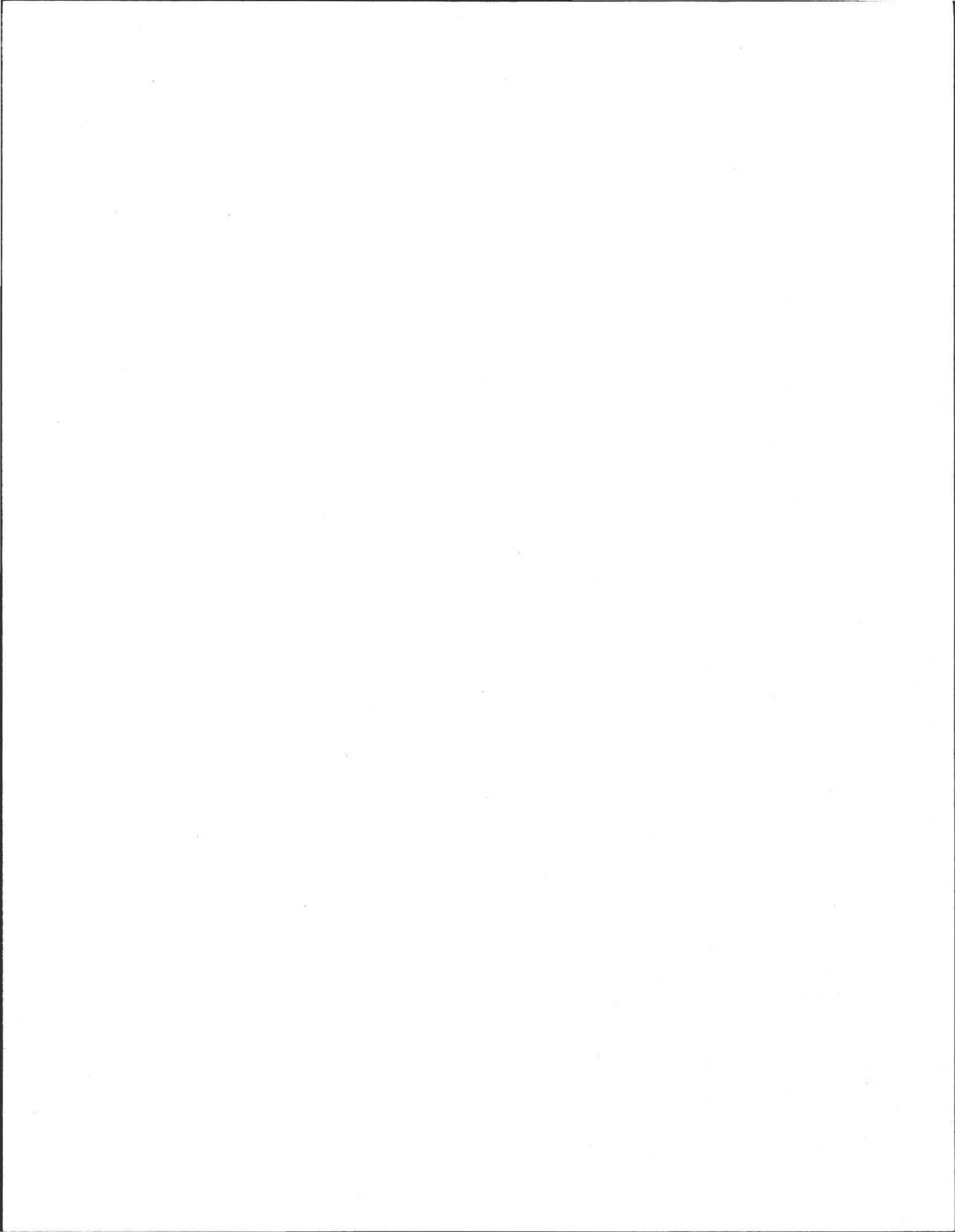
# AMHERST

575 North East St.  
Brick Farm House



AMHERST







# Letter of Transmittal

*To:* Stanley Gawle  
575 Northeast Street  
Amherst, MA 01002

*Project:* Gawle Residence  
Soil Suitability Assessment

*Date:* 1/31/2005

<i>Copies</i>	<i>Date</i>	<i>Description</i>
1	1/11/2005	Perc Logs and Data

*For your:*

- Information*
- Review & Comment*
- Approval*
- As Requested*

Enclosed is the signed original of the Soil Suitability Assessment (Perc Tests) for your use. A copy has been forwarded to the Amherst Health Department for their records.

*Landscape Architecture*

*Civil Engineering*

*Planning*

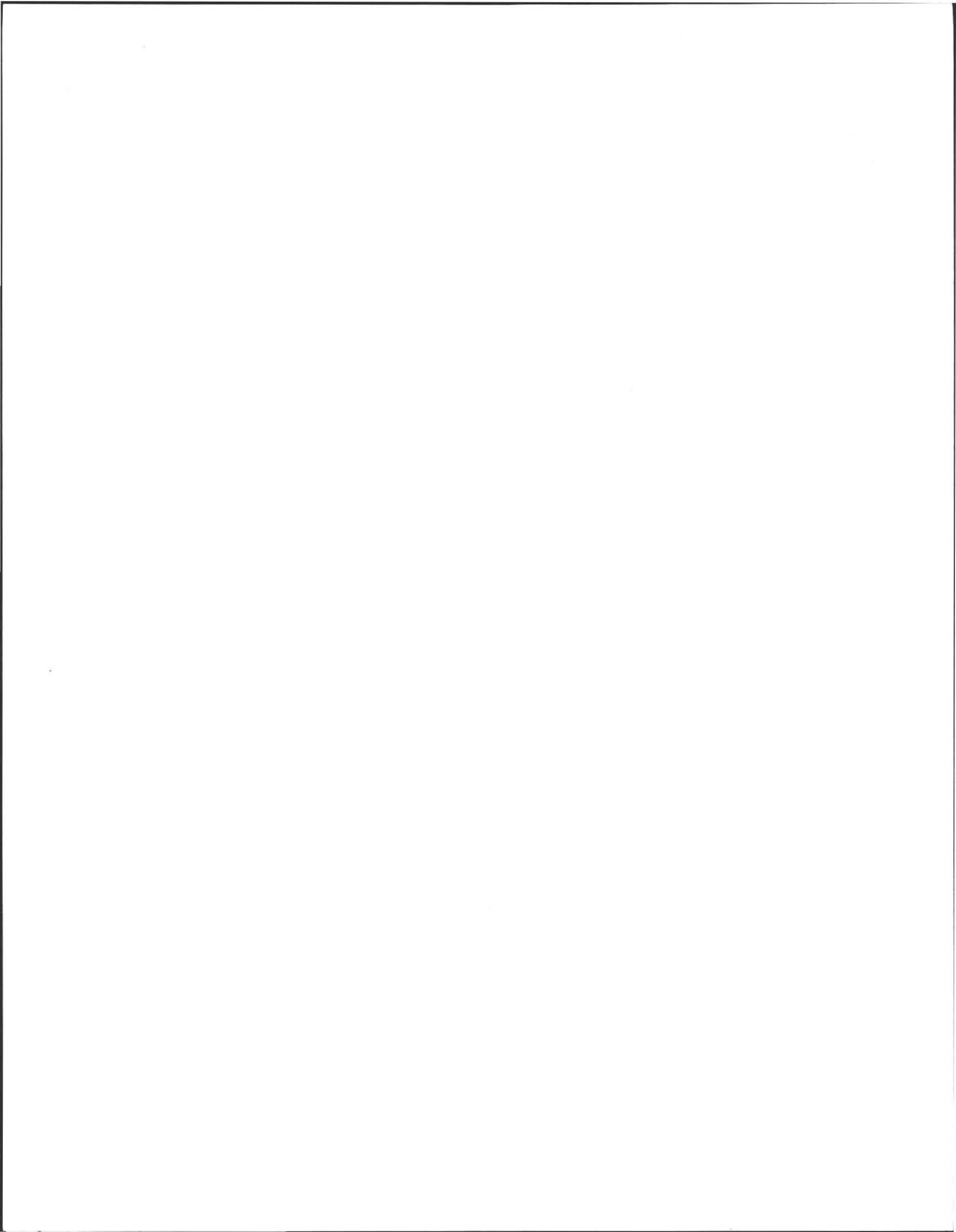
*Urban Design*

*Environmental Services*

Please feel free to call should you have any questions.

cc:David Zarozinski, Amherst Health Dept. ✓  
File

*Signed* Marc S. D'Urso  
Marc S. D'Urso



No. \_\_\_\_\_

Date: 01/11/05

Commonwealth of Massachusetts  
**Amherst, Massachusetts**

**Soil Suitability Assessment for On-site Sewage Disposal**

Performed By: Marc D'Urso, P.E., C.S.E. Date: 01/11/05

Witnessed By: David Zarozinski, Amherst Health Department

Location Address or Lot # <u>575 Northeast Street (Tract 1, Bk:957, Pg:421)</u> <u>Amherst, MA</u> New Construction <input checked="" type="checkbox"/> Repair <input type="checkbox"/>	Owner's Name, Address, and Telephone # <u>Stanley Gawle</u> <u>575 Northeast Street</u> <u>Amherst, MA</u> <u>413 253-2695</u>
--	--

**Office Review**

Published Soil Survey Available: No  Yes

Year Published 1981 Publication Scale 1:15,840 Soil Map Unit HgB

Drainage Class A Soil Limitations Severe: poor filter

Surficial Geologic Report Available: No  Yes

Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_

Geologic Material (Map Unit) \_\_\_\_\_

Landform Kame

Flood Insurance Rate Map: 2501560005C

Above 500 year flood boundary No  Yes

Within 500 year flood boundary No  Yes

Within 100 year flood boundary No  Yes

Wetland Area:

National Wetland Inventory Map (map unit) \_\_\_\_\_

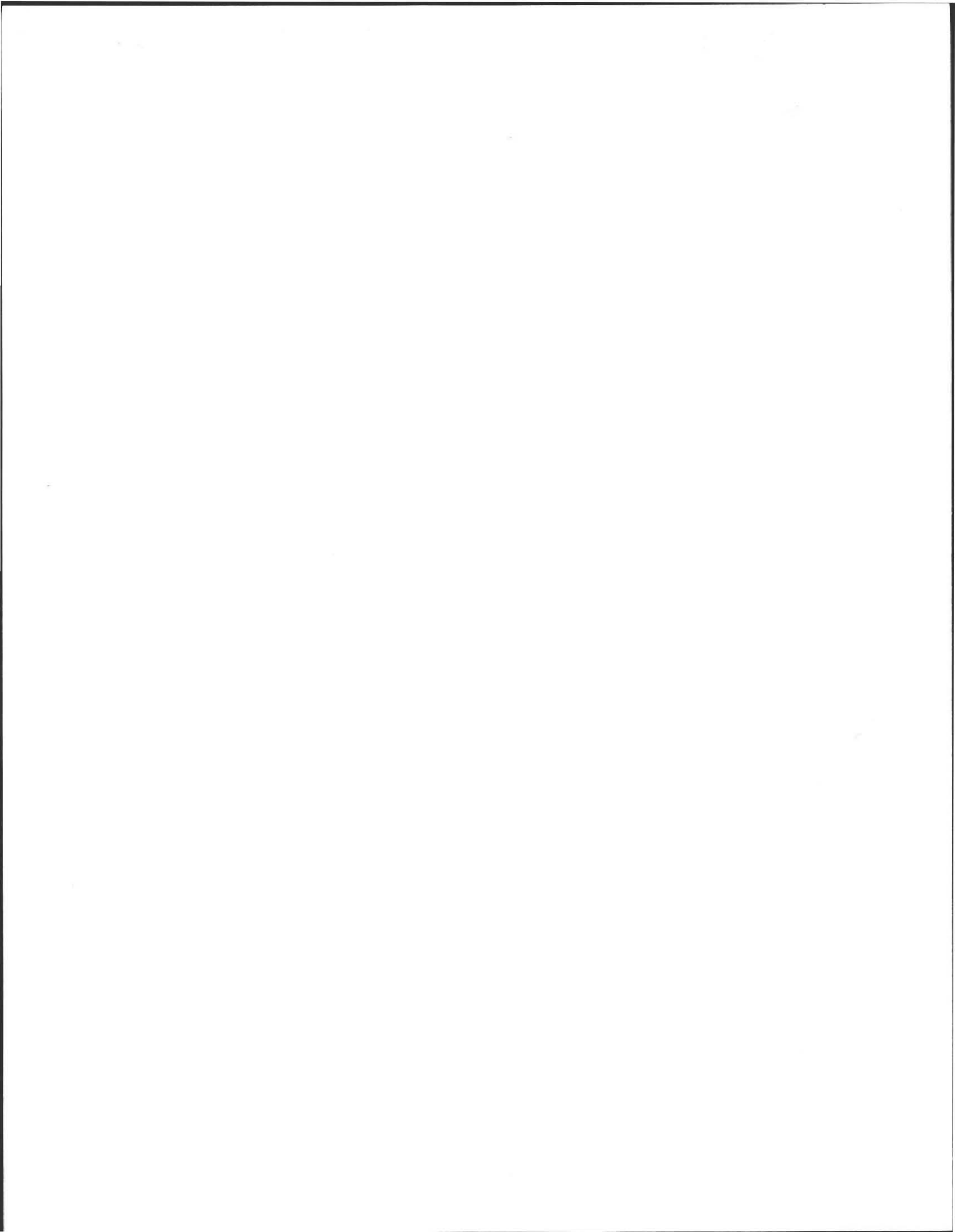
Wetland Conservancy Program Map (map unit) \_\_\_\_\_

Current Water Resource Condition (USGS): Month December 2004

Range: Above Normal  Normal  Below Normal

Other References Reviewed: \_\_\_\_\_





Location Address or Lot No. Northeast Street, Amherst (Gawle Residence)On-site ReviewDeep Hole Number #1 Date: 01/11/05 Time: 10:00am Weather P-Cloudy 30FLocation (identify on site plan) See Site SketchLand Use Wooded Slope (%) 10% see plan Surface Stones None Obs.Vegetation Pine trees with some undergrowthLandform Kame

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body	<u>&gt; 100</u>	Feet	Drainage way	<u>&gt; 100</u>	Feet
Possible Wet Area	<u>&gt;100</u>	Feet	Property Line	<u>&gt; 50</u>	Feet
Drinking Water Well	<u>&gt;100</u>	Feet	Other	<u>See Sketches</u>	

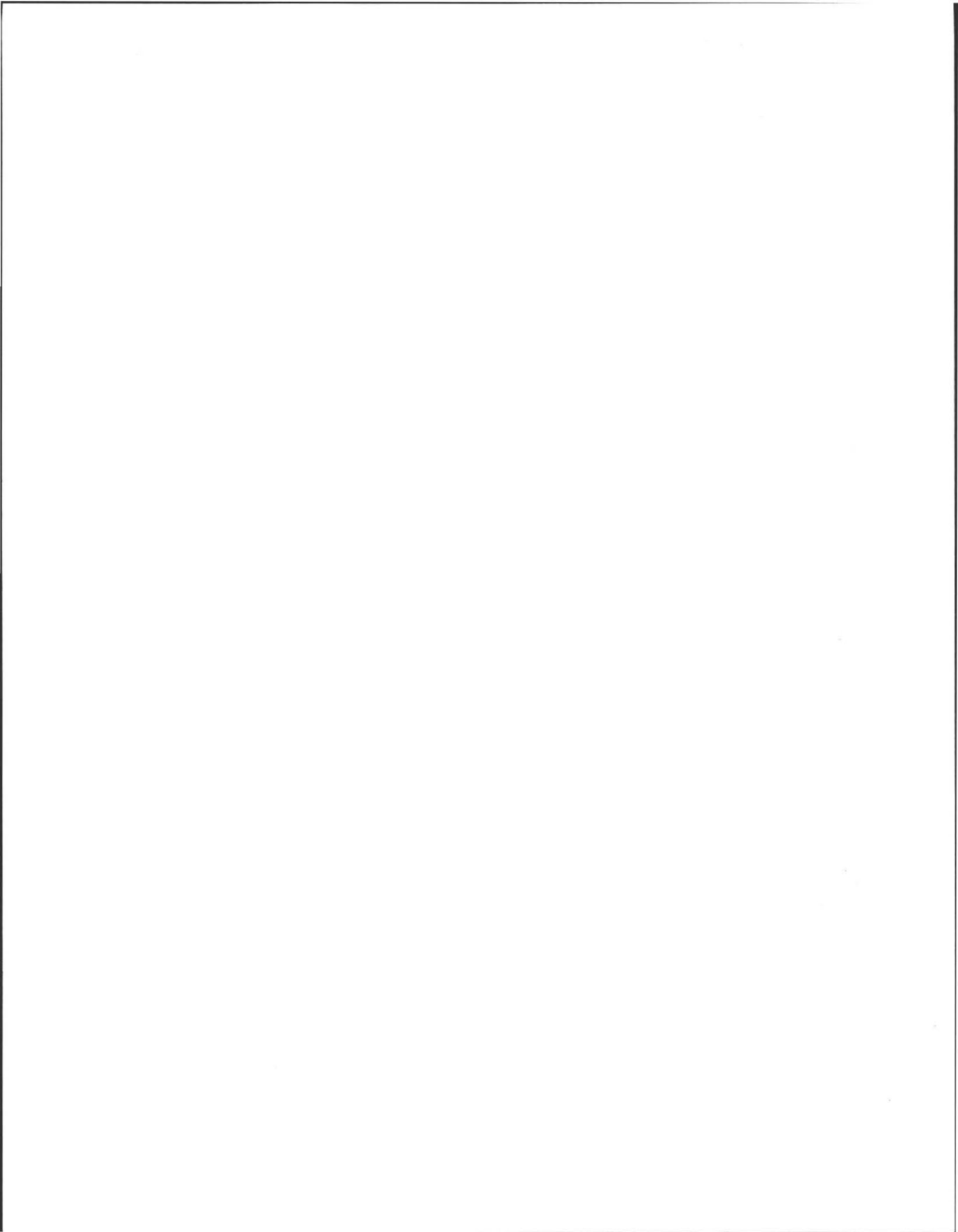
## DEEP OBSERVATION HOLE LOG \*

Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	A	SL	10YR3/3	n/o	Forest mat, many roots, massive, friable, some gravel & cobbles
6"-24"	B <sub>w</sub>	SL	10YR5/8	n/o	Massive, friable, 40% gravel & cobbles, roots
24"-64"	C <sub>1</sub>	Fine-Med Sand	7.5YR5/8 & 10YR5/8	n/o	loose and somewhat massive (mixed), 45% gravel & cobbles (sub-angular), some silt, roots down to 36", depth of interface between C1 & C2 varies
64"-120"	C <sub>2</sub>	Very Fine Sand	2.5Y5/3		Massive, friable, stratified bands of reddish (10YR5/8) fine sand throughout, few cobbles or gravel

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Ice Contact Outwash Depth to Bedrock: >120"Depth to Groundwater: Standing Water in the Hole: n/o Weeping from Pit Face: n/oEstimated Seasonal High Ground Water: >120"

DEP APPROVED FORM - 12/07/95



Location Address or Lot No. Northeast Street, Amherst (Gawle Residence)On-site ReviewDeep Hole Number       #2       Date: 01/11/05 Time: 11:00am Weather P-Cloudy 30FLocation (identify on site plan) See Site SketchLand Use Wooded Slope (%) 10% see plan Surface Stones None Obs.Vegetation Pine trees with some undergrowthLandform Kame

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body	<u>&gt; 100</u>	Feet	Drainage way	<u>&gt; 100</u>	Feet
Possible Wet Area	<u>&gt;100</u>	Feet	Property Line	<u>&gt; 70</u>	Feet
Drinking Water Well	<u>&gt;100</u>	Feet	Other	<u>See Sketches</u>	

## DEEP OBSERVATION HOLE LOG \*

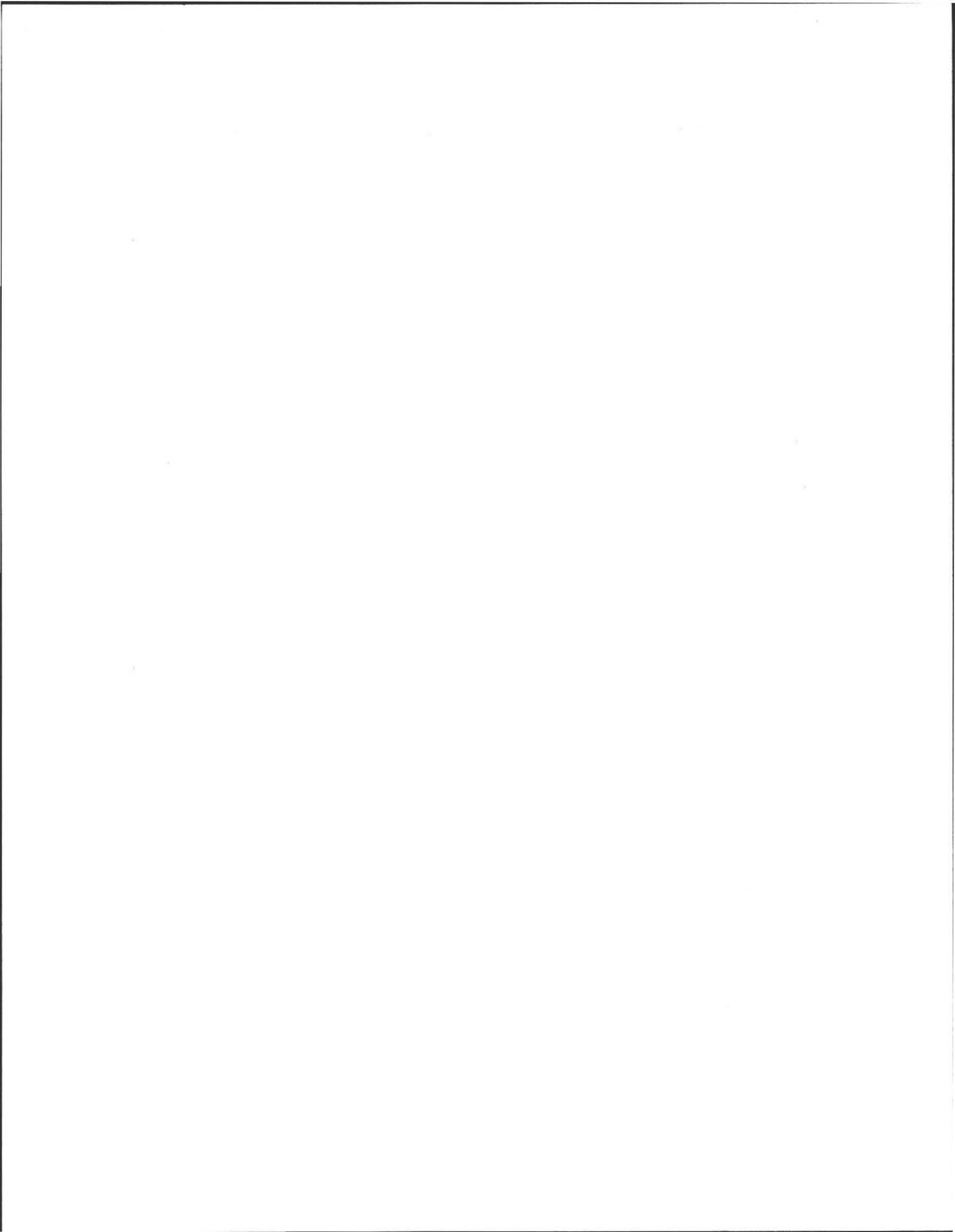
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-4"	A	SL	10YR3/3	n/o	Forest mat, many roots, massive, friable, some gravel & cobbles
4"-31"	B <sub>w</sub>	SL	10YR5/8	n/o	Massive, friable, 40% gravel & cobbles, roots
31"-61"	C <sub>1</sub>	Fine-Med Sand	7.5YR5/8 & 10YR5/8	n/o	loose and somewhat massive (mixed), 45% gravel & cobbles (sub-angular), some silt, roots down to 36"
61"-115"	C <sub>2</sub>	Very Fine Sand	2.5Y5/3		Massive, friable, stratified bands of reddish (10YR5/8) fine sand throughout, few cobbles or gravel, some stones below 88"

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Ice Contact Outwash Depth to Bedrock: >115"Depth to Groundwater: Standing Water in the Hole: n/o Weeping from Pit Face: n/oEstimated Seasonal High Ground Water: >115"

DEP APPROVED FORM - 12/07/95





## Determination for Seasonal High Water Table

Method Used:

- Depth observed standing in observation hole \_\_\_\_\_ inches.  
 Depth weeping from side of observation hole \_\_\_\_\_ inches.  
 Depth to soil mottles n/o-See Logs inches.  
 Ground water adjustment \_\_\_\_\_ feet.

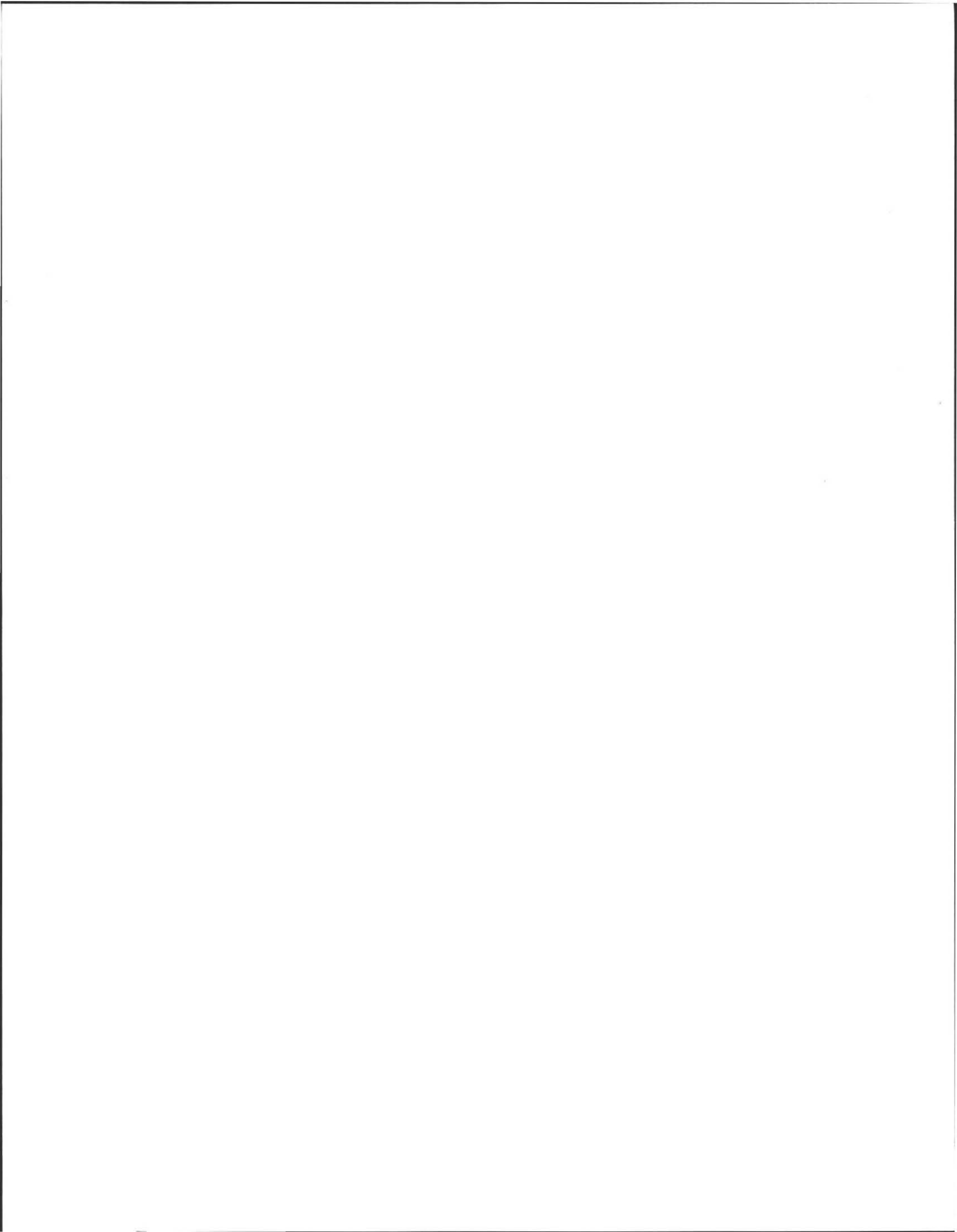
Index Well Number \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_  
 Adjustment Factor \_\_\_\_\_ Adjusted Ground Water Level \_\_\_\_\_

Percolation Test						
Date: <u>01/11/05</u>			Time: <u>See Below</u>			
Observation Hole #	1	2				
Depth of Perc	84"	65"				
Start Pre-Soak	11:53	12:35				
End Pre-Soak	12:08	12:50				
Time at 12"	12:08	12:50				
Time at 9"	12:16	12:52				
Time at 6"	12:29	12:57				
Time (9"-6")	13	5				
Rate Min. / Inch	<b>4.33</b>	<b>&lt; 2</b>				

Site Suitability Assessment: Site Passed  Site Failed   
 Additional Testing Needed: \_\_\_\_\_  
 Performed By: Marc D'Urso Certification Number: 45858 (PE)  
 Witnessed By: David Zarozinski, Amherst Health Department

Comments:

1. Reddish bands in C2 horizon appear to be the result textural variations in the parent material and not redox features due to groundwater.
2. Test Pit locations have been field surveyed by Harold Eaton Associates, Hadley, MA.



Location Address or Lot No. Northeast Street, Amherst (Gawle Residence)

**Detrmination for Seasonal High water Table**

Method Used:

- Depth observation Standing in observation hole \_\_\_\_\_ inches
- Depth weeping from side observation hole \_\_\_\_\_ inches
- Depth to soil mottles See Logs inches
- Ground water adjustment \_\_\_\_\_ feet

Index Well Number \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_  
 Adjustment Factor \_\_\_\_\_ Adjusted ground water level \_\_\_\_\_

Depth of Naturally Occurring Pervious Material:

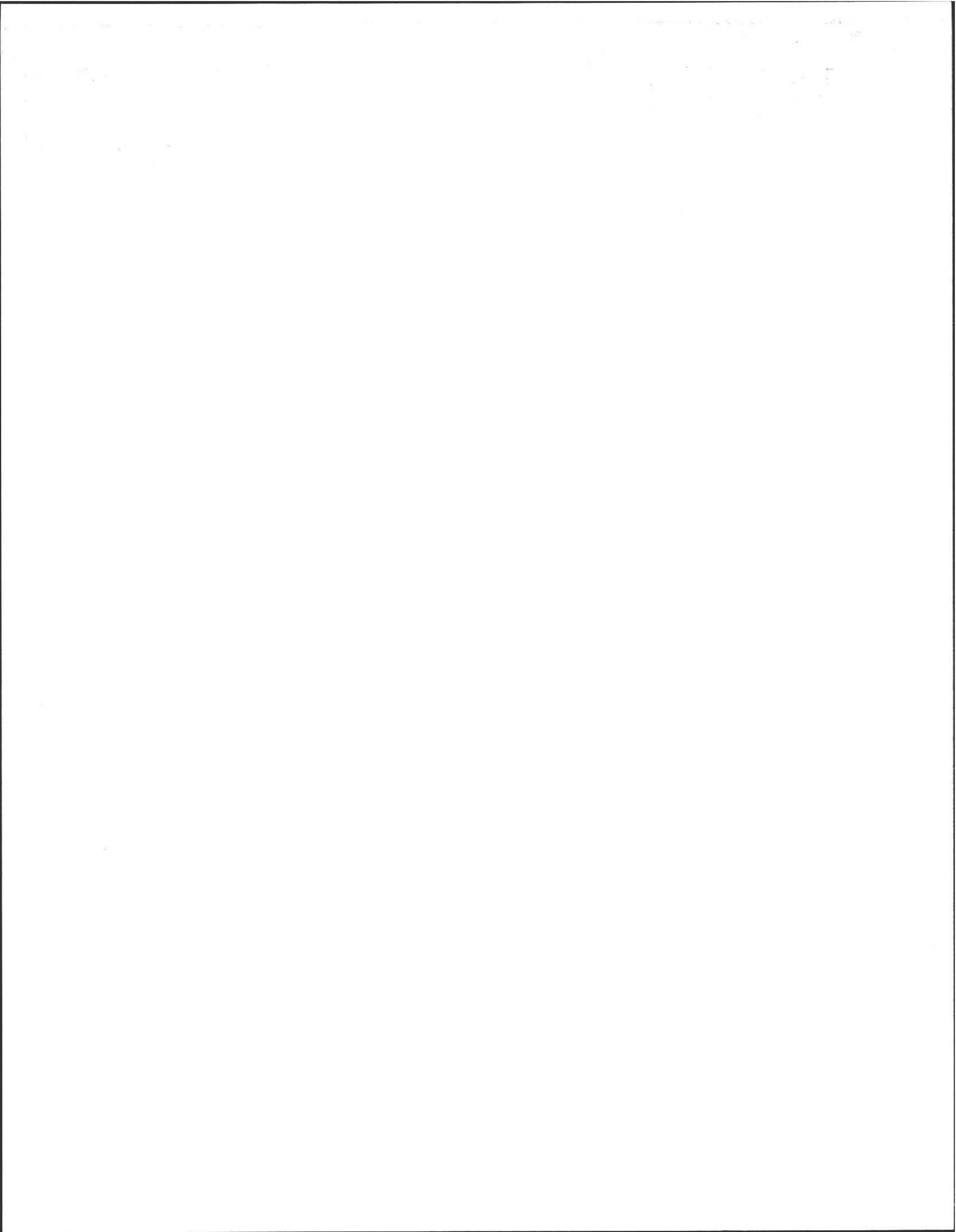
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? Yes

If not, what is the depth of naturally occurring pervious material? \_\_\_\_\_

Certification:

I certify that on Spring 1998 I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature W. S. DiRusso Date 1-11-05

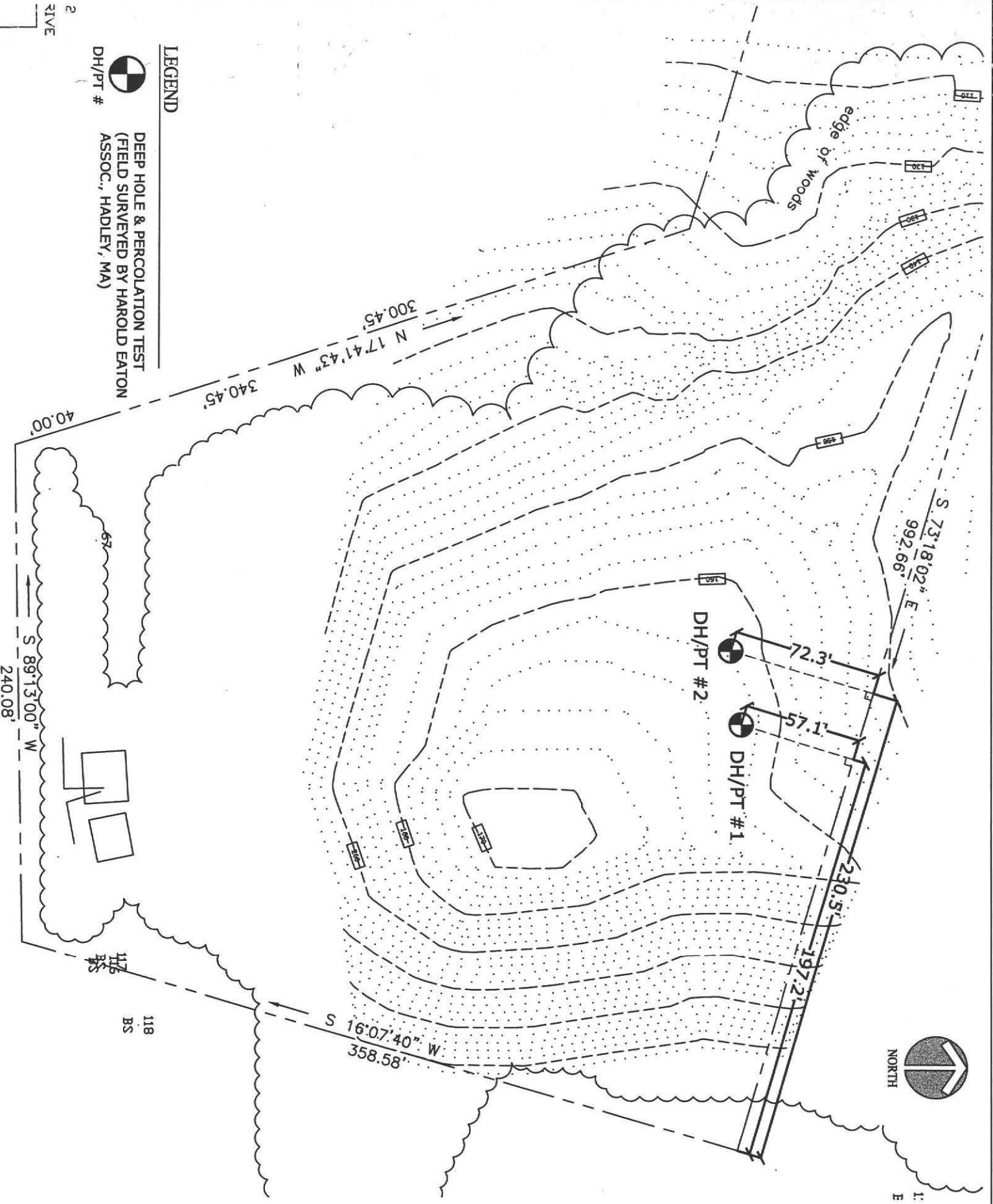





2  
RIVE

  
DH/PT #  
DEEP HOLE & PERCOLATION TEST  
(FIELD SURVEYED BY HAROLD EATON  
ASSOC., HADLEY, MA)

LEGEND

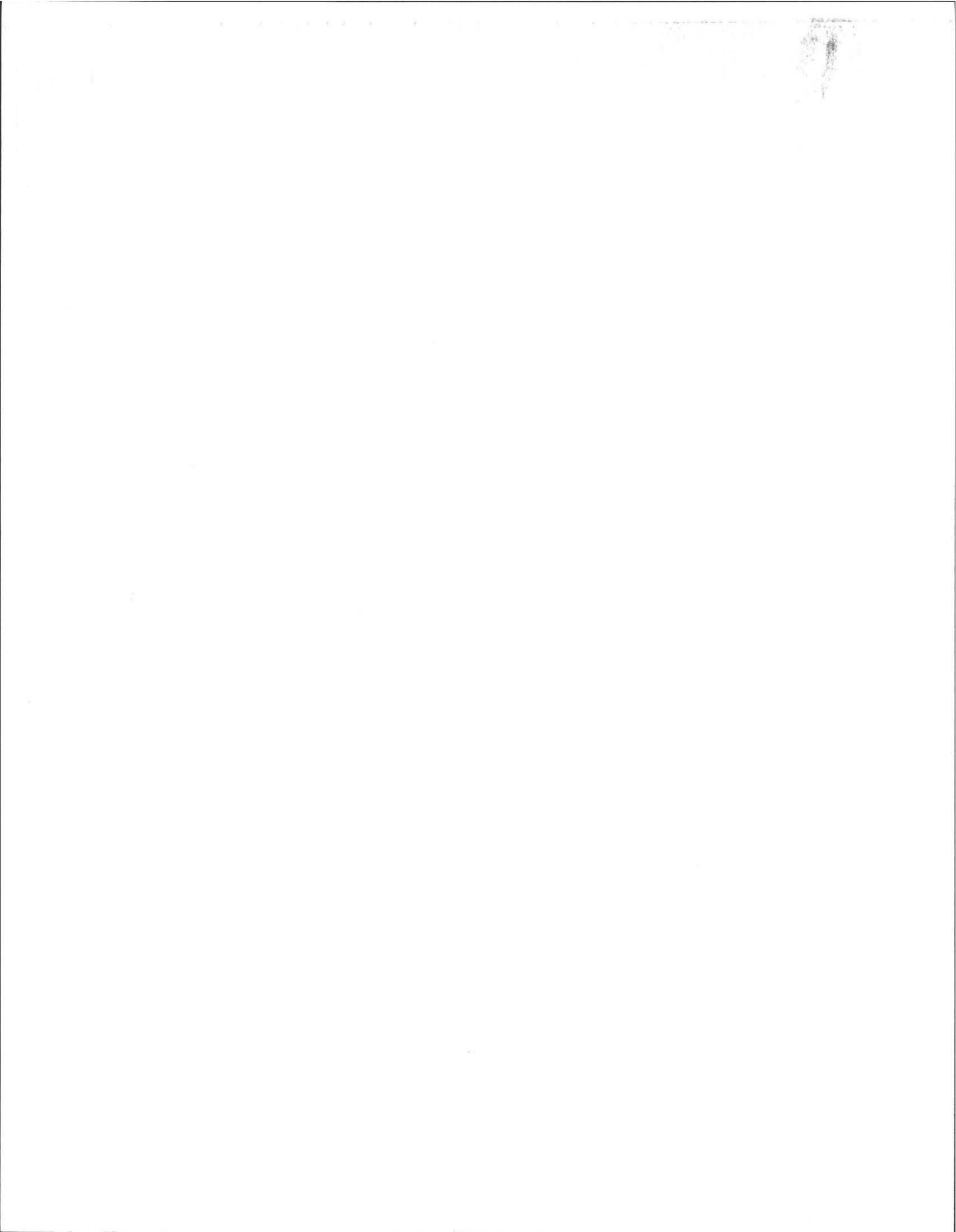


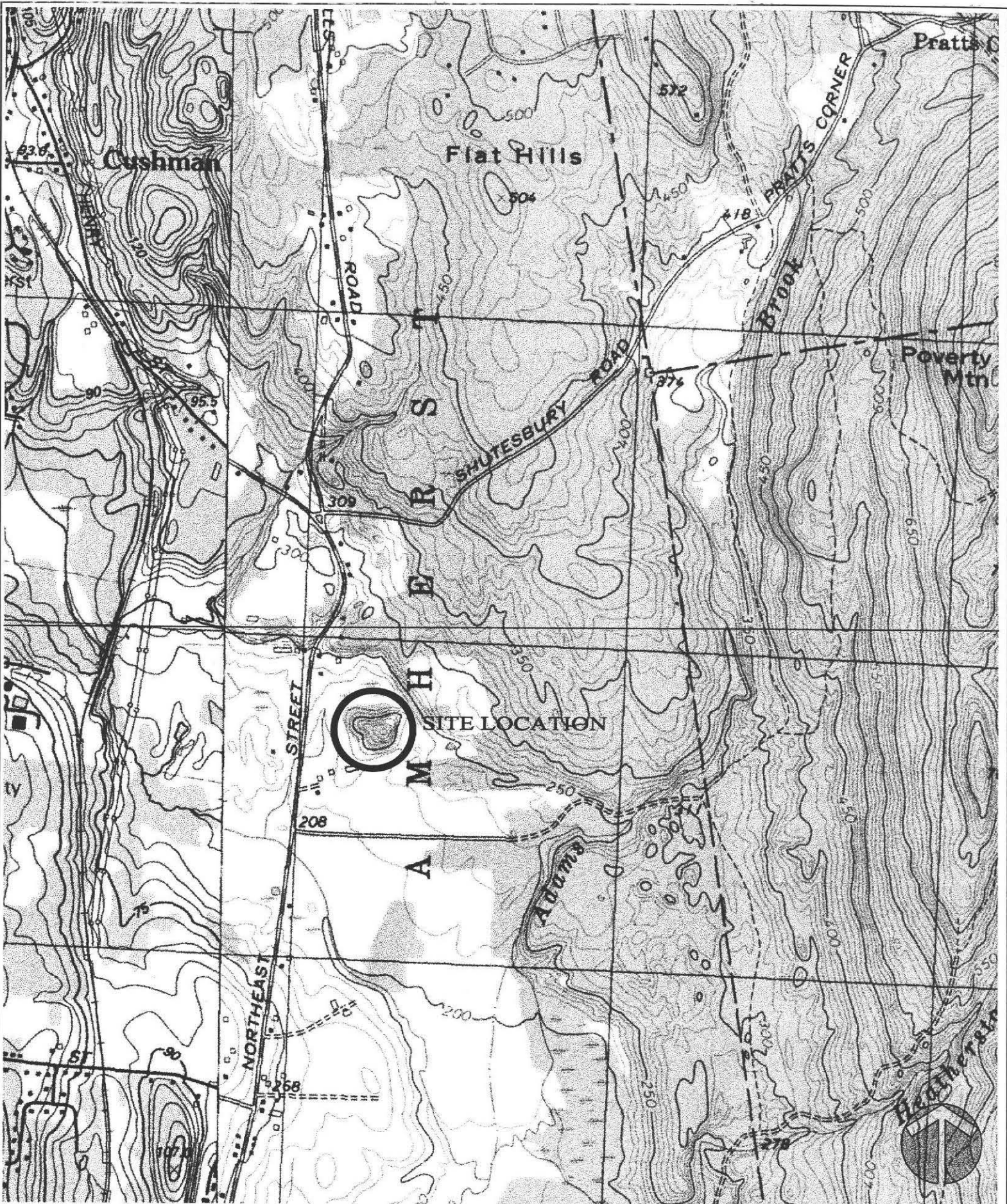
 **The Berkshire Design Group, Inc.**  
4 Allen Place Northampton, Massachusetts 01060  
(413) 582-7000 FAX (413) 582-7005

Sheet Title: **Existing Conditions Site Plan**  
**GAWLE RESIDENCE**  
AMHERST MASSACHUSETTS

Reference:  
Date: 1/31/05 Scale: 1"=60'

Sheet Number:  
**1**





The Berkshire Design Group, Inc. (413) 582-7000  
 4 Allen Place Northampton, Massachusetts 01060  
 FAX (413) 582-7005

Sheet Title:

USGS Locus Map

Reference:

Sheet Number:

GAWLE RESIDENCE

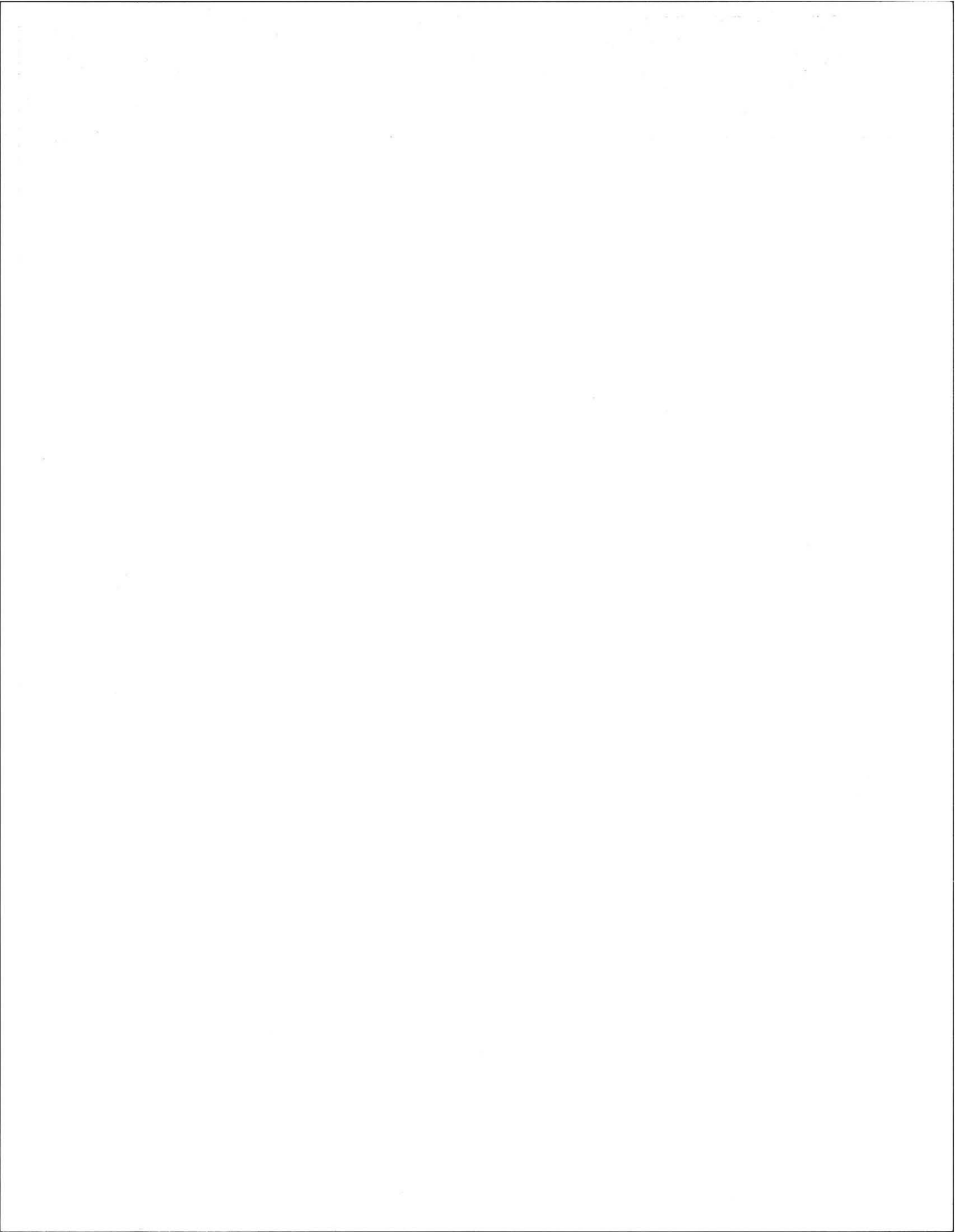
AMHERST

MASSACHUSETTS

Date:  
1/31/05

Scale:  
N.T.S.

2







From: Soil Survey of Hampshire County, Massachusetts, Central Part, Issued Dec. 1981

**NRCS Soils Map Description**

(HgB) Hinckley. Deep, excessively drained soils on glacial outwash plains, kames, and terraces. The soils formed in glacial outwash deposits. Slopes range from 0 to 35%.



4 Allen Place Northampton, Massachusetts 01060  
 (413) 582-7000 FAX (413) 582-7005

Sheet Title:

NRCS Soils Map

Reference:

Sheet Number:

AMHERST

GAWLE RESIDENCE

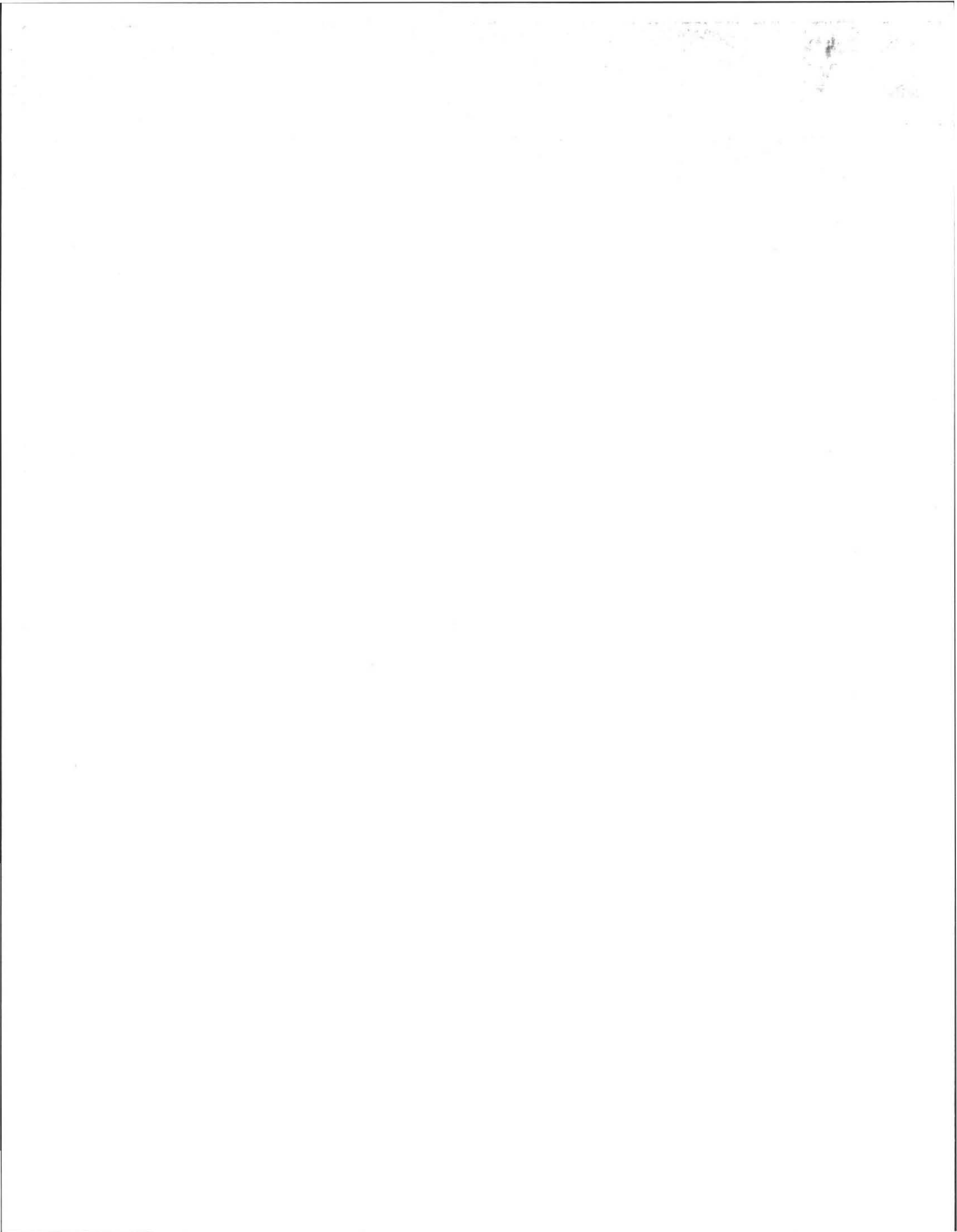
MASSACHUSETTS

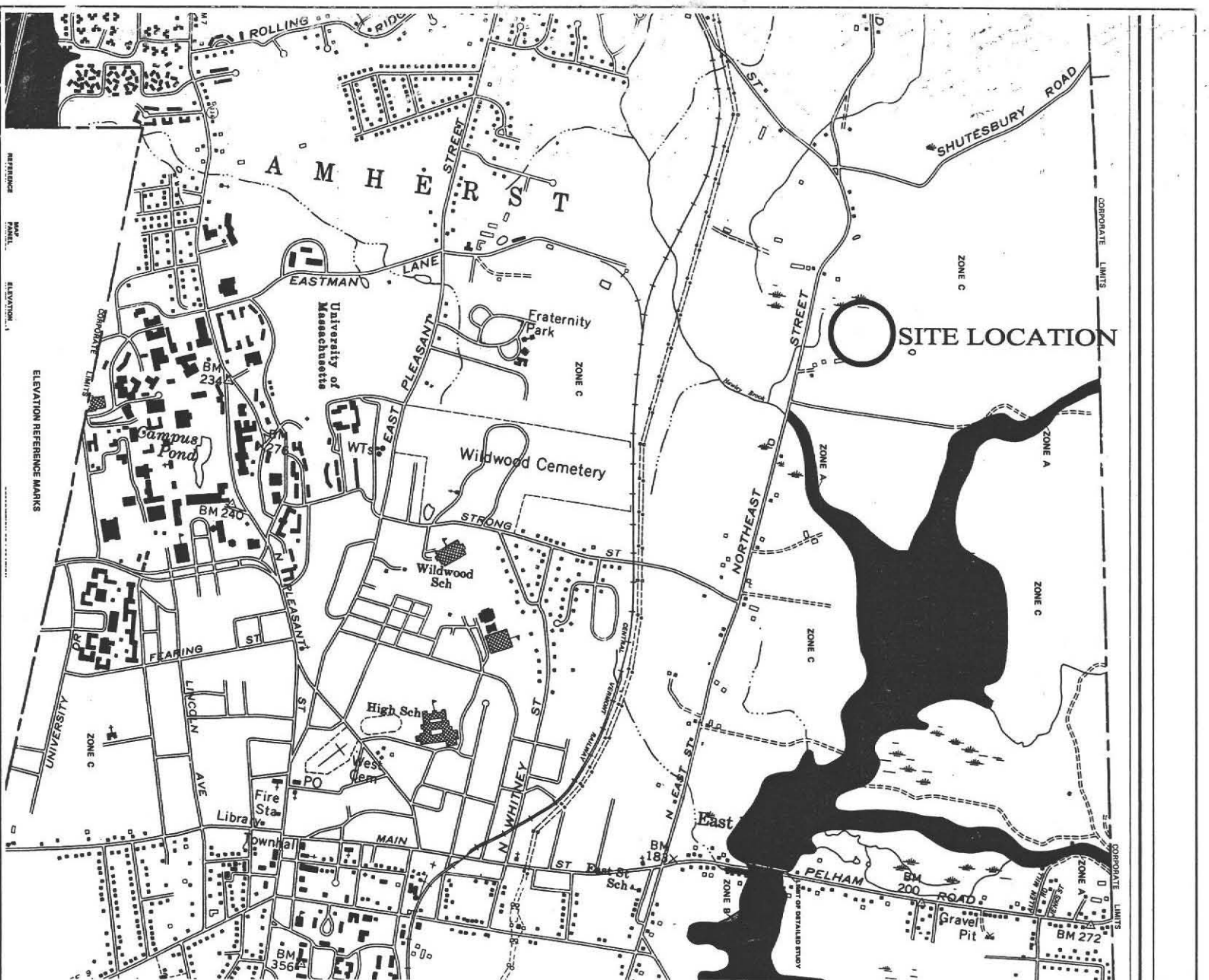
Date:  
1/31/05

Scale:  
N.T.S.

3







REFERENCE POINT  
ELEVATION, 1

ELEVATION REFERENCE MARKS

**KEY TO MAP**

- 100-year Flood Boundary
- Zone of Delineation
- Zone of Determination
- 150-year Flood Boundary
- 150-year Flood Boundary
- Flow Direction
- Flow Direction in Feet
- Flow Direction in Feet
- Elevation Reference Mark
- Zone of Boundary
- Zone of Boundary
- Zone of Boundary

**EXPLANATION OF ZONE DESIGNATIONS**

Zone A - 100-year flood; low flood elevation and flood hazard factors not determined.

Zone B - 100-year flood; low flood elevation and flood hazard factors determined, protected by flood protection system, flood protection system not determined.

Zone C - 100-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone D - 150-year flood; low flood elevation and flood hazard factors determined, protected by flood protection system, flood protection system not determined.

Zone E - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone F - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone G - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone H - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone I - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone J - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone K - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone L - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone M - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone N - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone O - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone P - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone Q - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone R - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone S - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone T - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone U - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone V - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone W - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone X - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone Y - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

Zone Z - 150-year flood; low flood elevation and flood hazard factors determined, not protected by flood protection system, flood protection system not determined.

**NOTES TO USER**

Certain areas not in the special flood hazard area (Zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only. It does not indicate the actual flood hazard. For information on flood insurance, contact your insurance agent, or call the National Flood Insurance Program, at (800) 534-4638.

**FLOOD INSURANCE RATE MAP EFFECTIVE:**  
FEBRUARY 2, 1983

**FLOOD INSURANCE RATE MAP AT RISK:**  
MAY 1, 1983

**DATE OF REVISION:**  
DECEMBER 15, 1983

**INITIAL IDENTIFICATION:**  
FLOOD HAZARD BOUNDARY MAP REVISIONS:  
NONE

**APPROXIMATE SCALE**  
1" = 100 FEET

**FIRM**  
FLOOD INSURANCE RATE MAP

**TOWN OF**  
**AMHERST,**  
**MASSACHUSETTS**  
**HARPSHIRE COUNTY**

**PANEL 5 OF 10**  
SEE MAP INDEX FOR PANELS NOT PRINTED

**COMMUNITY PANEL NUMBER**  
260156 0005 C

**MAP REVISED:**  
DECEMBER 15, 1983

**NATIONAL FLOOD INSURANCE PROGRAM**

**APPROXIMATE SCALE**  
1" = 100 FEET

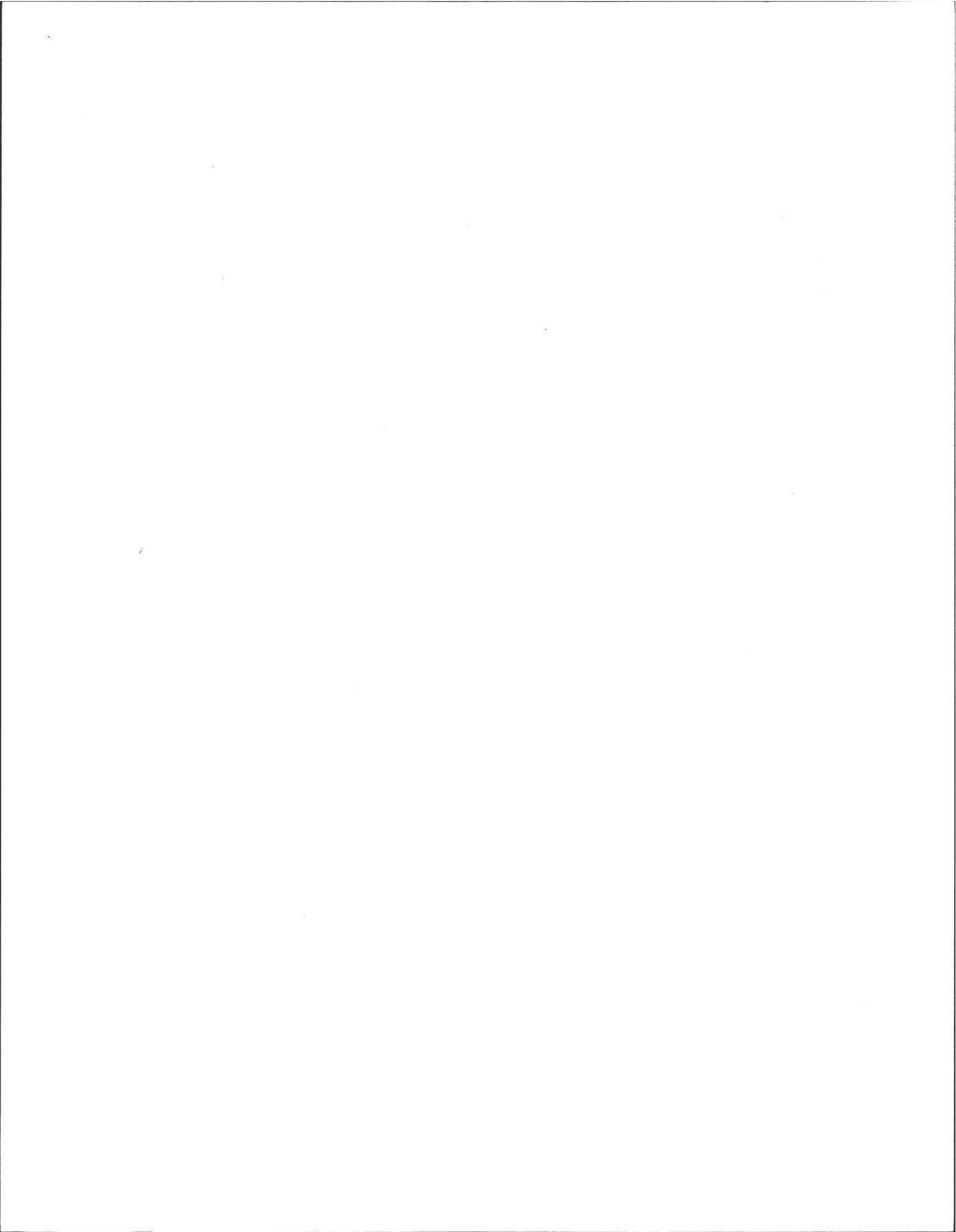
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 534-4638.

**The Berkshire Design Group, Inc.**  
4 Allen Place Northampton, Massachusetts 01060  
(413) 582-7000 FAX (413) 582-7005

**Sheet Title:**  
Flood Insurance Rate Map  
**GAWLE RESIDENCE**  
AMHERST MASSACHUSETTS

**Reference:**  
Date: 1/31/05  
Scale: N.T.S.

**Sheet Number:**  
4



MASSACHUSETTS AND RHODE ISLAND USGS GROUND- WATER-LEVEL CONDITIONS - DECEMBER 2004

73°00'W

72°00'W

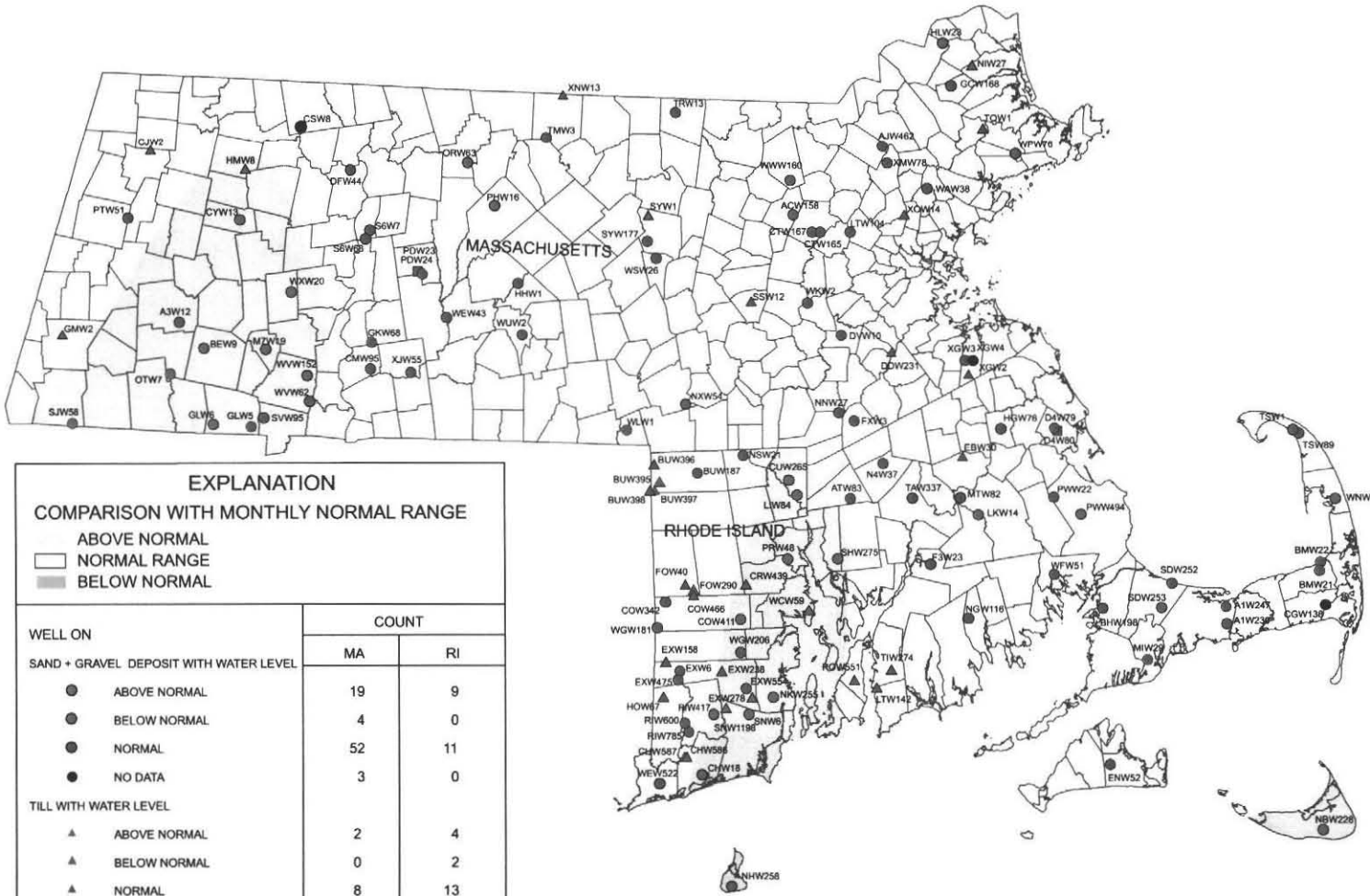
71°00'W

70°00'W

43°00'N

42°00'N

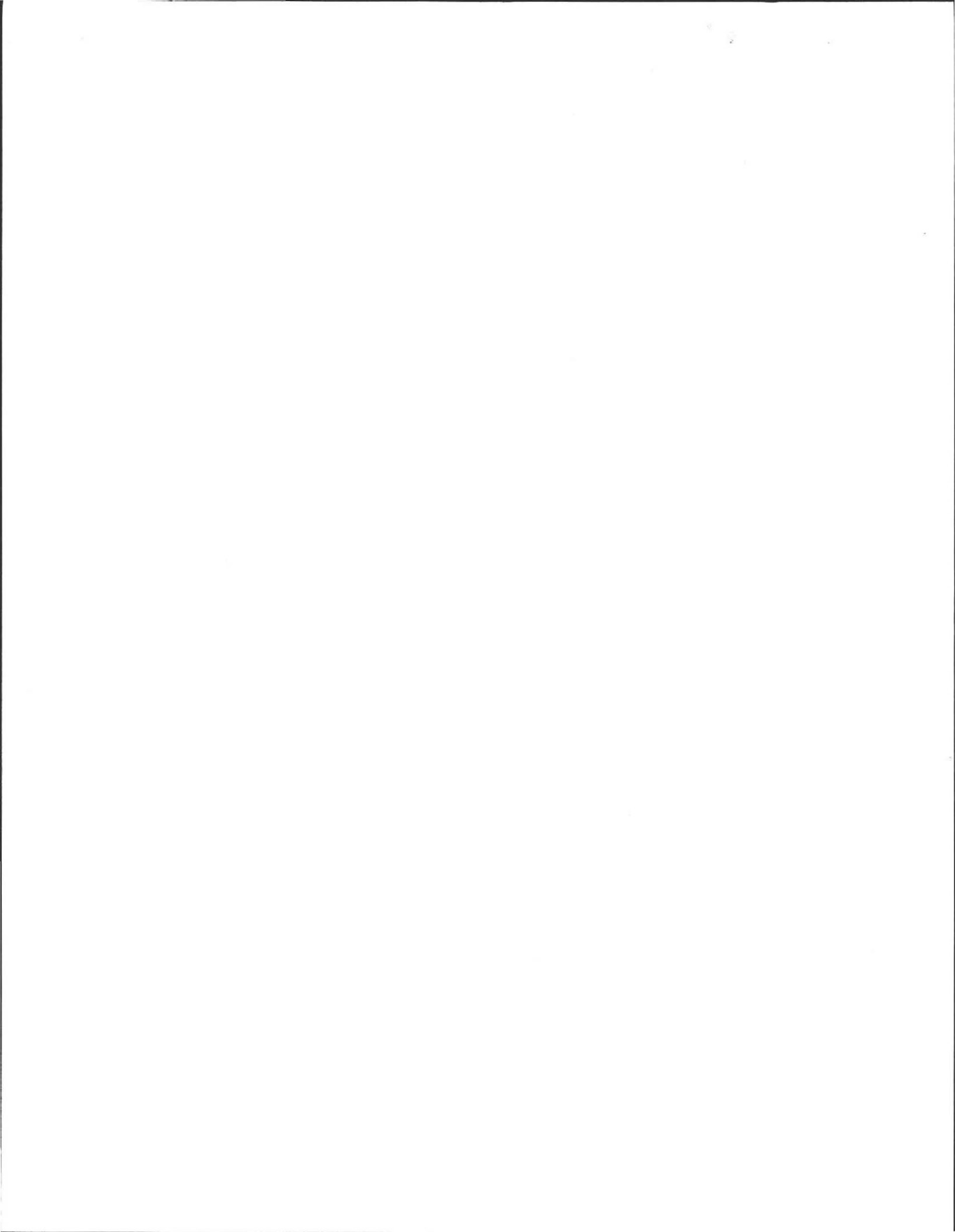
41°00'N



EXPLANATION		
COMPARISON WITH MONTHLY NORMAL RANGE		
	ABOVE NORMAL	
	NORMAL RANGE	
	BELOW NORMAL	
WELL ON	COUNT	
	MA	RI
SAND + GRAVEL DEPOSIT WITH WATER LEVEL		
	19	9
	4	0
	52	11
	3	0
TILL WITH WATER LEVEL		
	2	4
	0	2
	8	13
	0	0
BEDROCK WITH WATER LEVEL		
	0	-
	1	-
	1	-



GRANITE RESERVES





April 26, 2005

Stanley Gawle  
575 Northeast Street  
Amherst, MA 01002

RE: Gawle Residence, Northeast Street, Amherst  
Subsurface Sanitary Disposal System Permit Application

Dear Stanley:

Enclosed please find the design plans and construction permit application for your new septic system. The septic system has been designed in compliance with the Massachusetts State Sanitary Code (Title 5) and is comprised of a 1,500 gallon two-compartment tank and two conventional 50' leaching trenches.

*What you will need to do to do next:*

To obtain your construction permit you will need to sign and date the enclosed *Application for Disposal System Construction Permit* and submit it to the Amherst Health Department along with the following:

- A check in the amount of \$100.00 payable to the Amherst Health Department.
- (4) Copies of Subsurface Sanitary Disposal System Permit Applications (please sign as indicated)
- (4) Plan Sets, Dated 04/26/05: Sheets S1 and S2 (enclosed)
- (4) Copies of Soil Suitability Assessment for On-Site Sewage Disposal, Dated 01/11/05 (enclosed)

*Landscape Architecture*

*Civil Engineering*

*Planning*

*Urban Design*

*Environmental Services*

We have also enclosed two copies of the above for your use. **Please note that these plans need to be reviewed and approved by the Health Department prior to starting any work.** We recommend that you wait until the plans are approved before soliciting bids from contractors.

*Some information about your new septic system:*

The proposed septic system is comprised of a two-compartment 1,500 gallon septic tank equipped with an effluent filter (optional) and a soil absorption system comprised of two 50 foot long leaching trenches. The effluent filter can help to extend the life of your leach field but it is an optional component. According to the Department of Environmental Protection, the effluent filter needs to be cleaned annually. If you choose to use an effluent filter we suggest that you set up a maintenance program for your system with a local approved septage hauler. The Health Department can provide the names of licensed haulers and further information on recommended pumping and cleaning procedures.





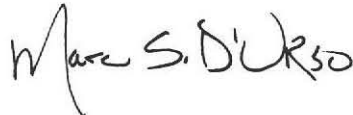
We have also included a general information package about the operation and maintenance of your new septic system. Please read this information carefully and feel free to call should you have any questions.

*The construction of your new septic system:*

Your new septic system needs to be installed by a licensed Title 5 contractor. This means the contractor you choose must be licensed with the Amherst Health Department and have experience in installing Title 5 systems. Your contractor will need to closely coordinate the construction of the system with the Health Department and schedule inspections of various components as they require (for example, the Health Department will need to see the open excavation of the leaching trenches prior to backfilling with stone).

Good luck with the construction of your new home and please do not hesitate to call if we can be of any further assistance.

Sincerely,  
The Berkshire Design Group, Inc.

A handwritten signature in black ink that reads "Marc S. D'Urso". The signature is written in a cursive style with a large, prominent 'M' and 'S'.

Marc S. D'Urso, P.E.  
Project Engineer

cc: File



No. \_\_\_\_\_

Date: 01/11/05

Commonwealth of Massachusetts  
**Amherst, Massachusetts**

**Soil Suitability Assessment for On-site Sewage Disposal**

Performed By: Marc D'Urso, P.E., C.S.E. Date: 01/11/05

Witnessed By: David Zarozinski, Amherst Health Department

Location Address or Lot # 575 Northeast Street (Tract 1, Bk:957, Pg:421) Amherst, MA New Construction <input checked="" type="checkbox"/> Repair <input type="checkbox"/>	Owner's Name, Address, and Telephone # Stanley Gawle 575 Northeast Street Amherst, MA 413 253-2695
--	--

**Office Review**

Published Soil Survey Available: No  Yes

Year Published 1981 Publication Scale 1:15,840 Soil Map Unit HgB

Drainage Class A Soil Limitations Severe: poor filter

Surficial Geologic Report Available: No  Yes

Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_

Geologic Material (Map Unit) \_\_\_\_\_

Landform Kame

Flood Insurance Rate Map: 2501560005C

Above 500 year flood boundary No  Yes

Within 500 year flood boundary No  Yes

Within 100 year flood boundary No  Yes

Wetland Area:

National Wetland Inventory Map (map unit) \_\_\_\_\_

Wetland Conservancy Program Map (map unit) \_\_\_\_\_

Current Water Resource Condition (USGS): Month December 2004

Range: Above Normal  Normal  Below Normal

Other References Reviewed: \_\_\_\_\_



Location Address or Lot No. Northeast Street, Amherst (Gawle Residence)On-site ReviewDeep Hole Number #1 Date: 01/11/05 Time: 10:00am Weather P-Cloudy 30FLocation (identify on site plan) See Site SketchLand Use Wooded Slope (%) 10% see plan Surface Stones None Obs.Vegetation Pine trees with some undergrowthLandform Kame

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body	<u>&gt; 100</u>	Feet	Drainage way	<u>&gt; 100</u>	Feet
Possible Wet Area	<u>&gt;100</u>	Feet	Property Line	<u>&gt; 50</u>	Feet
Drinking Water Well	<u>&gt;100</u>	Feet	Other	<u>See Sketches</u>	

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	A	SL	10YR3/3	n/o	Forest mat, many roots, massive, friable, some gravel & cobbles
6"-24"	B <sub>w</sub>	SL	10YR5/8	n/o	Massive, friable, 40% gravel & cobbles, roots
24"-64"	C <sub>1</sub>	Fine-Med Sand	7.5YR5/8 & 10YR5/8	n/o	loose and somewhat massive (mixed), 45% gravel & cobbles (sub-angular), some silt, roots down to 36", depth of interface between C1 & C2 varies
64"-120"	C <sub>2</sub>	Very Fine Sand	2.5Y5/3		Massive, friable, stratified bands of reddish (10YR5/8) fine sand throughout, few cobbles or gravel

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Ice Contact Outwash Depth to Bedrock: >120"Depth to Groundwater: Standing Water in the Hole: n/o Weeping from Pit Face: n/oEstimated Seasonal High Ground Water: >120"

DEP APPROVED FORM - 12/07/95





Location Address or Lot No. Northeast Street, Amherst (Gawle Residence)On-site ReviewDeep Hole Number #2 Date: 01/11/05 Time: 11:00am Weather P-Cloudy 30FLocation (identify on site plan) See Site SketchLand Use Wooded Slope (%) 10% see plan Surface Stones None Obs.Vegetation Pine trees with some undergrowthLandform Kame

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body	<u>&gt; 100</u>	Feet	Drainage way	<u>&gt; 100</u>	Feet
Possible Wet Area	<u>&gt;100</u>	Feet	Property Line	<u>&gt; 70</u>	Feet
Drinking Water Well	<u>&gt;100</u>	Feet	Other	<u>See Sketches</u>	

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-4"	A	SL	10YR3/3	n/o	Forest mat, many roots, massive, friable, some gravel & cobbles
4"-31"	B <sub>w</sub>	SL	10YR5/8	n/o	Massive, friable, 40% gravel & cobbles, roots
31"-61"	C <sub>1</sub>	Fine-Med Sand	7.5YR5/8 & 10YR5/8	n/o	loose and somewhat massive (mixed), 45% gravel & cobbles (sub-angular), some silt, roots down to 36"
61"-115"	C <sub>2</sub>	Very Fine Sand	2.5Y5/3		Massive, friable, stratified bands of reddish (10YR5/8) fine sand throughout, few cobbles or gravel, some stones below 88"

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Ice Contact Outwash Depth to Bedrock: >115"Depth to Groundwater: Standing Water in the Hole: n/o Weeping from Pit Face: n/oEstimated Seasonal High Ground Water: >115"

DEP APPROVED FORM - 12/07/95



## Determination for Seasonal High Water Table

Method Used:

- Depth observed standing in observation hole \_\_\_\_\_ inches.
- Depth weeping from side of observation hole \_\_\_\_\_ inches.
- Depth to soil mottles \_\_\_\_\_ n/o-See \_\_\_\_\_ inches.  
Logs \_\_\_\_\_
- Ground water adjustment \_\_\_\_\_ feet.

Index Well Number \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_  
 Adjustment Factor \_\_\_\_\_ Adjusted Ground Water Level \_\_\_\_\_

Percolation Test						
Date: <u>01/11/05</u>			Time: <u>See Below</u>			
Observation Hole #	1	2				
Depth of Perc	84"	65"				
Start Pre-Soak	11:53	12:35				
End Pre-Soak	12:08	12:50				
Time at 12"	12:08	12:50				
Time at 9"	12:16	12:52				
Time at 6"	12:29	12:57				
Time (9"-6")	13	5				
Rate Min. / Inch	<b>4.33</b>	<b>&lt; 2</b>				

Site Suitability Assessment: Site Passed  Site Failed

Additional Testing Needed: \_\_\_\_\_

Performed By: Marc D'Urso Certification Number: 45858 (PE)

Witnessed By: David Zarozinski, Amherst Health Department

Comments:

1. Reddish bands in C2 horizon appear to be the result textural variations in the parent material and not redox features due to groundwater.
2. Test Pit locations have been field surveyed by Harold Eaton Associates, Hadley, MA.



Location Address or Lot No. Northeast Street, Amherst (Gawle Residence)**Determination for Seasonal High water Table****Method Used:**

- Depth observation Standing in observation hole \_\_\_\_\_ inches
- Depth weeping from side observation hole \_\_\_\_\_ inches
- Depth to soil mottles See Logs inches
- Ground water adjustment \_\_\_\_\_ feet

Index Well Number \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_

Adjustment Factor \_\_\_\_\_ Adjusted ground water level \_\_\_\_\_

**Depth of Naturally Occurring Pervious Material:**

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? Yes

If not, what is the depth of naturally occurring pervious material? \_\_\_\_\_

**Certification:**

I certify that on Spring 1998 I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature W. S. Diurso Date 1-11-05

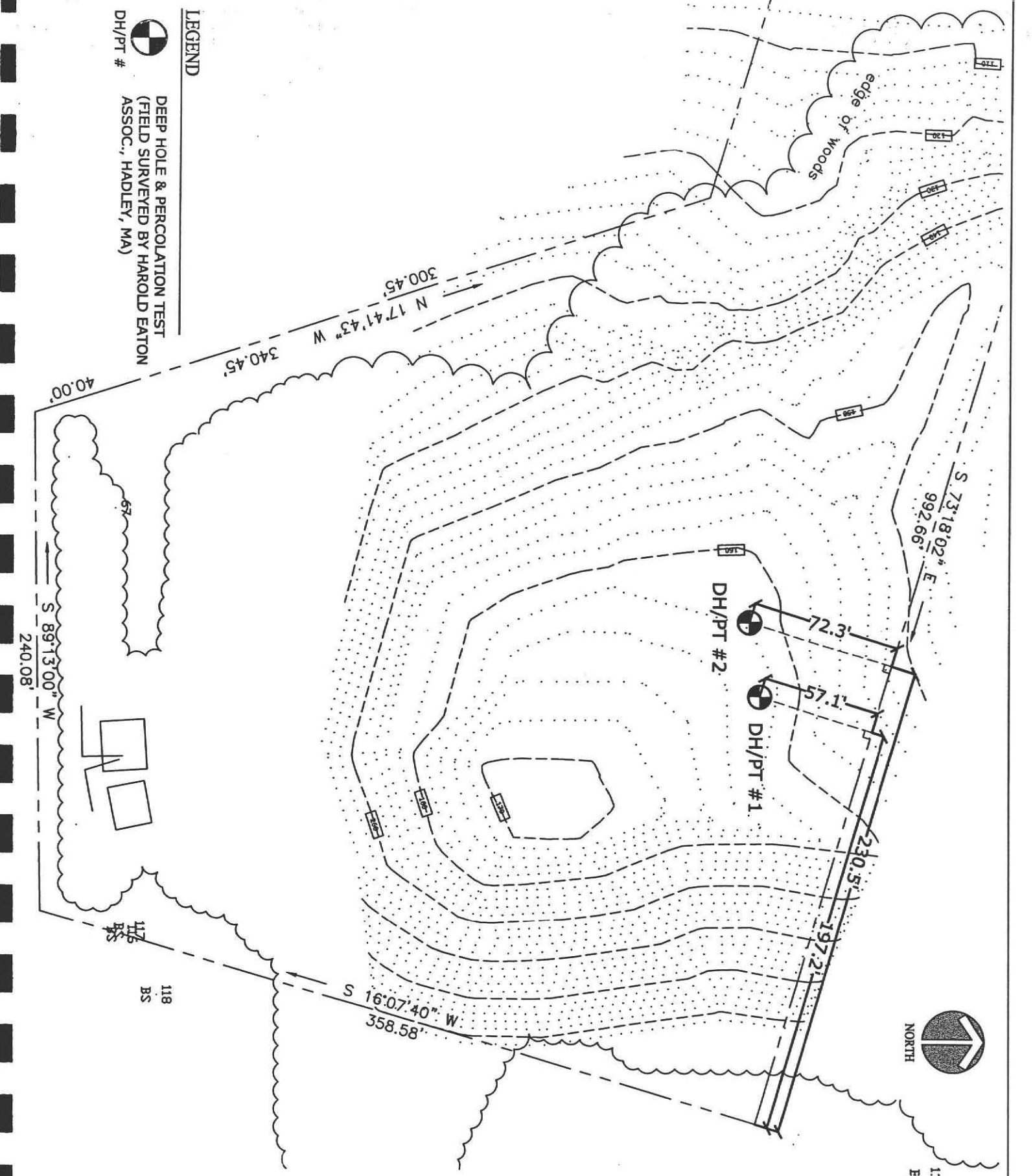





LEGEND

 DEEP HOLE & PERCOLATION TEST  
(FIELD SURVEYED BY HAROLD EATON  
ASSOC., HADLEY, MA)

RIVE



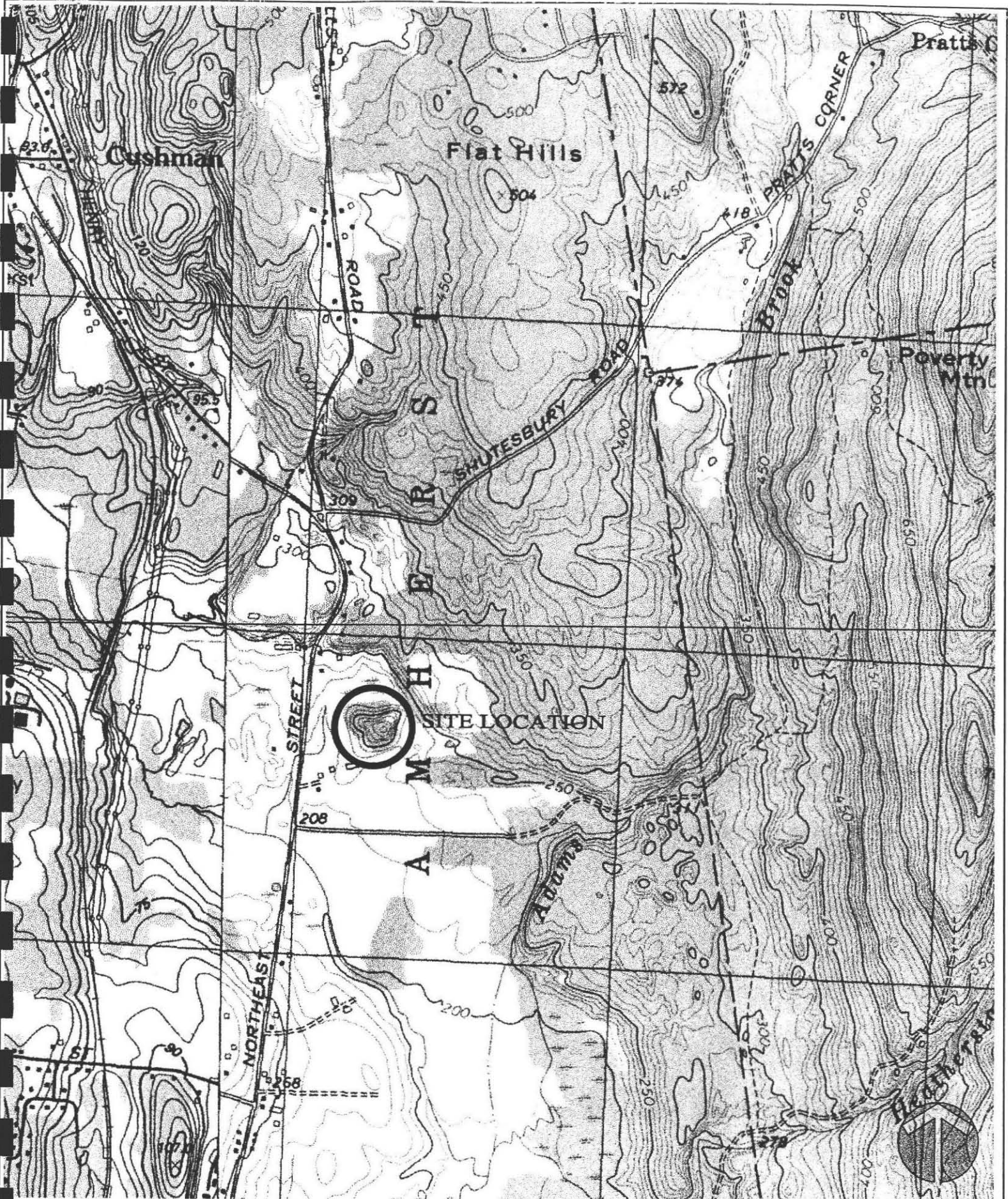
 The Berkshire Design Group, Inc. 4 Allen Place Northampton, Massachusetts 01060 (413) 582-7000 FAX (413) 582-7005

Sheet Title: Existing Conditions Site Plan  
GAWLE RESIDENCE  
AMHERST MASSACHUSETTS

Reference:  
Date: 1/31/05  
Scale: 1"=60'

Sheet Number: 1






 The Berkshire Design Group, Inc. (413) 582-7000  
 4 Allen Place Northampton, Massachusetts 01060  
 FAX (413) 582-7005

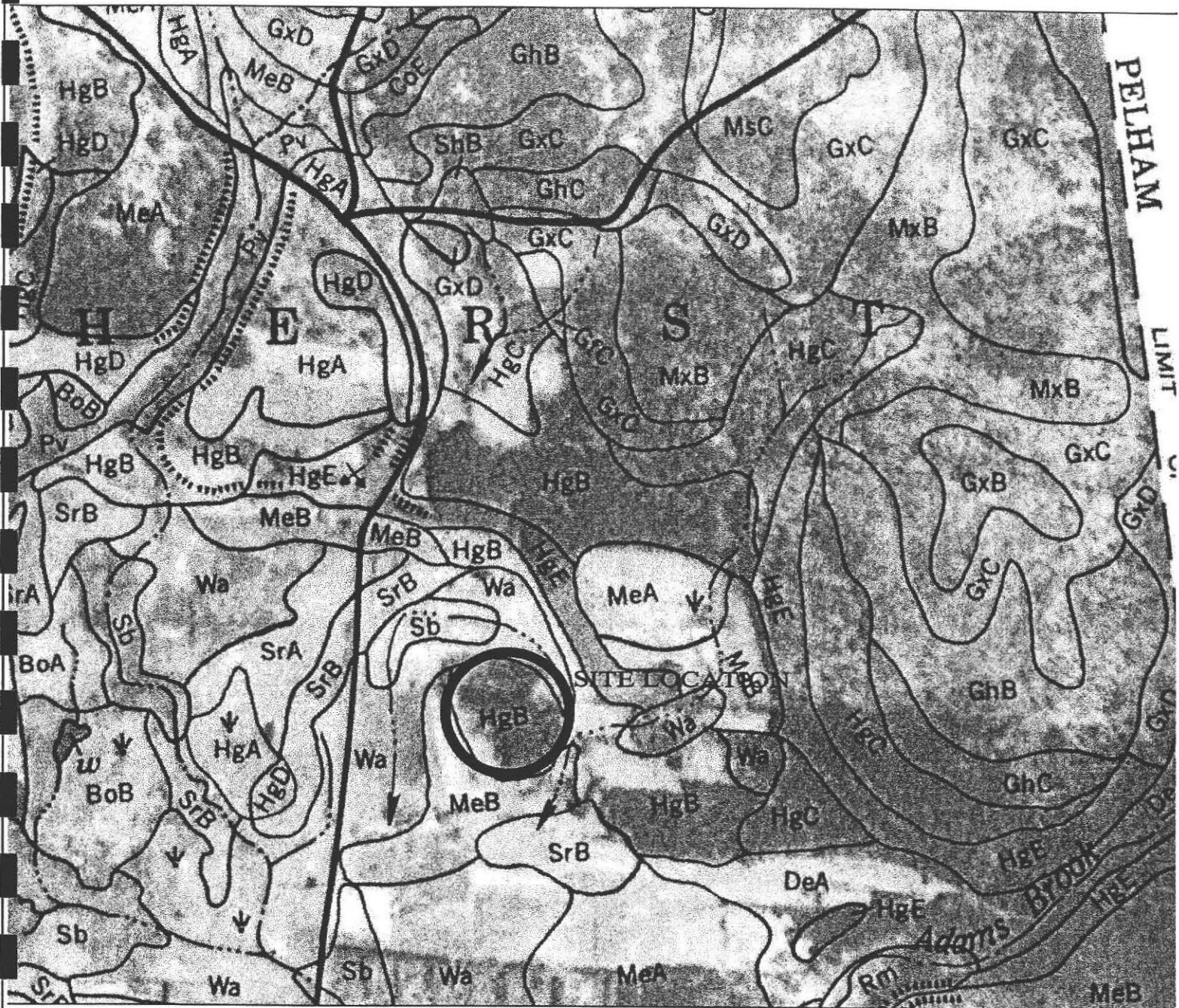
Sheet Title: USGS Locus Map  
**GAWLE RESIDENCE**  
 AMHERST MASSACHUSETTS

Reference:  
 Date: 1/31/05  
 Scale: N.T.S.

Sheet Number:  
**2**







From: Soil Survey of Hampshire County, Massachusetts, Central Part, Issued Dec. 1981

**NRCS Soils Map Description**

(HgB) Hinckley. Deep, excessively drained soils on glacial outwash plains, kames, and terraces. The soils formed in glacial outwash deposits. Slopes range from 0 to 35%.



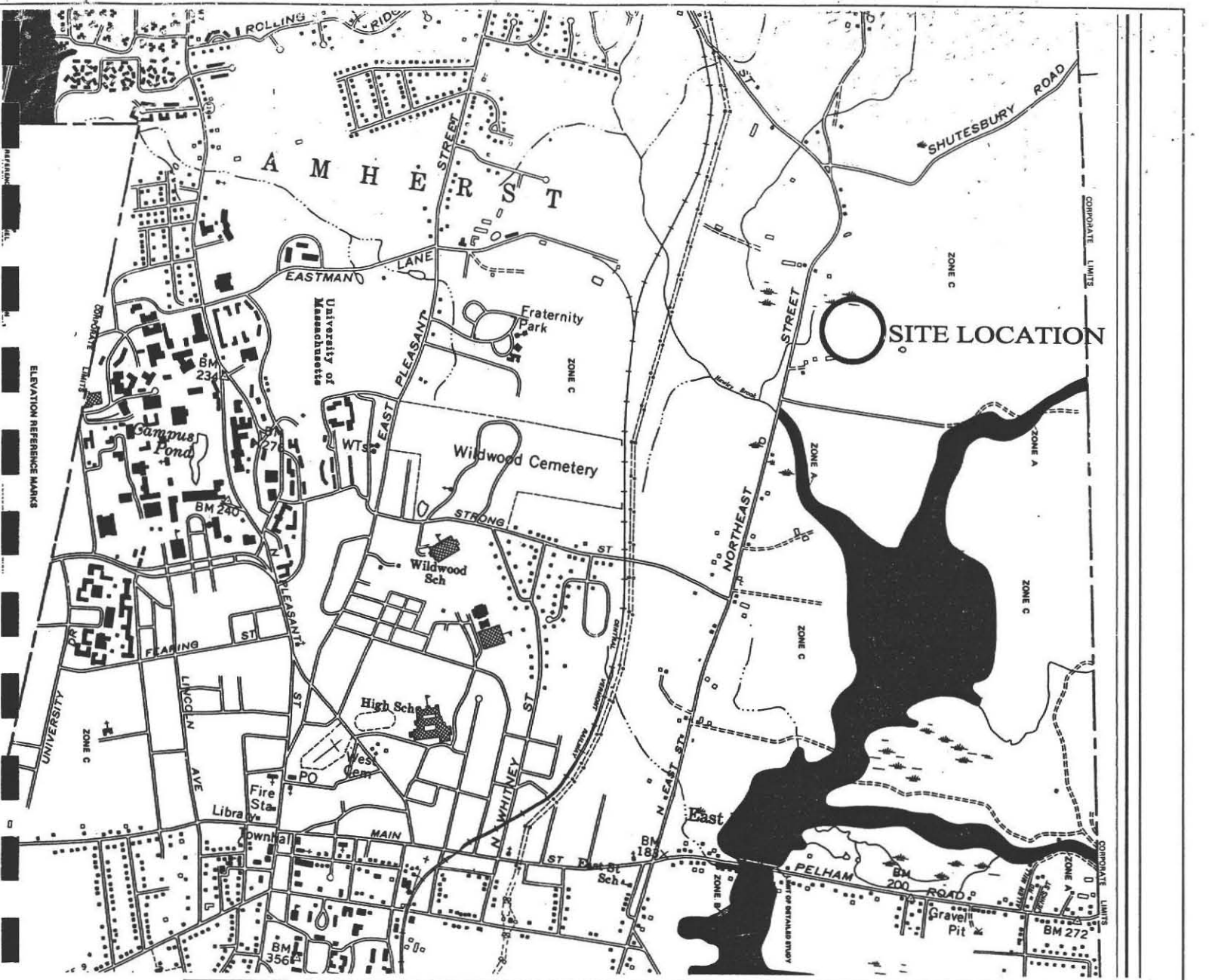
**The Berkshire Design Group, Inc.**  
 4 Allen Place Northampton, Massachusetts 01060  
 (413) 582-7000 FAX (413) 582-7005

Sheet Title: **NRCS Soils Map**  
**GAWLE RESIDENCE**  
 AMHERST MASSACHUSETTS

Reference:  
 Date: 1/31/05 Scale: N.T.S.

Sheet Number:  
**3**





**KEY TO MAP**

- 500-year Flood Boundary
- 100-year Flood Boundary
- Date of Flood Study: 4-1-1979
- 100-year Flood Boundary
- 500-year Flood Boundary
- 500 Year Flood Elevation Limit
- 500 Year Return to Year
- Water Features
- Gravel Pit
- BM 272
- BM 200
- BM 188
- BM 234
- BM 240
- BM 356
- BM 277

**EXPLANATION OF ZONE DESIGNATIONS**

Zone A: Areas of 100-year flood to be protected by flood insurance and flood hazard reduction measures.

Zone B: Areas of 100-year flood to be protected by flood insurance and flood hazard reduction measures. Areas between limits of 100-year flood and 500-year flood which require special flood hazard insurance for new construction by owner from the time of construction. Flood-hazard reduction measures are required for new construction.

Zone C: Areas of 100-year flood to be protected by flood insurance and flood hazard reduction measures. Areas of 100-year flood to be protected by flood insurance and flood hazard reduction measures. Areas of 100-year flood to be protected by flood insurance and flood hazard reduction measures.

Zone D: Areas of 100-year flood to be protected by flood insurance and flood hazard reduction measures.

**NOTES TO USER**

Circle area not to be special flood hazard area (Zone A and V) as provided by flood control measures.

Initial Identification: N.E.T. 1979

Flood Hazard Boundary Map Revisions: NONE

Flood Insurance Rate Map Effective: 12/15/83

Flood Insurance Rate Map Revisions: 12/15/83

Approximate Scale: 1" = 100'

**FIRM**  
FLOOD INSURANCE RATE MAP

**TOWN OF AMHERST, MASSACHUSETTS HAMPSHIRE COUNTY**

PANEL 5 OF 10  
SEE MAP INDEX FOR PANELS NOT PRINTED

COMMUNITY-PANEL NUMBER: 250166 0005 C  
MAP REVISED: DECEMBER 15, 1983

Federal Emergency Management Agency

Approximate Scale: 1" = 100'

1% probability of flood insurance is available to you community Program at (508) 534-6200. For all the National Flood Insurance

Sheet Title: <b>Flood Insurance Rate Map</b>		Reference:	Sheet Number: <b>4</b>
<b>GAWLE RESIDENCE</b>		Date: 1/31/05	Scale: N.T.S.
AMHERST	MASSACHUSETTS		

The Berkshire Design Group, Inc. 4 Allen Place Northampton, Massachusetts 01060  
(413) 582-7000 FAX (413) 582-7005





MASSACHUSETTS AND RHODE ISLAND USGS GROUND-WATER-LEVEL CONDITIONS - DECEMBER 2004

73°00'W

72°00'W

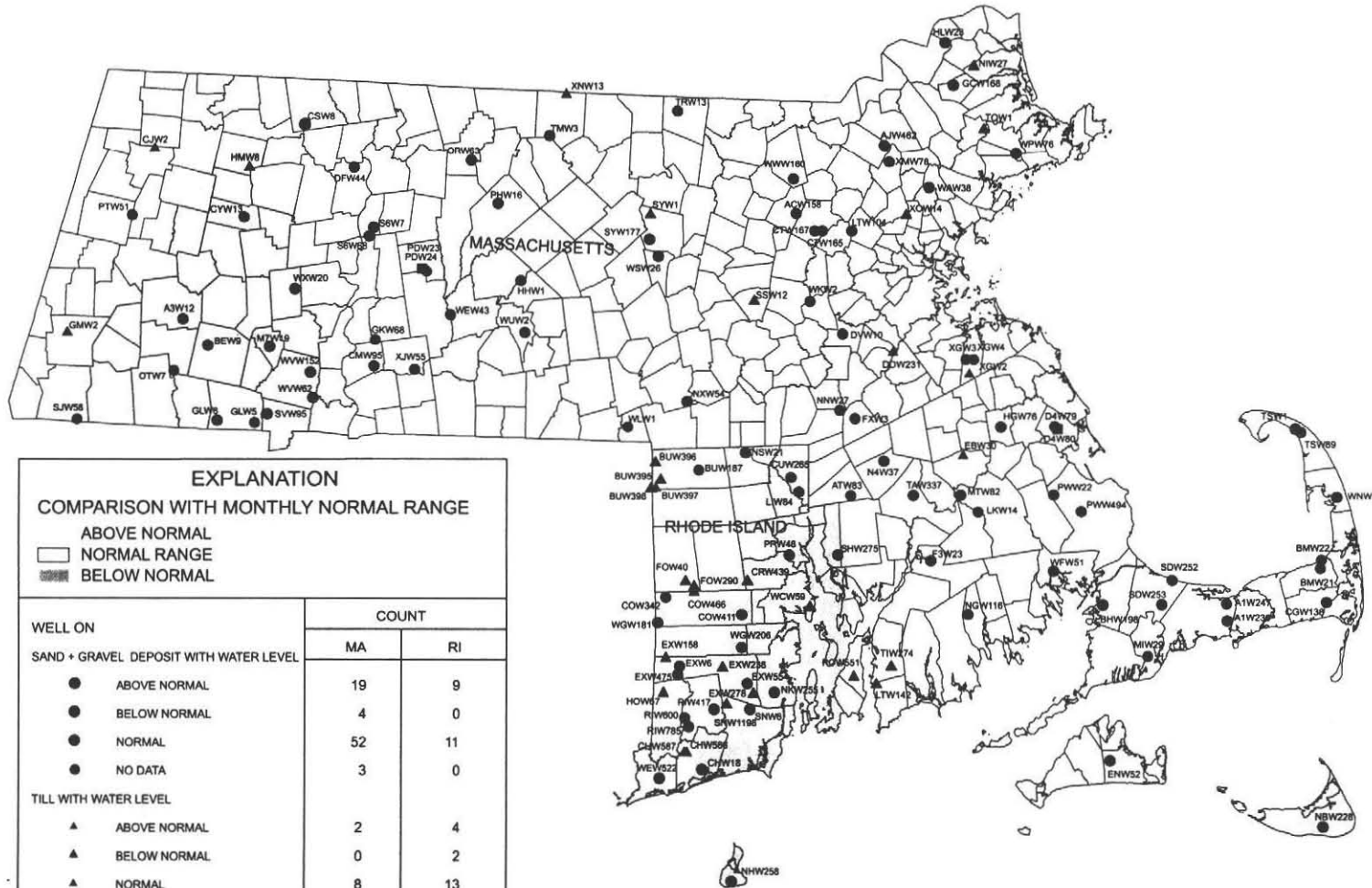
71°00'W

70°00'W

43°00'N

42°00'N

41°00'N



EXPLANATION		
COMPARISON WITH MONTHLY NORMAL RANGE		
	ABOVE NORMAL	
□	NORMAL RANGE	
▨	BELOW NORMAL	
WELL ON	COUNT	
SAND + GRAVEL DEPOSIT WITH WATER LEVEL	MA	RI
● ABOVE NORMAL	19	9
● BELOW NORMAL	4	0
● NORMAL	52	11
● NO DATA	3	0
TILL WITH WATER LEVEL		
▲ ABOVE NORMAL	2	4
▲ BELOW NORMAL	0	2
▲ NORMAL	8	13
▲ NO DATA	0	0
BEDROCK WITH WATER LEVEL		
■ ABOVE NORMAL	0	-
■ BELOW NORMAL	1	-
■ NORMAL	1	-

0 15 30 60 MILES

GRANITE RESIDENCE



# **On-Site Septic Systems**

## **General Operation and Maintenance Information**

Taken from the Massachusetts Department of Environmental Protection's Web Site  
<http://www.mass.gov/dep/dephome.htm>

Compiled by:  
The Berkshire Design Group



## EPA - Your On-Site System: A Reference Guide for Homeowners

### Caring for Your On-Site System (Conventional Septic System, Innovative/Alternative (I/A) System, or Cesspool)

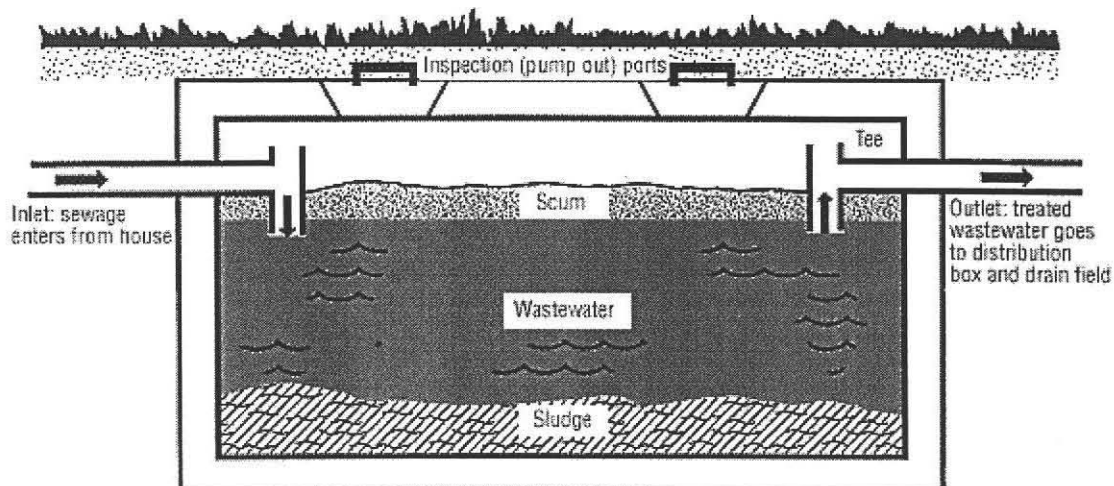
The accumulated solids in the bottom of the septic tank should be pumped out every **three years** to prolong the life of your system. On-site systems must be maintained regularly to stay working.

Neglect or abuse of your system can cause it to fail. Failing systems can

- cause a serious health threat to your family and neighbors,
- degrade the environment, especially lakes, streams and groundwater,
- reduce the value of your property,
- be very expensive to repair,
- and, put thousand of water supply users at risk if you live in a public water supply watershed and fail to maintain your system.

Be alert to these warning signs of a failing system:

- sewage surfacing over the drainfield (especially after storms),
- sewage back-ups in the house,
- lush, green growth over the drainfield,
- slow draining toilets or drains,
- sewage odors.







## **Tips to Avoid Trouble**

**DO** have your tank pumped out and system inspected every 3 to 5 years by a licensed septic contractor (listed in the yellow pages).

**DO** keep a record of pumping, inspections, and other maintenance. Use the back page of this brochure to record maintenance dates.

**DO** practice water conservation. Repair dripping faucets and leaking toilets, run washing machines and dishwashers only when full, avoid long showers, and use water-saving features in faucets, shower heads and toilets.

**DO** learn the location of your on-site system and drainfield. Keep a sketch of it handy for service visits. If your system has a flow diversion valve, learn its location, and turn it once a year. Flow diverters can add many years to the life of your system.

**DO** divert roof drains and surface water from driveways and hillsides away from the septic system. Keep sump pumps and house footing drains away from the septic system as well.

**DO** take leftover hazardous household chemicals to your approved hazardous waste collection center for disposal. Use bleach, disinfectants, and drain and toilet bowl cleaners sparingly and in accordance with product labels.

**DON'T** allow anyone to drive or park over any part of the system. The area over the drainfield should be left undisturbed with only a mowed grass cover. Roots from nearby trees or shrubs may clog and damage your drain lines.

**DON'T** make or allow repairs to your on-site system without obtaining the required health department permit. Use professional licensed contractors when needed.

**DON'T** use commercial septic tank additives. These products usually do not help and some may hurt your system in the long run.



**DON'T** use your toilet as a trash can by dumping nondegradables down your toilet or drains. Also, don't poison your on-site system and the groundwater by pouring harmful chemicals down the drain. They can kill the beneficial bacteria that treat your wastewater. Keep the following materials out of your system:

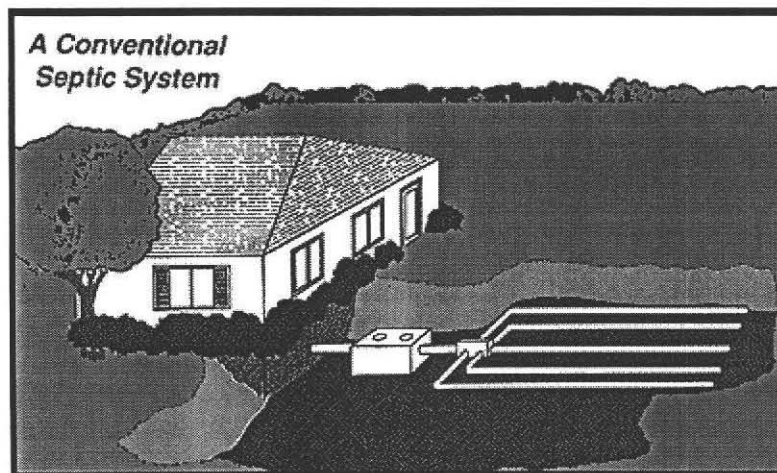
**NONDEGRADABLES:**  
grease, disposable diapers, plastics, etc.

**POISONS:**  
gasoline, oil, paint, paint thinner, pesticides, antifreeze,  
etc.

### **On-site System Explained**

On-site systems are individual wastewater treatment systems (conventional septic systems, innovative/alternative (I/A) systems, or cesspools) that use the soil to treat small wastewater flows, usually from individual homes. They are typically used in rural or large lot settings where centralized wastewater treatment is impractical.

There are many types of on-site systems in use today. While all on-site systems are individually designed for each site, most systems are based on the same principles.



### **A Conventional Septic System**

A conventional septic system consists of a septic tank, a distribution box and a drainfield, all connected by pipes, called conveyance lines.

Your septic system treats your household wastewater by temporarily holding it



in the septic tank where heavy solids and lighter scum are allowed to separate from the wastewater. This separation process is known as primary treatment. The solids stored in the tank are decomposed by bacteria and later removed, along with the lighter scum, by a professional septic tank pumper.

After partially treated wastewater leaves the tank, it flows into a distribution box, which separates this flow evenly into a network of drainfield trenches. Drainage holes at the bottom of each line allow the wastewater to drain into gravel trenches for temporary storage. This effluent then slowly seeps into the subsurface soil where it is further treated and purified (secondary treatment). A properly functioning septic system does not pollute the groundwater.

### **For More Information**

A videotape version of this brochure, also entitled "Your Septic System: A Guide for Homeowners," is available through the EPA Small Flows Clearinghouse. Call 1-800-624-8301.

For more information about maintenance or inspection of your septic system, contact your local board of health.



## D.E.P. - How Do I as a System Owner Properly Care for my on-site System?

Conventional on-site systems can function very well with minimal care. In fact, most on-site tanks will only require an inspection and pumping out by a professional every three to five years if they are used properly. This does not pertain to I/A systems, which need more frequent oversight.

DO...	DON'T...
<p><b>Do</b> have the on-site system inspected and pumped by a <u>licensed professional</u> approximately every 3 to 5 years. Failure to pump out the septic tank can cause system failure. If the tank fills up with an excess of solids, the wastewater will not have enough time to settle in the tank. These excess solids will then pass on to the leach field, where they will clog the drain lines and soil.</p>	<p><b>Do not</b> use your toilet or sink as a trash can by dumping non-biodegradables (cigarette butts, diapers, feminine products, etc.) or grease down your sink or toilet. Non-biodegradables can clog the pipes, while grease can thicken and clog the pipes. Store cooking oils, fats, and grease in a can for disposal in the garbage.</p>
<p><b>Do</b> know the location of the on-site system and drain field, and keep a record of all inspections, pumpings, repairs, contract or engineering work for future references. Keep a sketch of it handy for service visits.</p>	<p><b>Do not</b> put paint thinner, polyurethane, anti-freeze, pesticides, some dyes, disinfectants, water softeners, and other strong chemicals into the system. These can cause major upsets in the septic tank by killing the biological part of your on-site system and polluting the groundwater. Small amounts of standard household cleaners, drain cleansers, detergents, etc. will be diluted in the tank and should cause no damage to the system.</p>
<p><b>Do</b> grow grass or small plants (not trees or shrubs) above the on-site system to hold the drain field in</p>	<p><b>Do not</b> use a garbage grinder or disposal, which feeds into the on-site tank. If you do have one in the</p>





place. Water conservation through creative landscaping is a great way to control excess runoff.

house, severely limit its use. Adding food wastes or other solids reduces your system's capacity and increases the need to pump the on-site tank. If you use a grinder, the system must be pumped more often.

**Do** install water-conserving devices in faucets, showerheads and toilets to reduce the volume of water running into the on-site system. Repair dripping faucets and leaking toilets, run washing machines and dishwashers only when full, and avoid long showers.

**Do not** plant trees within 30 feet of your system or park/drive over any part of the system. Tree roots will clog your pipes, and heavy vehicles may cause your drainfield to collapse.

**Do** divert roof drains and surface water from driveways and hillsides away from the on-site system. Keep sump pumps and house footing drains away from the on-site system as well.

**Do not** allow anyone to repair or pump your system without first checking that they are licensed system professionals.

**Do** take leftover hazardous chemicals to your approved hazardous waste collection center for disposal. Use bleach, disinfectants, and drain and toilet bowl cleaners sparingly and in accordance with product labels.

**Do not** perform excessive laundry loads with your washing machine. Doing load after load does not allow your on-site tank time to adequately treat wastes and overwhelms the entire on-site system with excess wastewater. You could therefore be flooding your drain field without allowing sufficient recovery time. You should consult your on-site tank professional to determine the gallon capacity and number of loads per day that can safely go into the system.

**Do** use only on-site system additives that have been allowed for usage in Massachusetts by

**Do not** use chemical solvents to clean the plumbing or on-site system. "Miracle" chemicals will kill



DEP. Additives that are allowed for use in Massachusetts have been determined not to produce a harmful effect to the individual system or its components or to the environment at large.

microorganisms that consume harmful wastes. These products can also cause groundwater contamination.

### How Often Should I Pump Out my Septic Tank?

*Regular Maintenance is the single most important consideration in making sure your on-site system, whether it is a conventional septic system, an innovative/alternative (I/A) system, or a cesspool, works well over time.*

An amazing number of system owners believe that if they haven't had any problems with their systems, they don't need to pump out their tanks. Unfortunately this is a serious and sometimes costly misconception. As your system is used, solid materials settle to the bottom of the tank, forming a **sludge layer**. Grease and lightweight materials float to the surface of the septic tank as **scum**.

Normally, properly designed tanks have enough space for up to 3 to 5 years' safe accumulation of sludge. When the sludge level increases beyond this point, sewage has less time to settle properly before leaving the tank. As the sludge level increases, more solid wastes escape into the soil absorption system (SAS). If the SAS becomes so clogged that it cannot absorb liquid at the rate at which it enters the tank, the plumbing will "back up" or unsanitary wastewater will bubble to the surface.

Remember: Regular pumping helps prevent solids from escaping into the drainfield and clogging soil pores. While pumping frequency is a function of use, DEP recommends that systems be pumped at least once every 3 years for homes not having a garbage disposal. If the home's system has a garbage disposal, it should be pumped every year.

If you are a nonresidential system owner, you should determine how often to pump based on prior accumulation and pumping records. Often you can look at pumping intervals to gauge your pumping schedule (i.e., previously did you wait too long before having your tank pumped and it was filled to capacity, or could you have waited a little longer to pump?).

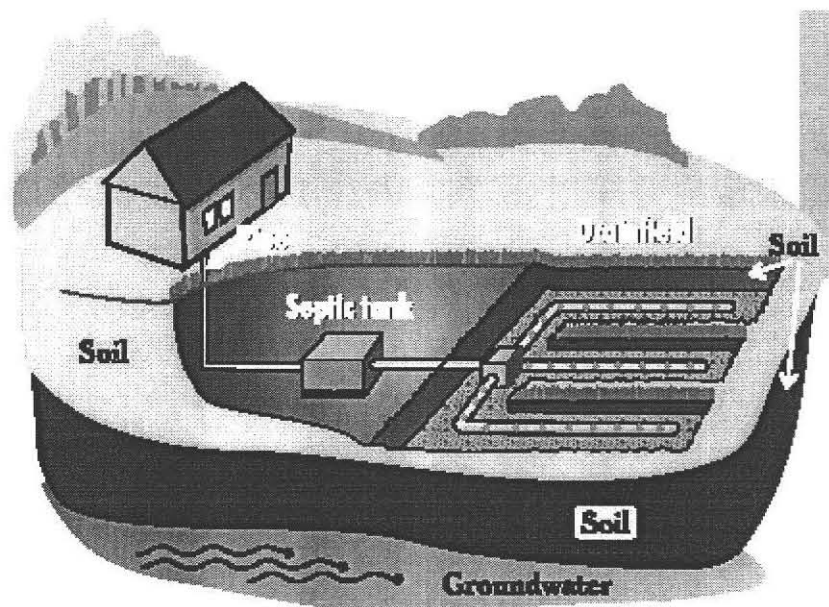
When hiring a pumper, be sure the local Board of Health has licensed them, and always make sure you get a paid receipt from the pumper that spells out the details of the transaction (how many gallons were pumped out of the tank, the date, the charges, and any other pertinent results). Retain this receipt for your records. The pumper sends a copy of this report to the local Board of Health.



## Save Money by Maintaining Your On-Site System (Conventional Septic System, Innovative/Alternative [I/A] System, or Cesspool)

A major reason to maintain your on-site system is to save money. Failing systems are expensive to repair or replace, and poor maintenance is often the culprit. Preventive maintenance is a whole lot cheaper than repair or replacement. For example, it could cost up to \$40,000 or more to replace a failing system with a new one, compared to approximately \$200 to \$400 to have a system inspected, and \$150 to \$250 to have it pumped. Maintaining an on-site system is like maintaining a car. A small effort on a regular basis can save a lot of money and significantly prolong the life of the system.

Innovative/Alternative (I/A) systems, although providing more advanced treatment, also require more frequent oversight and maintenance. Click [here](#) for more information on maintaining I/A systems.



Typical onsite wastewater treatment system

### How Does a Conventional System Work?

First, wastewater (from your toilet, sink, tub, etc) flows into your septic tank. Once in the tank, the heavy solids settle to the bottom from sheer gravity, forming a layer of sludge. The lighter solids such as grease float to the top of the tank forming a scum layer. As more wastewater enters the septic tank from the house, the separated wastewater in the middle layer of the tank either flows out or may be pumped into the leaching field (see diagram above). Microorganisms living within the drainfield consume leftover particles and harmful germs and viruses.



The sludge and scum layers remain in the tank where naturally occurring bacteria work to break them down. Since the bacteria cannot completely decompose all of these solids, the layers continue to grow, slowly filling up the tank. These solids will eventually have to be pumped out.

How do I know if my on-site system has failed?

STOP  
LOOK  
SMELL

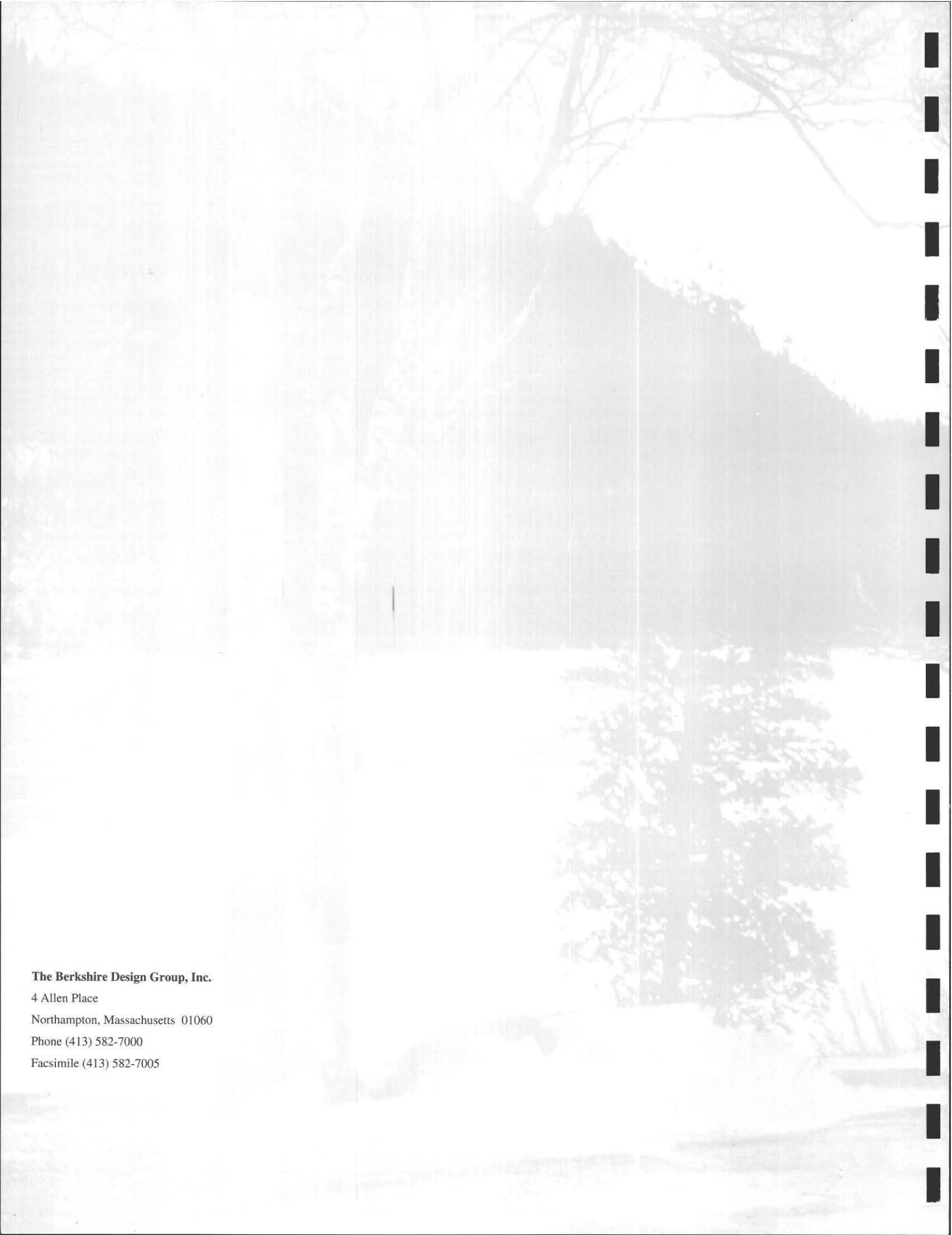
The most obvious system failures leave clues that are easy to spot:

- Check for pooling of wastewater or muddy soil around your septic tank or drainfield.
- Check for odors of sewage or a "rotten egg" smell around your system or even in your basement.
- Notice if your sink or toilet backs up when you flush or do laundry.

Check with a septic system professional or your local Board of Health if you have problems with your system.







**The Berkshire Design Group, Inc.**

4 Allen Place

Northampton, Massachusetts 01060

Phone (413) 582-7000

Facsimile (413) 582-7005



Town of



AMHERST

Massachusetts

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002  
(413) 256-4077

(413) 256-4033 ENVIRONMENTAL HEALTH SERVICES  
(413) 256-4053 (FAX)  
[www.town.amherst.ma.us/health](http://www.town.amherst.ma.us/health)

February 22, 2005

Mr. J. Rodger Cherewatti  
15 Foxglove Lane  
Amherst, MA 01002

Dear Mr. Cherewatti,

Per your conversation with Tom Dion on February 22, 2005 a balance of \$450.00 was left unpaid. The following was the work performed conducted by Tom Dion on August 31, 2004:

- Percolation test (brick house lot) & Plans \$275.00
- Percolation test (new lot) \$175.00

---

**Balance Due: \$450.00**

Please make check payable to the Town of Amherst.

Mail to:

Environmental Health Services  
Amherst Health Department  
Bangs Community Center, 2<sup>nd</sup> Floor  
70 Boltwood Walk  
Amherst, MA 01002

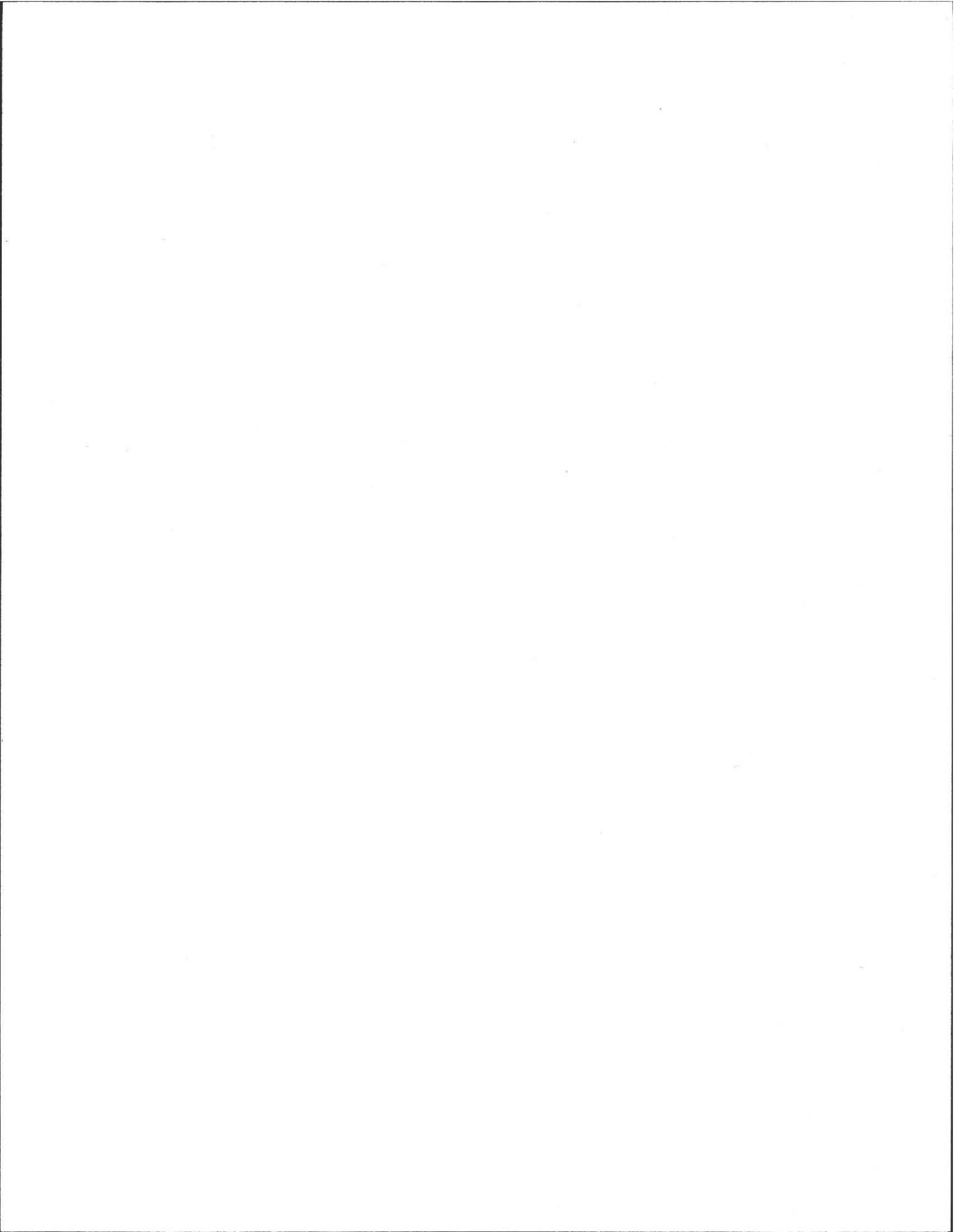
We truly appreciate your cooperation. If you should have any questions please do not hesitate to call.

Sincerely,

Ruth Loreda Taylor  
Administrative Assistant



MAKE SMOKING HISTORY



1/26/05  
Need payment

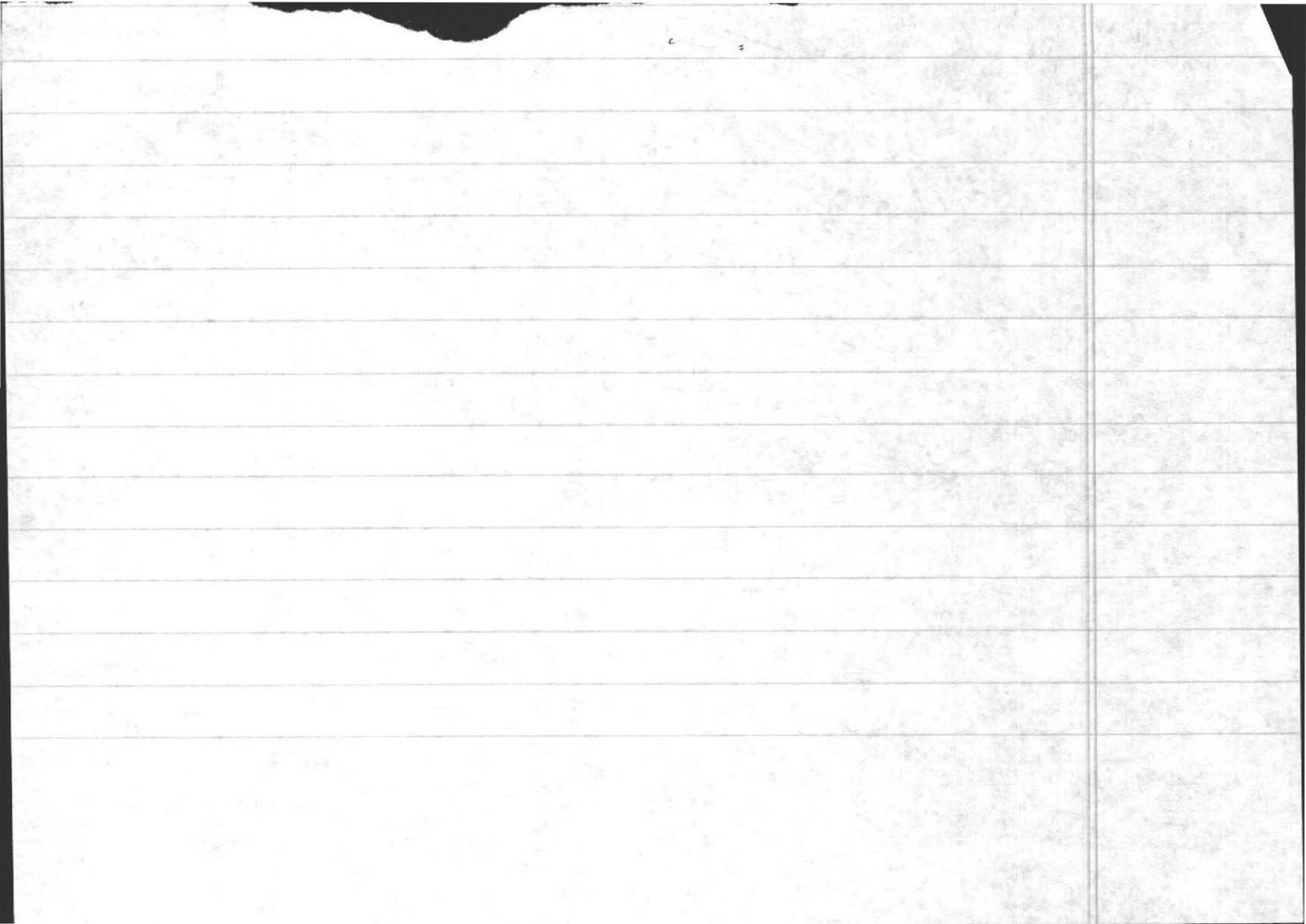
Stmber 575	House #	275	175 <sup>00</sup>
8/3/04	New Lot		175 <sup>00</sup>
	House Plans		100 <sup>00</sup>

2nd Lot New

5th

Mulos Parc CH # 4349 175<sup>00</sup> ✓ OK

Need to  
PAY 100 Plans  
+ Final Fee



J. RODGER CHEREWATTI  
15 FOXGLOVE LANE  
AMHERST, MA 01002

2/22/05

Per Tom,

Bill J. Rodger Cherewatti for \$450. (PERC TEST  
1 PLAN)

Spoke to Stanley Gawle - informed him on error of billing.  
He understands to pay \$100 for plans.

-Ruth



## Better Bones Shopping List

• cheese pizza • eggs • margarine • ice cream • taco • sardines • salmon

~~Whole Bone with Marrow~~  
Advantage

- Enlarge Days/Hours field

• liver • turnip greens • bok choy • multivitamins • collard greens • lasagna •

• broccoli • cheese • yogurt • skim milk • tofu •

February 15, 2005

Mr. Stanley Gawle  
575 Northeast St.  
Amherst, MA 01002

Dear Mr. Gawle,

Payment for the Percolation test for the new lot conducted by David Zarzonski on January 11, 2005, check #4349 in the amount of \$175.00 has been processed. The fee of \$100 for plans and final inspection for this lot can be paid when you submit the septic design plan.

Also, we would like to bring to your attention an unpaid balance due for:

- Percolation test (brick house lot) & Plans \$275.00
- Percolation test (new lot) \$175.00

*Conducted by Tom Dion on August 31, 2004*

**Balance Due: \$450.00**

Please make check payable to the Town of Amherst.

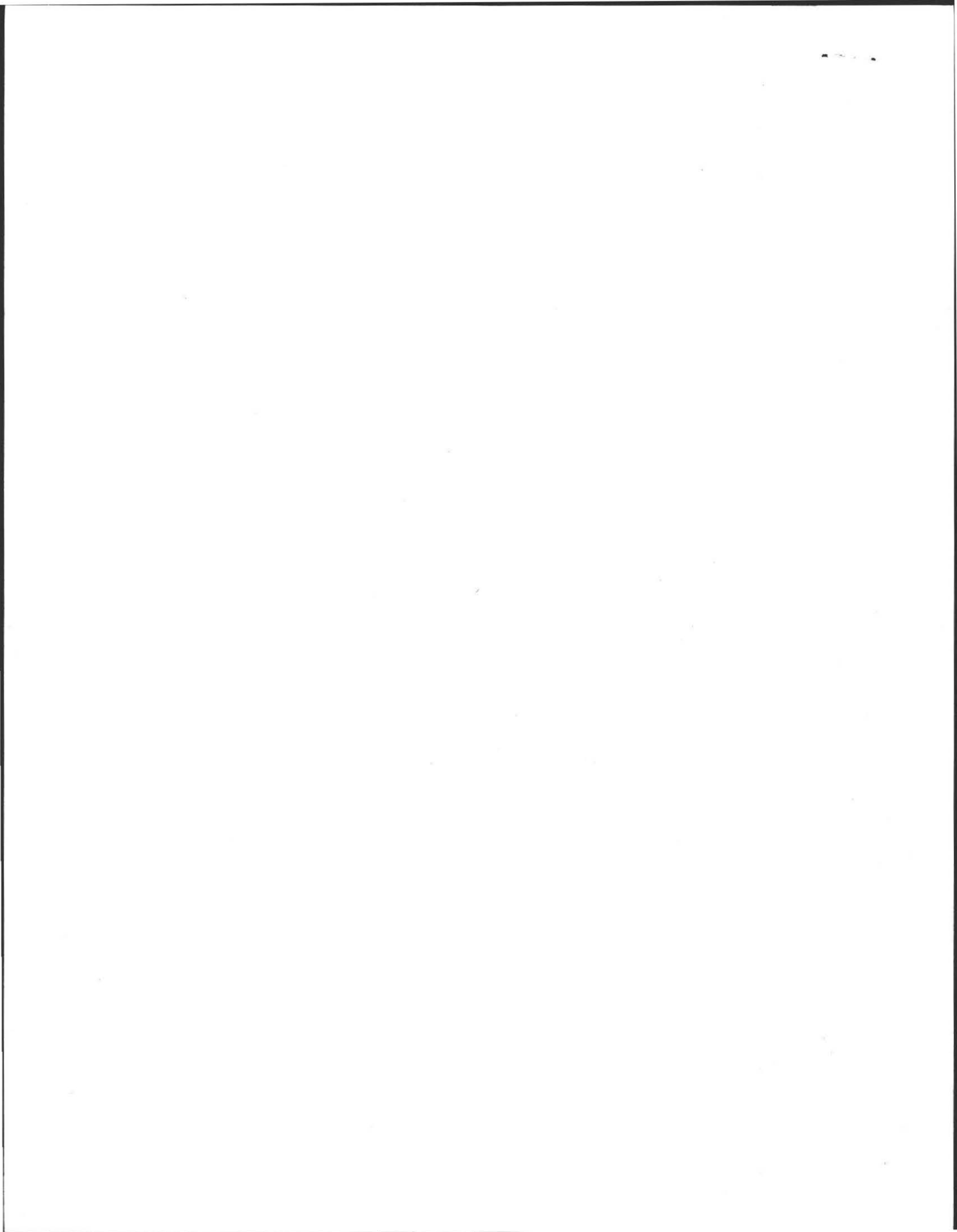
Mail to:

Environmental Health Services  
Amherst Health Department  
Bangs Community Center, 2<sup>nd</sup> Floor  
70 Boltwood Walk  
Amherst, MA 01002

We truly appreciate your cooperation. If you should have any questions please do not hesitate to call.

Sincerely,

Ruth Loreda Taylor  
Administrative Assistant



**AMHERST HEALTH DEPT.  
TOWN OF AMHERST  
HEALTH PERMITS**

**1413**

Received of J. Roger Cherevatti of 15 Fox Glove Lane, Amherst  
Name Address

For Property Located at: ~~Lauritt Ad.~~ 575 N. EAST same  
Street Address Owner

- |  |             |  |             |
|--|-------------|--|-------------|
| HEA009 Bakery<br>R6510 443509                          | _____       | HEA016 Septic Tank Permit-Installers<br>R6510 443511     | _____       |
| HEA001 Bed & Breakfast<br>R6510 443516                 | _____       | HEA017 Septic Tank Permit-Private<br>R6510 443510        | _____ #100- |
| HEA002 Catering License<br>R6510 443507                | _____       | HEA018 Septic Tank Reinspection Fee<br>R6510 432301      | _____       |
| HEA003 Food Handler<br>R6510 443515                    | _____       | HEA019 Sub-Division Review Fee<br>R6510 432306           | _____       |
| HEA004 Frozen Deserts<br>R6510 443501                  | _____       | HEA012 Swimming Pool Permits<br>R6510 443512             | _____       |
| HEA005 Health Dept. Housing Isp.<br>R6510 432302       | _____       | HEA020 Tanning License<br>R6510 443509                   | _____       |
| HEA006 Massage Therapy License<br>R6510 443504         | _____       | HEA034 Immunization Clinic<br>R6510 432307               | _____       |
| HEA008 Motel License<br>R6510 443506                   | _____       | HEA026 Smoking & Tobacco Reg. Violations<br>R6510 443518 | _____       |
| HEA010 Removal of Offal<br>R6510 443513                | _____       | HEA022 Tobacco License<br>R6510 443505                   | _____       |
| HEA021 Removal of Rubbish<br>R6510 443520              | _____       | HEA042 Body Arts / Tatoo<br>R6510 443521                 | _____       |
| HEA011 Percolation Test Fees <i>v2</i><br>R6510 432300 | _____ #350- | HEA043 Food Service Plan Review<br>R6510 432308          | _____       |
| HEA013 Recreation Camp License<br>R6510 443503         | _____       | HEA044 Porta Potties<br>R6510 432309                     | _____       |
| HEA014 Retail Store Permit<br>R6510 443514             | _____       | HEA045 Ice Rinks<br>R6510 443522                         | _____       |
| HEA015 Sanitary Code Booklets<br>R6510 432305          | _____       | HEA046 Rental Registration<br>R6510 432310               | _____       |
|  |             | HEA047 Fines<br>R6510 48200                              | _____       |
|  |             | HEA  | _____       |
|  |             | HEA  | _____       |

**TOTAL FEE:** #450

*[Signature]*  
 Amherst Health Department

2/2/05  
 Date

Must be Validated by the Collector's Office to be considered paid

OFFICE USE ONLY	
CHECK #	CASH
750197	11196
DATE: 2/2/05	11196
Payment: \$350.00	
Receipt #: 162146	
Check/Credit Card #: 6996	



UNIVERSITY OF CHICAGO

1950

Town of



# AMHERST *Massachusetts*

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002  
(413) 256-4077

(413) 256-4033 ENVIRONMENTAL HEALTH SERVICES  
(413) 256-4053 (FAX)  
[www.town.amherst.ma.us/health](http://www.town.amherst.ma.us/health)

February 22, 2005

Mr. J. Rodger Cherewatti  
15 Foxglove Lane  
Amherst, MA 01002

Dear Mr. Cherewatti,

Per your conversation with Tom Dion on February 22, 2005 a balance of \$450.00 was left unpaid. The following was the work performed conducted by Tom Dion on August 31, 2004:

- Percolation test (brick house lot) & Plans \$275.00
- Percolation test (new lot) \$175.00

**Balance Due: \$450.00**

Please make check payable to the Town of Amherst.

Mail to:

Environmental Health Services  
Amherst Health Department  
Bangs Community Center, 2<sup>nd</sup> Floor  
70 Boltwood Walk  
Amherst, MA 01002

*RET #1413  
Pd  
ck# 6496  
2/22/05*

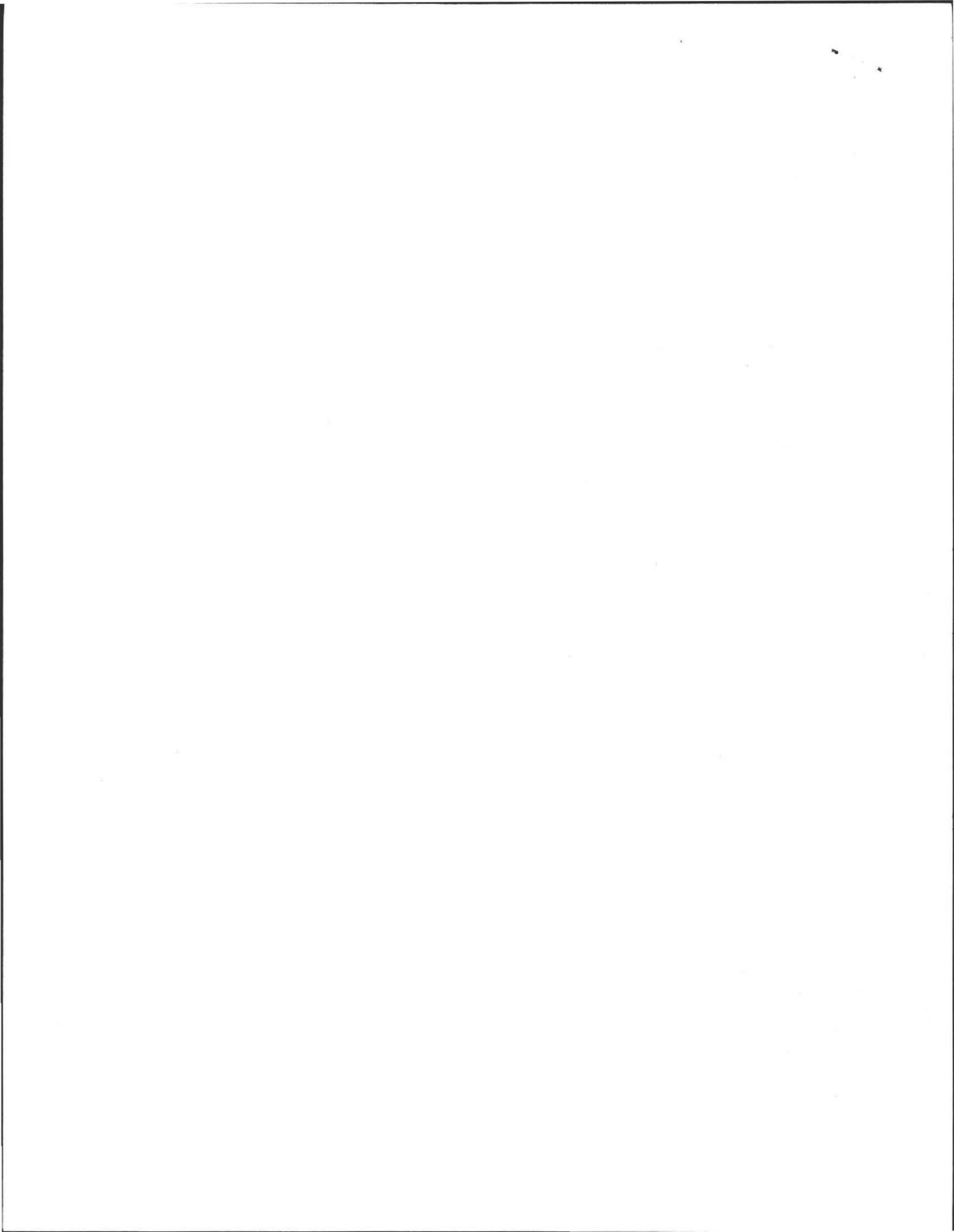
We truly appreciate your cooperation. If you should have any questions please do not hesitate to call.

Sincerely,

Ruth Loreda Taylor  
Administrative Assistant



MAKE SMOKING HISTORY



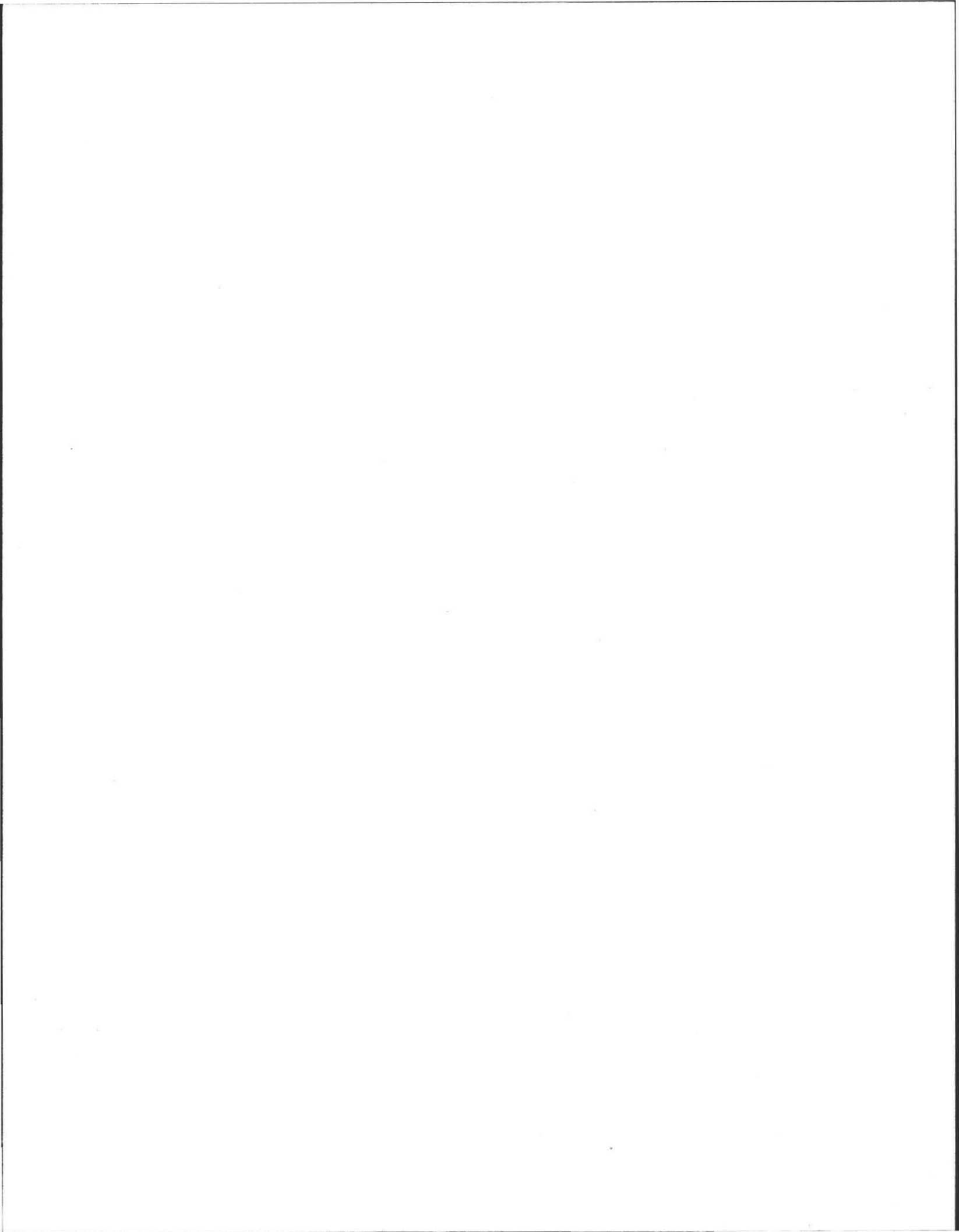


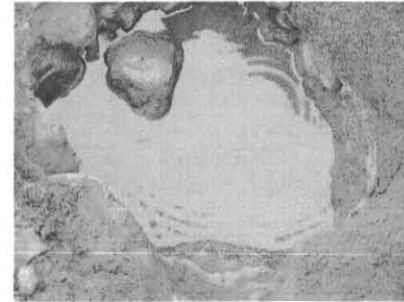
**Case Activity Listing**  
**Case #: SPT2005-00142**

1/26/2005  
11:42:25AM

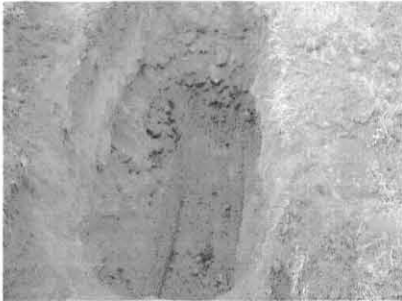
Activity	Description	Date 1	Date 2	Date 3	Hold	Disp	Assigned To	Done By	Updated By	Notes
SPTA010	Application Entered			12/22/2004	None			EJD	12/22/2004 EJD	
SPTA350	Perc Test			8/31/2004	Hold	DONE		EJD	12/22/2004 EJD	



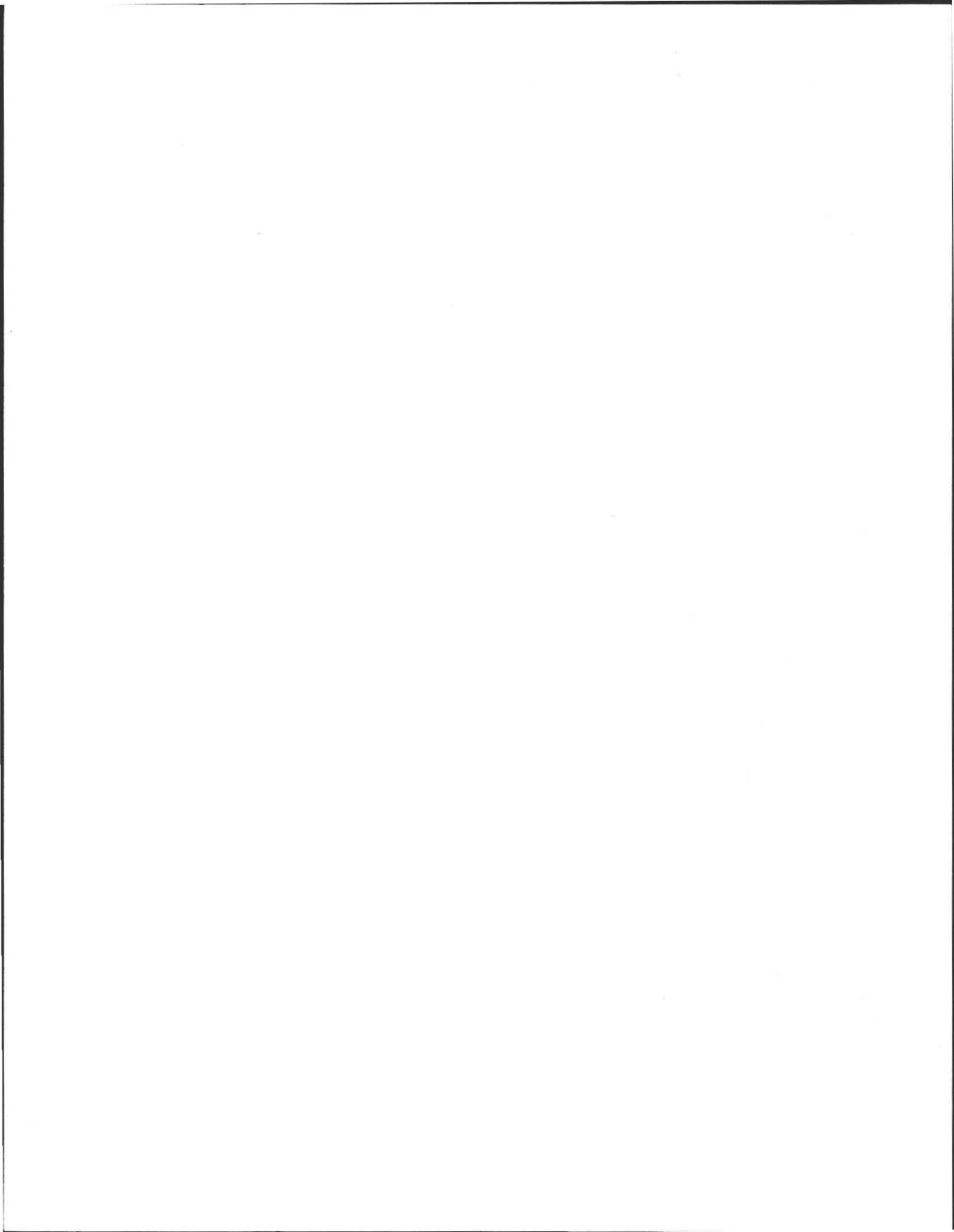




575 North East Street Hole 1 repair perc.

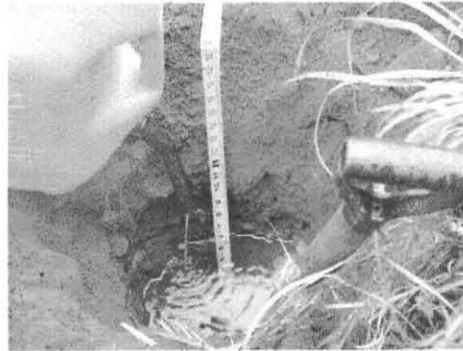


575 North East Street Hole 2 repair  
Engineer: Alan Weiss  
Excavating: Karl's

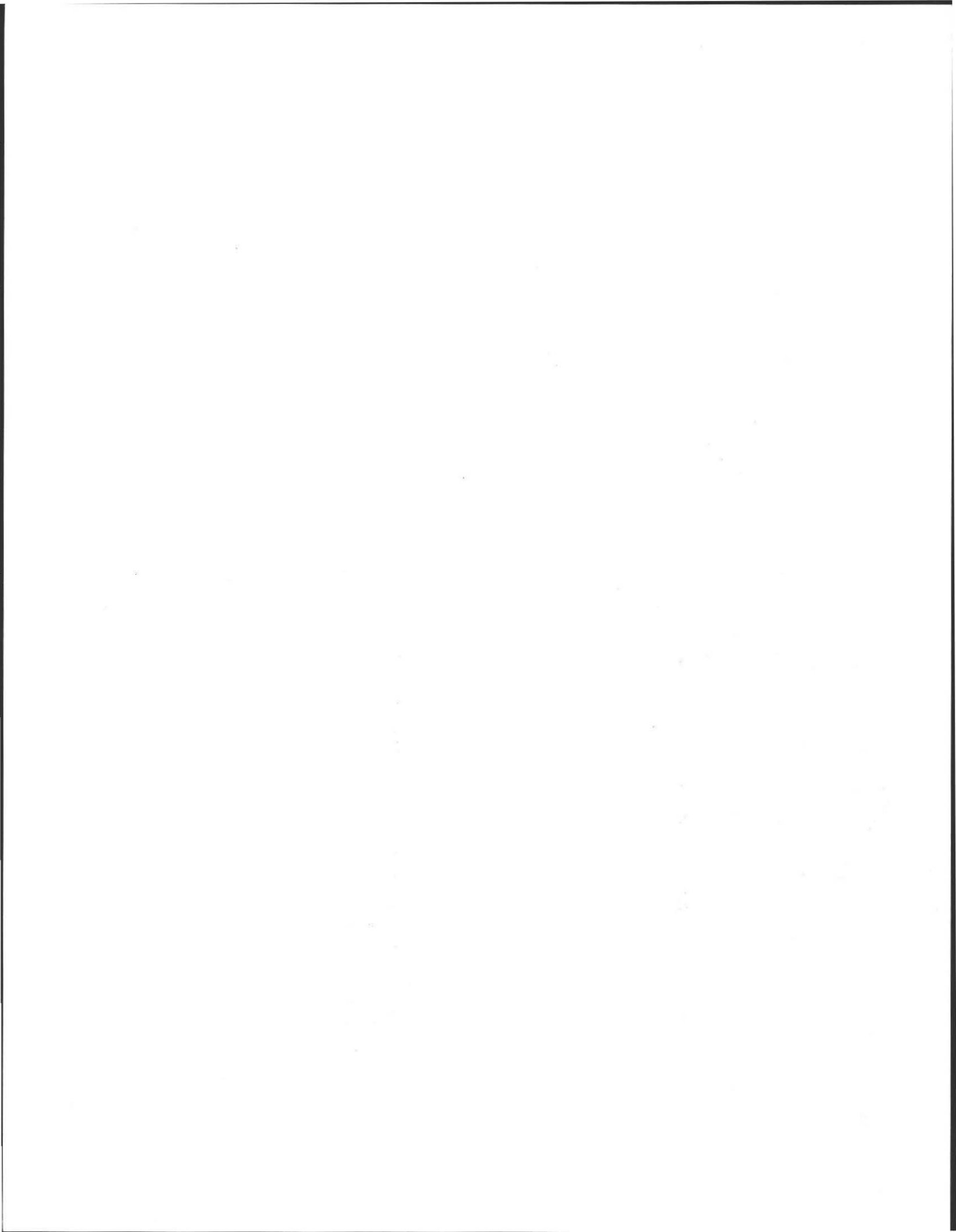


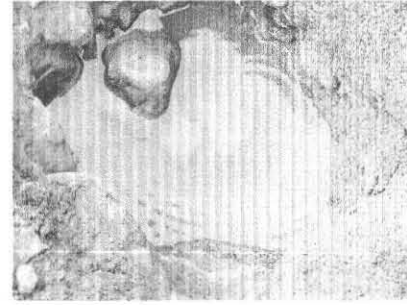
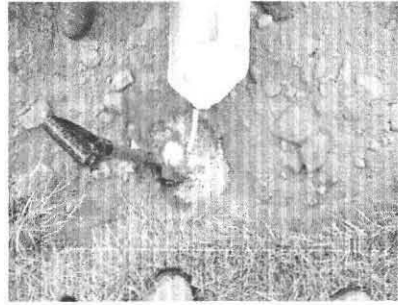
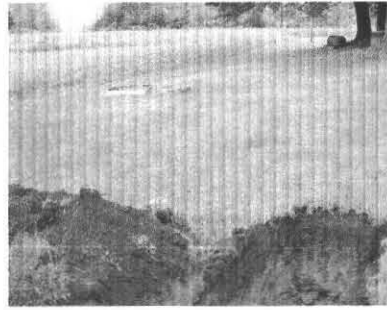


575 North East Street New lot Deep hole and perc. 1A

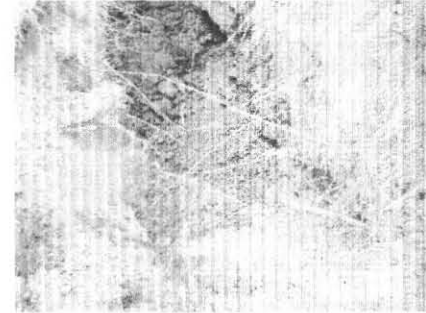


575 North East Street New lot Deep hole and perc. 2A  
Engineer: Alan Weiss  
Excavator : Karls

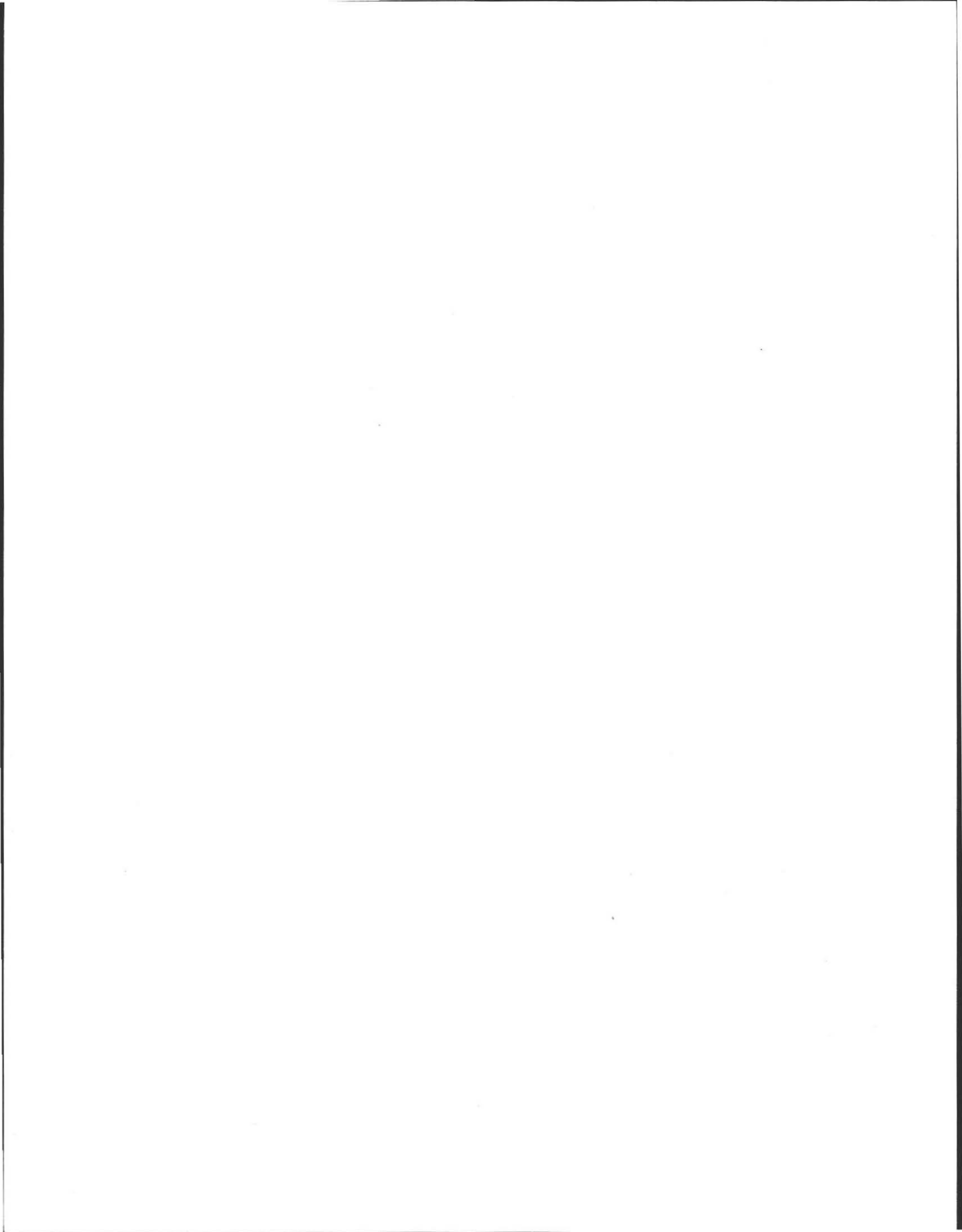




575 North East Street Hole 1 repair perc.



575 North East Street Hole 2 repair  
Engineer: Alan Weiss  
Excavating: Karl's



REPAIR

Buyer Roger Cherrwatti

FORM 11: Soil Evaluation Form

NO: \_\_\_\_\_

Commonwealth of Massachusetts

Town of Amherst

Soil Suitability Assessment : On-Site Sewage Disposal

Determination: Seasonal High Water Table

REPAIR  
PLAN 275-a

Performed By: AL Weiss Date: 8/31/04  
Witnessed By: Tom Dixon

Methods Used:

Location Address of: Lot #	Owner's Name: <u>Stanley Gawle</u> Address of: <u>575 North East St</u> Telephone: _____
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

- Depth observed standing in observation hole \_\_\_\_\_ inches
- Depth weeping from side of observation hole 72 inches
- Depth to soil mottles 70 inches
- Ground water adjustment \_\_\_\_\_ feet

Index Well No. \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_  
Adjustment factor \_\_\_\_\_ Adjusted ground water level \_\_\_\_\_

Office Review

Depth of Naturally Occurring Previous Material

Published Soil Survey Available? No  Yes   
Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_ Soil Map Unit \_\_\_\_\_  
Drainage Class \_\_\_\_\_ Soil Limitations \_\_\_\_\_

Does at least four feet of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? \_\_\_\_\_

Surficial Geologic Report Available? No  Yes   
Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_  
Geologic Material (map unit) \_\_\_\_\_  
Landform \_\_\_\_\_

If not, what is the depth of naturally occurring previous material?  
\_\_\_\_\_

Flood Insurance Rate Map:  
Above 500 year flood boundary? No  Yes   
Within 500 year flood boundary? No  Yes   
Within 100 year flood boundary? No  Yes

Certification

Wetland Area:  
National Wetland Inventory Map (map unit) \_\_\_\_\_  
Wetlands Conservancy Program Map (map unit) \_\_\_\_\_

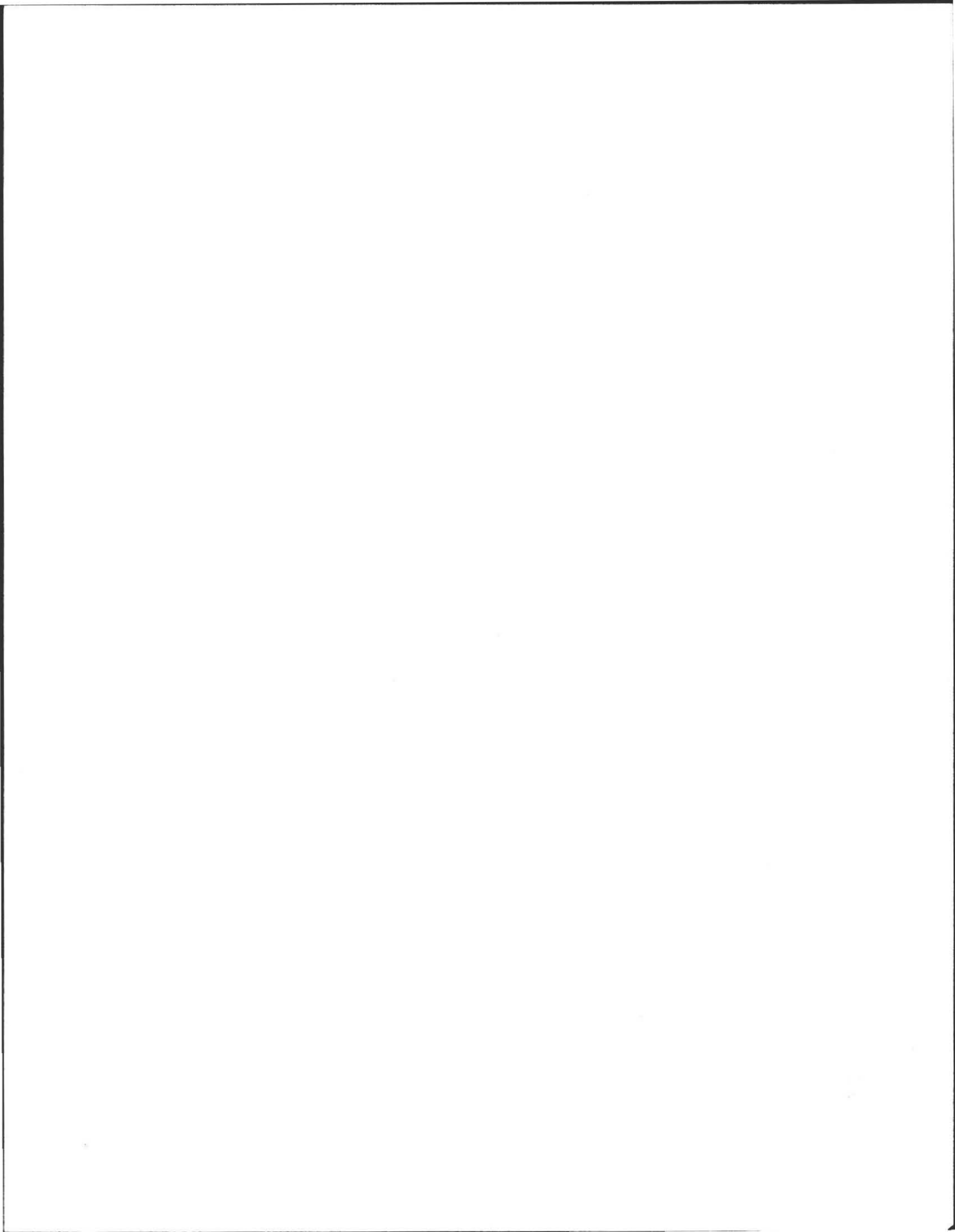
I certify that on \_\_\_\_\_ (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017.

Current Water Resource Conditions (USGS): month \_\_\_\_\_  
Range: Above Normal  Normal  Below Normal

Signature \_\_\_\_\_  
Date \_\_\_\_\_

Other Reference Reviewed:





On-Site Review

Deep Hole Number ① Date: 8/31/04 Time 8:30 AM  
 Weather \_\_\_\_\_  
 Location (identify on site plan) \_\_\_\_\_  
 Land Use RURAL RESIDENTIAL Slope (%) 2  
 Surface Stone FEW  
 Vegetation: GRASSES

Landform: TERRACE

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body 100+ feet  
 Possible Wet Area 100+ feet  
 Drinking Water Well NONE feet  
 Drainageway 100+ feet  
 Property Line 25+ feet  
 Other \_\_\_\_\_

\* DUG WELL TO BE FILLED

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-6"	A	FSL	10YR 3/3		FRIABLE
6-22"	B	FSL	10YR 5/4		
22-70"	C <sub>1</sub>	S		48" 10YR 6/8	C <sub>1</sub> SAND + GRAVEL
70"-106"	C <sub>2</sub>	FSL	2.5Y 4/3 2.5Y 4/2	2.5Y 4/2	20% COBBLES F. SAND + SILT VARIABLE

Parent Material (geologic) OUT WASH  
 Depth to Bedrock 100+  
 Depth to Groundwater:  
 Standing Water in the Hole 76"  
 Weeping from Pit Face 76"  
 Estimated Seasonal High Water 48"

575. Northeast St  
 Reno NV

On-Site Review

Deep Hole Number ② Date: 8/31/04 Time 8:30 AM  
 Weather CLOUDS  
 Location (identify on site plan) \_\_\_\_\_  
 Land Use RURAL RESIDENTIAL Slope (%) 2  
 Surface Stone FEW  
 Vegetation: GRASSES

Landform: TERRACE

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

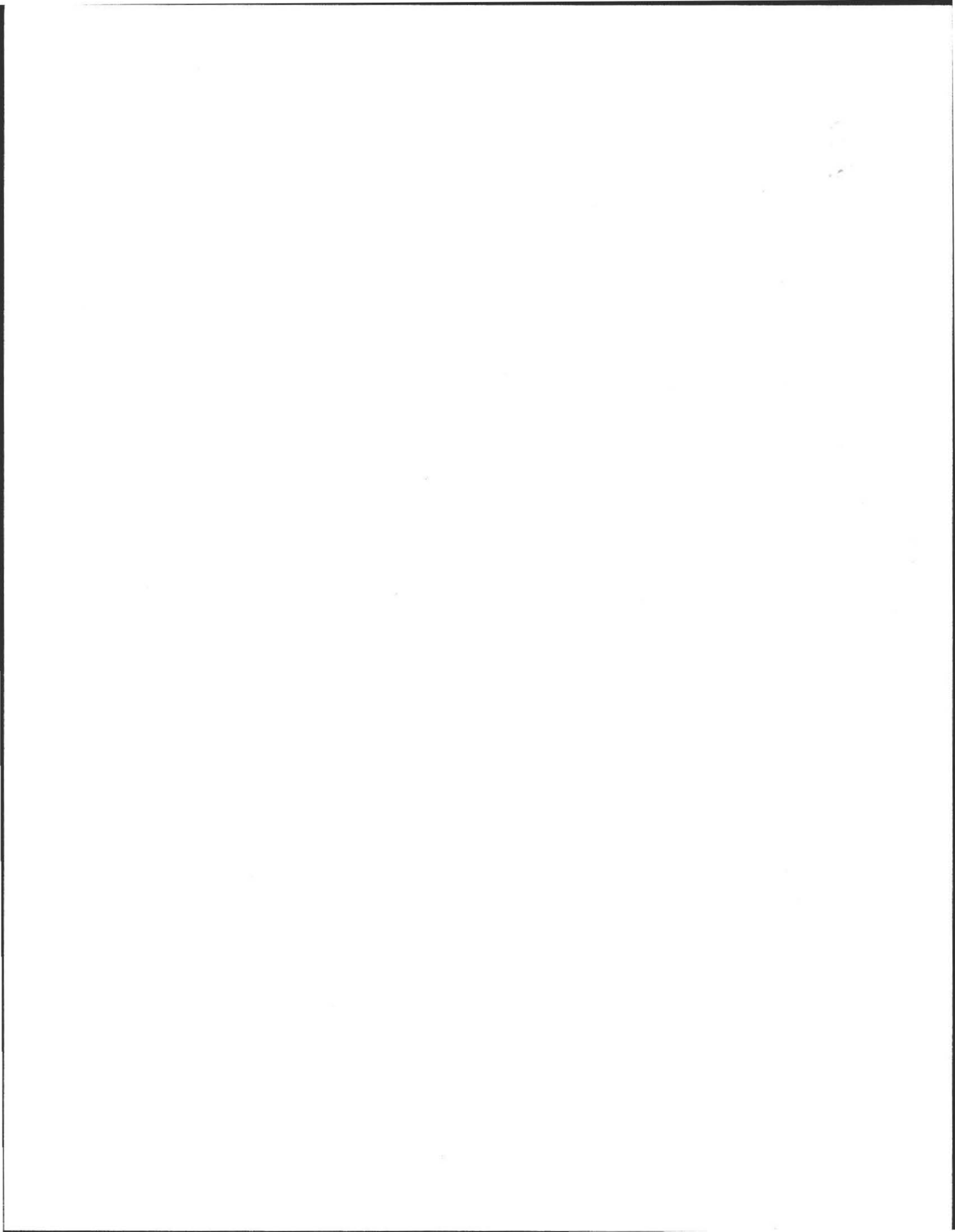
Open Water Body 100+ feet  
 Possible Wet Area 100+ feet  
 Drinking Water Well \* feet  
 Drainageway 100+ feet  
 Property Line 25+ feet  
 Other \_\_\_\_\_

\* DUG WELL TO BE FILLED

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-6"	A	<del>FSL</del> FSL	10YR 3/3		FRIABLE LOOSE
6-24"	Bw	FSL			FRIABLE
24"-96"	C <sub>1</sub>	S		48" 10YR 6/8	C <sub>1</sub> SAND + GRAVEL 20% COBBLES

Parent Material (geologic) OUT WASH  
 Depth to Bedrock 100+  
 Depth to Groundwater:  
 Standing Water in the Hole NONE  
 Weeping from Pit Face NONE  
 Estimated Seasonal High Water 48"



FORM 12: Percolation Test

Location Address or Lot #

575 North East St

Commonwealth of Massachusetts

Town of Amherst

PERCOLATION TEST *		
DATE:	8/31/04	TIME:
Observation Hole #	①	
Depth of Perc	40"	
Start Pre-soak	8:25	
End Pre-soak	8:40	
Time at 12"	8:44	REPAIR
Time at 9"	8:45	
Time at 6"	8:48	
Time (9"-6")	4	
Rate Min./Inch	< 2	

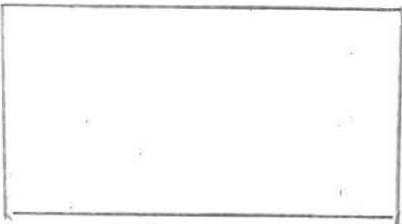
\*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed  Site failed

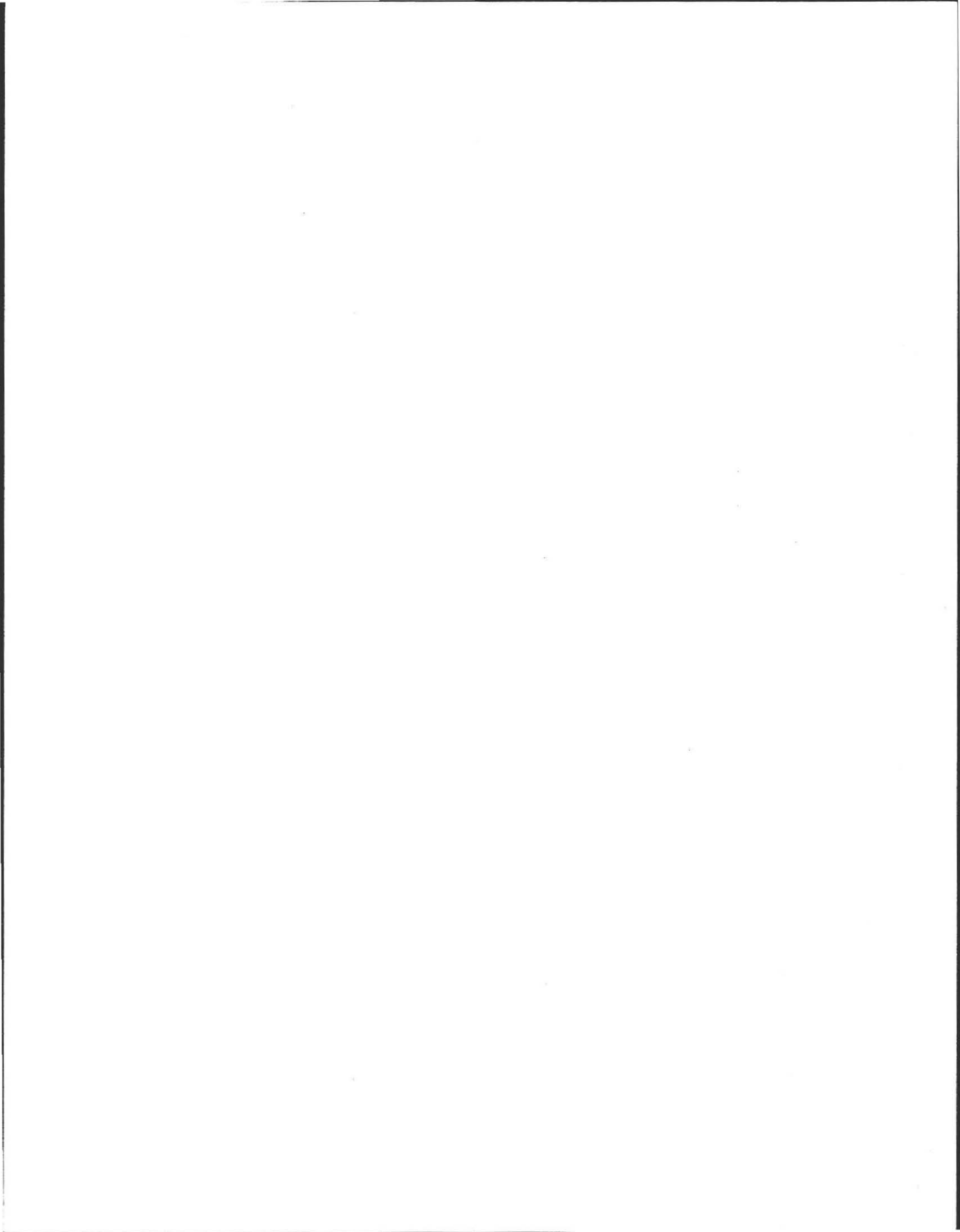
Performed by AL Weiss

Witnessed by Tom Dion

Comments: 5' OFFSET



North East St



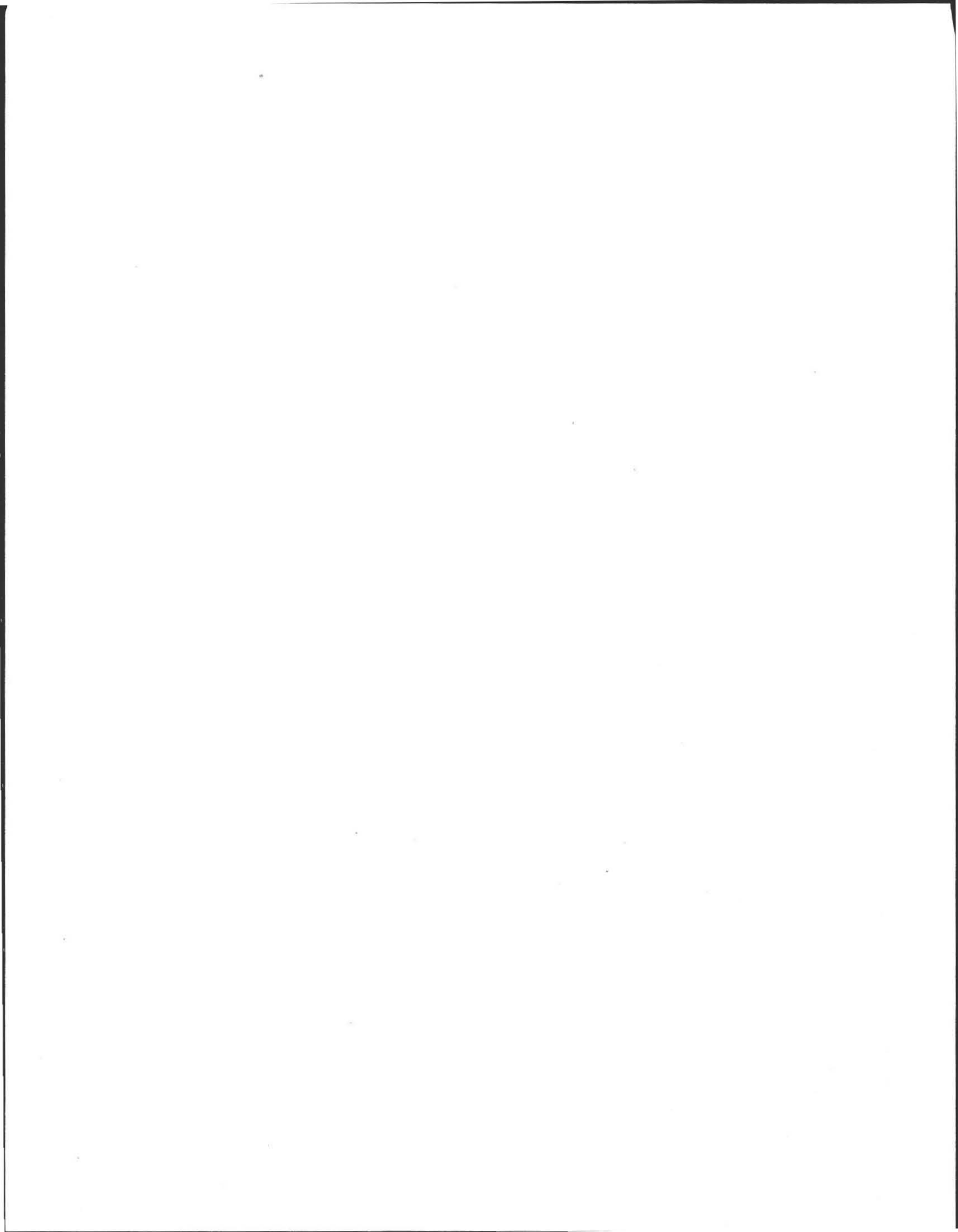


575 North East Street New lot Deep hole and perc. 1A



575 North East Street New lot Deep hole and perc. 2A

ENGINEER: ALAN WEISS  
EXCAVATING: KARLS.



NO: \_\_\_\_\_

New Lot

Perce Test 175<sup>00</sup>  
Plus 100  
Final  
225<sup>00</sup>

Commonwealth of Massachusetts  
Town of Amherst

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: AL Weiss Date: 8/31/04  
Witnessed By: Tom Drai

Location Address of: Lot #	Owner's Name: <u>Stanley Gawke</u> Address of: <u>575 Northeast St</u> Telephone: _____
New Construction <input type="checkbox"/> Repair <input type="checkbox"/>	

Office Review

Published Soil Survey Available? No  Yes   
Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_ Soil Map Unit \_\_\_\_\_  
Drainage Class \_\_\_\_\_ Soil Limitations \_\_\_\_\_

Surficial Geologic Report Available? No  Yes   
Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_  
Geologic Material (map unit) \_\_\_\_\_  
Landform \_\_\_\_\_

Flood Insurance Rate Map:  
Above 500 year flood boundary? No  Yes   
Within 500 year flood boundary? No  Yes   
Within 100 year flood boundary? No  Yes

Wetland Area:  
National Wetland Inventory Map (map unit) \_\_\_\_\_  
Wetlands Conservancy Program Map (map unit) \_\_\_\_\_

Current Water Resource Conditions (USGS): month \_\_\_\_\_  
Range: Above Normal  Normal  Below Normal

Other Reference Reviewed:

Determination: Seasonal High Water Table

Methods Used:

- Depth observed standing in observation hole \_\_\_\_\_ inches
- Depth weeping from side of observation hole \_\_\_\_\_ inches
- Depth to soil mottles 42 inches
- Ground water adjustment \_\_\_\_\_ feet

Index Well No. \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_  
Adjustment factor \_\_\_\_\_ Adjusted ground water level \_\_\_\_\_

Depth of Naturally Occurring Previous Material

Does at least four feet of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? yes

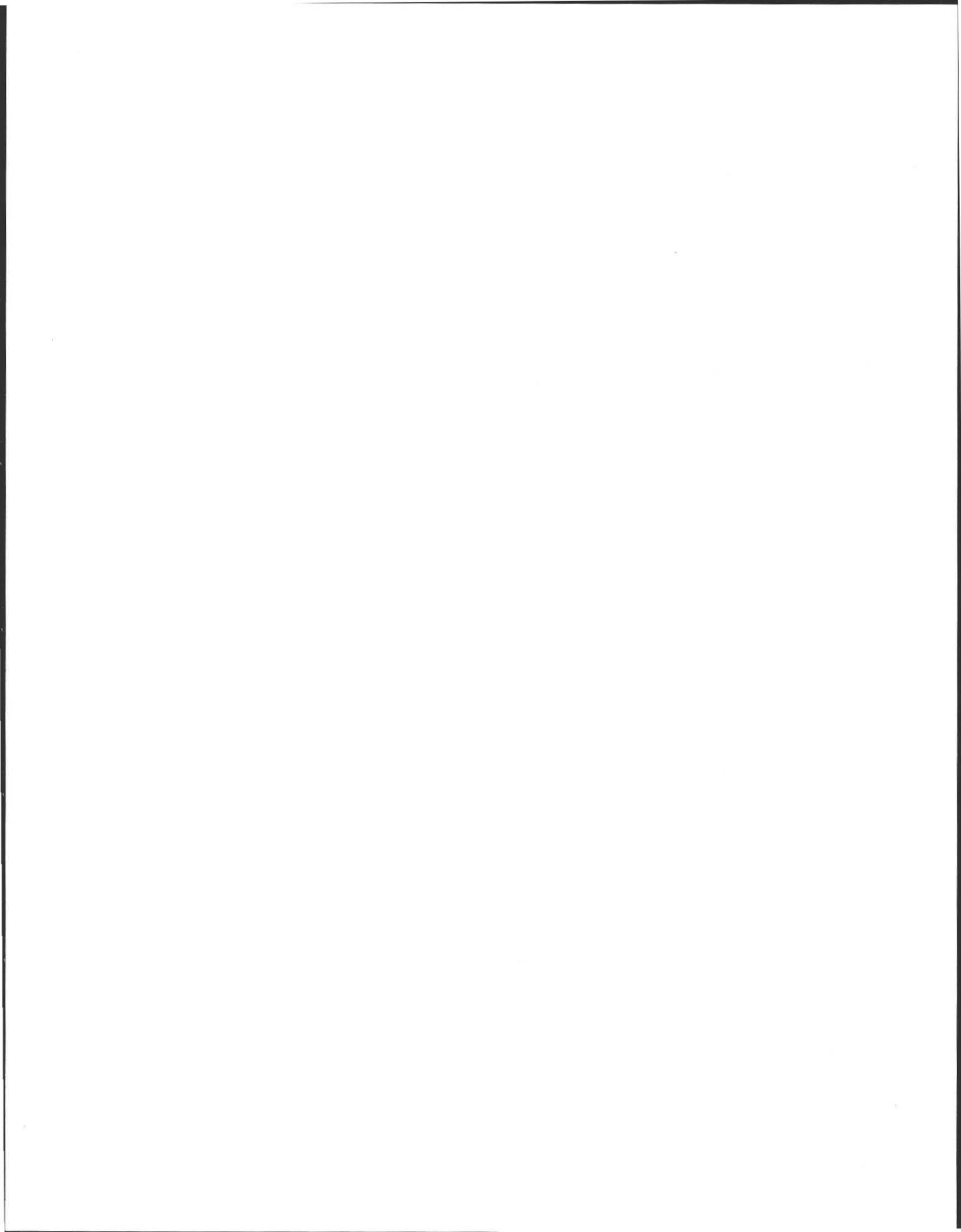
If not, what is the depth of naturally occurring previous material?  
\_\_\_\_\_

Certification

I certify that on \_\_\_\_\_ (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017.

Signature \_\_\_\_\_  
Date \_\_\_\_\_





New Lot

575 Northeast St

On-Site Review

Deep Hole Number 1 Date: 8/31/04 Time \_\_\_\_\_

Weather \_\_\_\_\_

Location (identify on site plan) \_\_\_\_\_

Land Use FARM/HAYFIELD Slope (%) 2

Surface Stone FRW

Vegetation: GRASSES

Landform: TRACKED

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body 100+ feet  
Possible Wet Area 100+ feet  
Drinking Water Well \_\_\_\_\_ feet  
Drainageway 100+ feet  
Property Line 25' feet  
Other \_\_\_\_\_

DEEP OBSERVATION HOLE LOG					
depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-16"	Ap	FSL	10YR 3/3		FR, MBLK, LOOSE
16"-26"	Bw	FSL	10YR 5/6		FR, MBLK
26-96"	C <sub>1</sub>	FS	2.5Y 4/3	42" 10YR 6/8 2.5Y 4/2	F. M. SAND. LOOSE VARIKO

Parent Material (geologic) LACOSTRINK

Depth to Bedrock 82" 96"

Depth to Groundwater:

Standing Water in the Hole 82"  
Weeping from Pit Face 80"  
Estimated Seasonal High Water 42"

On-Site Review

Deep Hole Number 2 Date: 8/31/04 Time 9:00 AM

Weather RHW 70

Location (identify on site plan) \_\_\_\_\_

Land Use FARM/HAYFIELD Slope (%) 2

Surface Stone FRW

Vegetation: GRASSES

Landform: TRACKED

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body 100+ feet  
Possible Wet Area 100+ feet  
Drinking Water Well \_\_\_\_\_ feet  
Drainageway 100+ feet  
Property Line 25' feet  
Other \_\_\_\_\_

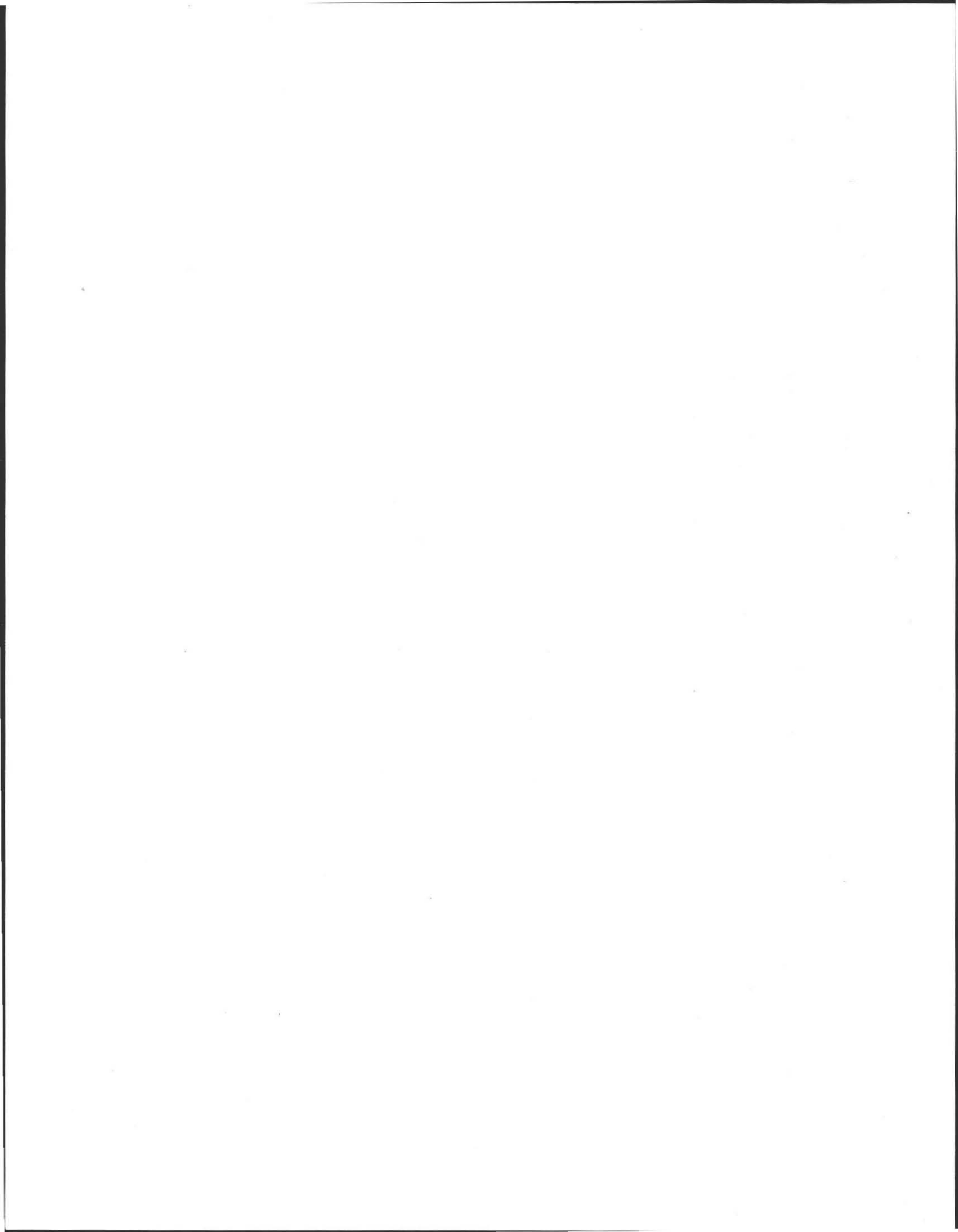
DEEP OBSERVATION HOLE LOG					
depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-16"	Ap	F.S.L.	10YR 3/3		FR, MBLK, LOOSE
16"-27"	Bw	F.S.L.	10YR 5/6		FR, MBLK
27-98"	C <sub>1</sub>	S	2.5Y 4/3	42" 10YR 6/8 2.5Y 4/2	F. SAND

Parent Material (geologic) LACOSTRINK

Depth to Bedrock 96"

Depth to Groundwater:

Standing Water in the Hole 82"  
Weeping from Pit Face 80"  
Estimated Seasonal High Water 42"



New Lot

FORM 12: Percolation Test  
Location Address or Lot # 575 Northway St

Commonwealth of Massachusetts  
Town of

PERCOLATION TEST *		
DATE:	8/31/04	
TIME:		
Observation Hole #	①	②
Depth of Perc	40"	39"
Start Pre-soak	9:00	9:05
End Pre-soak	9:15	9:20
Time at 12"	9:15	9:20
Time at 9"	9:20	9:23
Time at 6"	9:31	9:26
Time (9"-6")	11	42
Rate Min./Inch	3 min/in.	42

\*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed  Site failed

Performed by AL Weirs Cold Spring

Witnessed by Tam Dion

Comments:

