

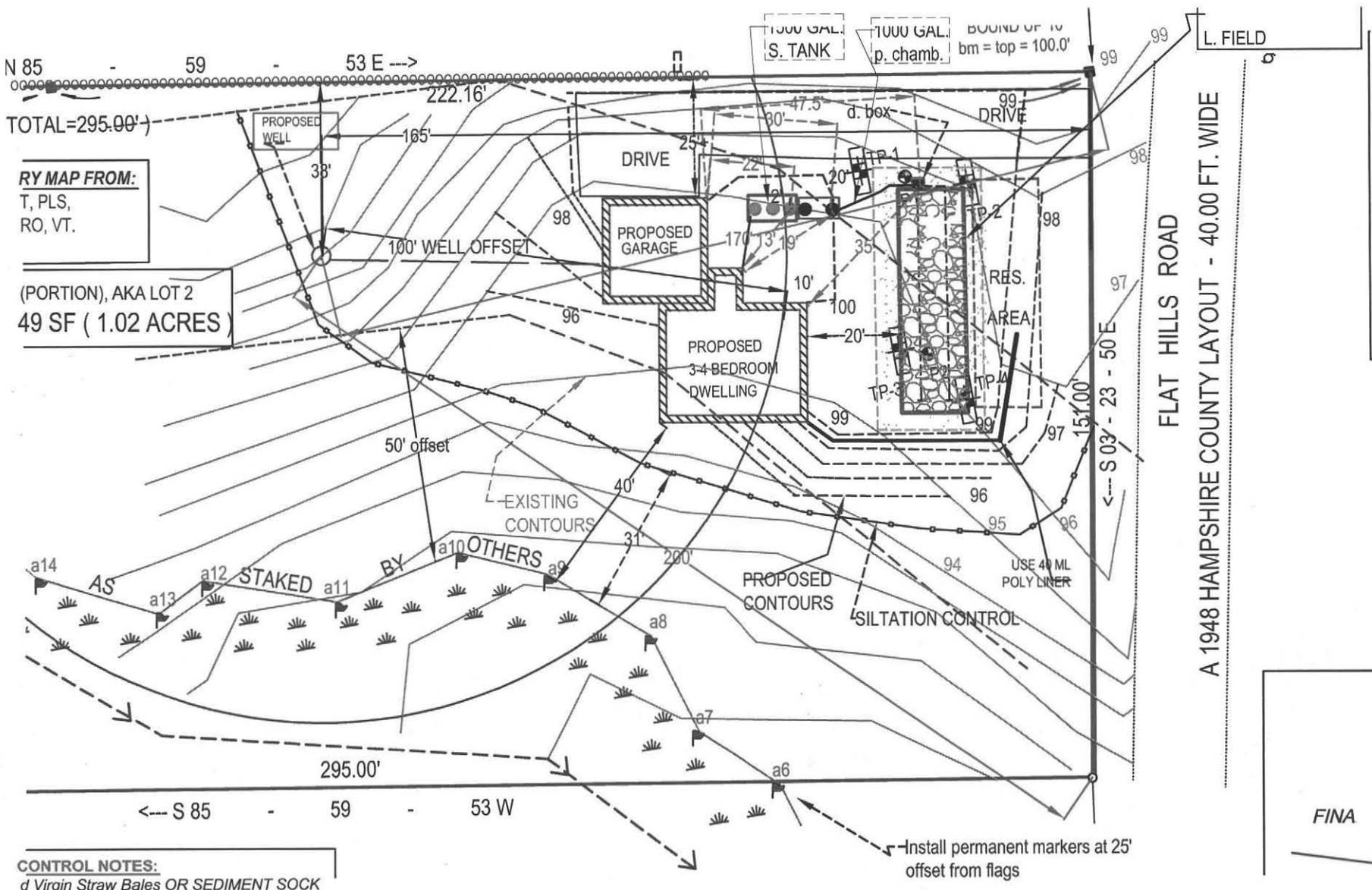
#298

~~FLAT HILLS~~  
FLAT HILLS



298 FLAT HILLS ROAD

AS-BUILT  
REC'D 3/12/2013



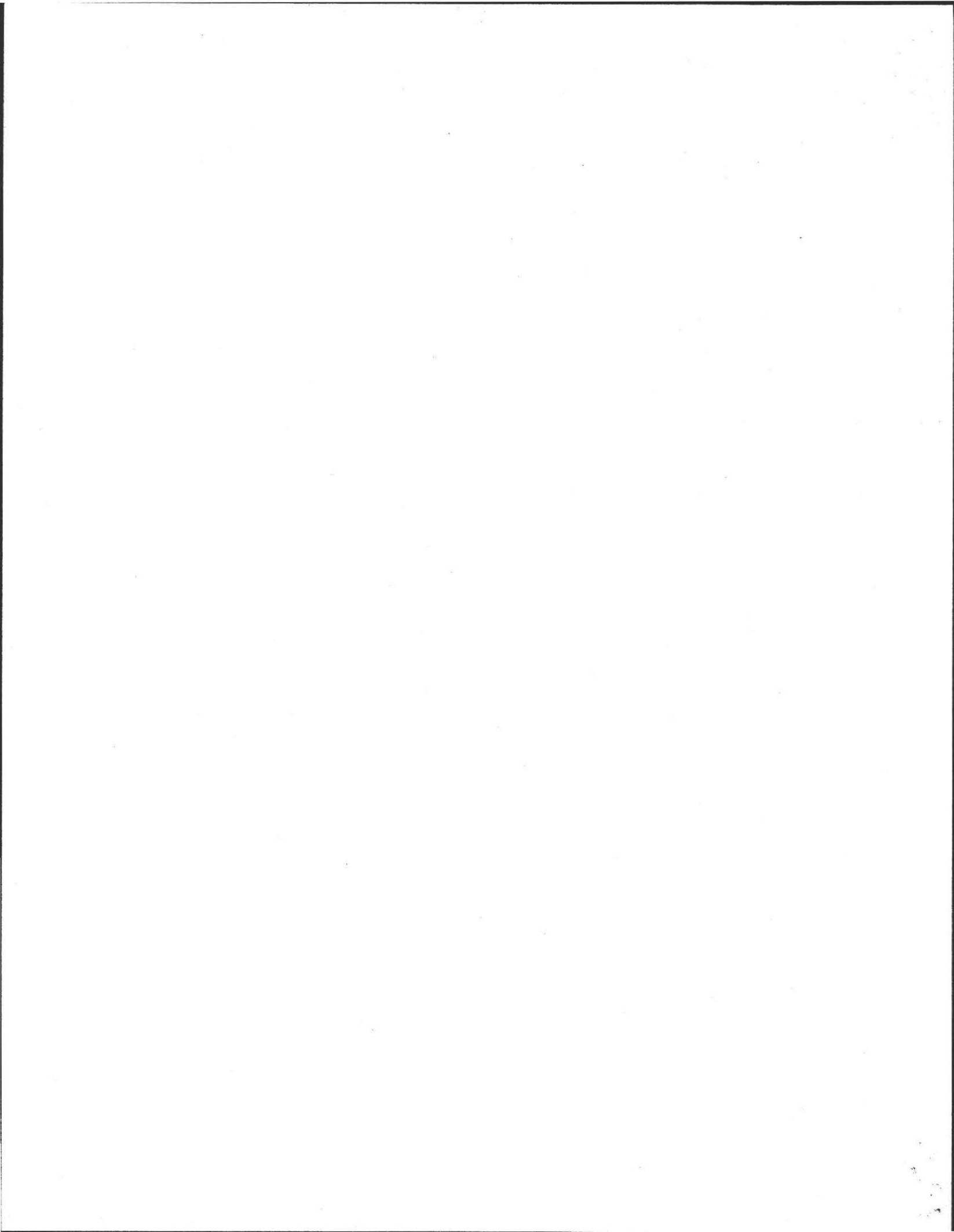
RY MAP FROM:  
T, PLS,  
RO, VT.

(PORTION), AKA LOT 2  
49 SF ( 1.02 ACRES )

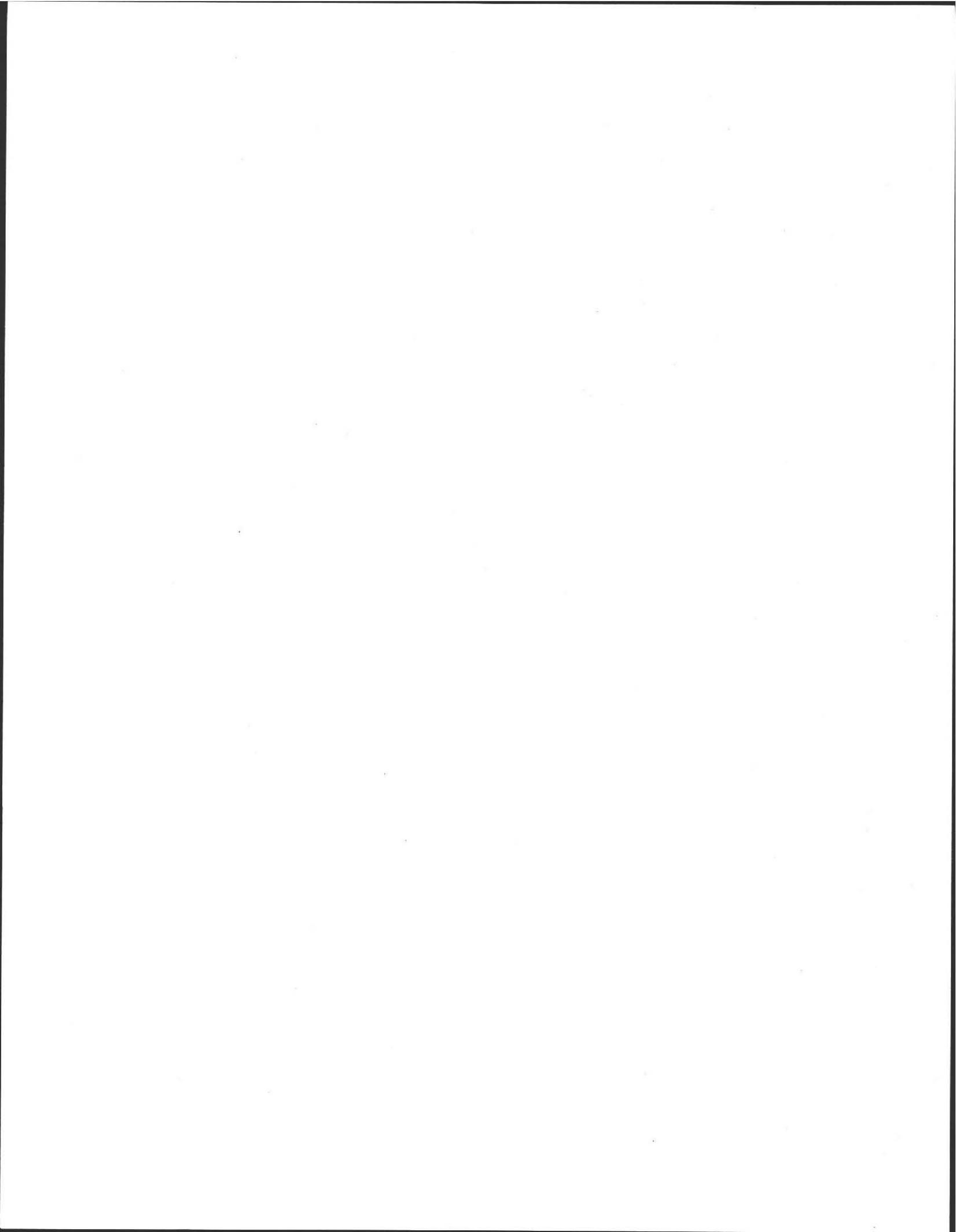
FLAT HILLS ROAD  
A 1948 HAMPSHIRE COUNTY LAYOUT - 40.00 FT. WIDE

FINA

CONTROL NOTES:  
d Virgin Straw Bales OR SEDIMENT SOCK

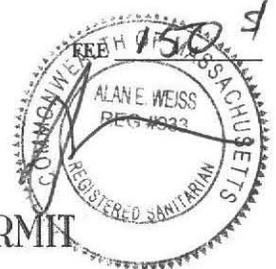






No. 12-11

APP. 13136  
BACD 4557



### COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

### APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for a Permit to Construct  Repair ( ) Upgrade ( ) Abandon ( ) -  Complete System  Individual Components

Location <u>Lot 2 Flat Hills Rd.</u>	Owner's Name <u>Ken Leblanc, Homes By Leblanc.</u>
Map/Parcel# <u>6A 91 (portion)</u>	Address <u>Pob 307, J. Hadley, MA, 01075</u>
Lot# <u>Lot #2</u>	Telephone#
Installer's Name <u>River Drive Exca.</u>	Designer's Name <u>Alan Weiss</u>
Address <u>Hadley, MA</u>	Address <u>Belchertown, MA</u>
Telephone# <u>549-5326</u>	Telephone# <u>413-323-5952</u>

Type of Building 3-4BR2 Residence Lot Size 4444.72750 ± 1 sq. ft.  
 Dwelling - No. of Bedrooms 3 Garbage grinder No  
 Other - Type of Building \_\_\_\_\_ No. of persons \_\_\_\_\_ Showers ( ), Cafeteria ( )  
 Other Fixtures \_\_\_\_\_  
 Design Flow (min. required) 110 gpd Calculated design flow 440 Design flow provided 444 gpd  
 Plan: Date 1/22/2012 Number of sheets \_\_\_\_\_ Revision Date \_\_\_\_\_  
 Title Septic System Plan For Ken Leblanc.  
 Description of Soil(s) Class 1: LS.  
 Soil Evaluator Form No. \_\_\_\_\_ Name of Soil Evaluator A. Weiss Date of Evaluation 12/3/09  
G. Cartiermeade  
 DESCRIPTION OF REPAIRS OR ALTERATIONS Complete new const.

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.  
 Signed Kenneth C. Uble Date 4-5-12

Inspections \_\_\_\_\_

No. 12-11

### COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

### CERTIFICATE OF COMPLIANCE

Description of Work:  Individual Component(s)  Complete System  
 The undersigned hereby certify that the Sewage Disposal System; Constructed , Repaired ( ), Upgraded ( ), Abandoned ( )  
 by: KEN LEBLANC / HOMES BY LEBLANC  
 at #298 FLAT HILLS ROAD (LOT #2 - 6A 91 PORTION)  
 has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 12-11, dated 1/22/2012. Approved Design Flow 444 (gpd)  
 Installer RIVER DRIVE EXCAV.  
 Designer ALAN WEISS Inspector: Edward R. Smith Date: 3-12-2013  
 The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

FEE \$150

No. 12-11

### COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

### DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct  Repair ( ) Upgrade ( ) Abandon ( ) an individual sewage disposal system at LOT 2 FLAT HILLS ROAD as described in the application for Disposal System Construction Permit No. 12-11, dated 1/22/2012

FEE \$150

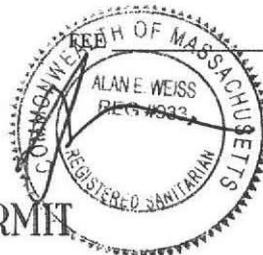
Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.  
 Form 1255 Rev. 5/96 A.M. Sullkin Co. Charlestown, MA Date 4/6/2012 Board of Health Edward R. Smith



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

# COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.



## APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for a Permit to Construct  Repair ( ) Upgrade ( ) Abandon ( ) -  Complete System  Individual Components

Location <u>Lot 2 Flat Hills Rd.</u>	Owner's Name <u>Ken Leblanc, Homes By Leblanc</u>
Map/Parcel# <u>6A 91 (portion)</u>	Address <u>Pob 307, S. Hadley, MA. 01075</u>
Lot# <u>Lot #2</u>	Telephone#
Installer's Name <u>River Drive Exco.</u>	Designer's Name <u>Alan Weiss</u>
Address <u>Hadley, MA.</u>	Address <u>Belchertown, MA.</u>
Telephone# <u>549-5396</u>	Telephone# <u>413-323-5952</u>

Type of Building 3-4 BR Residence Lot Size 4400.42750 +/- sq. ft.

Dwelling - No. of Bedrooms " " Garbage grinder No

Other - Type of Building \_\_\_\_\_ No. of persons \_\_\_\_\_ Showers ( ), Cafeteria ( )

Other Fixtures \_\_\_\_\_

Design Flow (min. required) 110 gpd Calculated design flow 440 Design flow provided 444 gpd

Plan: Date 1/22/2012 Number of sheets \_\_\_\_\_ Revision Date \_\_\_\_\_

Title Septic System Plan For Ken Leblanc.

Description of Soil(s) Class 1: L3.

Soil Evaluator Form No. \_\_\_\_\_ Name of Soil Evaluator A. Weiss Date of Evaluation 12/3/09.

Soil Evaluator G. Courtenay

DESCRIPTION OF REPAIRS OR ALTERATIONS Complete new const.

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Inspections \_\_\_\_\_

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

# COMMONWEALTH OF MASSACHUSETTS

FEE \_\_\_\_\_

Board of Health, \_\_\_\_\_, MA.

## CERTIFICATE OF COMPLIANCE

Description of Work:  Individual Component(s)  Complete System

The undersigned hereby certify that the Sewage Disposal System; Constructed ( ), Repaired ( ), Upgraded ( ), Abandoned ( )

by: \_\_\_\_\_

at \_\_\_\_\_

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. \_\_\_\_\_, dated \_\_\_\_\_, Approved Design Flow \_\_\_\_\_ (gpd)

Installer \_\_\_\_\_

Designer: \_\_\_\_\_ Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

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

FEE \_\_\_\_\_

# COMMONWEALTH OF MASSACHUSETTS

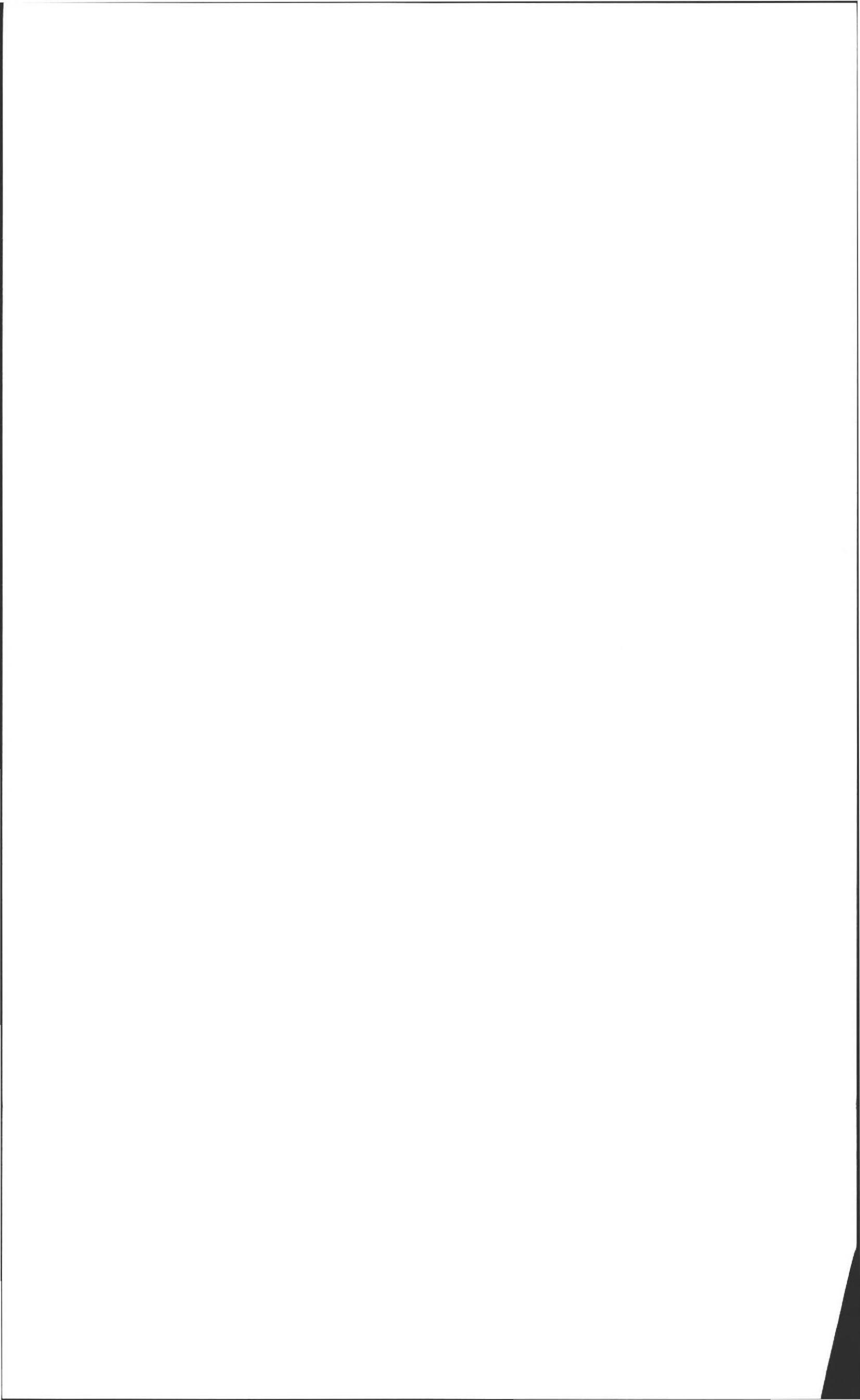
Board of Health, \_\_\_\_\_, MA.

## DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct ( ) Repair ( ) Upgrade ( ) Abandon ( ) an individual sewage disposal system at \_\_\_\_\_ as described in the application for

Disposal System Construction Permit No. \_\_\_\_\_, dated \_\_\_\_\_.

Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.



CUST NAME  
4 BOLTWOOD AVENUE  
04/09/12  
CITY, ST, ZIP

\*\*\*TOWN OF A TOWN HAL  
AMHERST M REFERENCE  
DATE/TIME 07:40

CUST NAME

0  
DEPT

DE HEA017

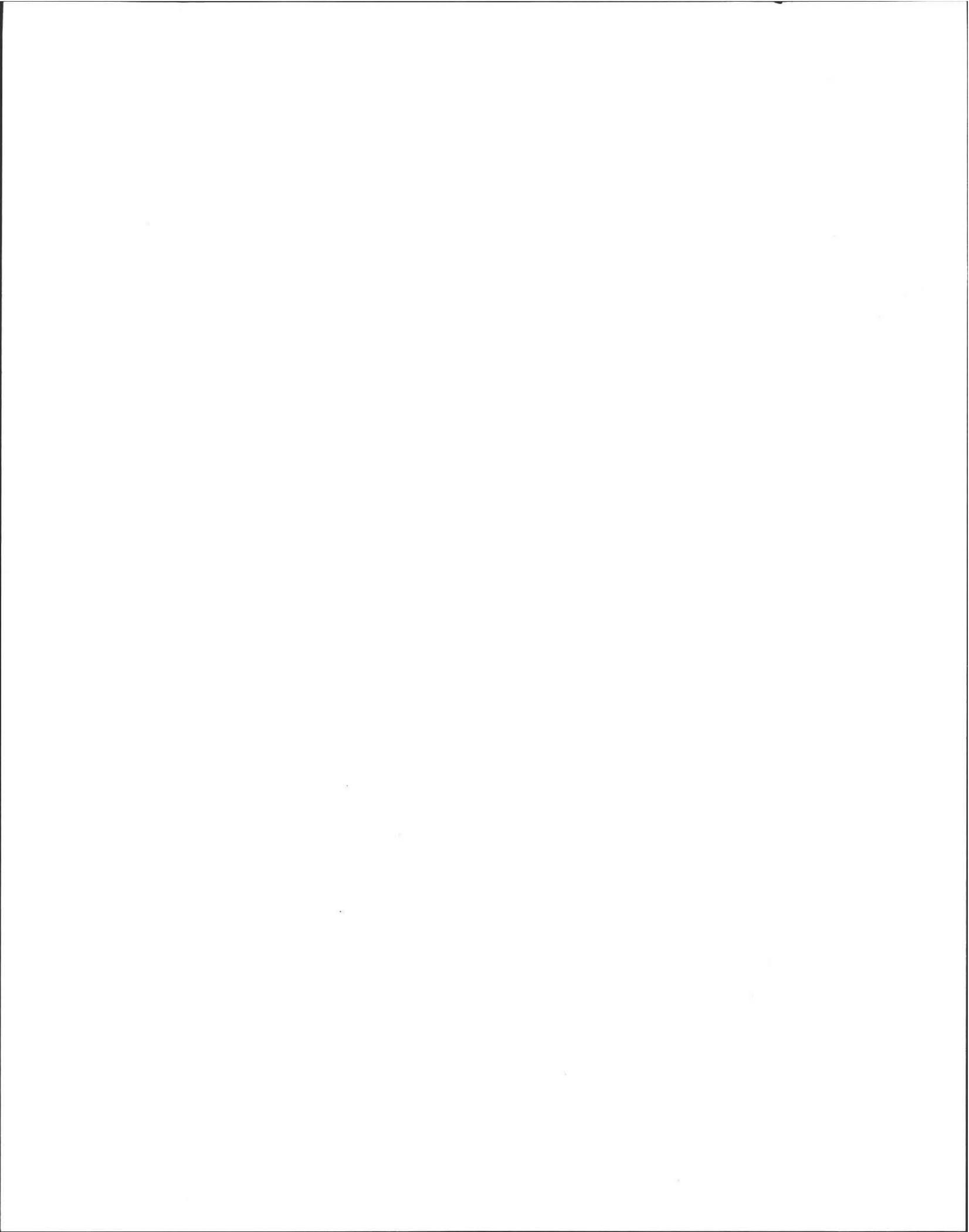
SEPTIC TAN 150.

RECPT TOTAL

150.00  
HOMES BY L QUA CHECK

1743

AMOUNT



Plan: 12-11 LOT 2 FLAT HILLS RD Designed by: ALAN WEISS

CHECK LIST FOR SEPTIC PLANS

- Application page attached to plan
- PE or RS stamp, date, signature
- Variances to property line setback distances must have Surveyor Stamp. 15020 (3)
- Legal boundaries noted
- Easements noted
- Dwellings and buildings existing or proposed noted
- Location of driveway or parking areas, other impervious areas
- Location and dimensions of reserve area (new) CMR 15.248(1), 15.104(4)
- System design calculations
- Garbage grinder ~~Y~~ of N
- Benchmark not disturbed during construction, within 75 feet of facility CMR 15.220 (4)(q)
- North arrow CMR 15.200 (4) (g)
- Contours
- Deep hole location and data
- Perc hole location and data
- Elevations
- Names of approving authority and soil evaluator CMR 15.211 p. 49
- Location of every water supply, public and private. CMR 15.220(k)
  - Within 400 feet of system in case of surface water and gravel packed public water supply
  - Within 250 feet of system in case of tubular public water supply
  - Within 150 feet of private supply wells ~~100' septic sys.~~ 5' Tank
- NA Well statement if applicable
  - Location of any surface waters, rivers, vegetated wetlands
  - Location of water lines and other subsurface utilities
  - Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n)
  - Profile of system
  - Locus plan to show location of facility, including nearest street
  - Materials of construction and specs for system
  - Gas Baffle 15.227.4
  - Pipe in center line of tank 310 CMR 15.227, 15.06(8)
  - Double washed stone
  - Schedule 40 PVC for trafficked areas, house to tank
  - Distances noted from house to tank, etc.
- NA If dosing is proposed, design and specs of dosing system
- NA When alternative technology is required, complete plan and specs, including hydraulic profile
- Trenches preferred over beds CMR 15.240 (6)
- Buoyancy calculations for tanks or components partly below H2O table 15.221(8) p. 56
- NA 3 to 1 slope outside of mound, toe ending 5 feet from property line
- NA Local upgrade requests on the plan
- NA Local upgrade forms attached to application
- NA Note on plan listing all variances sought in conjunction with the plan

NOTES: Ed Swartz 3/30/2012 OKAY





ALAN E. WEISS, M.S., L.S.P.

Licensed Site Professional  
Registered Sanitarian  
Hydrogeologist  
President

- Subsurface Investigations
- 21E Site Investigations
- Pollution Remediation
- Percolation Tests and Septic Designs

350 Old Enfield Rd.  
Belchertown, MA 01007  
(413) 323-5957 & 323-4916 (FAX)

Date: 12-3-09

Commonwealth of Massachusetts  
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Date: 12-3-09

Witnessed By: G. Court Martine  
\*1 MAP # 6A LOT # 91

Location Address or Lot # <u>Lot 2, First Hills RD South of #300</u>	Owner's Name, Address, and Telephone # <u>W D Couals 134 Montague RD. N. Amherst</u>
New Construction <input checked="" type="checkbox"/> Repair <input type="checkbox"/>	

Office Review

549-1403

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) \_\_\_\_\_

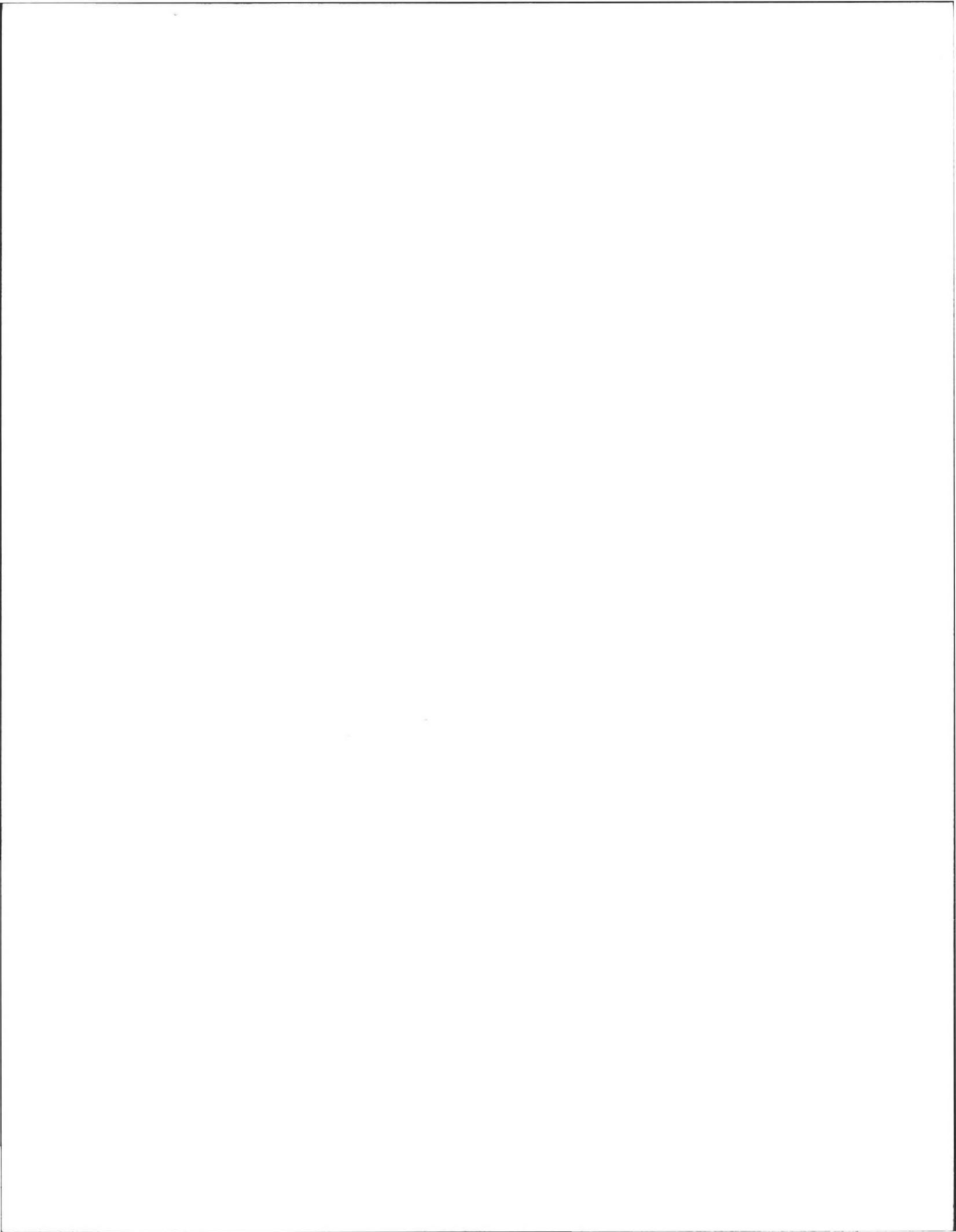
Current Water Resource Conditions (USGS): Month \_\_\_\_\_

Range: Above Normal  Normal  Below Normal

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

\*Subject to Wetland Delimitation + Survey.





Location Address or Lot No. Lot 2, Flat Hills Rd  
Map 6A, Lot 91

COMMONWEALTH OF MASSACHUSETTS  
 Amherst, Massachusetts

Percolation Test*		
Date: <u>12/3/09</u>		Time: <u>9:00</u>
Observation Hole #	<u>P<sub>1</sub></u>	<u>P<sub>2</sub></u>
Depth of Perc	<u>42"</u>	<u>46"</u>
Start Pre-soak	<u>9:08</u>	<u>9:38</u>
End Pre-soak	<u>9:23</u>	<u>9:43</u>
Time at 12"	<u>9:23</u>	<u>9:43</u>
Time at 9"	<u>9:41</u>	<u>9:54</u>
Time at 6"	<u>10:05</u>	<u>10:15</u>
Time (9"-6")	<u>24</u>	<u>21</u>
Rate Min./Inch	<u>8 <math>\frac{MIN}{IN}</math></u>	<u>7 <math>\frac{MIN}{IN}</math></u>

\* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

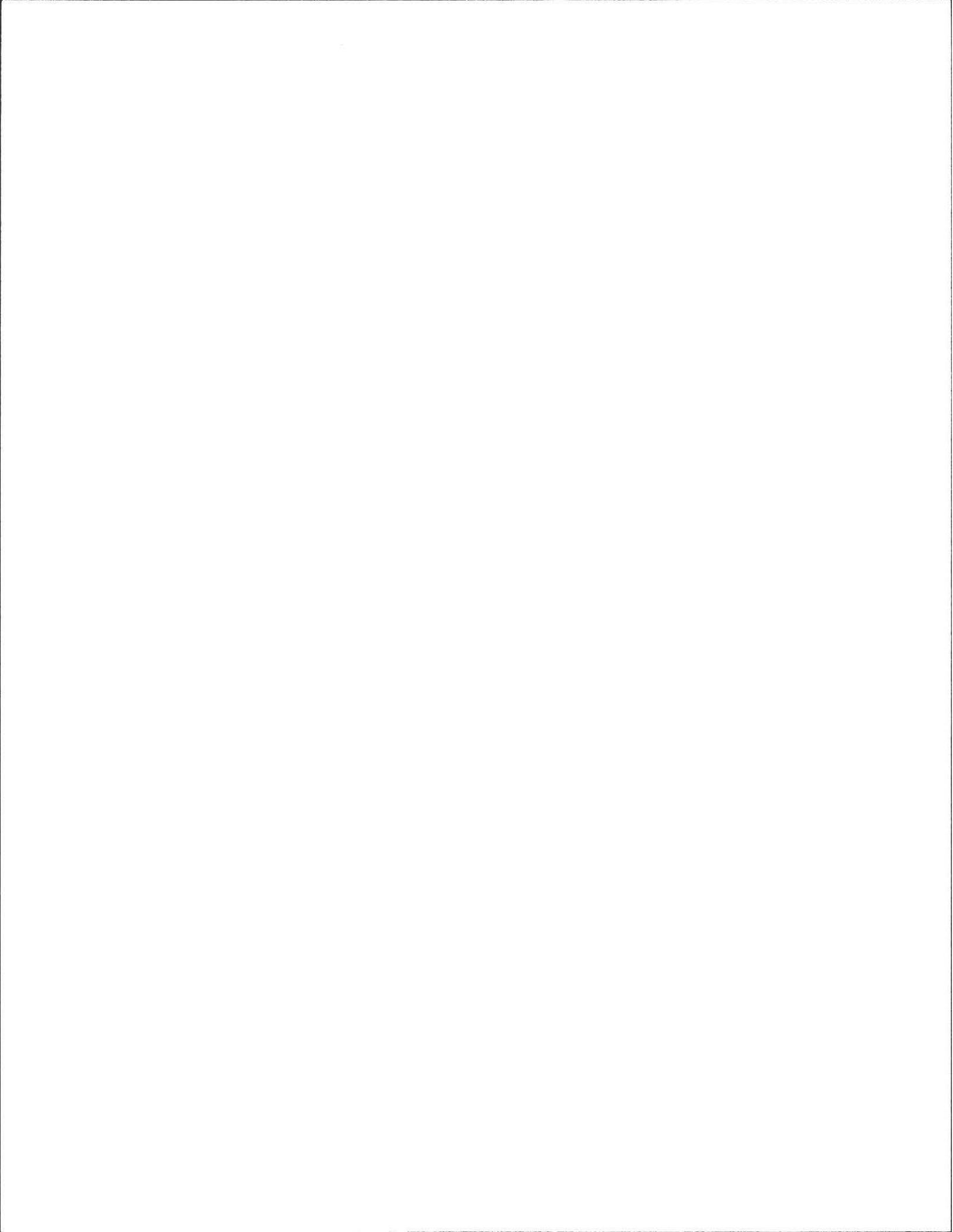
Site Passed  Site Failed

Performed By: A. Weiss

Witnessed By: G. Cartruche

Comments: \_\_\_\_\_





Location Address or Lot No. Lot #2, South of 300, Flat Hills Rd.  
Map GA., LOT 91

On-site Review

Deep Hole Number (1+2) (3+4) Date: 12-3-09 Time: 9:00 Weather H<sub>2</sub>O Rain last night Sun during p.m.

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

Land Use Res. Rural Slope (%) 2 Surface Stones Many

Vegetation Mixed Deciduous

Landform Terraced

Position on landscape (sketch on the back) \_\_\_\_\_

Distances from:  
 Open Water Body 100'± feet      Drainage way 50'± feet  
 Possible Wet Area 80-100' feet      Property Line \_\_\_\_\_ feet  
 Drinking Water Well 100'± feet      Other \_\_\_\_\_

\* Subject to Wetland

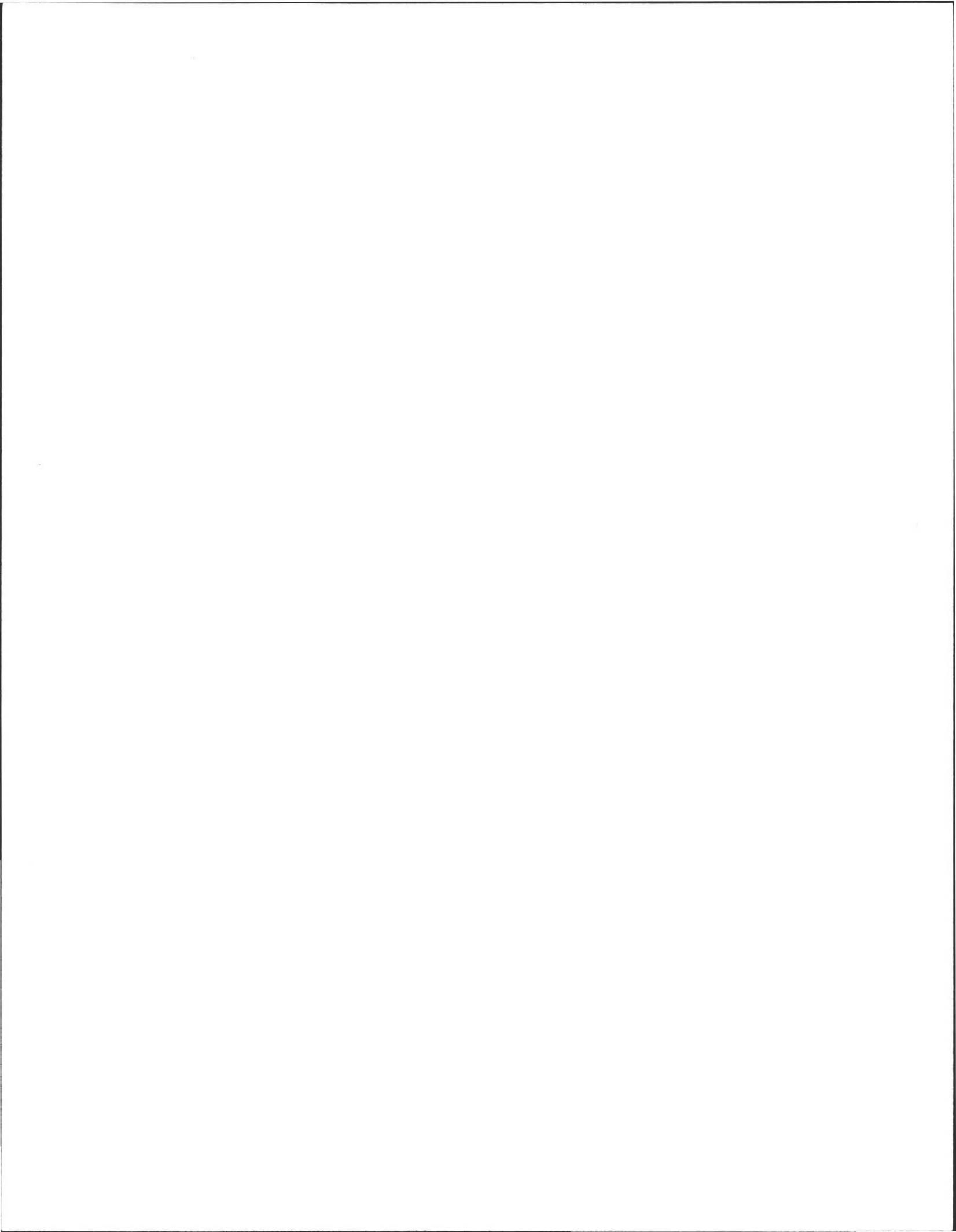
DEEP OBSERVATION HOLE LOG

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1 0-8" 8-22" 22"-78"	A B C <sub>1</sub>	fsc LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	- friable - F.M. Sand - fine-med sandy Abiataw Till, MOD. loose, 20% STONES
#2 0-8" 8"-24" 24"-76"	A B C <sub>1</sub>	fsc LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1
#3 0-9" 9"-24" 24"-86"	A B C <sub>1</sub>	fsc LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1
#4 0-9" 9-24" 24-86"	A B C <sub>1</sub>	fsc LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1

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

Parent Material (geologic) Cl. fill      Depth to Bedrock: 76-86"  
 Depth to Groundwater: Standing Water in the Hole: 50"      Weeping from Pit Face: 50"  
 Estimated Seasonal High Ground Water: 30"





Location Address or Lot No. LOT 2 Flat Hills RD.

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 30 ..... 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

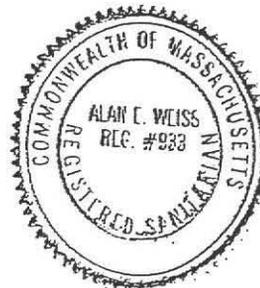
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

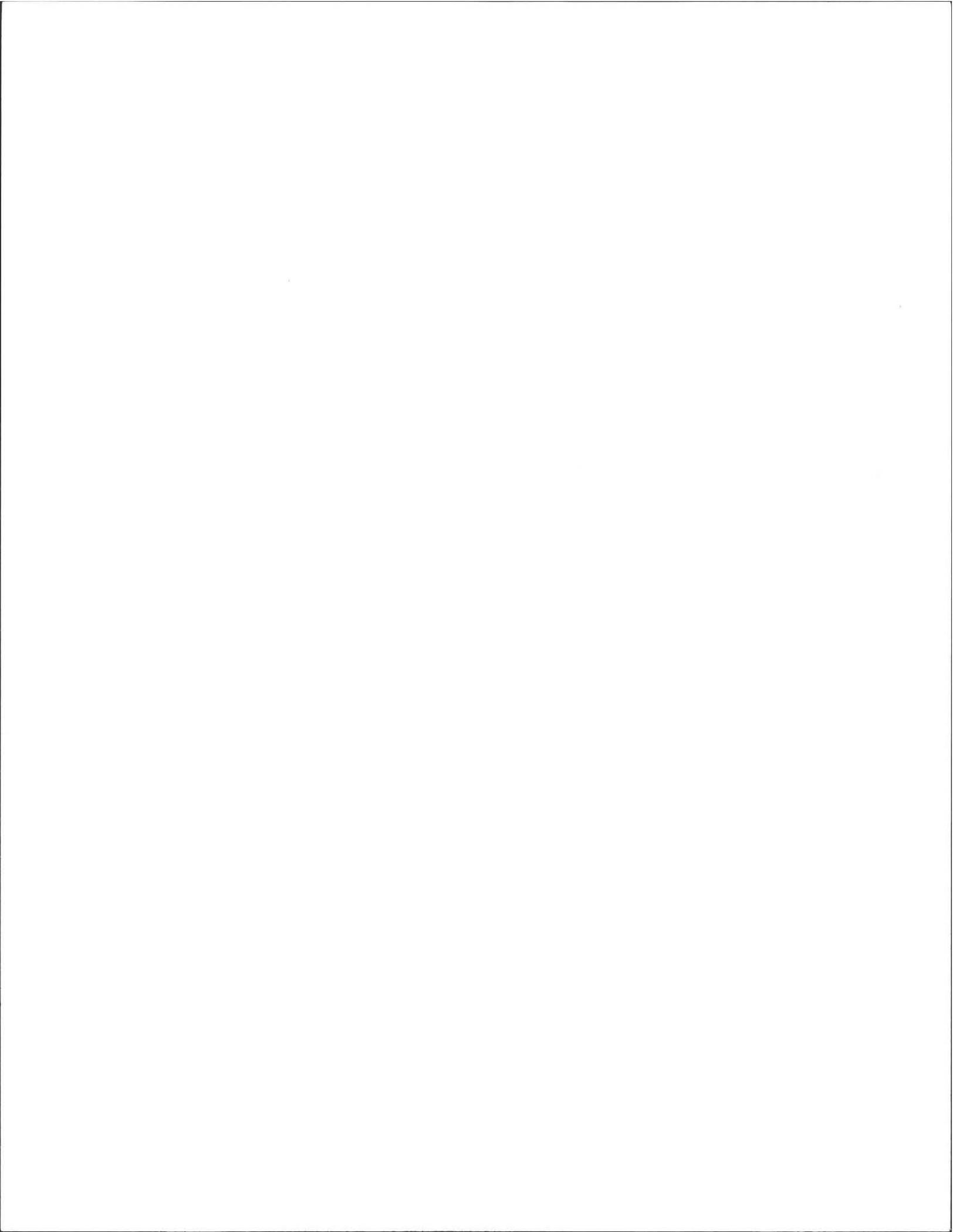
If not, what is the depth of naturally occurring pervious material? \_\_\_\_\_

Certification

I certify that on 6/95 (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 [Signature] Date 12-3-09







ALAN E. WEISS, M.S., L.S.P.

Licensed Site Professional  
Registered Sanitarian  
Hydrogeologist  
President

- Subsurface Investigations
- 21E Site Investigations
- Pollution Remediation
- Percolation Tests and Septic Designs

350 Old Enfield Rd.  
Belchertown, MA 01007  
(413) 323-5957 & 323-4916 (FAX)

Date: 12-3-09

Commonwealth of Massachusetts  
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Date: 12-3-09

Witnessed By: G. Court + Marsha  
MAP # 6A, LOT # 91

Location Address or Lot # <u>Lot 2, Frat Hills Rd South of #300</u>	Owner's Name, Address, and Telephone # <u>W D Couals 131 Montague RD. N. Amherst</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

549-1403

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)

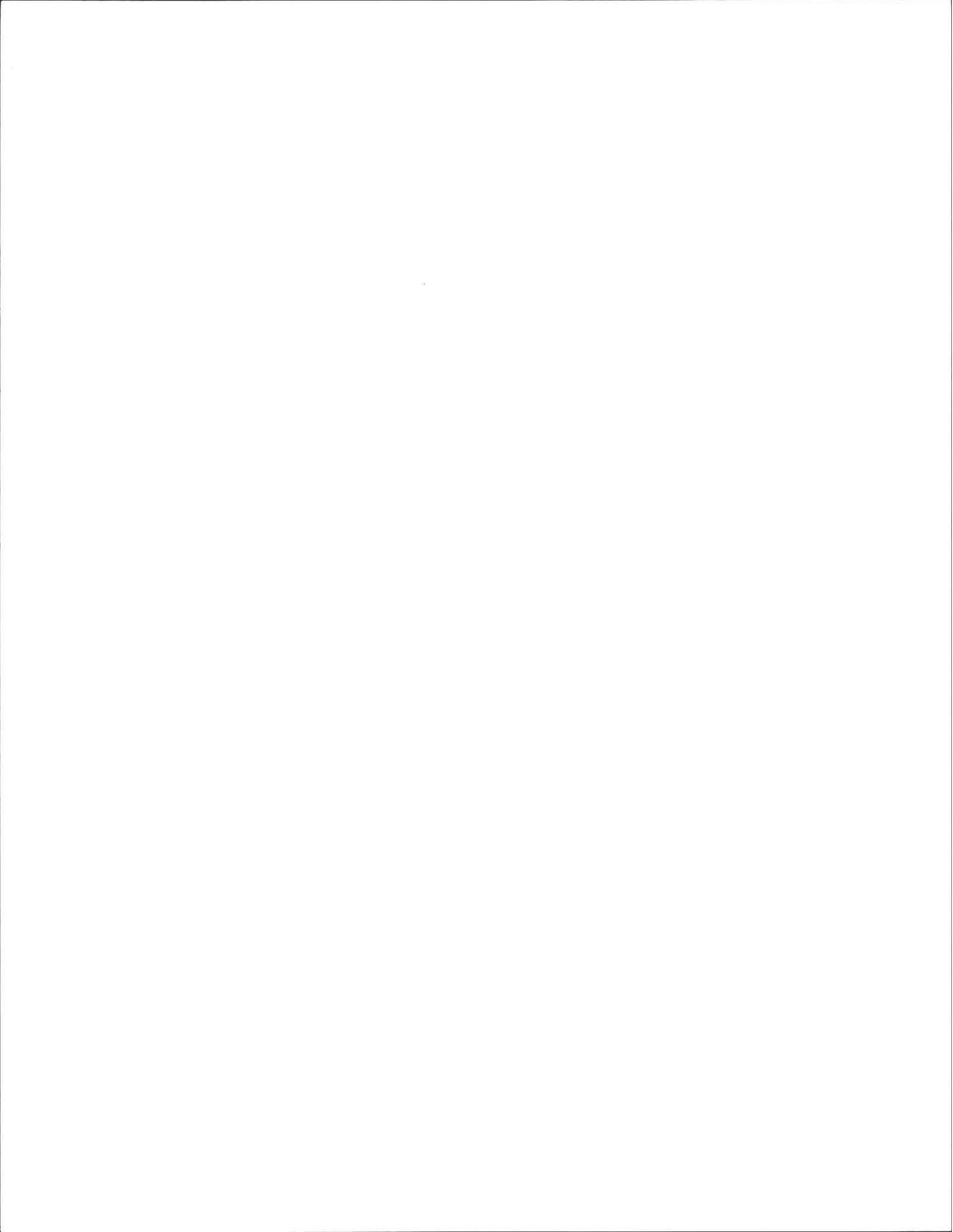
Current Water Resource Conditions (USGS): Month

Range : Above Normal  Normal  Below Normal

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

\*Subject to Wetland Delimitation + Survey.





Location Address or Lot No. LOT 2, Flat Hills Rd  
Map 6A, LOT 91

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: <u>12/3/09</u>		Time: <u>9:00</u>
Observation Hole #	<u>P<sub>1</sub></u>	<u>P<sub>2</sub></u>
Depth of Perc	<u>42"</u>	<u>46"</u>
Start Pre-soak	<u>9:08</u>	<u>9:38</u>
End Pre-soak	<u>9:23</u>	<u>9:43</u>
Time at 12"	<u>9:23</u>	<u>9:43</u>
Time at 9"	<u>9:41</u>	<u>9:54</u>
Time at 6"	<u>10:05</u>	<u>10:15</u>
Time (9"-6")	<u>24</u>	<u>21</u>
Rate Min./Inch	<u>8 <math>\frac{MIN}{IN}</math></u>	<u>7 <math>\frac{MIN}{IN}</math></u>

\* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

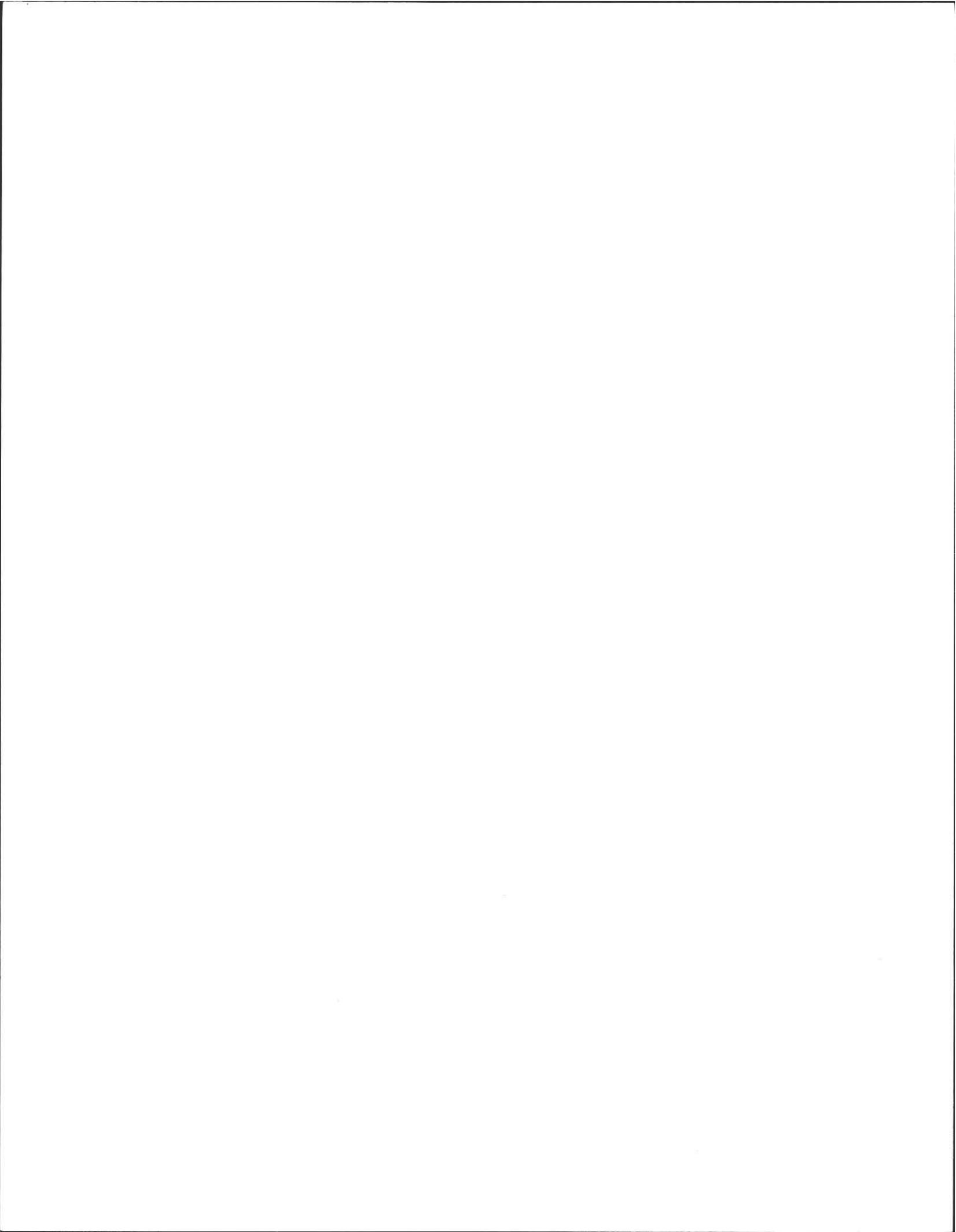
Site Passed  Site Failed

Performed By: A. Weiss

Witnessed By: G. Cartruche

Comments: \_\_\_\_\_





Location Address or Lot No. Lot #2, South of 300, Flat Hills Rd.  
Map GA, LOT 91

On-site Review

Deep Hole Number (1+2)<sup>(3+4)</sup> Date: 12-3-09 Time: 9:00 Weather H<sub>2</sub>O Rain last night Sun during pec

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

Land Use Res - Rural Slope (%) 2 Surface Stones Many

Vegetation Mixed Deciduous

Landform Terraced

Position on landscape (sketch on the back) \_\_\_\_\_

Distances from:

Open Water Body 100' feet Drainage way 50' feet

Possible Wet Area 80' x 100' feet Property Line \_\_\_\_\_ feet

Drinking Water Well 100' feet Other \_\_\_\_\_

\* Subject to Wetland

DEEP OBSERVATION HOLE LOG\*

	Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1	0-8" 8-22" 22"-78"	A B C <sub>1</sub>	fsc LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	- friable - F.M. Sand - Fine - Med. Sandy Abiataw TIN, MOD. LOOSE. 20% STONES
#2	0-8" 8"-24" 24"-76"	A B C <sub>1</sub>	fsc LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1
#3	0-9" 9"-24" 24"-86"	A B C <sub>1</sub>	fsc LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1
#4	0-9" 9"-24" 24"-86"	A B C <sub>1</sub>	fsc LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1

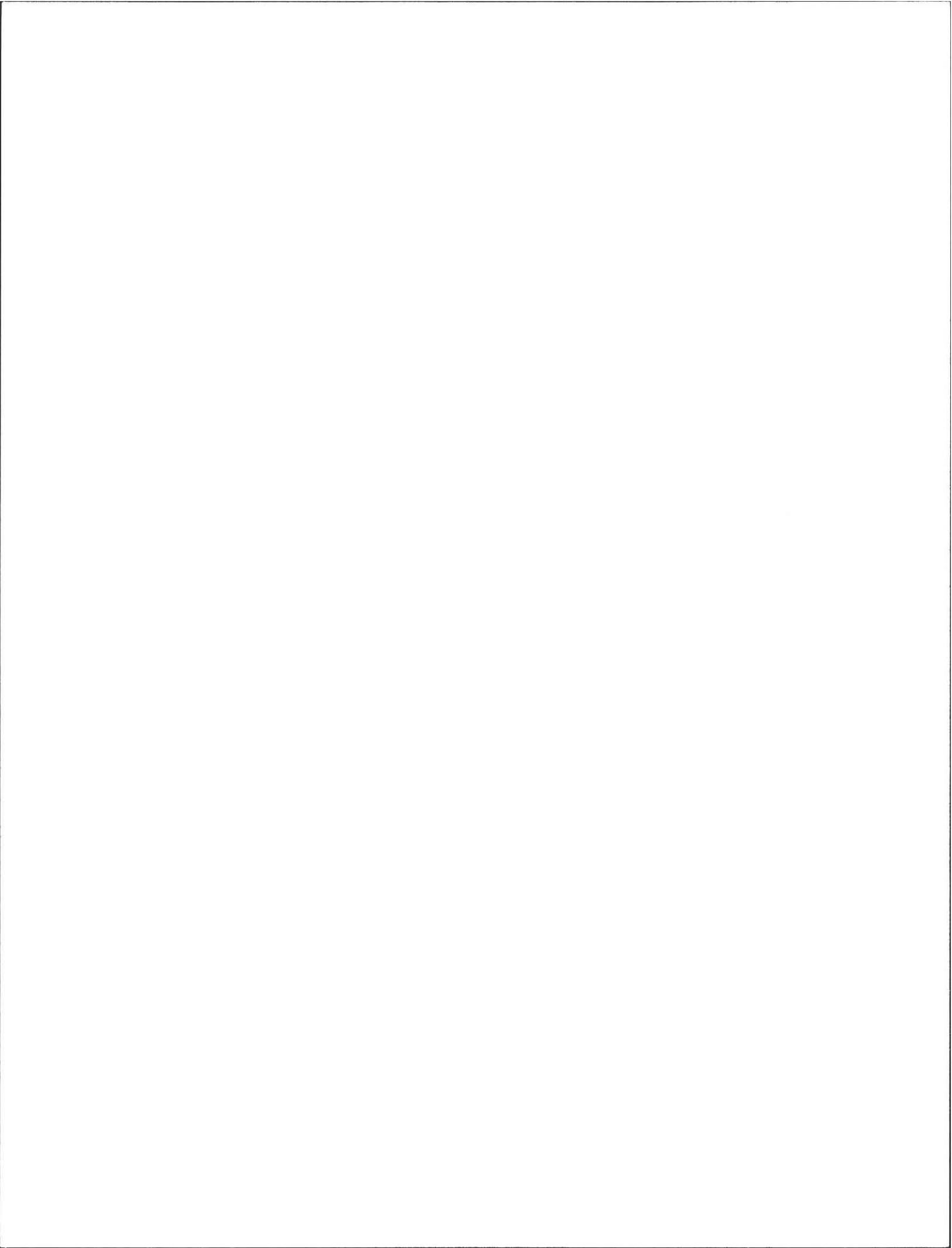
\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Cl. fill Depth to Bedrock: 76-86"

Depth to Groundwater: Standing Water in the Hole: 50" Weeping from Pit Face: 50"

Estimated Seasonal High Ground Water: 50"





Location Address or Lot No. LOT 2, Flat Hills RD.

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 30 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

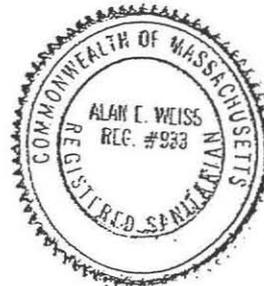
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

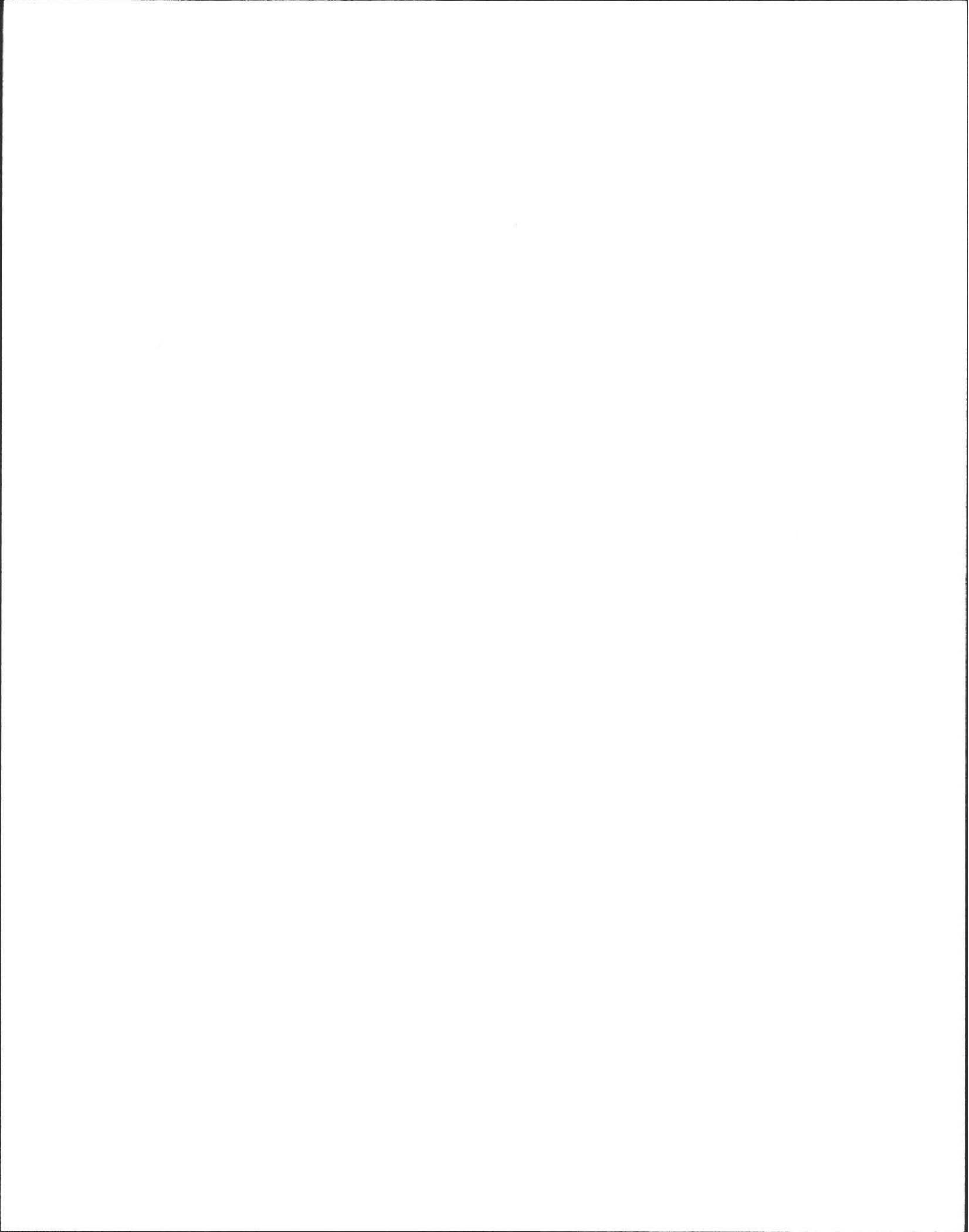
If not, what is the depth of naturally occurring pervious material? \_\_\_\_\_

Certification

I certify that on 6/95 (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 [Signature] Date 12-3-09





ALAN E. WEISS, M.S., L.S.P.

Licensed Site Professional

Registered Sanitarian

Hydrogeologist

President

- Subsurface Investigations
- 2IE Site Investigations
- Pollution Remediation
- Percolation Tests and Septic Designs

350 Old Enfield Rd.  
 Belchertown, MA 01007  
 (413) 323-5957 & 323-4916 (FAX)

Date: 12-3-09

Commonwealth of Massachusetts  
 Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Date: 12-3-09

Witnessed By: G. Court-Marche  
 #1 MAP # 6A, LOT # 91

Location Address or Lot # <u>Lot 2, First Hills Rd South of #300</u>	Owner's Name, Address, and Telephone # <u>W D Couals 134 Montague RD. N. Amherst</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

549-1403

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)

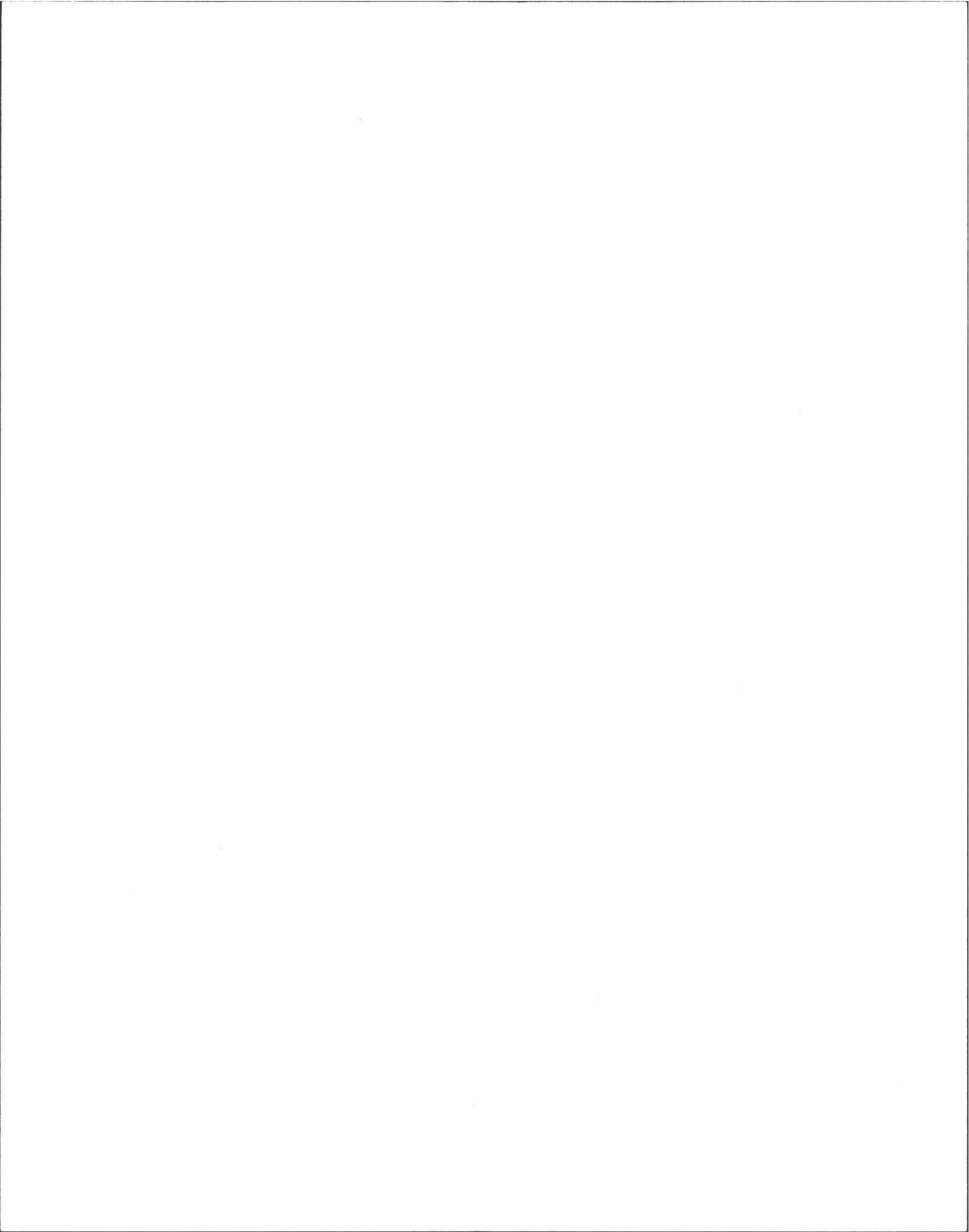
Current Water Resource Conditions (USGS): Month

Range : Above Normal  Normal  Below Normal

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

\* Subject to Wetland Delimitation + Survey.





Location Address or Lot No. LOT 2, Flat Hills RD  
Map 6A, LOT 91

COMMONWEALTH OF MASSACHUSETTS

Amherst, , Massachusetts

Percolation Test*		
Date:	<u>12/3/09</u>	Time: <u>9:00</u>
Observation Hole #	<u>P.</u>	<u>R2</u>
Depth of Perc	<u>42"</u>	<u>46"</u>
Start Pre-soak	<u>9:08</u>	<u>9:38</u>
End Pre-soak	<u>9:23</u>	<u>9:43</u>
Time at 12"	<u>9:23</u>	<u>9:43</u>
Time at 9"	<u>9:41</u>	<u>9:54</u>
Time at 6"	<u>10:05</u>	<u>10:15</u>
Time (9"-6")	<u>24</u>	<u>21</u>
Rate Min./Inch	<u>8 <math>\frac{M.U.}{I.U.}</math></u>	<u>7 <math>\frac{M.U.}{I.U.}</math></u>

\* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

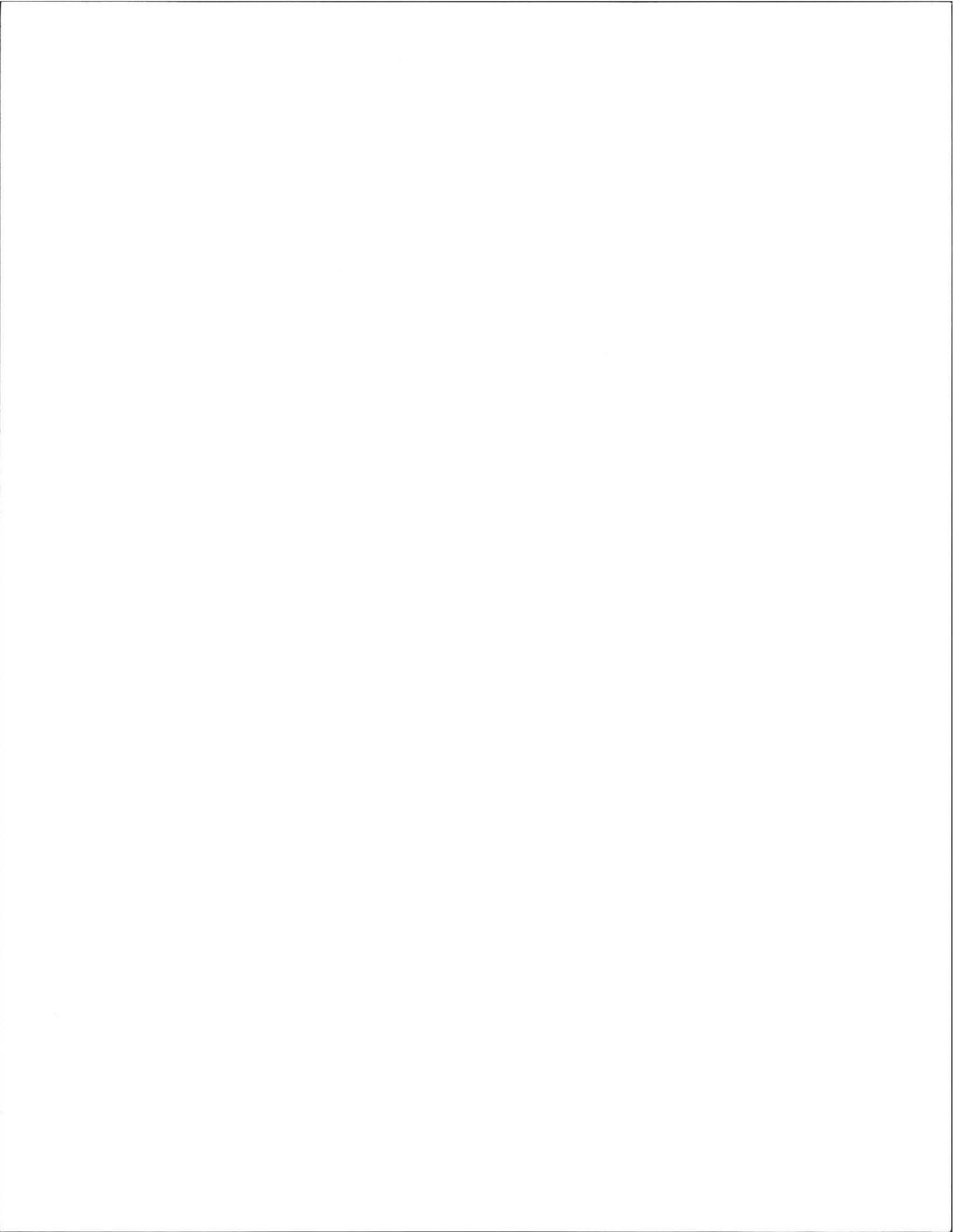
Site Passed  Site Failed

Performed By: A. Weiss

Witnessed By: G. Cartroche

Comments: \_\_\_\_\_





Location Address or Lot No. Lot #2, South of 300, Flat Hills Rd.  
 Map GA, LOT 91

On-site Review

Deep Hole Number (1+2)<sup>(3+4)</sup> Date: 12-3-09 Time: 9:00 Weather H<sub>2</sub>O Rain last night Sun during p.m.

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

Land Use Res - Rural Slope (%) 2 Surface Stones Many

Vegetation Mixed Deciduous

Landform Terraced

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100' feet Drainage way 50' feet

Possible Wet Area 80-100' feet Property Line \_\_\_\_\_ feet

Drinking Water Well 100' feet Other \_\_\_\_\_

\* Subject to Wetland

DEEP OBSERVATION HOLE LOG\*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1 0-8" 8-22" 22"-78"	A B C <sub>1</sub>	fsl LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	- friable - F.M. Sand - Fine - Med Sandy Abiataw TIN, MOD. LOOSE. 20% STONES
#2 0-8" 8"-24" 24"-76"	A B C <sub>1</sub>	fsl LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1
#3 0-9" 9"-24" 24"-86"	A B C <sub>1</sub>	fsl LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1
#4 0-9" 9"-24" 24"-86"	A B C <sub>1</sub>	fsl LS LS	10YR 3/3 10YR 6/6 10YR 5/6	30" 10YR 6/8	Same as #1

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

Parent Material (geologic) G. till Depth to Bedrock: 76-86'

Depth to Groundwater: Standing Water in the Hole: 50" Weeping from Pit Face: 50"

Estimated Seasonal High Ground Water: 50"





Location Address or Lot No. LOT 2, Flat Hills RD.

### 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 30 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

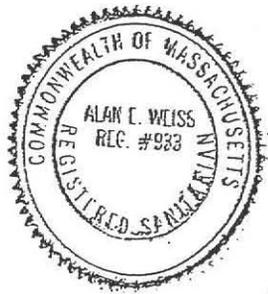
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

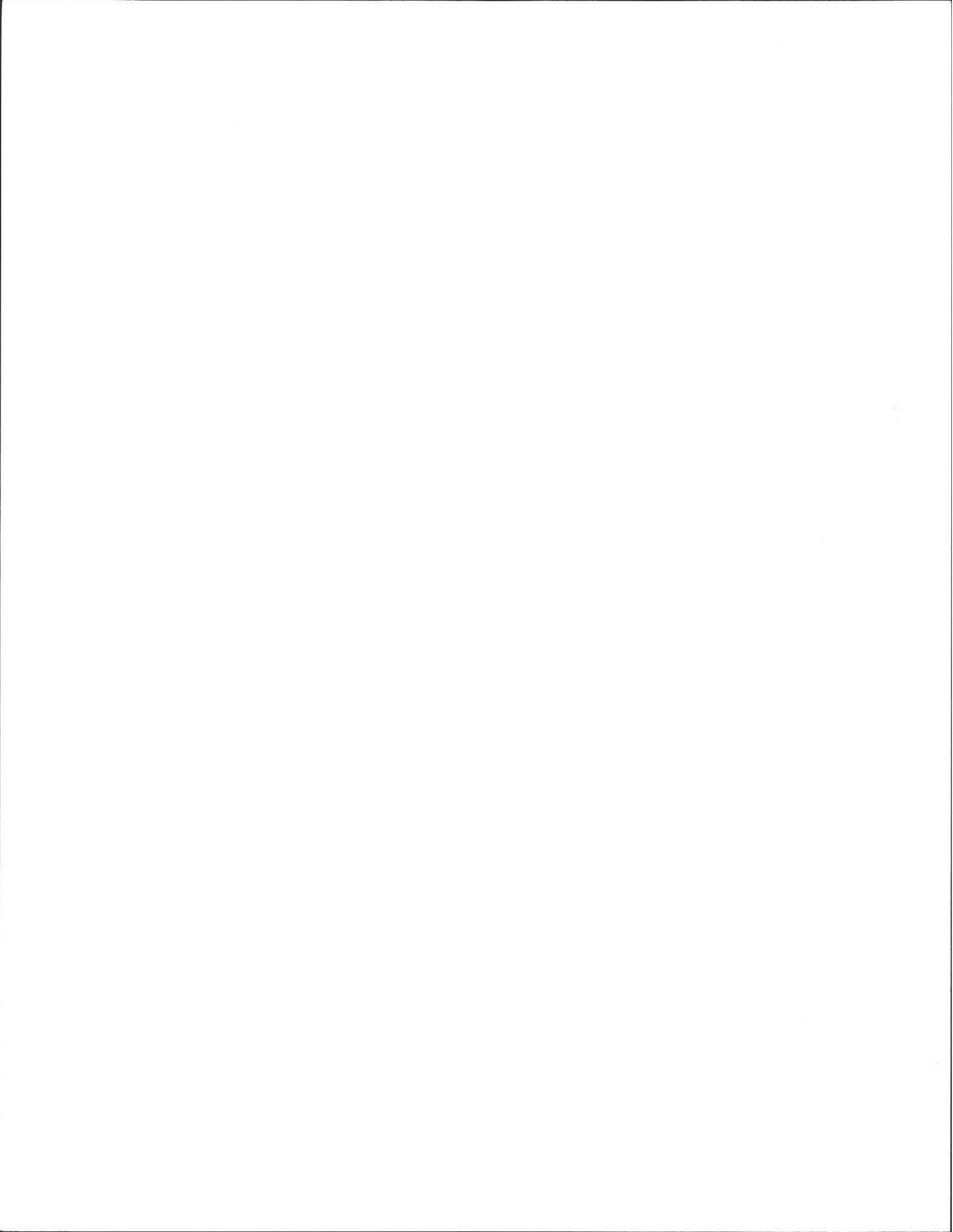
If not, what is the depth of naturally occurring pervious material? \_\_\_\_\_

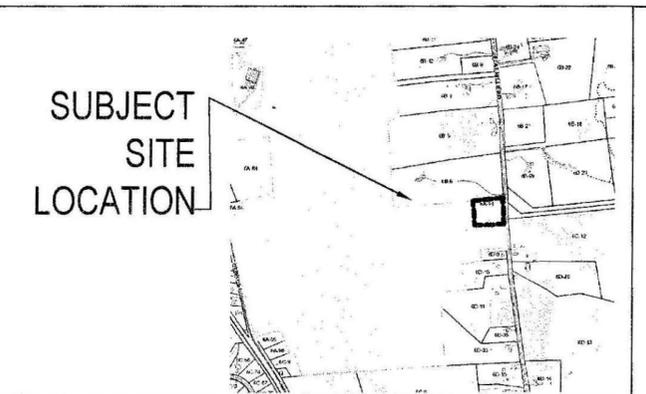
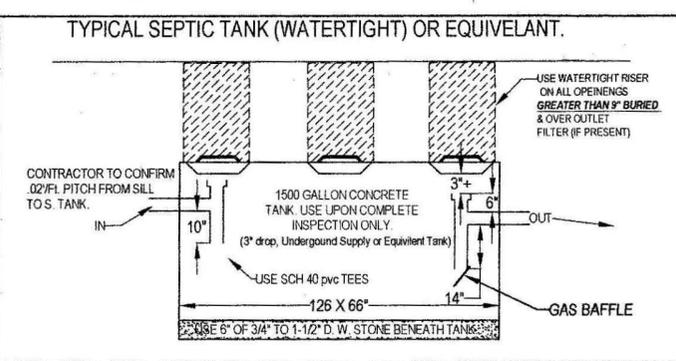
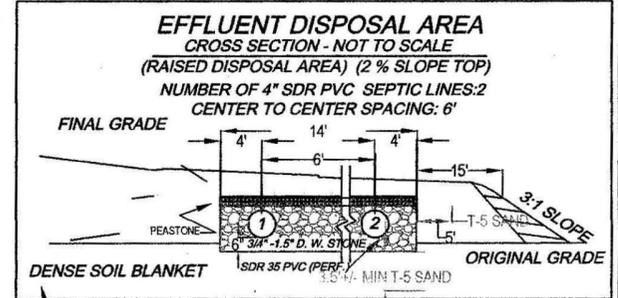
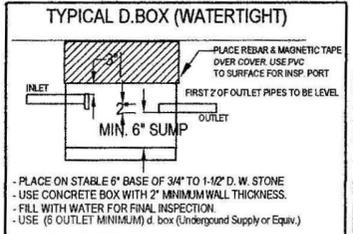
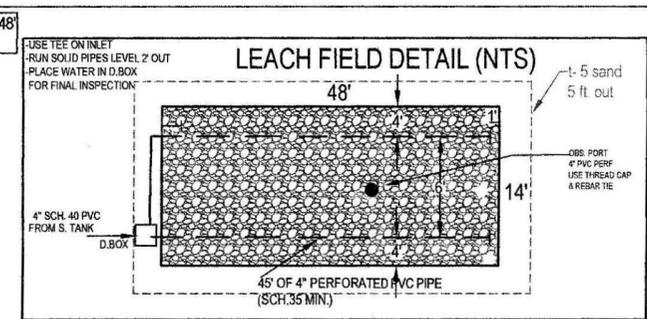
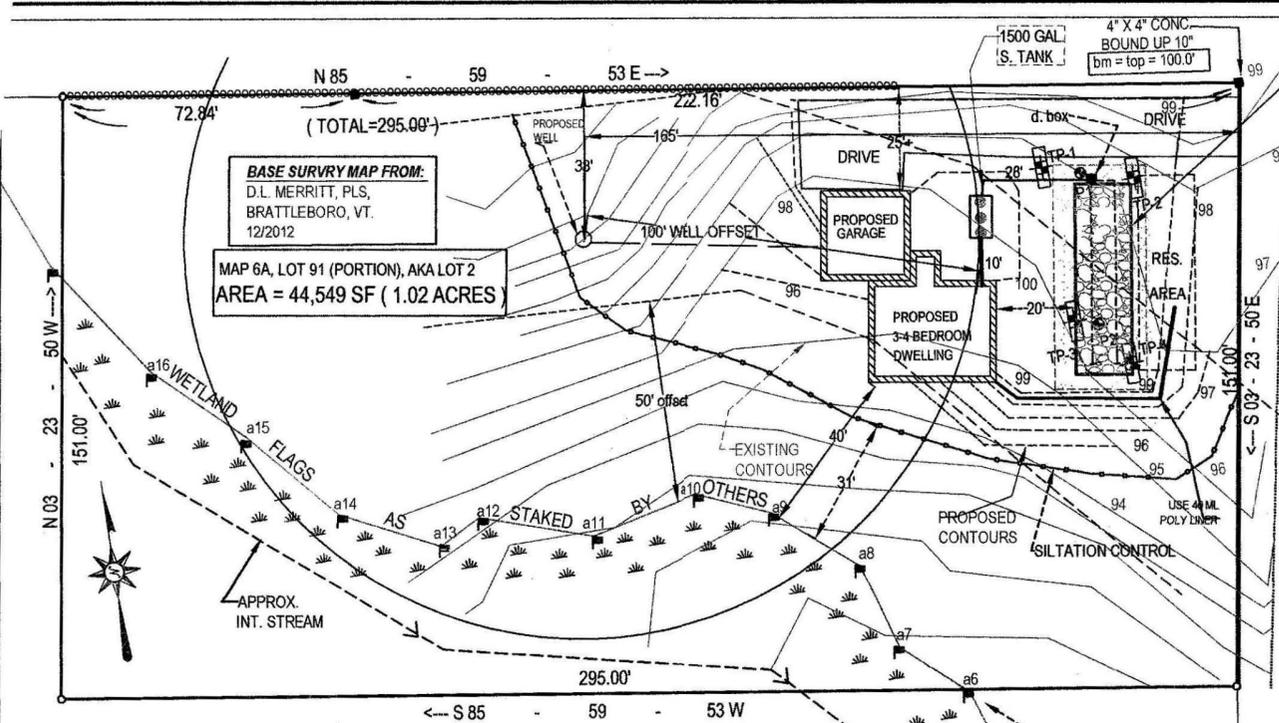
Certification

I certify that on 6/95 (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 [Signature] Date 12-3-09

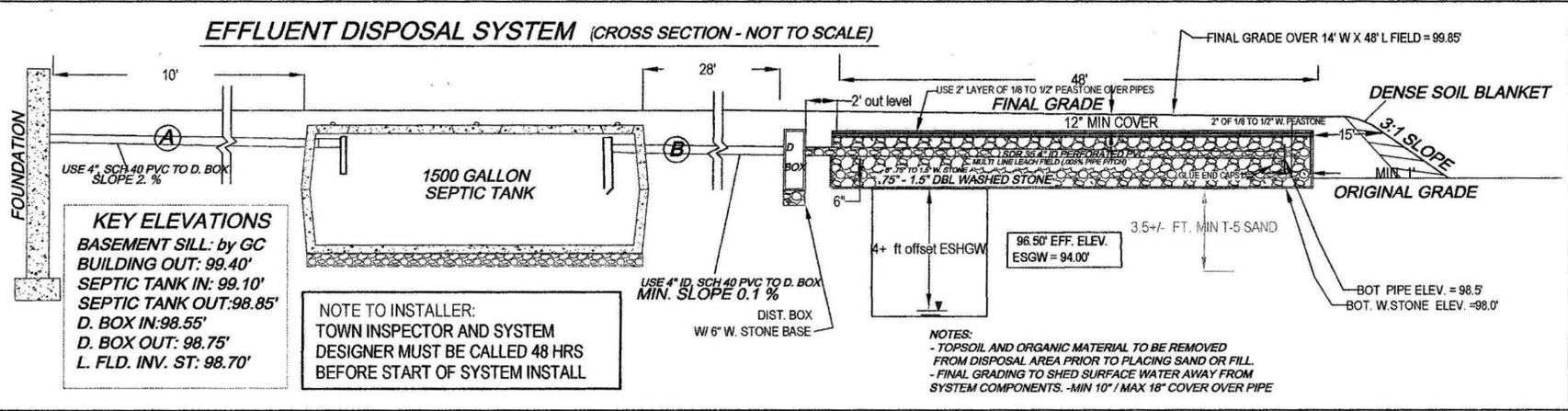
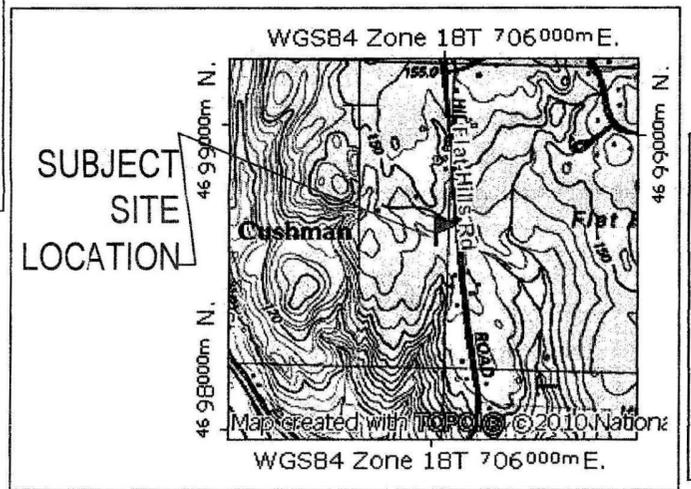
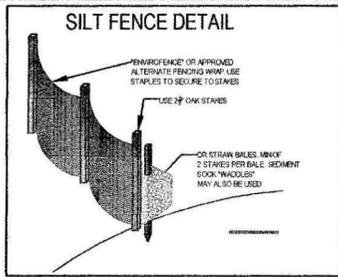






- DESIGN NOTES AND CALCULATIONS:**
- 4 (BEDROOM HOME DESIGN) = 440 GPD MIN. REQUIRED.  
- Use LEACHING FIELD 14' WIDE X 48' LONG WITH 6\"/>
  - 4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.  
3. GARBAGE DISPOSAL NOT PERMITTED. (A/C AND FURNACE CONDENSATE TUBES NOT ALLOWED)  
5. NO OTHER WETLANDS WITHIN 100 FEET OF SAS, FILE NOTICE OF INTENT CONCURRENT WITH PLAN  
6. USE NEW S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK  
- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10\"/>
  - NOTE:  
- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3\"/>
  - 7. USE LARGE STYLE (6 OUTLET) D.BOX ONLY.  
7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2\"/>
  - NOTE:  
- D. BOXES WITH MORE THAN 9\"/>
  - 7B ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.  
8. -USE (.75\"/>
  - USE ONLY DBL. WASHED APPROVED (.75\"/>
  - 9. USE PROPER SCH. 40 PVC TEES AS SHOWN.  
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED.  
11. SLOPE CALCS: (SEE CONTOURS), SUBGRADE INSP. REQD.  
13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)  
14. USE 2% MIN. SLOPE OVER SAS  
- CLEAR TOP /AND SUB TO 24\"/>
  - CLEAR PAST BASE OF B (MIN. 24\"/>
  - EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.  
15. SOIL EVALUATION BY A. WEISS, RS. (GARY COURTEMARCHE, BOH AGENT), 12.03.2009  
- DEPTH OF PIERC. 42 & 46\"/>
  - PERC RATE = 7 & 8 MIN / IN.  
- CLASS 1, L. SAND SOIL RATING  
16. NO TREES WITHIN 10 FT. OF NEW LEACH AREA.  
17. ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.  
18. BM=100.00 @ (TOP OF BOUND., as noted), CONFIRM PROPER PIPE SLOPES  
- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK  
19. GRADE MULCH AND SEED OVER SAS AS NOTED.  
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.  
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4\"/>

- WETLAND DELINEATION AND SEDIMENT CONTROL NOTES:**  
NOTE: USE fabric silt fence OR Double Staked Virgin Straw Bales OR SEDIMENT SOCK (free of seeds) in order to prevent fugitive re-seeding in Resource Area.
- NO ALTERATION OF SEDIMENT, STOCKPILING, FILLING OR CUTTING VEGETATION ON THE DOWNGRADIENT SIDE OF THE SEDIMENTATION BARRIER (SILT FENCE).
  - SEDIMENTATION BARRIER TO BE ERECTED IN A STABLE AND LASTING MANNER AS SHOWN ON THE PLAN.
  - NOTIFY CONSERVATION ADMINISTRATOR AT LEAST 72 HOURS (IF REQD.) PRIOR TO START OF ON-SITE WORK, AFTER COMPLETE ON SILT FENCE INSTALLATION.
  - AS SOON AS IS POSSIBLE WORK AREA SHALL BE SEEDED, REVEGETATED WITH GRASS OR SIMILAR GROUND COVER AND MULCHED UPON COMPLETION OF SITE WORK.
  - SILT FENCE TO REMAIN STANDING UNTIL REGROWTH IS SUFFICIENT TO CONTROL FUGITIVE SEDIMENT RUNOFF.
  - REGRADE WORK AREA AS NOTED TO PREVENT CHANGE IN SLOPE OR RUNOFF PATTERNS.



**TEST PIT LOG:**

TP 1				TP 2 : (LOGS FOR 3 & 4 ATTACHED)			
DEPTH	HORIZ.	TEXTURE:	COLOUR (MUNSELL):	MATERIAL:	DEPTH	HORIZ.	TEXTURE:
0-8"	A	FSL	10 YR 3.3	FRABLE	0-8"	A	FSL
8-22"	Bw	LS	10 YR 6.8	F-M SAND	8-24"	Bw	LS
22-78"	C1	LS	10 YR 5.8	F-M SANDY ABL. TILL MOD. LOOSE	24-76"	C1	LS
				20% BOULDERS AND COBBLES			
OXIDES:	30"		10 YR 6.8		OXIDES:	30"	10 YR 6.8
EHWT:	30"				EHWT:	30"	
STANDING H2O:	50"				STANDING H2O:	50"	
WEEPING:	50"				WEEPING:	50"	
BEDROCK:	78"+				BEDROCK:	76"+	

SEPTIC SYSTEM PLAN FOR HOMES BY LEBLANC (aka Ken Leblanc)  
MAP 6a LOT 91 (PORTION) AKA LOT #2  
FLAT HILLS ROAD, AMHERST, MA

**Cold Spring Environmental Consultants Inc.**  
350 Old Enfield Road  
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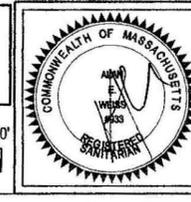
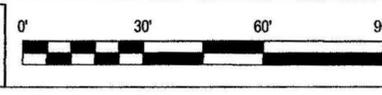
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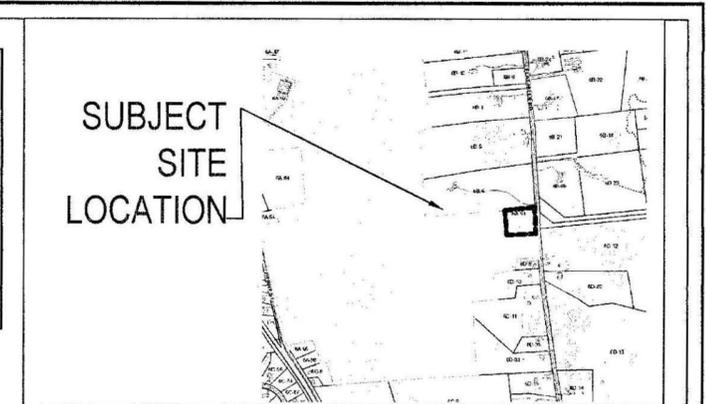
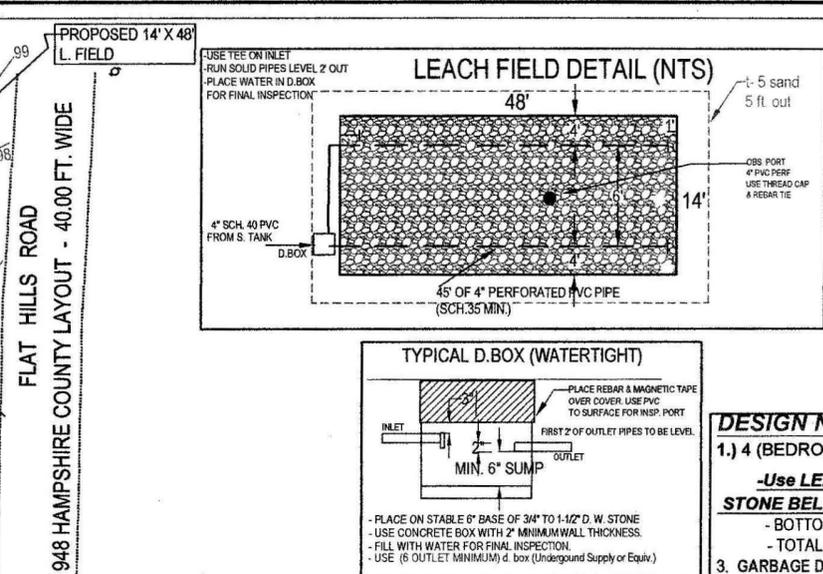
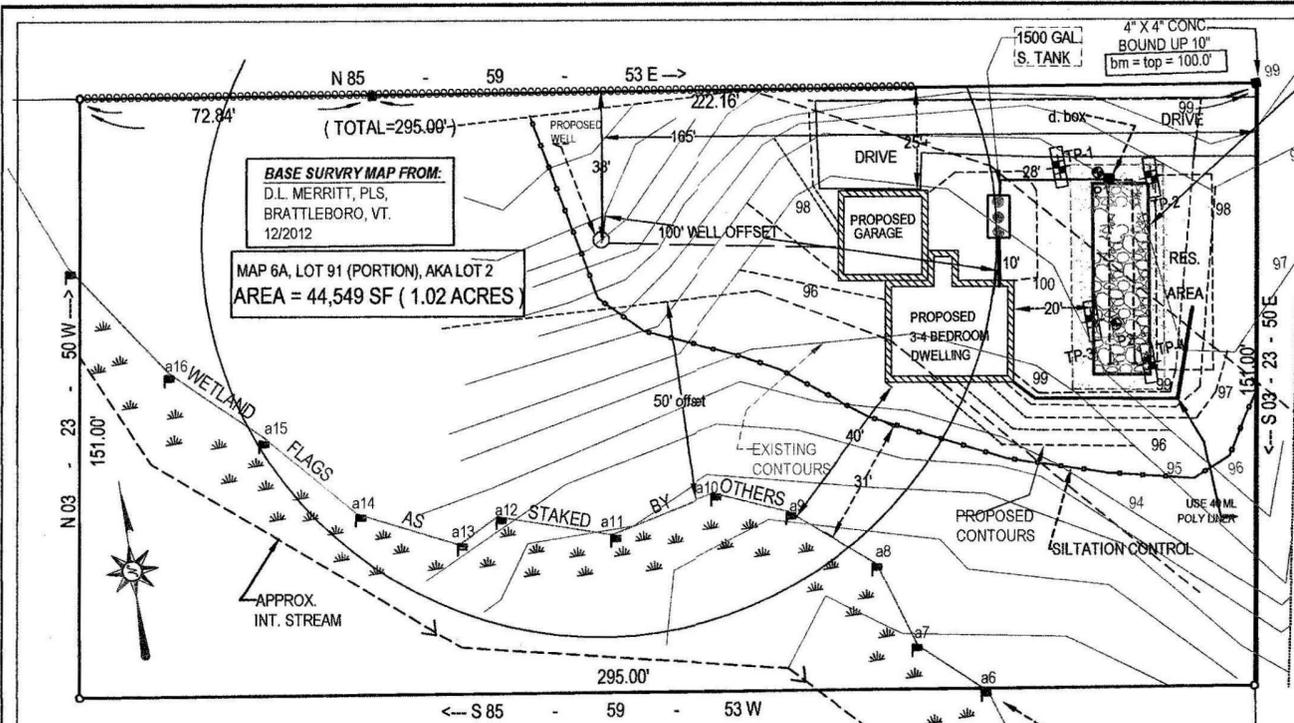
REVISED: 03.22.2012  
DRAWING NUMBER: 112-3815-0103

- GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.**
- HAVE TANK PUMPED EVERY 2 YEARS.
  - MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
  - DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
  - USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
- NOTE TO HOMEOWNER AND CONTRACTOR:  
CONNECTIONS FROM HEATING SYSTEM, AIRCONDITIONERS, SUMP PUMPS, WATER WELL FILTRATION UNITS AND HEAT PUMPS ARE NOT ALLOWED, SANITARY WATER CONNECTIONS ONLY PERMITTED.

**ATTENTION INSTALLER!!**  
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

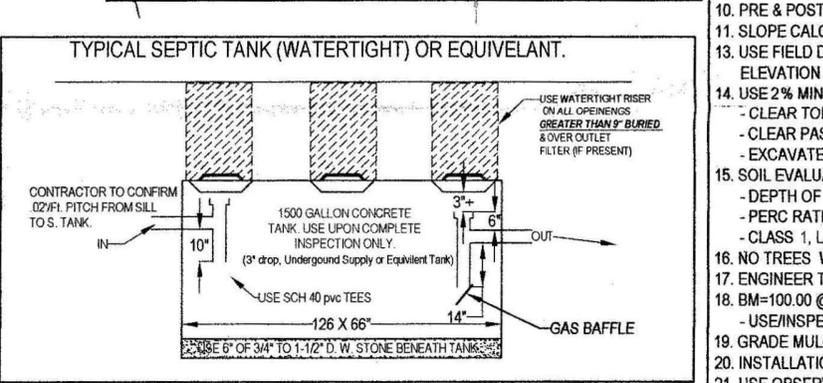
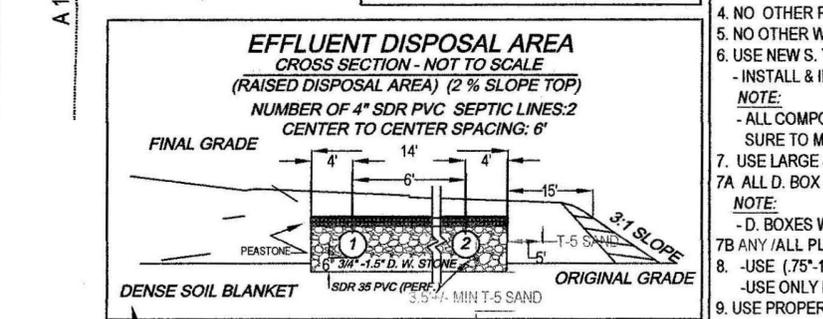
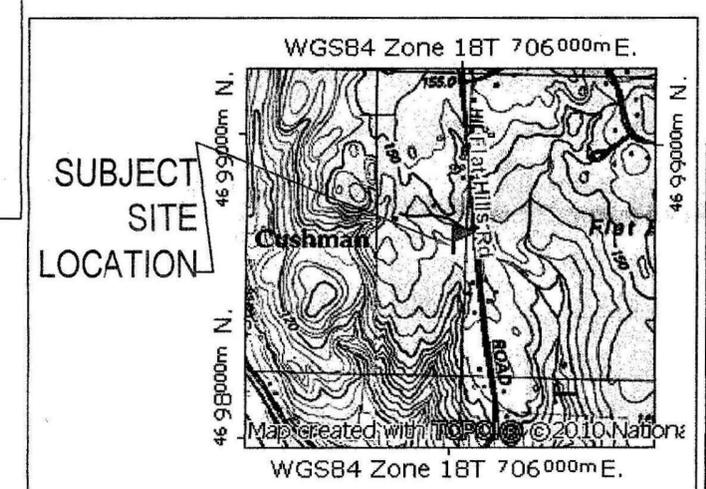
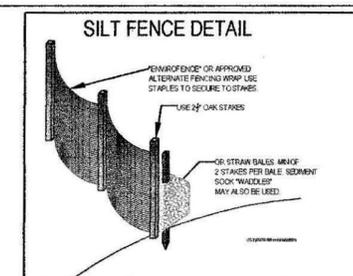
NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.





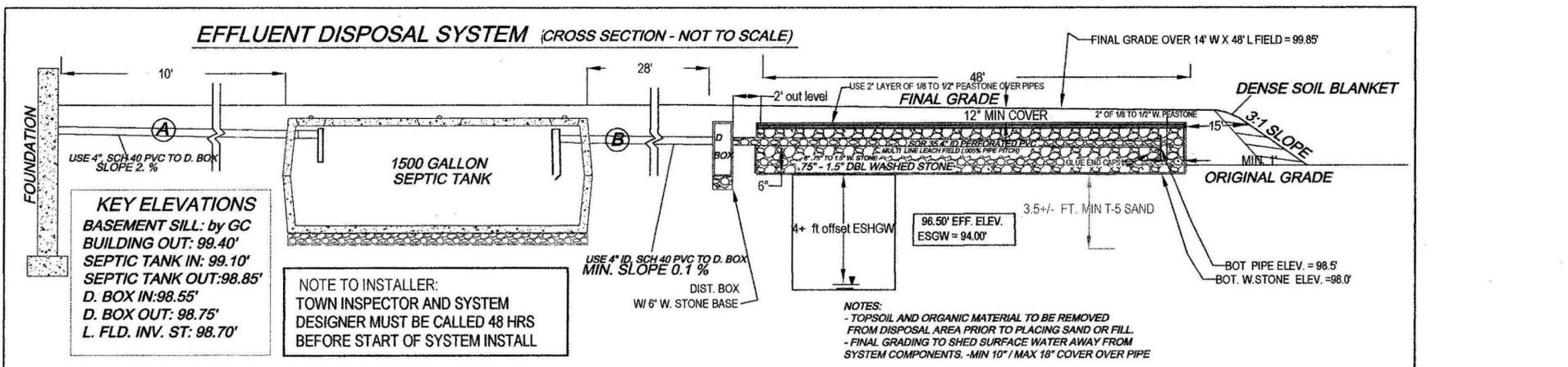
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- AS SOON AS IS POSSIBLE WORK AREA SHALL BE SEEDED, REVEGETATED WITH GRASS OR SIMILAR GROUND COVER AND MULCHED UPON COMPLETION OF SITE WORK.
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- REGRADE WORK AREA AS NOTED TO PREVENT CHANGE IN SLOPE OR RUNOFF PATTERNS.



**DESIGN NOTES AND CALCULATIONS:**

- 4 (BEDROOM HOME DESIGN) = 440 GPD MIN. REQUIRED.  
- Use LEACHING FIELD 14' WIDE X 48' LONG WITH 6" OF 3/4" TO 1 1/2" DBL WASHED STONE BELOW INVERT:  
- BOTTOM AREA: L. FIELD (14' W X 48' L) = 672 SF.  
- TOTAL AREA: 672 SF X .66 GAL/SF = 444 GPD PROVIDED.
- GARBAGE DISPOSAL NOT PERMITTED. (A/C AND FURNACE CONDENSATE TUBES NOT ALLOWED)
- NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.
- NO OTHER WETLANDS WITHIN 100 FEET OF SAS, FILE NOTICE OF INTENT CONCURRENT WITH PLAN
- USE NEW S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK  
- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),  
NOTE:  
- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
- USE LARGE STYLE (6 OUTLET) D.BOX ONLY.
- ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS  
NOTE:  
- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.
- ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.
- USE (.75"-1 1/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.  
-USE ONLY DBL. WASHED APPROVED (.75"-1.5") FOR PLACEMENT IN LEACH AREA.
- USE PROPER SCH. 40 PVC TEES AS SHOWN.
- PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED.
- SLOPE CALC. (SEE CONTOURS). SUBGRADE INSP. REQ'D.
- USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)
- USE 2% MIN. SLOPE OVER SAS  
- CLEAR TOP AND SUB TO 24" MIN. AS NEEDED (INSPECTION REQUIRED).  
- CLEAR PAST BASE OF B (MIN. 24") & SCARIFY UNDER BED PRIOR TO TITLE V SAND/STONE PLACEMENT.  
- EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
- SOIL EVALUATION BY A. WEISS, RS. (GARY COURTEMARCHE, BOH AGENT), 12.03.2009  
- DEPTH OF PERC. 42 & 46"  
- PERC RATE = 7 & 8 MIN / IN.  
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- BM=100.00 @ (TOP OF BOUND., as noted), CONFIRM PROPER PIPE SLOPES  
- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
- GRADE MULCH AND SEED OVER SAS AS NOTED.
- INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
- USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR.



**TEST PIT LOG:**

TP 1				TP 2: (LOGS FOR 3 & 4 ATTACHED)					
DEPTH	HORIZ.	TEXTURE:	COLOUR (MUNSELL)	MATERIAL:	DEPTH	HORIZ.	TEXTURE:	COLOUR (MUNSELL)	MATERIAL:
0-8"	A	FSL	10 YR 3.3	FRIABLE	0-8"	A	FSL	10 YR 3.3	FRIABLE
8-22"	Bw	LS	10 YR 6.6	F-M. SAND	8-24"	Bw	LS	10 YR 6.6	F-M. SAND
22-78"	C1	LS	10 YR 5.6	F-M. SANDY ABL. TILL MOD. LOOSE	24-76"	C1	LS	10 YR 5.6	F-M. SANDY ABL. TILL MOD. LOOSE
				20% BOULDERS AND COBBLES					20% BOULDERS AND COBBLES
OXIDES:	30"		10 YR 6.8		OXIDES:	30"		10 YR 6.8	
EHWT:	30"				EHWT:	30"			
STANDING H2O:	50"				STANDING H2O:	50"			
WEEPING:	50"				WEEPING:	50"			
BEDROCK:	78"+				BEDROCK:	76"+			

**SEPTIC SYSTEM PLAN FOR HOMES BY LEBLANC (aka Ken Leblanc)**  
MAP 6a LOT 94 (PORTION) AKA LOT #2  
FLAT HILLS ROAD, AMHERST, MA

**Cold Spring Environmental Consultants Inc.**  
350 Old Enfield Road  
Belchertown, MA 01007

PHONE: (413) 323-5957  
FAX: (413) 323-4916  
E-MAIL: AWEISS@charter.net

DATE: 01.22.2012  
DRAWN BY: ALAN WEISS  
SCALE: 1"=30'

REVISED: 03.22.2012  
DRAWING NUMBER: 112-3815-0103

**GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.**

- HAVE TANK PUMPED EVERY 2 YEARS.
- MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
- DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
- USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.

**NOTE TO HOMEOWNER AND CONTRACTOR:**  
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**NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.**

