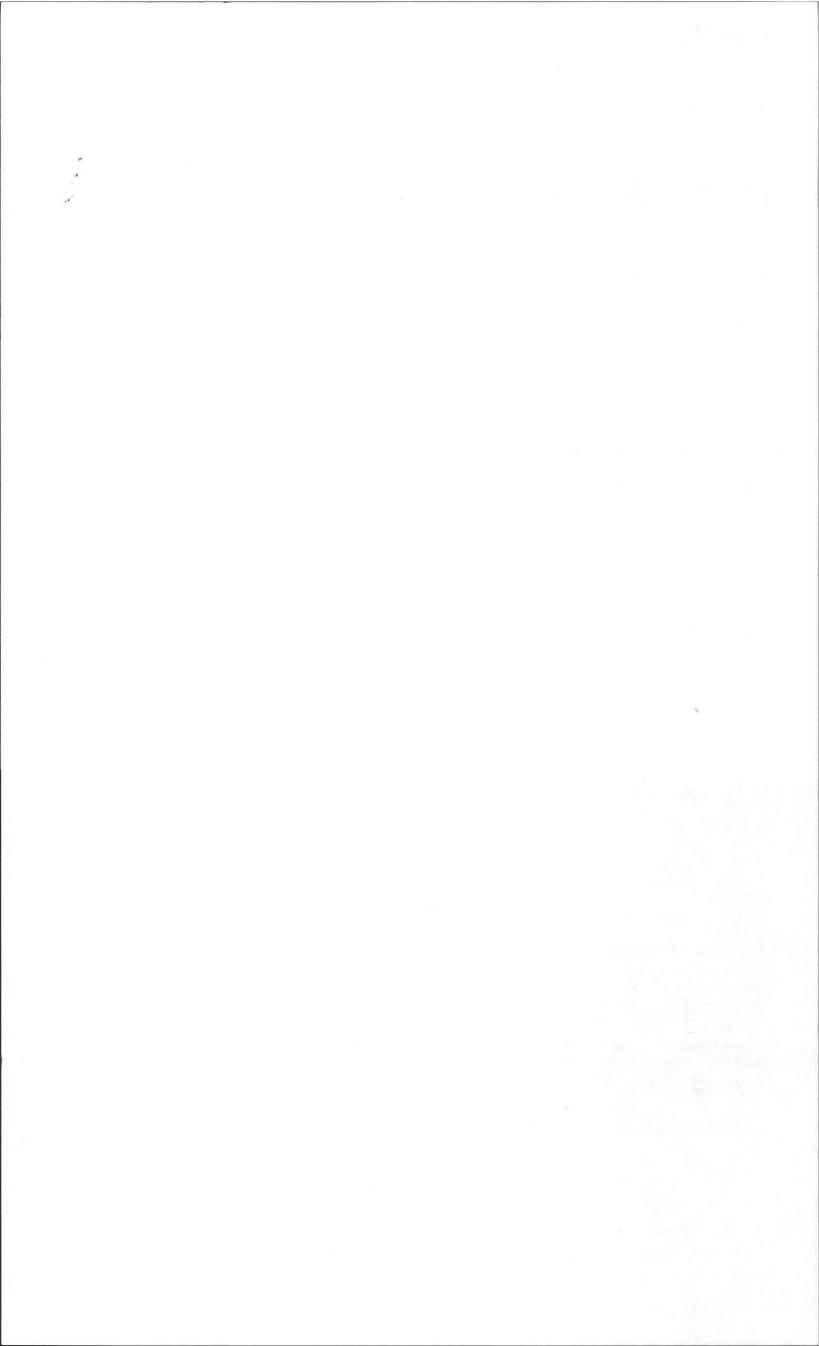
66 FLAT HILLS

167 Chendrate reg. 867 planter

No. 13-7	413.	253-5705	Wirson	FEE \$150
	COMMONWEALTH		114.	MEALINE OF MASS
	Board of Health,			REG #933
APPLIC	CATION FOR DISPOSAL	SYSTEM CONST	RUCTION PE	RMIT ACCE SMULTER ST
Application for a Permit to O	Construct() Repair 💢 Upgrade() A	abandon() - Compl	ete System 🛛 Indiv	dual Components
Location 66 fla	+ Hills Rd.	Owner's Name	Illia bera	cl r 5
Map/Parcel# 9A	B7 + 9A 34	Address 401 W.	Rodrance, PK,	Greenshow, NC. Z
Lot#	37134.		6-256-8	
Installer's Name TBD	Peter Wilson.	Designer's Name	Har Weiss R	S
Address	Pelhay, mA.	Address	Eldertown,	WA .
Telephone#	0 1	Telephone#	413-323-59	57
Type of Building				
Dwelling - No. of Bedrooms	11 0 0	No. (of persons	Garbage grinder (No X M 55- Removed Showers (), Cafeteria ()
Other Fixtures Design Flow (min, required)	gpd Calculated	design flow 440	Design flow p	rovided 459 gpd
Plan: Date 3 3 13	Number of sheets	1		
Title Sephe	Systen Repa	r Plan.		
Description of Soil(s) <u>+51</u>	Name of Soil Evalu	Alles	Date of Evaluat	7/15/17
Soil Evaluator Form No	ivame of Soil Evan	E. Smith.	Date of Evaluat	
DESCRIPTION OF REPAIRS	OR ALTERATIONS Caple	te new "	System	
			1	
No. 12-17				FEE \$150
No	COMMONWEALTH		SETTS	FEE \$150 mailed to 13
	Board of Health, <u>MM</u>		MA.	near 8/16/11
×		OF COMPLIANC	E	
-	ividual Component(s)		(\) Upgraded ()	Abandoned ()
by: BILL GERAC	E c/o MEATLY HAT			
at CCG FLAT H	LLS ROAD			
has been installed in accorda	nce with the provisions of 310 CMR 1. , dated $\frac{2/3}{\sqrt{2}}$. Approve	5.00 (Title 5) and the ap d Design Flow <u>459</u>	proved design plans (gpd)	/as-built plans relating to
Designer:	Inspector:	algutta	Date:	1/12/13
The issuance of this permit s	hall not be construed as a guarantee th			
No. 13 - 7_				FEE_\$ 155
1-1-	COMMONWEALTH	OF MASSACHU	SETTS	
	Board of Health, Aun			
	DISPOSAL SYSTEM C			
Permission is hereby grant	ed to; Construct() Repair(λ)	Upgrade() Abando	n() an individua	l sewage disposal system
at 66 FUTT HIL	a 9a 🖷			d in the application for
	ion Permit No. <u>13-7</u> , date	d 3.18/13.		
	all be completed within three year	rs of the date of this pe		
Form 1255 Rev. 5/96 A.M. Sulkin Co. Charlestow	MA Date <u>3/14/13</u> Boa	rd of Health	1 C Mitter	H-



557725799 04/10/2013 6935454468

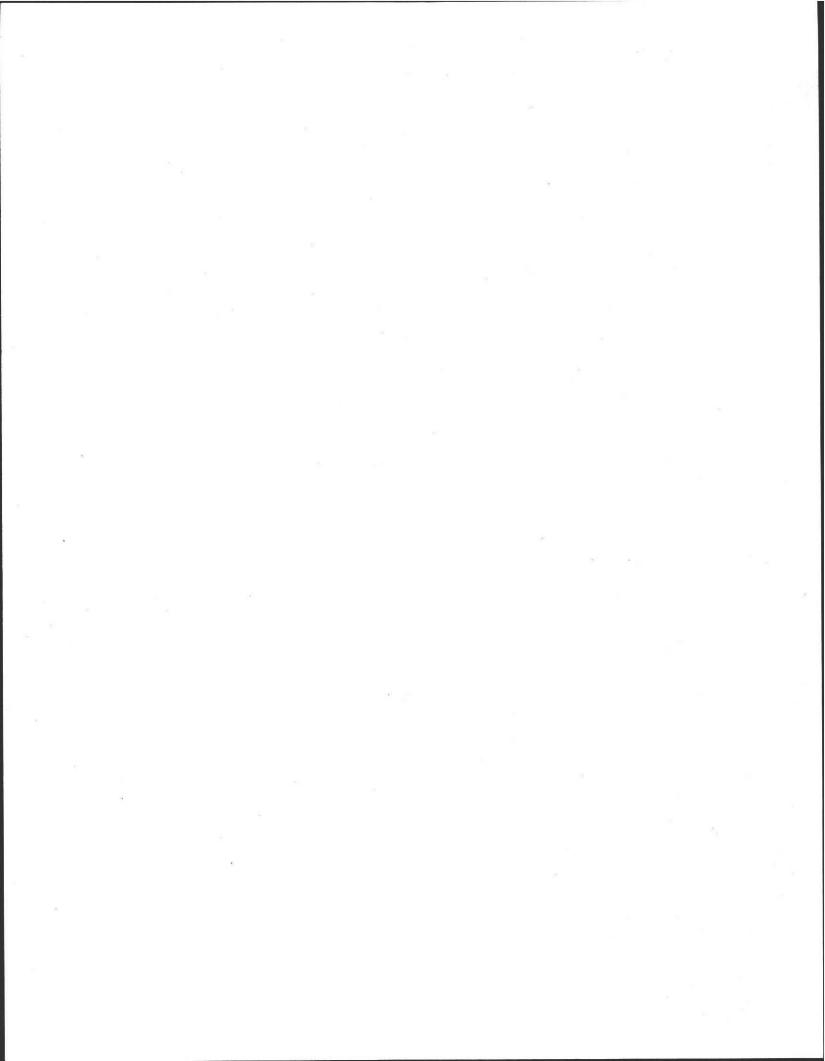
This is a LEGAL COPY of your check. You can use it the same way you would use the original check.

RETURN REASON (A) NOT SUFFICIENT FUNDS

ALL SALES Martin Contractor Martin States - North ZANA HATCH 66 FLAT HILLS ROAD AMHERST, MA 01002 Ph. 4134275881 C2211721&L1 04/05/2013 0006369746 127 53-8027/2118 Mar.14, 2013 Pay to the Order of \$ 00 A festerie Vollars NO P.O. Box 1060 Hadley, MA 01035-1060 Е Permi entic For MP 1: 2 381#0127 46 n JEWFOED CIT CANES Interal Choice

46381#0127 *0000065000*

· This check was returned. Need to sobmit cash + \$25 fee.



CUST NAME 4 BOLTWOOD AVENUE 04/23/13 CITY, ST, ZIP

***TOWN OF A TOWN HAL AMHERST M REFERENCE DATE/TIME 10:38

CUST NAME

0 DEPT

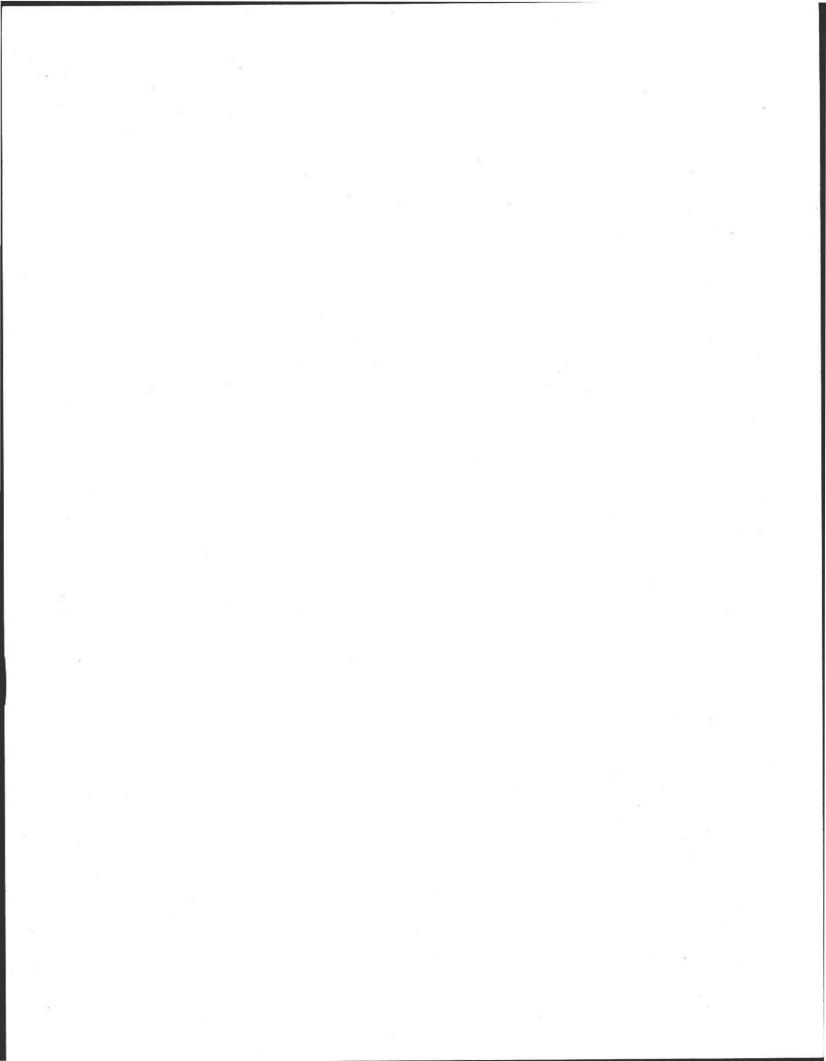
DE HEA058

TITLE V WI 200.

RECPT TOTAL

AMOUNT

200.00 ZANA HATCH QUA CASH



CUST NAME 4 BOLTWOOD AVENUE 04/23/13 CITY, ST, ZIP

***TOWN OF A TOWN HAL AMHERST M REFERENCE DATE/TIME 10:41

CUST NAME

300.

DE HEA011

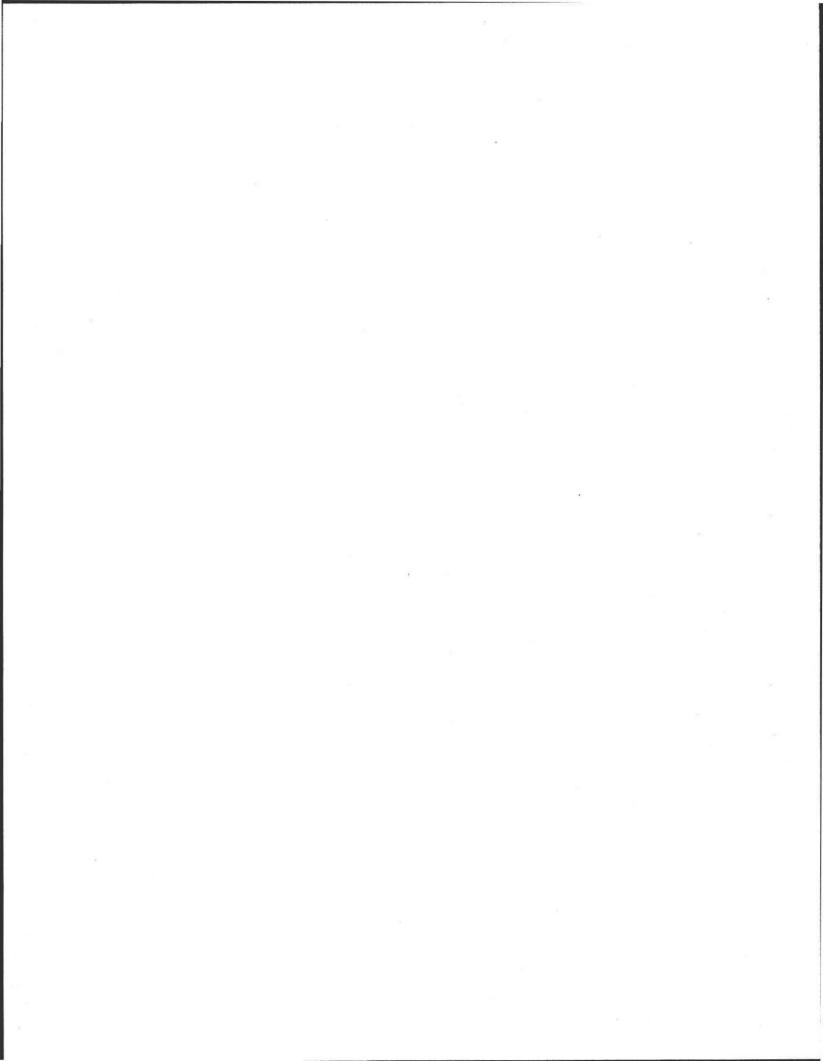
RECPT TOTAL

AMOUNT

300.00 ZANA HATCH QUA CASH

130 PE

0 DEPT PERCOLATIO



CUST NAME 4 BOLTWOOD AVENUE 04/23/13 CITY, ST, ZIP ***TOWN OF A TOWN HAL AMHERST M REFERENCE DATE/TIME 10:43

CUST NAME

0 DEPT

DE HEA017

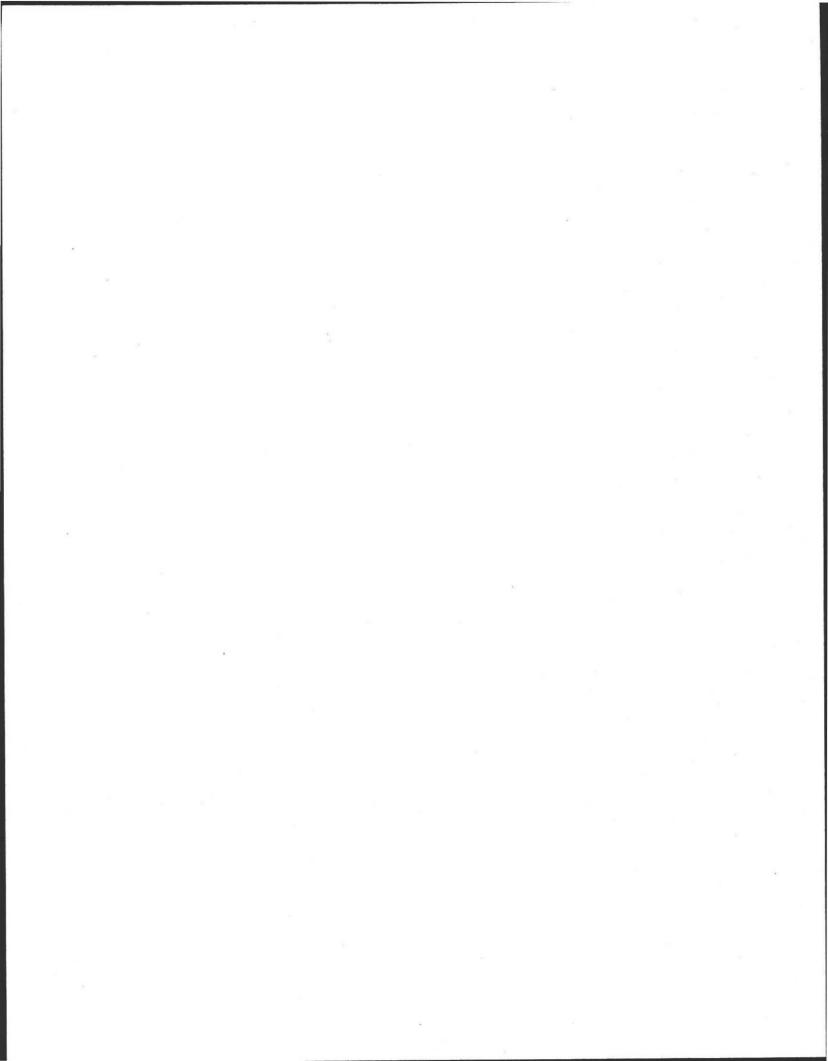
SEPTIC TAN

175.

RECPT TOTAL

AMOUNT

175.00 ZANA HATCH QUA CASH



March 14, 2013 INVOICE

AMHERST PUBLIC HEALTH DEPARTMENT

Bangs Community Center 70 Boltwood Walk Amherst, MA 01002

DATE: March 14, 2013

то

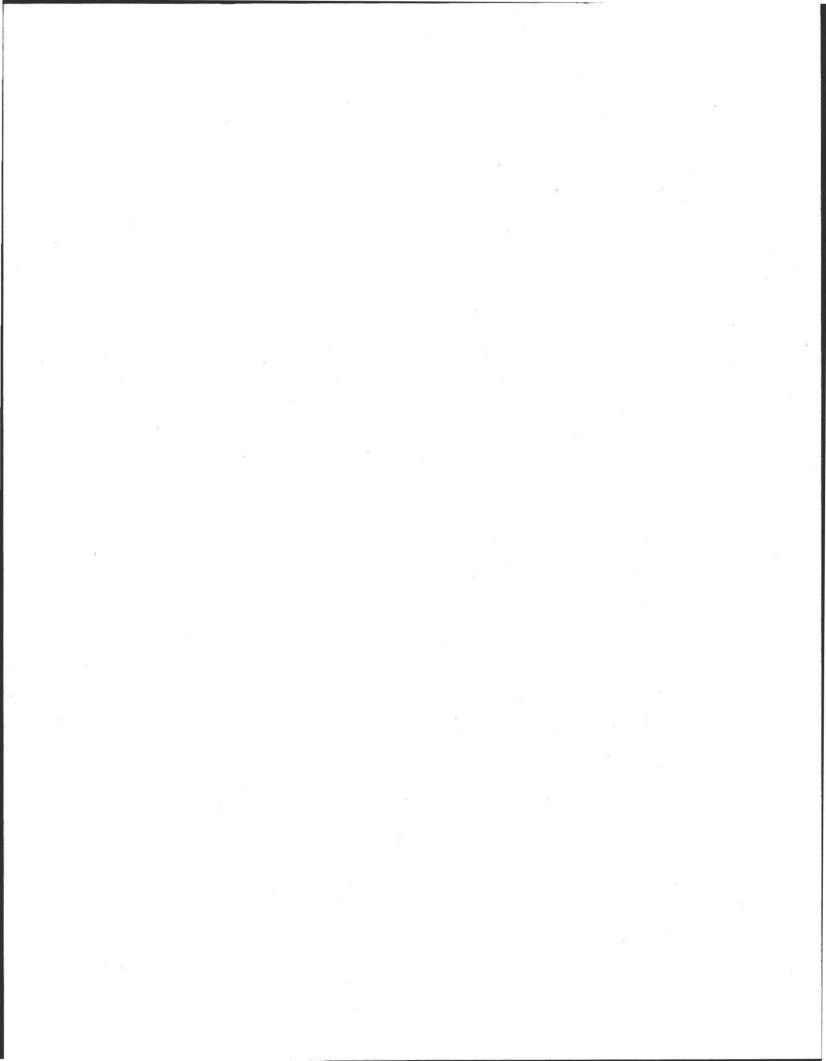
William Gerace 401 W. Radiance, Drive Greensboro, NC 27403

RE: Invoice for Title 5 Witness, Soil Evaluation, Plan Review 66 Flat Hills Road, Amherst MA Services provided by Edmund Smith PAYMENT TERMS: I Paid in Full 3/14/2013

QUANTITY	DESCRIPTION	UN	T PRICE	LIN	E TOTAL
1.00	Title 5 Witness Fee (per local regulation)	s	200.00	\$	200.00
1.00	Soil Evaluation	s	300.00	\$	300.00
1.00	Plan Review (plans received 3/14/2013)		150.00	\$	150.00
	Paid this day by Zana Hatch check #127				(650.00)
	thank you				
			CURTOTAL	6	
			SUBTOTAL SALES TAX	Contraction of the local distance of the loc	

TOTAL \$

Batch - 5640 App - 17445 - Reccipt - 13091421 17446 - " - 13091422 17447 " - 13091423 The addict added here



CUST NAME 4 BOLTWOOD AVENUE 04/01/13 CITY, ST, ZIP ***TOWN OF A TOWN HAL AMHERST M REFERENCE DATE/TIME 10:37

CUST NAME

0 DEPT

DE HEA058

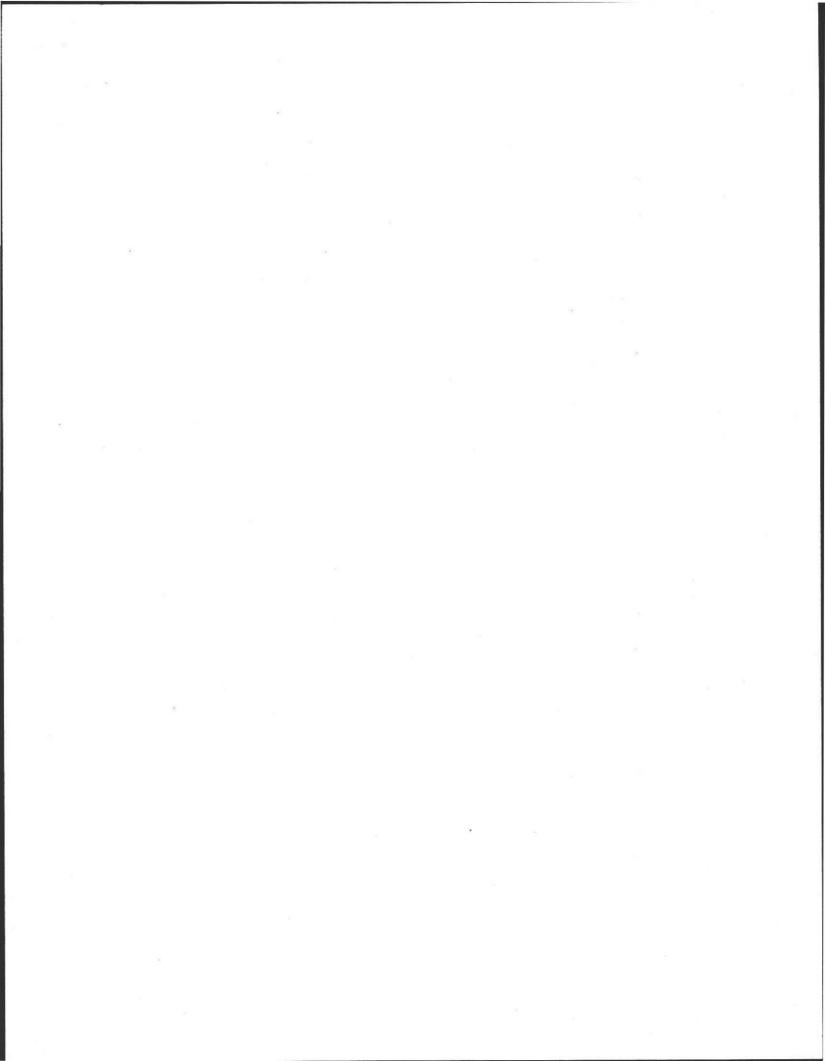
TITLE V WI 200.

RECPT TOTAL

200.00 ZANA HATCH QUA CHECK

127

AMOUNT



CUST NAME 4 BOLTWOOD AVENUE 04/01/13 CITY, ST, ZIP

***TOWN OF A TOWN HAL AMHERST M REFERENCE DATE/TIME 10:40

CUST NAME

0 DEPT

DE HEA011

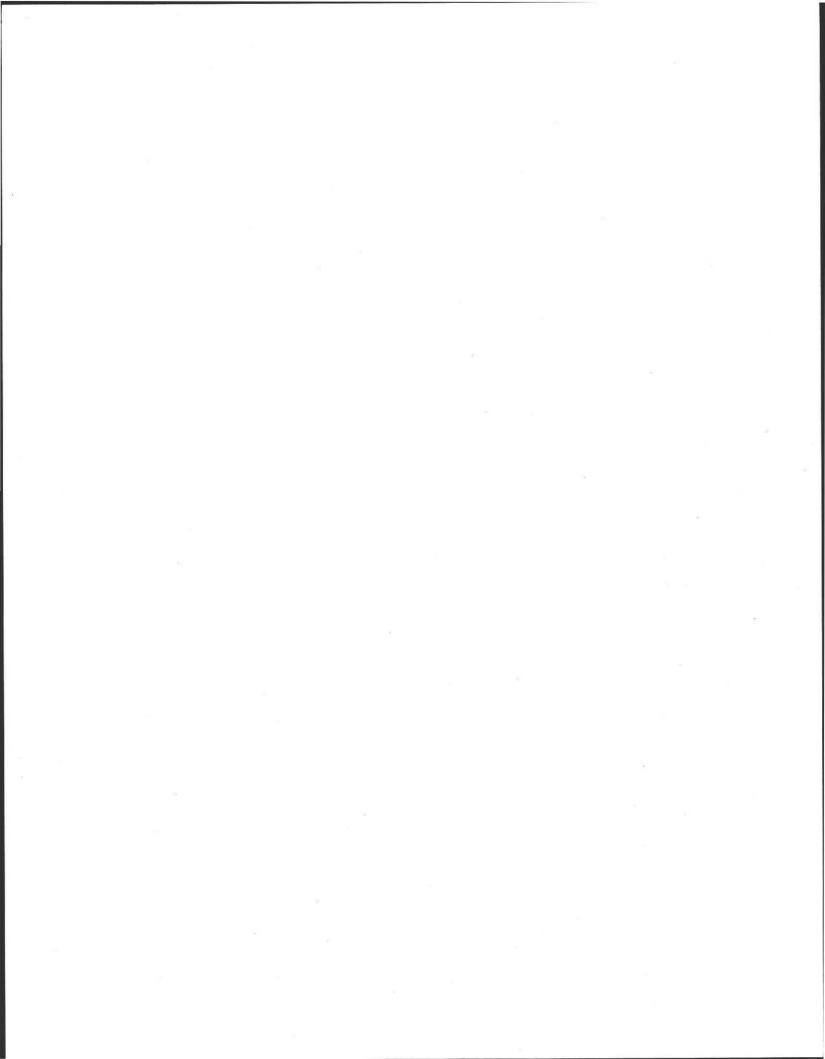
PERCOLATIO 300.

RECPT TOTAL

300.00 ZANA HATCH QUA CHECK

127

AMOUNT



CUST NAME 4 BOLTWOOD AVENUE 04/01/13 CITY, ST, ZIP ***TOWN OF A TOWN HAL AMHERST M REFERENCE DATE/TIME 10:43

CUST NAME

0 DEPT

DE HEA017

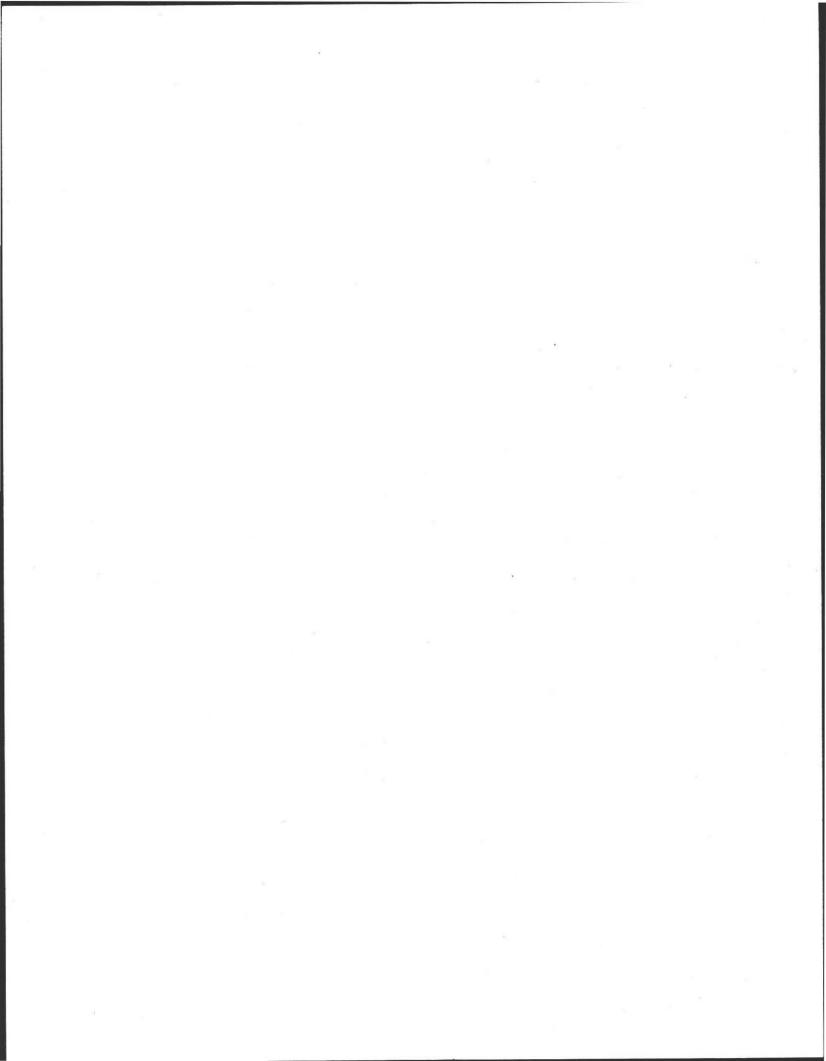
SEPTIC TAN 150.

RECPT TOTAL

150.00 ZANA HATCH QUA CHECK

127

AMOUNT





Commonwealth of Massachusetts Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

66 Flat Hills Road				2
Property Address				10
Bill Gerace (C/O Heath Hatch)				Nº1
Owner's Name				2
Amherst	MA	01002	03.20.2012	(
City/Town	State	Zip Code	Date of Inspection	

0

Inspection results must be submitted on this form. Inspection forms may not be altered in any way. Please see completeness checklist at the end of the form.

A. General Information

Inspector:		
Alan E Weiss, M.S, Hydrogeologist, RS # 933		
Name of Inspector		12
Cold Spring Environmental Consultants Inc.		
Company Name		
350 Old Enfield Road		
Company Address		
Belchertown	MA	01007
City/Town	State	Zip Code
413.323.5957	# 738	
	License Number	

B. Certification

I certify that I have personally inspected the sewage disposal system at this address and that the information reported below is true, accurate and complete as of the time of the inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on site sewage disposal systems. I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000). The system:

Inspector's Signature	Date	
In Lora	03.20.2012	
Needs Further Evaluation by the Local A	Approving Authority	
Passes Conc	ditionally Passes	🛛 Fails

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

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

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





Commonwealth of Massachusetts Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

City/Town	State	Zip Code	Date of Inspection
Amherst	MA	01002	03.20.2012
Owner's Name			
Bill Gerace (C/O Heath Hatch)			
Property Address			
66 Flat Hills Road			

B. Certification (cont.)

Inspection Summary: Check A,B,C,D or E / always complete all of Section D

A) System Passes:

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

Comments:

Property has original 1000 Gal S. tank and D. Box with L. field of 36+ yrs, Tank had some corrosion. D. box was full of liquid over pipes & Leach area had ponding and piping in hydraulic failure. Needs perc test and new engineered system with. Well Location to be confirmed. Recommended removal of Garbage grinder from K. Sink and dehumidifier from septic system.

B) System Conditionally Passes:

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

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

The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health.

* A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.

	ND (Explain below)
--	--------------------



t5ins + 11/10

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Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

A Charles			Hills R						
			Address	/O Heath Hatch)					
wner	-		Name	O Health Halch)				-	
formation is quired for	An	her	st		MA	0	1002	(03.20.2012
ery page.	City	/Tow	n		State	Z	p Code	C	Date of Inspection
	B	C	ertific	cation (cont.)				,	
		B)	Syste	m Conditionally Passes (cont.)):				
			to bro	vation of sewage backup or brea ken or obstructed pipe(s) or due nspection if (with approval of Bo	to a brok	en, se			
*				broken pipe(s) are replaced		· □	(🗌 N		ND (Explain below):
				obstruction is removed		` 🗆	(🗌 N		ND (Explain below):
				distribution box is leveled or re	eplaced	<u>ا</u> ا			ND (Explain below):
		-							
				ystem required pumping more th n will pass inspection if (with app					
				broken pipe(s) are replaced					ND (Explain below):
				obstruction is removed		<u>י</u> ם	(🗆 N		ND (Explain below):
		-							A
		_							
								14	
		C)	Furth	er Evaluation is Required by t	ne Board	of He	alth:		
				tions exist which require further of stem is failing to protect public h					
			15.30	stem will pass unless Board o 3(1)(b) that the system is not f y and the environment:					
				Cesspool or privy is within 50	feet of a	surface	e water		
				Cesspool or privy is within 50	feet of a	oorder	ing vegeta	ated	wetland or a salt marsh
is • 11/10					Tit	le 5 Officia	Inspection For	m; Subs	urface Sewage Disposal System • Page 3 of 17



Commonwealth of Massachusetts Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

City/Town	State	Zip Code	Date of Inspection	
Amherst	MA	01002	03.20.2012	
Owner's Name				
Bill Gerace (C/O Heath Hatch)				
Property Address				
66 Flat Hills Road				

B. Certification (cont.)

2. System will fail unless the Board of Health (and Public Water Supplier, if any) determines that the system is functioning in a manner that protects the public health, safety and environment:

The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.

The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.

The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.

The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well**.

Method used to determine distance:

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

3. Other:

D) System Failure Criteria Applicable to All Systems:

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

Yes	No	
\boxtimes		Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool
	\boxtimes	Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool
\boxtimes		Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool
	\boxtimes	Liquid depth in cesspool is less than 6" below invert or available volume is less than $\frac{1}{2}$ day flow

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 4 of 17



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Commonwealth of Massachusetts Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

A CONTRACTOR	66 Flat Hills Road			
	Property Address			
	Bill Gerace (C/O Heath Hatch)			
Owner nformation is equired for every page.	Owner's Name			
	Amherst	MA	01002	03.20.2012
	City/Town	State	Zip Code	Date of Inspection
	D. Contification ()			

B. Certification (cont.)

	Yes	No	
		\boxtimes	Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped:
		\boxtimes	Any portion of the SAS, cesspool or privy is below high ground water elevation.
		\boxtimes	Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.
		\boxtimes	Any portion of a cesspool or privy is within a Zone 1 of a public well.
		\boxtimes	Any portion of a cesspool or privy is within 50 feet of a private water supply well.
			Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis and chain of custody must be attached to this form.]
			The system is a cesspool serving a facility with a design flow of 2000gpd- 10,000gpd.
			The system <u>fails</u> . I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.
a	rge Syst	tems: To	be considered a large system the system must serve a facility with a

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

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

Yes	No	
		the system is within 400 feet of a surface drinking water supply
		the system is within 200 feet of a tributary to a surface drinking water supply
		the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area – IWPA) or a mapped Zone II of a public water supply well

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



Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

City/Town	State	Zip Code	Date of Inspection
Amherst	MA	01002	03.20.2012
Owner's Name			
Bill Gerace (C/O Heath Hatch)			
Property Address			
66 Flat Hills Road			

C. Checklist

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

Yes	No	
\boxtimes		Pumping information was provided by the owner, occupant, or Board of Health
	\boxtimes	Were any of the system components pumped out in the previous two weeks?
\boxtimes		Has the system received normal flows in the previous two week period?
	\boxtimes	Have large volumes of water been introduced to the system recently or as part of this inspection?
	\boxtimes	Were as built plans of the system obtained and examined? (If they were not available note as N/A)
\boxtimes		Was the facility or dwelling inspected for signs of sewage back up?
\boxtimes		Was the site inspected for signs of break out?
\boxtimes		Were all system components, excluding the SAS, located on site?
		Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum?
		Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The size and location of the Soil Absorption System (SAS) on the site has been determined based on:
\boxtimes		Existing information. For example, a plan at the Board of Health.
\boxtimes		Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(5)]

D. System Information

Residential Flow Conditions:				
Number of bedrooms (design):	?	 Number of bedrooms (actual): 	4	
DESIGN flow based on 310 CMR	15.203 (for e	xample: 110 gpd x # of bedrooms):	?	



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Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

AND THE REAL PROPERTY IN	66 Flat Hills Road							
	Property Address							
er	Bill Gerace (C/O Heath Hatch) Owner's Name							
mation is	Amherst	MA	01002	03.20.201	2			
ed for page.	City/Town	ection						
	D. System Information Description: 1000 gallon S. tank and leach area d box	ic failure.						
	Number of current residents:				5			
	Does residence have a garbage grinder?				🛛 Yes 🗌 No			
	Is laundry on a separate sewage system?	[if yes sep	arate inspectio	n required]	🗌 Yes 🛛 No			
	Laundry system inspected?				Yes No			
	Seasonal use?				🗌 Yes 🖾 No			
	Water meter readings, if available (last 2 y	ears usage	e (gpd)):		n/a			
	Detail: Laundry was connected to main system.							
		v						
	Sump pump?		*		🗌 Yes 🛛 No			
	Last date of occupancy:				Date			
	Commercial/Industrial Flow Conditions	:						
	Type of Establishment:							
	Design flow (based on 310 CMR 15.203):		Gallons	per day (gpd)				
	Basis of design flow (seats/persons/sq.ft.,	etc.):						
	Grease trap present?				Yes No			
	Industrial waste holding tank present?				Yes No			
	Non-sanitary waste discharged to the Title	5 system?	?		Yes No			

Water meter readings, if available:



Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

66 Flat Hills Roa	ad			
Property Address Bill Gerace (C/C	Heath Hatch)			
Owner's Name				
Amherst		MA	01002	03.20.2012
City/Town		State	Zip Code	Date of Inspection
	Information (cont.)		currer	it
Last date of	occupancy/use:		Date	
Other (desc	cribe below):			: f
		neral Infor	mation	
Pumping R	ecords:			
Source of in	Source of information:		S.	
Was system	n pumped as part of the inspec			🛛 Yes 🗌 No
If yes, volun	ne pumped:	1000 gallon Meas	s	
How was qu	antity pumped determined?	Ivieas	5.	
Reason for	pumping:	Insp.		
Type of Sys	stem:			
\boxtimes	Septic tank, distribution b	ox, soil abs	sorption system	1
	Single cesspool			
	Overflow cesspool			
	Privy			
	Shared system (yes or no	o) (if yes, at	tach previous i	nspection records, if any)
		be obtaine	d from system	the current operation and owner) and a copy of latest der contract
	Tight tank. Attach a copy	of the DEP	approval.	
	Other (describe):			

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 8 of 17

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Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

A CONTRACTOR	Property Address						
	Bill Gerace (C/O Heath Hatch)						
ner ormation is	Owner's Name						
uired for	Amherst	MA	01002	03.20.2012			
ery page.	City/Town	State	Zip Code	Date of Inspection			
every page.	D. System Information (cont.)						
	Approximate age of all com	ponents, date installed (if	f known) and so	ource of information:			

Were sewage odors deter	cted when arriv	ing at the site?		□ Yes ⊠ No
		ing at the site !		
Building Sewer (locate o	on site plan):		2.0	
Depth below grade:		с. в.	3.0 feet	
Material of construction:				
🛛 cast iron 🗌 4	0 PVC	other (explain)	:	
Distance from private wat	er supply well o	or suction line:	feet	
Comments (on condition of	of joints, venting	g, evidence of leaka	ige, etc.):	
Good condition	E.			
Septic Tank (locate on si	te plan):			
Depth below grade:			2.5 feet	
Material of construction:				
🛛 concrete	metal	fiberglass	polyethylene	other (explain)
1000 gallon black staining	g up to lid and c	over baffle		
			0	
If tank is metal, list age:			years	
Is age confirmed by a Cer	tificate of Com	pliance? (attach a c	Set of Contractings	🗌 Yes 🗌 No
Dimensions:	1		<u>8 x 4.0' x 4</u>	_
Sludge depth:			16"	

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 9 of 17



Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Star Barris	66 Flat Hills Road							
	Property Address							
Owner	Bill Gerace (C/O Heath Hatch) Owner's Name		i.					
information is	Amherst	MA	01002	03.20.20	12			
required for every page.	City/Town	State	Zip Code	Date of Ins				
	D. System Informatio	n (cont.)						
	Septic Tank (cont.)		2	0"				
	Distance from top of sludge	to bottom of outlet tee or	r baffle 3	2"				
	Scum thickness		6					
	Distance from top of scum to	Distance from top of scum to top of outlet tee or baffle						
	Distance from bottom of scu	im to bottom of outlet tee	e or bame -	12" Obs				
	How were dimensions deter	mined?		JDS				
	liquid levels as related to ou	Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural inte- liquid levels as related to outlet invert, evidence of leakage, etc.): Tank had corrsion at outlet baffle, with old style concrete baffles.						
		*						
	Grease Trap (locate on site	plan):						
	Depth below grade:	-	fe	et				
	Material of construction:							
		tal 🗌 fibergla	ass 🗌 po	lyethylene	other (explain):			
	Dimensions:		_					
	Scum thickness		-					
	Distance from top of scum to	o top of outlet tee or baffl	le —					
	Distance from bottom of scu	Im to bottom of outlet tee	or baffle					
	Date of last pumping:		Da	ate				

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 10 of 17



Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

City/Town	State	Zip Code	Date of Inspection
Amherst	MA	01002	03.20.2012
Owner's Name			
Bill Gerace (C/O Heath Hatch)			
Property Address			
66 Flat Hills Road			

D. System Information (cont.)

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

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

Depth below grade:

Material of construction:

concrete	metal	☐ fiberglass	polyethylen	e 🗌 oth	er (explain):
Dimensions: Capacity: Design Flow:		gallons gallons p	ber day		
Alarm present:		🗌 Ye	s 🗌 No		
Alarm level:		Alarm ir	n working order:	Yes	🗌 No
Date of last pum	iping:	Date			
Comments (con	dition of alarm and fl	oat switches, etc.):			
		2			
* Attach copy of	current pumping cor	ntract (required). Is copy	vattached?	🗌 Yes	□ No



Commonwealth of Massachusetts Title 5 Official Inspection Form

66 Flat Hills Road Property Address Bill Gerace (C/O Heath Hatch) Owner's Name Amherst MA Other's Name Amherst MA Other's Name Distribution Box (if present must be opened) (locate on site plan): Depth of liquid level above outlet invert Ilquid level 6" over pipe inverts Comments (note if box is level and distribution to outlets equal, any evidence of solids evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure. Pump Chamber (locate on site plan): Pumps in working order: Alarms in working order: Ves Comments (note condition of pump chamber, condition of pumps and appurtenances, on the state of the state of plan, excavation not required): If SAS not located, explain why:	inverts of solids carryover, es
Bill Gerace (C/O Heath Hatch) Owner's Name Amherst City/Town D. System Information (cont.) Distribution Box (if present must be opened) (locate on site plan): Depth of liquid level above outlet invert Comments (note if box is level and distribution to outlets equal, any evidence of solids evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure. Pump Chamber (locate on site plan): Pumps in working order: Alarms in working order: Comments (note condition of pump chamber, condition of pumps and appurtenances, of Soil Absorption System (SAS) (locate on site plan, excavation not required):	inverts of solids carryover, es
r Amherst MA 01002 03.20.2012 Amherst MA 01002 03.20.2012 Date of Inspection D. System Information (cont.) Distribution Box (if present must be opened) (locate on site plan): Depth of liquid level above outlet invert liquid level 6° over pipe inverts Comments (note if box is level and distribution to outlets equal, any evidence of solids evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure. Pump Chamber (locate on site plan): Pumps in working order: Yes Alarms in working order: Yes Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, total condition condition of pumps and condition condi	inverts of solids carryover, es
Amherst MA 01002 03.20.2012 Date of inspection D. System Information (cont.) Distribution Box (if present must be opened) (locate on site plan): Depth of liquid level above outlet invert liquid level 6" over pipe inverts Comments (note if box is level and distribution to outlets equal, any evidence of solids evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure. Pump Chamber (locate on site plan): Pumps in working order: Yes Alarms in working order: Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.): Soil Absorption System (SAS) (locate on site plan, excavation not required): Soil Absorption System (SAS) (locate on site plan, excavation not required):	inverts of solids carryover, es
City/Town State Zip Code Date of Inspection D. System Information (cont.) Distribution Box (if present must be opened) (locate on site plan): Depth of liquid level above outlet invert liquid level 6" over pipe inverts Comments (note if box is level and distribution to outlets equal, any evidence of solids evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure. Pump Chamber (locate on site plan): Pumps in working order: Yes Alarms in working order: Yes Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.): Soil Absorption System (SAS) (locate on site plan, excavation not required):	inverts of solids carryover, es
D. System Information (cont.) Distribution Box (if present must be opened) (locate on site plan): Depth of liquid level above outlet invert Comments (note if box is level and distribution to outlets equal, any evidence of solids evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure. Pump Chamber (locate on site plan): Pumps in working order: Alarms in working order: Comments (note condition of pump chamber, condition of pumps and appurtenances, of solids of pump chamber, solid of pumps and appurtenances, of solid Absorption System (SAS) (locate on site plan, excavation not required):	inverts of solids carryover,
Depth of liquid level above outlet invert liquid level 6" over pipe inverts Comments (note if box is level and distribution to outlets equal, any evidence of solids evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure. Box, thin and in hydraulic failure.	es 🗌 No es 🗍 No hances, etc.):
Depth of induit level above obted invert Comments (note if box is level and distribution to outlets equal, any evidence of solids evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure.	es 🗌 No es 🗍 No hances, etc.):
evidence of leakage into or out of box, etc.): Box, thin and in hydraulic failure. Pump Chamber (locate on site plan): Pumps in working order: Pumps in working order: Alarms in working order: Comments (note condition of pump chamber, condition of pumps and appurtenances, or site plan, excavation not required): Soil Absorption System (SAS) (locate on site plan, excavation not required):	es 🗌 No es 🗌 No nances, etc.):
Pumps in working order: Yes Alarms in working order: Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, or Soil Absorption System (SAS) (locate on site plan, excavation not required):	es 🗌 No nances, etc.):
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Pumps in working order: Yes Alarms in working order: Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, or Soil Absorption System (SAS) (locate on site plan, excavation not required):	es 🗌 No nances, etc.):
Pumps in working order: Yes Alarms in working order: Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, or Soil Absorption System (SAS) (locate on site plan, excavation not required):	es 🗌 No nances, etc.):
Pumps in working order: Yes Alarms in working order: Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, or Soil Absorption System (SAS) (locate on site plan, excavation not required):	es 🗌 No nances, etc.):
Pumps in working order: Yes Alarms in working order: Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, or Soil Absorption System (SAS) (locate on site plan, excavation not required):	es 🗌 No nances, etc.):
Pumps in working order: Yes Alarms in working order: Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, or Soil Absorption System (SAS) (locate on site plan, excavation not required):	es 🗌 No nances, etc.):
Alarms in working order: Yes Comments (note condition of pump chamber, condition of pumps and appurtenances, e Soil Absorption System (SAS) (locate on site plan, excavation not required):	es 🗌 No nances, etc.):
Comments (note condition of pump chamber, condition of pumps and appurtenances, o	nances, etc.):
Soil Absorption System (SAS) (locate on site plan, excavation not required):	

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 12 of 17



Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

A CARLES AND A	66 Flat Hills Road				
-0-	Property Address				
	Bill Gerace (C/O Heath Hatch)				
Owner information is required for	Owner's Name				
	Amherst	MA	01002	03.20.2012	
every page.	City/Town	State	Zip Code	Date of Inspection	
	D. System Information (cont.)			-	

Гуре:			
	leaching pits	number:	
	leaching chambers	number:	
	leaching galleries	number:	
	leaching trenches	number, length:	
\boxtimes	leaching fields	number, dimensions:	3 lines in failure
	overflow cesspool	number:	
	innovative/alternative system		
	Type/name of technology:		

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

leach field in failure, di box outlet pipes full of liquid.

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

	· * ·	
Yes	No No	
	 Yes	 YesNo

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 13 of 17



Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

City/Town	State	Zip Code	Date of Inspection	
Amherst	MA	01002	03.20.2012	
Owner's Name				
Bill Gerace (C/O Heath Hatch)				
Property Address				
66 Flat Hills Road				

D. System Information (cont.)

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

Privy (locate on site plan):

Materials of construction:

Dimensions

Depth of solids

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



Commonwealth of Massachusetts Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for	66 Flat Hills Road			
	Property Address			
	Bill Gerace (C/O Heath Hatch)			
	Owner's Name			
	Amherst	MA	01002	03.20.2012
every page.	City/Town	State	Zip Code	Date of Inspection

D. System Information (cont.)

Sketch Of Sewage Disposal System: Provide a view of the sewage disposal system, including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building. Check one of the boxes below:

hand-sketch in the area below drawing attached separately



Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Addr Bill Gerace	(C/O Heath Hatch)			
Owner's Name				
Amherst		MA	01002	03.20.2012
City/Town		State	Zip Code	Date of Inspection
D. Syste	em Information (cont.)			
Site Ex	am:			
Ch	eck Slope			
🗌 Sur	face water			
Chi	eck cellar			
Sha	allow wells			
Estimat	ed depth to high ground water:		5'+ top feet	bo of terrace.
Please	indicate all methods used to dete	ermine the hi	gh ground wate	er elevation:
	Obtained from system desig	in plans on r	ecord	
	If checked, date of design pl	lan reviewed	: Date	
	Observed site (abutting prop	perty/observa	ation hole within	n 150 feet of SAS)
\boxtimes	Checked with local Board of	Health - exp	plain:	
	Work at site & nieghborhood	1.		
	Checked with local excavato	ors, installers	- (attach docu	mentation)
	Accessed USGS database -	explain:		
Volume		the high gro	und water elev	intion.
	Ist describe how you established d on site excavation.	ine nign gro		auori.
topo an	ע טון אוני באטמימנוטון,			

Before filing this Inspection Report, please see Report Completeness Checklist on next page.

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 16 of 17



6

Commonwealth of Massachusetts Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

66 Flat Hills Road			
Property Address			
Bill Gerace (C/O Heath Hatch)			
Owner's Name			
Amherst	MA	01002	03.20.2012
City/Town	State	Zip Code	Date of Inspection
	Property Address Bill Gerace (C/O Heath Hatch) Owner's Name Amherst	Property Address Bill Gerace (C/O Heath Hatch) Owner's Name Amherst MA	Property Address Bill Gerace (C/O Heath Hatch) Owner's Name Amherst MA 01002

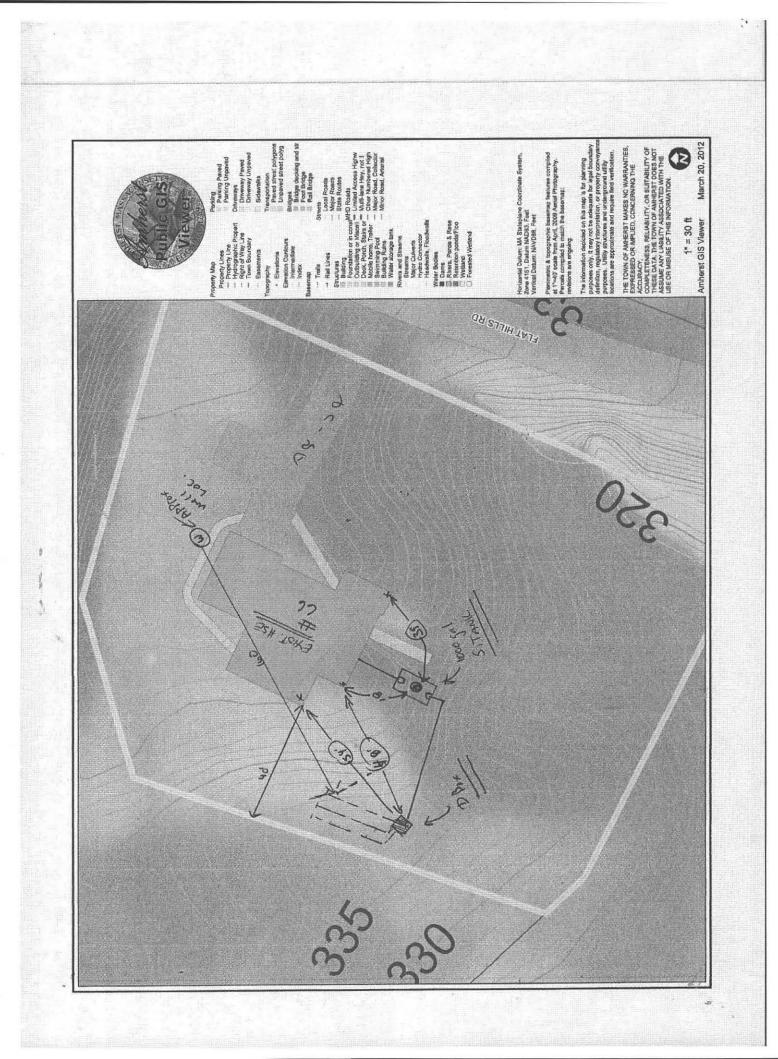
E. Report Completeness Checklist

Inspection Summary: A, B, C, D, or E checked

Inspection Summary D (System Failure Criteria Applicable to All Systems) completed

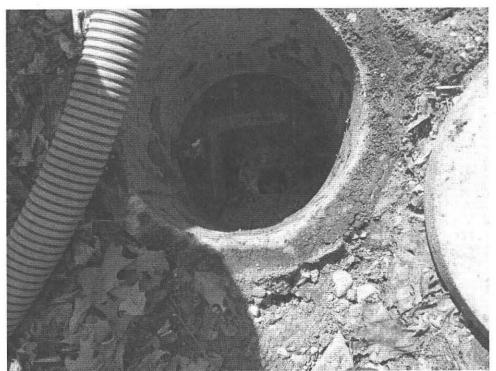
System Information – Estimated depth to high groundwater

Sketch of Sewage Disposal System either drawn on page 15 or attached in separate file





Septic Area 66 Flat Hills Road Amherst, MA 03.20.2012



Inlet baffle. 66 Flat Hills Road Amherst, MA 03.20.2012

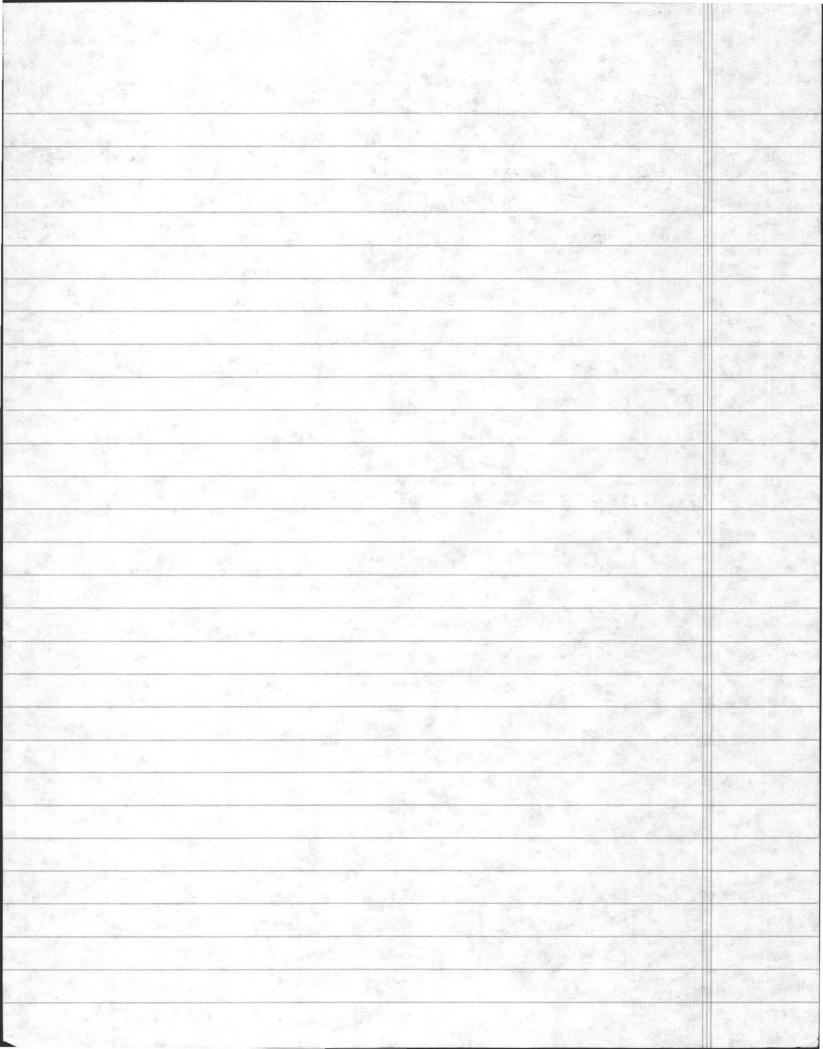


Corroded Outlet Baffle 66 Flat Hills Road Amherst, MA 03.20.2012



Failed Dist. Box 66 Flat Hills Road Amherst, MA 03.20.2012

2/15/2013 64 FLAT HILLS ROAD - REPAIR PERC. -2 DEEP HOLES WEST OF REAR OF HOUSE 46 from SW NEAR PROPERTY LINE -2' TO SEEPS - SAMRE GATHERED FOR SIEVE ANACYSIS 2.5 y 4/3 @ # C Layer 0-10 A FS DYR3/2 friable & mout 10-20 BW LS 10/E 16 n n n 20-109 C LS 2.5 YR 1/3 fine to med Aord 20 800 bles Stream ontwash



COMMONWEALTH OF MASSACHUSETTS

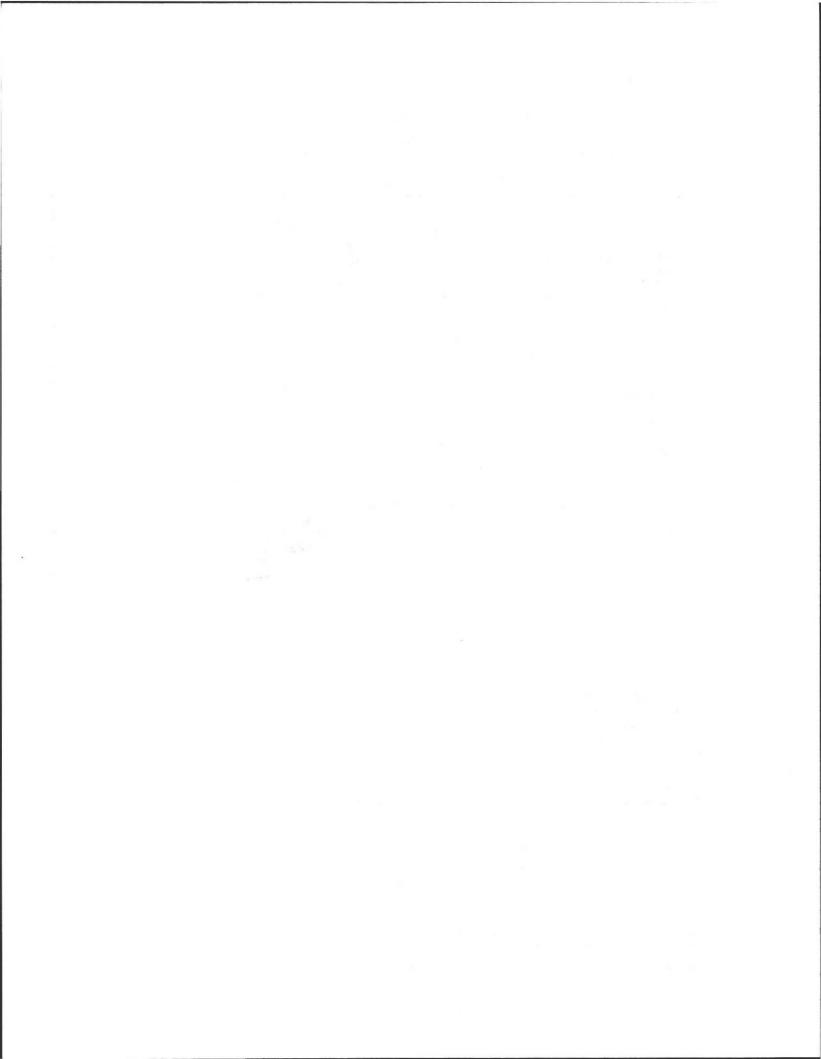


Board of Health, Amberst. , MA. APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

No.

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

Location 66 Flat Hills Rd.	Owner's Name William Gerace.
Map/Parcel# 9 A 37 + 9 A 34	Address 401 W. Rodiance. DK, Greenshow, WC.
Lot# 37134.	Telephone# 336-256-8572
Installer's Name TBD. Pete Wilson	Designer's Name Ala Weiss DS
Address Pilhan, MA.	Address Beldertown M.
Telephone#	Telephone# 413-323-5957
Type of Building le Sider ~	Lc: Size 33 9 93 sq. ft.
Dwelling - No. of Bedrooms	· · · · · · · · · · · · · · · · · · ·
Other - Type of Building 4 Bookun	Carbage grinder (No. of persons Showers (), Cafeteria ()
Other Fixtures	
	design flow <u>440</u> Design flow provided <u>459</u> gpd
Plan: Date 3 3 13 Number of sheets	Revision Date
Title 2phc 2y Stur Lepa	
Description of Soil(s) (SL: classe) by sience.	
Soil Evaluator Form No Name of Soil Evalu	uator $\underline{HUL}_{1} \neq \underline{\zeta}$ Date of Evaluation $\underline{\zeta}_{1} \underline{\zeta}_{1} \underline{\zeta}_{1}$
DESCRIPTION OF REPAIRS OR ALTERATIONS	
DESCRIPTION OF REPAIRS OR ALTERATIONS	ic new Apren
	- An and a second s
	· · ·
The undersigned agrees to install the above described Individual Sev	wage Disposal System in accordiance with the provisions of TITLE 5 and
urther agrees to not to place the system in operation until & Certifi	
Signed Dat	
nspections	Sector Sector
ispectous	
	OF MASSACHUSETTS
	OF COMPLIANCE
Description of Work: Individual Component(s) Complete S Che undersigned hereby certify that the Sewage Disposal System; Co	
ine undersigned nereby certify that the sewage Disposal System, ex	onstructure (), repaired (), opgraded (), nonidored ()
r	
	5.00 (Title 5) and the approved design plans/as-built plans relating to
pplication No, dated, Approved	d Design Flow (gpd)
nstaller Inspector:	. Date:
The issuance of this permit shall not be construed as a guarantee that	
-	a mo dynom o m mangaran
io	FEE
COMMONWEATTH	OF MASSACHUSETTS
Board of Health,	, <i>MA</i> .
DISPOSAL SYSTEM CO	ONSTRUCTION PERMIT
ermission is hereby granted to: Construct() Repair() I	Upgrade() Abandon() an individual sewage disposal system
t	as described in the application for
isposal System Construction Permit No, dated	a
rovided: Construction shall be completed within three years	s of the date of this permit. All local conditions must be met.
Den Pres	ad of Woolth



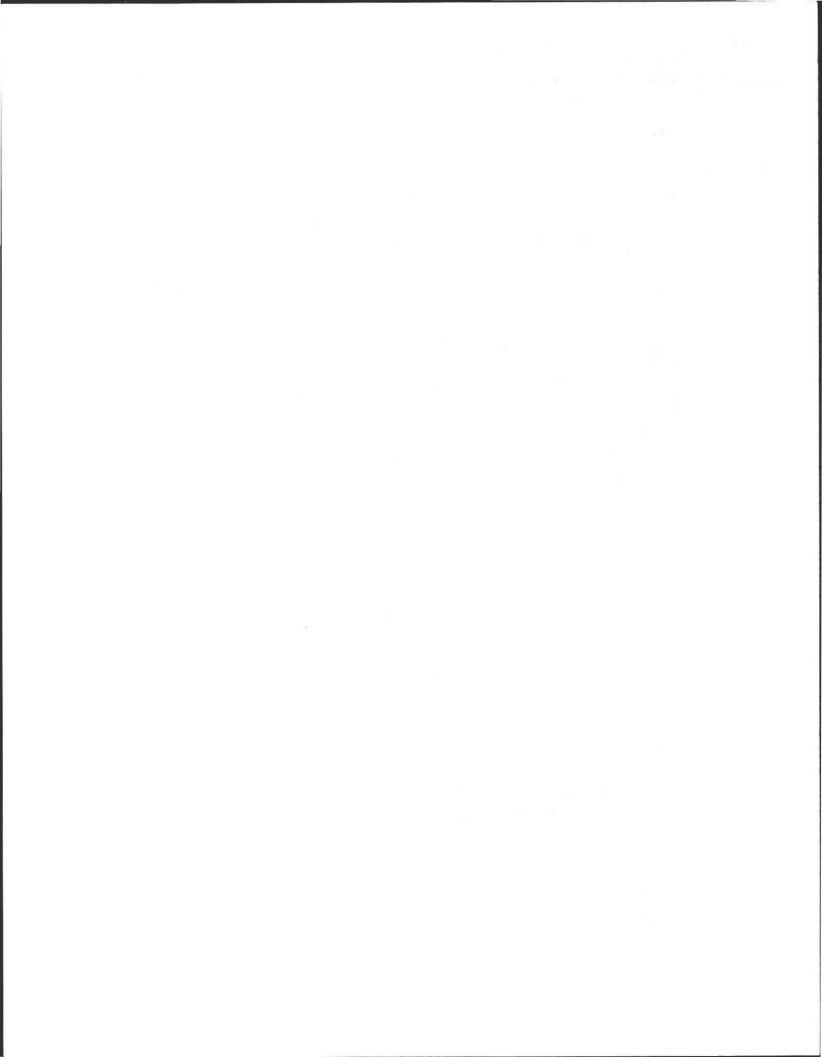
G	COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.	DATOR FORM Page 1 of 3
350 Old Enfit Belchertown, (413) 323-59:	ield Rd. •Percolation lesis and	e: <u>21157</u> sposal
	Performed By: A. Weiss Date: 2 Witnessed By: E. Smith	15/13
	Local Address or DR. William Grita Le. Local Glo Alar Hills Rel. Morris Nerre. Dr. Gestale. Amplest, and OLO22 Telephone & YOIW. Rodiance	
	New Construction Repair B Greensborg,	NL- 27403
	Office Review	
	Published Soil Survey Available: No 🗌 Yes 🖌	
	Year Published Publication Scale . Soit Map Unit	
	Drainage Class Soil Limitations	
	Surficial Geologic Report Available: No Green Yes	
	Year Published Publication Scale	
	Geologic Material (Map Unit)	11 M A
	Landform Flood Insurance Rate Map:	
	Above 500 year flood boundary No Yes,	
÷	Within 500 year flood boundary No BYes	
	Within 100 year flood boundary No Pres	
	Wetland Area: National Wetland Inventory Map (map unit)	
	Wetlands Conservancy Program Map (map unit)	
	Current Water Resource Conditions (USGS): Month	\$
	Range : Above Normal PNormal Belav Normal	
	Other References Reviewed:	

1	-
fre	(III)
D	

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DEP APPROVED FORM - 12/07/95

Heath Hatch. heath_hatch@hotmail.com Zana_hatch@hotmail.com



Lacation Address or Lot No. 66 Flat Hills R.

COMMONWEALTH OF MASSACHUSETTS

Auburst , Massachusetts

	Percolation Test*			
Date: 2./i	5/13 Time	1:00pm		
Observation Hole #	P,			
Depth of Perc	38"			
Start Pre-soak	TO,			
End Pre-soak	wet		and and a second se	
Time at 12"	tu		4 A.	
Time at 9"	pe2			
Time at 6"	+ Siere Sunge			
Time (9"-6")	()			
Rate Min./Inch	Li	P		
* Minimum of 1 pe	ercolation test must be pe	formed in both the prima	ry area AND	
reserve area.				Let Attaled
Site Passed E Site F	ailed U K S	Be LUA for use	of Shere	Test prover
Performed By: Ala	Wess RS			.*
Witnessed By:	Smith,			۶.,
Comments:				
DEP APPROVI	ED FORM - 12/07/95	* ×	÷	



FORM 11 - SOIL EVALUATOR FORM Page 2 of 3

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	Location Addre	ess or Lot No.	66	Flat	Hills			
				On site	D			
				<u>On-sile</u>	Revier	<u>1</u> ·		
							,	
	Deep Hole Nun	nber 1-Z	_ Date: 2/1	5/13	Time: 21	15 Weath	er Sin yar	
	Location (ident			Anna 10 10 1 1 1 1 1	and manage	1. Sectore 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	e 1997 - 1	~
	Land Use Resig	l. rural	Slope	(%) 2-4	Surface	Stones UTS		
	Vegetation _ c	Leciduus-				/		
	Landform	e Mared	<u>.</u>	(Gen 1			11,1 annue 11 1 a contra	÷
	Position on land	dscape (sketc	h on the back	()		·		x.
	Distances from	: .						
	Open W	later Body	od 'r feet	Draina	ge way <u></u>	0 ¹⁺ feet		
	Possible	e Wet Area	ic d 1+ teet	Proper	ty Line See	Plad feet > two	Lots aned in law	nev.
	Drinking	g Water Well	loo '+ feet	Other		harge pland)	
								_
			DEEP OB	SERVAT	TION HO	LE LOG		
	Depth from	Soil Horizon	Soil Texture	Soil Color	Soii	1 0	ither	1
	Surface (inches)		(USDA)	(Munseil)	Monting	(Soucture, Stones, B	oulders, Consistency, % raveil	
	0-10"	A	fis	10-12 312	1	Frable, M	orst	
#1	10-20"		72	1	-	-Fricht, M	ast.	
		Dw	1.12	ioyesta	24	- HIGBEI		
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					1 10	~ (V	
	- Kalloskall	M OF 2 HOLES H	ENTIRED AT EV	ERY PROPOS	D DISPOSAL O	954		H-
	Parent Material (geo					moBedrock: 110 +	· /	
	Depth to Groundwat				_ 0200	Weeping from Pit Face:	24"	*
	Estimated Seasonal I					The play a bint a rober -		
	Esquiraten Seg20091	UNDING ANSI	<u> </u>					
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	(Sal					4	1	
	DEP	DEP APPROVED	FORM - 12/07/95				(

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UMass Extension

CENTER FOR AGRICULTURE

02/27/13

Agriculture and Landscape Program Soil and Plant Nutrient Testing Laboratory

West Experiment Station 682 North Pleasant Street University of Massachusetts Amherst, MA 01003-9302 Phone: 413.545.2311 Fax: 413.545.1931 www.umass.edu/soiltest/

TEXTURAL ANALYSIS RESULTS

Customer Name: Cold Spring Environmental - A Weiss 350 Old Enfield Rd Belchertown, MA 01007

38.0

Sample ID: 113639

Customer Designation: Gerace

USDA SIZE FRAC	TIONS		PERCENT OF WI	HOLE SAMPLE PAS	SSING
Main Fractions	Size (mm)	Percent	Size (mm)	Sieve #	8
Sand Silt Clay	0.05-2.0 0.002-0.05 < 0.002	54.7 38.0 7.3			
Total	< 2.0	100.0			
Sand Fractions	Size (mm)	Percent	2.00 1.00 0.50	#10 #18 #35	92.5 89.3 83.5
Very Coarse Coarse	1.0-2.0 0.5-1.0	3.5	0.25	#60	71.4
Medium Fine Very Fine	0.25-0.5 0.10-0.25 0.05-0.10	13.1 20.3 11.6	0.10 .	#140	52.6
		54.7	0.05	#270	41.9
Silt Fractions	Size (mm)	Percent	0.02 0.005 0.002	20 um 5 um 2 um	28.0 11.7 6.8
Coarse Medium Fine	0.02-0.05 0.005-0.02 0.002-0.005	15.0 17.6 5.4			

USDA Textural Class = fine sandy loam Gravel Content = 7.5%

COMMENTS: aeweiss@charter.net

UMass Extension is an equal opportunity provider and employer, United States Department of Agriculture cooperating. Contact your local Extension office for information on disability accommodations. Contact the State Extension Director's Office if you have concerns related to discrimination, 413-545-4800 or see www.extension.umass.edu/civilrights.

FORM 11 - SOIL EVALUATOR FORM Page 3 of 3

Location Address or Lot No. 66 Plat 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 24 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? 4=3

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

Certification

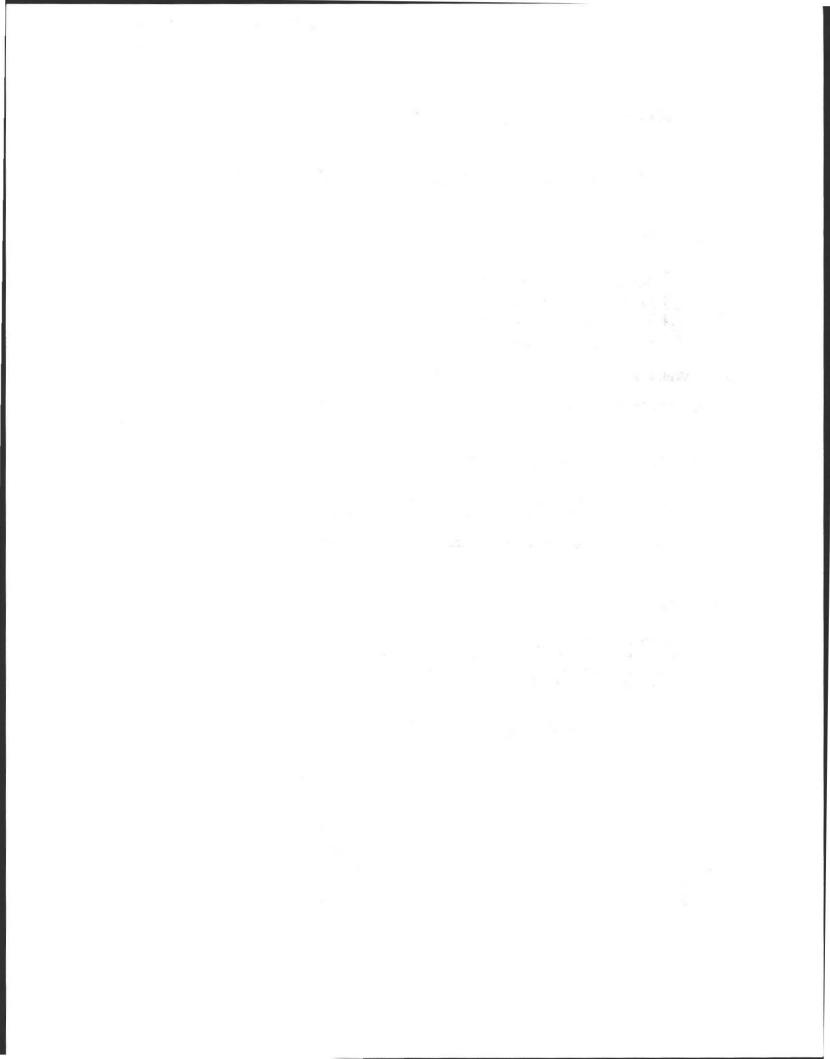
I certify that on $6/4\pi$ (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Date 3 Signature _





DEP APPROVED FORM - 12/07/95





DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with your local Board of Health to determine the form they use.

Form 9A is to be submitted to the Local Board of Health for the upgrade of a failed or nonconforming septic system with a design flow of less than 10,000 gpd, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

System upgrades that cannot be performed in accordance with 310 CMR 15.404 and 15.405, or in full compliance with the requirements of 310 CMR 15.000, require a variance pursuant to 310 CMR 15.410 through 15.415.

<u>NOTE:</u> Local upgrade approval shall not be granted for an upgrade proposal that includes the addition of a new design flow to a cesspool or privy, or the addition of a new design flow above the existing approved capacity of an on-site system constructed in accordance with either the 1978 Code or 310 CMR 15.000.

A. Facility Information

l mai	nort	ant.
ILLE	port	am.

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

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	•	Itab	
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William Gerace	
Name	ĸ
66 Flat Hills Road	
Street Address	
Amherst	MA 01002 State Zip Code
Owner Name and Address (if different fr	om above):
William Gerace	401 W. Radiance Dr
Name	Street Address
Greensboro	NC
City/Town	State
27403	413-253-3792
27403 Zip Code	413-253-3792 Telephone Number
Zip Code	
the second se	
Zip Code	
Zip Code Type of Facility (check all that apply):	Telephone Number
Zip Code Type of Facility (check all that apply):	Telephone Number
Zip Code Type of Facility (check all that apply): Residential Institutional Describe Facility:	Telephone Number
Zip Code Type of Facility (check all that apply):	Telephone Number
Zip Code Type of Facility (check all that apply): Residential Institutional Describe Facility: 4 BR Single Family Res.	Telephone Number
Zip Code Type of Facility (check all that apply): Residential Institutional Describe Facility:	Telephone Number
Zip Code Type of Facility (check all that apply): Residential Institutional Describe Facility: 4 BR Single Family Res. Type of Existing System:	Telephone Number
Zip Code Type of Facility (check all that apply): Residential Institutional Describe Facility: 4 BR Single Family Res. Type of Existing System:	Telephone Number



DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with your local Board of Health to determine the form they use.

A. Facility Information (continued	()
7. Design Flow per 310 CMR 15.203:	
Design flow of existing system:	440 gpd
Design flow of proposed upgraded system	gpa
Design flow of facility:	459 gpd
B. Proposed Upgrade of Syster	m
 Proposed upgrade is (check one): 	
Voluntary Required by order	r, letter, etc. (attach copy)
Required following inspection pursuan	t to 310 CMR 15.301: date of inspection
2. Describe the proposed upgrade to the syst	tem:
New system with new I. Field. & Tank (Old	system backing up into D. box & in ESHGW).
 B. Local Upgrade Approval is requested for (a Reduction in setback(s) – describe red 	
Reduction in SAS area of up to 25%:	SAS size, sq. ft. % reduction
Reduction in separation between the S	SAS and high groundwater:
Separation reduction	ft.
Percolation rate	min./inch
Depth to groundwater	ft.

2 m - 12 - 1

the second se



DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with your local Board of Health to determine the form they use.

B. Propo	osed Upg	rade of S	System (continued)
----------	----------	-----------	----------	------------

Relocation of water supply well (explain Relocation of water supply well (explain of water supply well (ex		Relocation	of water	supply well	(explain)
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	------------	----------	-------------	-----------

- Reduction of 12-inch separation between inlet and outlet tees and high groundwater
- Use of only one deep hole in proposed disposal area
- Use of a sieve analysis as a substitute for a perc test
- Other requirements of 310 CMR 15.000 that cannot be met describe and specify sections of the Code:

Used Class 2, Fine Sandy Loam Loading factor 0.33 GPD/SF (310 CMR 15.542)

If the proposed upgrade involves a reduction in the required separation between the bottom of the soil absorption system and the high groundwater elevation, an Approved Soil Evaluator must determine the high groundwater elevation pursuant to 310 CMR 15.405(1)(h)(1). The soil evaluator must be a member or agent of the local approving authority.

High groundwater evaluation determined by:

Evaluator's Name (type or print)

Signature

Date of evaluation

C. Explanation

Explain why full compliance, as defined in 310 CMR 15.404(1), is not feasible. (Each section must be completed)

1. An upgraded system in full compliance with 310 CMR 15.000 is not feasible:

Due to recent winter and saturation.

 An alternative system approved pursuant to 310 CMR 15.283 to 15.288 is not feasible: Would not change request.

ALLENS I STATE



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Explanation (continued)
A shared system is not feasible:
No applicable
Connection to a public sewer is not feasible:
Not available
The Application for Local Upgrade Approval must be accompanied by all of the following (check the appropriate boxes):
Application for Disposal System Construction Permit
Complete plans and specifications
Site evaluation forms
A list of abutters affected by reduced setbacks to private water supply wells or property lines. Provide proof that affected abutters have been notified pursuant to 310 CMR 15.405(2).
Other (List):

D. Certification

"I, the facility owner, certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for deliberate violations."

Facility Owner's Signature	Date	
William Gerace		
Print Name		
Alan Weiss, RS	03.05.2013	
Name of Preparer	Date	
350 Old Enfield Road,	Belchertown	
Preparer's address	City/Town	-
MA 01007	413.323.5957	
State/ZIP Code	Telephone	

n dataat



DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with your local Board of Health to determine the form they use.

C.	Explanation (continued)
3	A shared system is not feasible:
	No applicable
4.	Connection to a public sewer is not feasible
	Not available
5	The Application for Local Upgrade Approval must be accompanied by all of the following (check the appropriate boxes):
	Application for Disposal System Construction Permit
	Complete plans and specifications
	Site evaluation forms
	A list of abutters affected by reduced setbacks to private water supply wells or property lines. Provide proof that affected abutters have been notified pursuant to 310 CMR 15.405(2).

Other (List):

D. Certification

"I, the facility owner, certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for deliberate violations."

Genere Willia J Facility Owner's Signature

William Gerace Print Name Alan Weiss, RS Name of Preparer 350 Old Enfield Road, Preparer's address MA 01007 State/ZIP Code

3/9/13 Date

03 05.2013 Date Belchertown City/Town 413.323.5957 Telephone

t5form9a-2sieve • rev. 7/06

Application for Local Upgrade Approval* Page 4 of 4

PROJECT NO.: 13-7		-	1]
CITY/TOWN: AMHERST	-				
APPLICANT: W. GERACE		1.00			
ADDRESS: Cole FLAT HILLS PARCEL 1.	D. #	9A-3	7 +	15 91	-34
DESIGN FLOW: 459 gpd					5/
REVIEWED BY: Forward Smith	DATE:	3/14/2	112		
Approved: Couch Suitta	N/A	OK	NO	LV.	A V
GENERAL		UK .		-	
Legal boundaries denoted [310 CMR 15.220(4)(a)]	Contraction Town which				
Street, Lot, tax parcel number and lot number noted on plan [310 CMR 15.220(4)(u)]		\checkmark			
Locus Provided [310 CMR 15.2204(t)]					-
Plan proper scale? (1"=40' for plot plans, 1"= 20' or fewer for components) [310 CMR 15.220(4)]					_
Easements shown [310 CMR 15.220(4)(b)]					
System located totally on lot served [310 CMR 15.405(1)(a) for upgrades]- if not, a variance is required [310 CMR 15.412 (4)]		20		5 1 X	EMAIL - 3/ to Acan
Location of impervious surfaces (driveways, parking areas etc.) [310 CMR 15.220(4)(d)]					-
Location all buildings existing and proposed 310 CMR 15.220 $(4)(c)$]					
Location and dimensions of system components and reserve areas. [310 CMR 15.220(4)(e)]		REPAIR	NO RESE NEC	ess mey	
System Calculations [310 CMR 15.220(4)(f)]					
daily flow					
septic tank capacity (required and provided)		6 1			-
soil absorption system (required and provided) whether system designed for garbage grinder		END CO	AINER	SAPULA	TEA
North arrow [310 CMR 15.220(4)(g)]		140 64	NVEL.	pirroun	IED
Existing and proposed contours [310 CMR 15.220(4)(g)]		17			~
Location and log of deep observation holes (existing grade el. on each test) [310 CMR 15.220(4)(h)]	ų.				
Names of soil evaluator and BOH representative [310 CMR 15.220(4)(h) and (i)]			/ .		
Location and date of percolation tests (performed at proper elevation?) [310 CMR 15.220(4)(i)]					
Percolation test results match loading rate? [310 CMR 15.242] Certification statement by Soil Evaluator [310 CMR 15.220(4)	~	?			EMAIL TE ALANS 3/
j)] Observed and Adjusted groundwater (method for adjustment given or indicated) [310 CMR 15.103(3) and 310 CMR (5.220(4)(n)]					

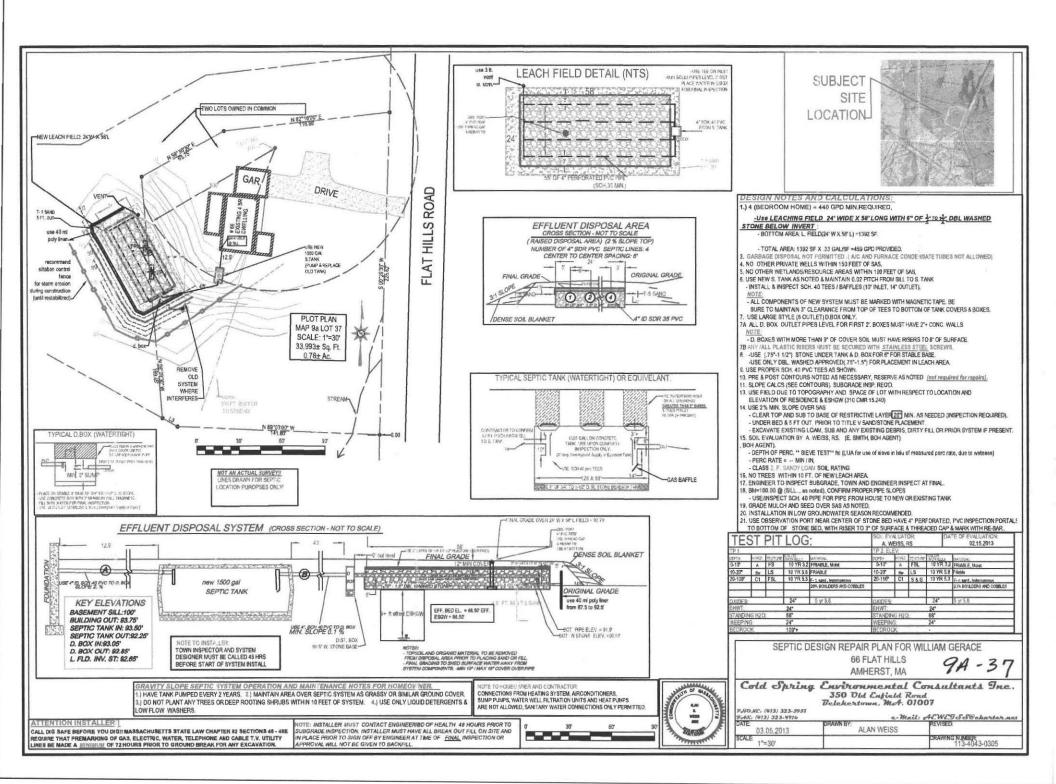
GENERAL cont.	N/A	OK	NO	
Location of every water supply, public and private, [310 CMR 15.220(4)(k)]				
within 400 feet of the proposed system location in the case of surface water supplies and gravel packed public water supply wells				
within 250 feet of the proposed system location in the case of tubular public water supply wells	1	4		
within 150 feet of the proposed system location in the case of private water supply wells		1		
Location of all surface waters and wetlands located up to 100 ft. beyond setbacks listed in 310 CMR 15.211 and any catch basins located within 50 ft. [310 CMR 15.220(4)(l)]		1		
Water lines and other subsurface utilities located [310 CMR 15.220(4)(m)] (if water line cross see 310 CMR 15.211(1)[1])			-	
Profile of system showing invert elevations of all system components and the bottom of the SAS [310 CMR15.220(4) (0)]		1		-
Stamp of designer [310 CMR 15.220(1) and 310 CMR 15.220 (2)]				
Stamp of Registered Land Surveyor (required if construction activities within 5 ft. of lot line) [310 CMR 15.220(3)]	\checkmark	د	-	
Test Holes adequate (two in each of the primary and reserve unless trenches as permitted in 310 CMR 15.102(2) or as approved for an upgrade under LUA at 310 CMR 15.405(1) (k)]		(
Test hole adequate to demonstrate four feet of suitable material? [310 CMR 15.103(4)]		V		
Test Holes adequate to confirm adequate groundwater separation? [310 CMR 15.103(3)]	.8 5			
Benchmark within 50-75' of system [310 CMR 15.220(4)(q)]		\checkmark		
Materials specifications noted? [various sections of 310 CMR 15.000]	×	. /		
System components not > 36" deep (unless Local Upgrade Approval or LUA requested) [310 CMR 15.405(1(b)]				
All system components marked with magnetic tape 15.221 (12)	ż	\checkmark		
SEPTIC TANK	N/A	OK	No	
Size OK? [310 CMR 15.223(1)]				
nlet tee located ten inches below flow line [310 CMR 15.227 6)]		Ĵ,		ę
Dutlet tee 14" or 14" + 5" per foot for increase ft depth [310 CMR 15.227(6)]	1			
Outlet tee with gas baffle or approved filter [310 CMR 15.227 4)]	8	\checkmark		
Note regarding installation on stable compacted base [310 CMR 15.228(1)]				

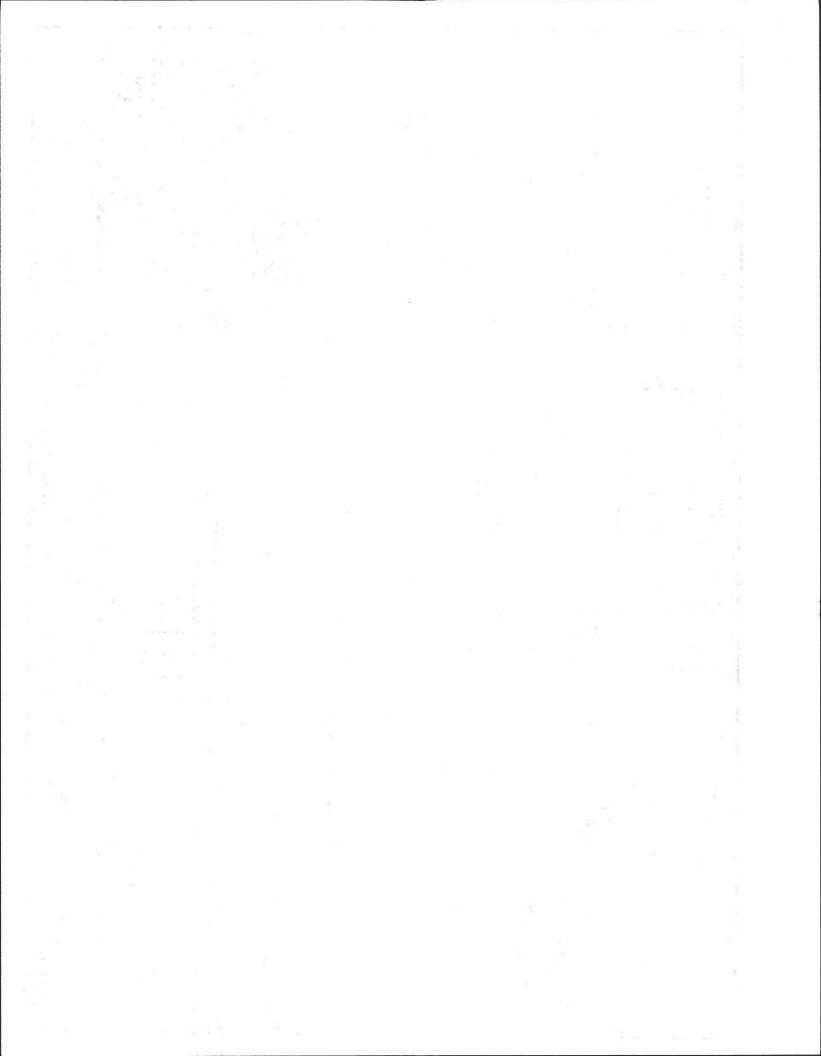
Separation between inlet and outlet tees (no less than liquid depth) [310 CMR 15.227(2)]	· •	1			
Inlet/Outlet elevations at least 12" above high groundwater (except as described 310 CMR 15.227(5)) or permitted for apgrades under LUA [310 CMR 15.405(1)(k)]	-	V		k	
Minimum cover 9" (Tanks buried more than 9" must have isers on all openings and on the d-box) [310 CMR 15.2228(1) and 310 CMR 15.232(3)(f)]	-				
Three access covers (inlet and outlet must be 20" or greater) - niddle access at least 8" (by 7/07) [310 CMR 15.228(2)]		\checkmark			
Access to within 6 " of grade - one port for systems<1000gpd, two for systems >1000 gpd [310 CMR [5.228(2)]					
All at-grade covers secured to unauthorized access? [310 CMR 15.228(2)]		\checkmark			
> 10 ft from building foundation [310 CMR 15.211(1)]		\checkmark			
Buoyancy calculation Required/Done [310 CMR 15.221(8)]	1				
H-20 Where appropriate? [310 CMR 15.226(3)]	1			-	
Setbacks from resources [310 CMR 15.211]					
Multi-Compartment Tanks					
Required when other than single-family dwelling or low>1000 gpd [310 CMR 15.223(1)(b)]	. 1				
First compartment 200% daily flow; Second compartment 200% daily flow [310 CMR 15.224(2) and (3)]	1				
U" pipe through or over baffle, outlet of each compartment with gas baffle or approved filter [310 CMR 15.224(4)]	\checkmark				
BUILDING SEWER AND OTHER PIPING	N/A	OK	No		
Located at least ten feet from any water line? [310 CMR		/	-		
5.222(2)]					
5.222(2)] Disposal piping at least 18" below water line (when water and ewer cross, see 310 CMR 15.211(1)[1])	1				-
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5.222(2)] Disposal piping at least 18" below water line (when water and ewer cross, see 310 CMR 15.211(1)[1]) Cleanouts required/provided ? [310 CMR 15.222(8)] Thrust blocks specified in force mains? 310 CMR 15.221(6) c)]		-			
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Stable compacted base [310 CMR 15.221(2) and 310 CMR 5.232(2)(a)]		\checkmark			
Splash plate or baffle tee required on inlet/ provided? (when pressure sewer to d-box or steep pitch of gravity sewer) [310 CMR 15.323(3)(a)]	1				
Riser if deeper than 9" [310 CMR 15.232(3)(f)]	-	~		- V	
nside minimum dimension 12" [310 CMR 15.232(2)(b)]		~		-	
/inimum sump 6" [310 CMR15.232(3)(e)]					
Vatertight cover if <2000gpd); waterproof manhole if 2000gpd [310 CMR 15.232(3)(d)]		\checkmark			
UMP CHAMBERS					
Capacity (emergency storage above working=design flow)? 310 CMR 231(2)]	1				
Proper setbacks [310 CMR 15.211 (same as septic tanks)]	1				
Vatertight 20-in minium access manhole at least 20" MUST BE TO GRADE [310 CMR 15.231(5)]			- ¹		and the later form
ervice components accessible (not too deep with piping, isconnects accessible)				÷	
Marm floats - alarm on circuit separate from pumps pecified?					
Exceeds two units must have two pumps operating in lead-lag node. [310 CMR 15.231(6) and (8)]					Concernance of the local division of the loc
table Compacted Base [310 CMR 15.221(2)]					
Buoyancy calculations needed ? Provided? [310 CMR 15.221 8)]		÷			
Dosing chamber capacity (required and provided), pump urves and specifications, number of dosing cycles and depth er cycle? [310 CMR 15.220(4)(r)]	4				
ffluent tee filter provided? [310 CMR 15.231(10)]					
OIL ABSORPTION SYSTEMS (SAS) GENERAL	N/Å	OK,	No		
Calculations correct?			1 N N		
feet of naturally occurring material demonstrated? [310 CMR 15.240(1)]		1			
Lequired separation to groundwater? [310 CMR 15.212)]		\checkmark			
ggregate specified as double washed [310 CMR 15.247(2)]		\checkmark			
ystem Venting required/provided? (system under driveway r >36" deep) [310 CMR 15.241]		\checkmark			the state of the s
nspection ports specified and within 3"final grade? [310 MR 15.240(13)]		\checkmark			Contraction of the local division of the loc
reakout requirements met? (No violation of breakout levation within 15 ft of SAS unless barrier) [310 CMR 5.211(1)[4] and Guidance Document]		\checkmark			the local second second
ALLERIES, PITS, CHAMBERS 310 CMR 15.253					
Chambers and Gal. in trench configuration supplied with inlet very 20 ft. [310 CMR 15.253(6)]	\checkmark	* * *		-	
ach structure with one inspection manhole (if >2000 gpd nust be to grade) [310 CMR 15.253(2)]			* •		

Aggregate 1' minimum- 4' maximum. [310 CMR 15.253(1) (b)]	1				
2' sidewall credit maximum [310 CMR 15.253(1)(a)]			_		
In bed configuration, inlet every 40 sq. ft. [310 CMR 15.253 (6)]	1		• 3		-
TRENCHES 310 CMR 15.251	the there go	Gland A			1
Width 2' minimum 3' maximum [310 CMR 15.251(1)(b)]	\checkmark		and a second residence of the second s		-
100 feet - maximum length [310 CMR 15.251(1)(a)]				1	-
Minimum separation 2x effective depth or width whichever greater (3x if reserve between trenches) [310 CMR 251(1)(d)]					
Situated along contours [310 CMR 15.251(2)] Breakout OK? [310 CMR 15.211(1)[4] and Guidance Document]				•	
					-
BED SAS (Maximum size of bed or field 5000 gpd)		-/-	Nazio de la desta		-
minimum 2 distribution lines [310 CMR 15.252(2)(a)] Maximum separation between lines 6' [310 CM R15.252(2) (d)]		1	54		-
Maximum separation between lines and outside of bed 4' [310 CMR 15.252(2)(e)]		\checkmark			
Aggregate depth below discharge pipes 6" minimum, 12" maximum. [310 CMR 15.252(2)(g)]		~			
Separation between beds 10' minimum. [310 CMR 15.252(2) (f)]	\sim	/			
		V			
Bottom area used in calculations only [310 CMR 15.252(2)(i)]	-	•			
		·	-		_
	N/A	OK	No		-
Bottom area used in calculations only [310 CMR 15.252(2)(i)] DID THE PLAN INVOLVE Pressure Dosed System ? Provided pump and piping calculations as required [310 CMR 15.220(4)(r)]	N/A	OK	No		-
DID THE PLAN INVOLVE Pressure Dosed System ? Provided pump and piping		OK	No		
DID THE PLAN INVOLVE Pressure Dosed System ? Provided pump and piping calculations as required [310 CMR 15.220(4)(r)] Groundwater Separation Per 310 CMR 15.240(12) does the groundwater separation take into account mounding. Pressure dosing required on all systems >2000gpd or alternative systems under remedial approval [310 CMR		OK	No		-
DID THE PLAN INVOLVE Pressure Dosed System ? Provided pump and piping calculations as required [310 CMR 15.220(4)(r)] Groundwater Separation Per 310 CMR 15.240(12) does the groundwater separation take into account mounding. Pressure dosing required on all systems >2000gpd or alternative systems under remedial approval [310 CMR 15.254(2) and I/A Remedial Use Approvals] If used in gravelless system - make sure jet is directed as not		OK	No		
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DID THE PLAN INVOLVE Pressure Dosed System ? Provided pump and piping calculations as required [310 CMR 15.220(4)(t)] Groundwater Separation Per 310 CMR 15.240(12) does the groundwater separation take into account mounding. Pressure dosing required on all systems >2000gpd or alternative systems under remedial approval [310 CMR 15.254(2) and I/A Remedial Use Approvals] If used in gravelless system - make sure jet is directed as not to scour soil interface [Guidance Document] Inspections once per year (systems< 2000 gpd) or quarterly (>2000gpd) good to note on plan [310 CMR 15.254(2)(d)] Construction in fill - Did the plan specify that the fill shall meet the specification of 310 CMR 15.255(3)? Impervious barrier and/or retaining wall ? [Guidance Document] Impervious barrier installation must be supervised by designer [310 CMR 15.255(2)(b)] Retaining wall must be designed by Registered Professional Engineer [310 CMR 15.255(2)(a)]			No.		

the second s		19.5			
Gravelless System [I/A Approval Letters]					1.1.2.1.5.
Check DEP Approval letters for credits and design conditions				(T	
If used with pressure dosing do not allow pressure discharge to scour soil interface	\checkmark	***		2.	
Alternative Septic System [I/A Approval Letters]					
Was DEP Approval Letter provided and/or have you reviewed the letter for conditions?		40			
Is the technology being properly applied and does it meet all DEP Approval Conditions?					
Is there a note on the plan regarding the requirement for perpetual maintenance agreement?			2		
Any alarms involved on separate circuits					
Did the applicant submit an operation and maintenance manual?		÷.			
Has applicant submitted a copy of a maintenance agreement?					
Variances			的人的复数社	and the second second second	A
Are the variances listed on the plan ? [310 CMR 15.220 (4) (p)]]				
RLS Stamp necessary on plan if a component is within five feet of property line [310 CMR 15.412(4)]					
New construction or increased flow proposed - [Refer to 310 CMR 15.414]	1	-			
Nitrogen Sensitive Areas	N/A	OK	No		
Is the system in a Designated Nitrogen Sensitive Area (Zone II for a public supply well)? [310 CMR 15.214, 310 CMR 15.215 and 310 CMR 15.216 - also refer to Policy regarding upgrades of such existing systems]	~				
Is the system proposed on the same lot as served by private well ? [310 CMR 15.214(2)]	1				
Are the nitrogen loads proposed in compliance? [310 CMR 15.216(1)]	V				
Miscellaneous					
Pumping to septic tank? [310 CMR 15.229]	~				
Shared System [310 CMR 15.290]	\checkmark				





6	COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.		F	ORM 11 - SOIL E'	VALUATOR FORM
A	ALAN E. WEISS, M.S., R.S., L.S.P. Licensed Site Professional Registered Sanitarian				Page 1 of 3
350 Old Enfie Belchertown, 1 (413) 323-595	Hydrogeologist President Id Rd. 7 & 323-4916 (FAX) Hydrogeologist •Wetland Consults •Soil and Water Testing •21E Site Investigations •Percolation Tests and •Septic Designs •Title 5 Inspections	×			Date: 2/15/13
	Co	ommonwealth	of Massa	achusetts	
	Soil Switz Liri A	mherst.	, Mass	sachusetts	
	Soil Suitability A	Issessment	<u>for On</u>	-site Sewage	Disposal
	Performed By: A. Weis of Witnessed By: E. Smith	5			3/15/13
	LOCALOR Address or Dr. William Gra		1		
	ble flat H	lills Rd.	Owner's Name. Address, and	Dinberale.	
	Amher	LIK Rd.	Telephone #	401 W. Rodia	ue. Dr.
	New Construction 🗌 Repair [Office Review			Greensburg	, NC. 27403
	Published Soil Survey Available: No Year Published	100 2	4		
	Designer Cl	Publication Scale Soil Limitations		Soil Map Unit	
	Surficial Geologic Report Available:]		
	Year Published	Publication Scale			
	Geologic Material (Map Unit) Landform				
	Flood Insurance Rate Map:				
	Above 500 year flood boundary No	Dyes M			
	Within 500 year flood boundary No				1
	Within 100 year flood boundary No				
	Wetland Area:				
	National Wetland Inventory Map (ma	p unit)		-	
	Wetlands Conservancy Program Map	(map unit)			
	Current Water Resource Conditions (1	ISGS): Month			
	Range : Above Normal Normal	Below Normal			*
	Other References Reviewed:	NOTTINE			

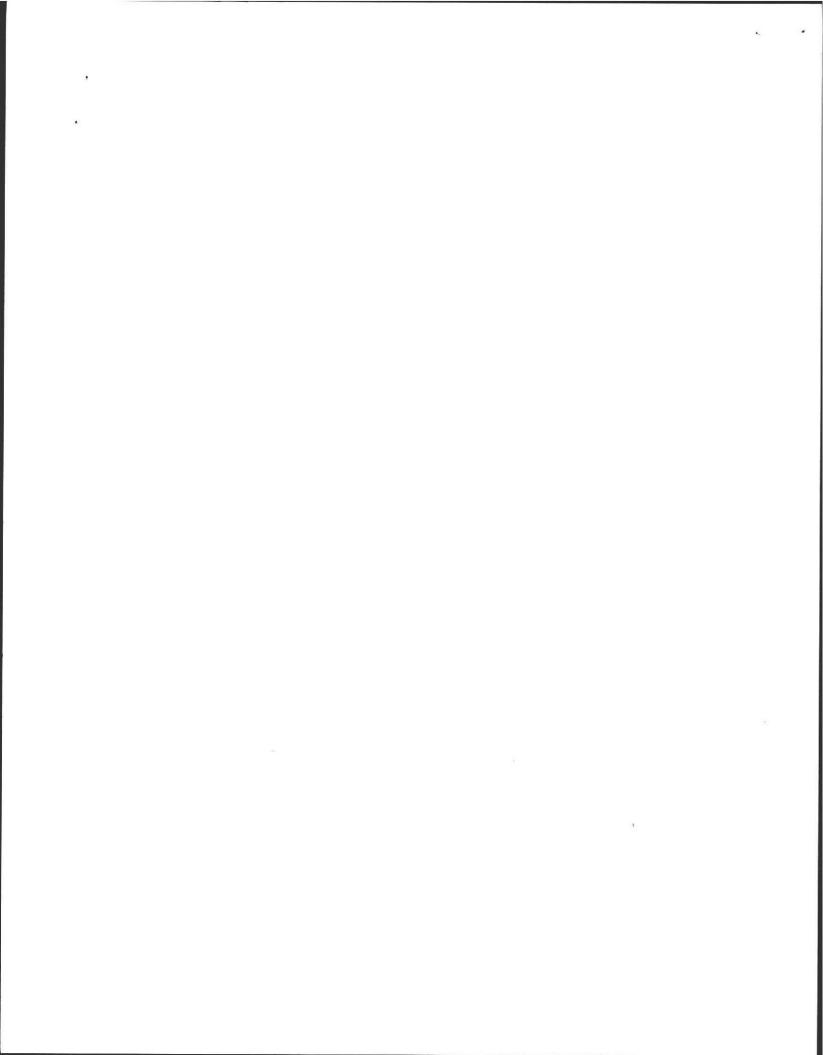
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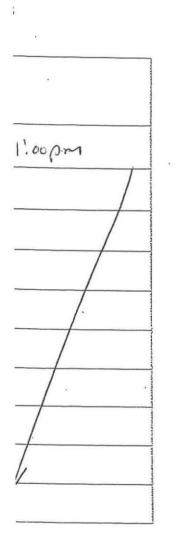
120 Sec.





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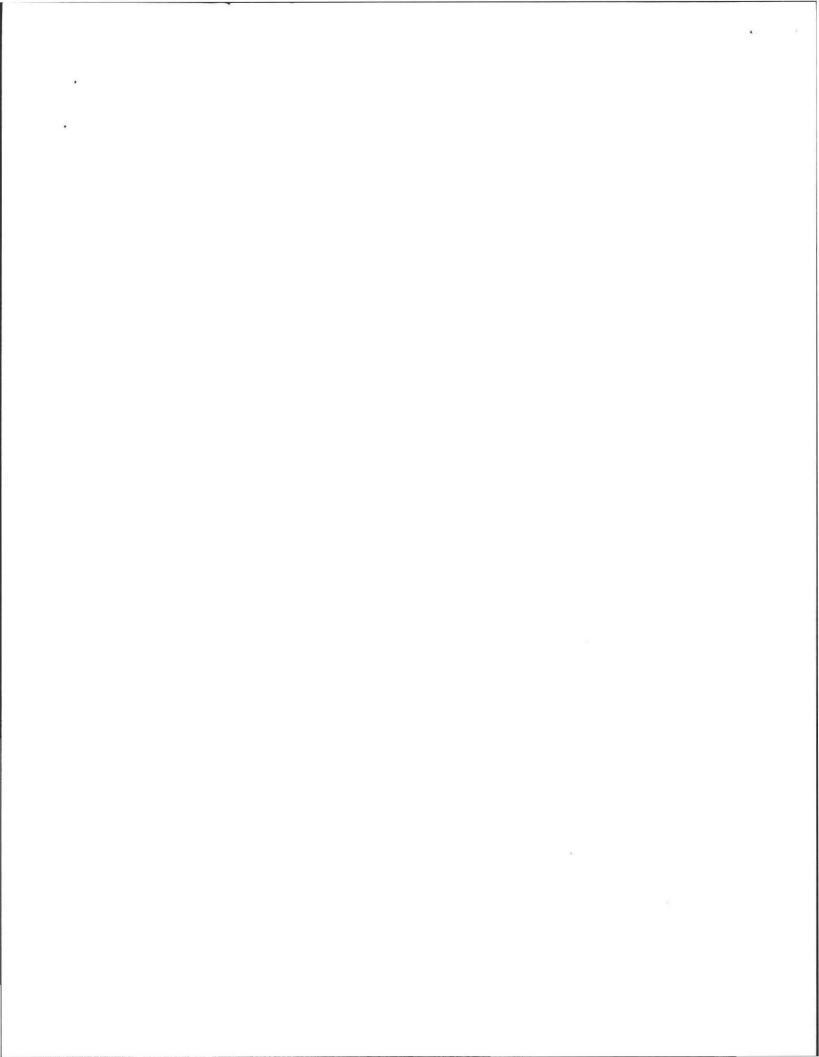
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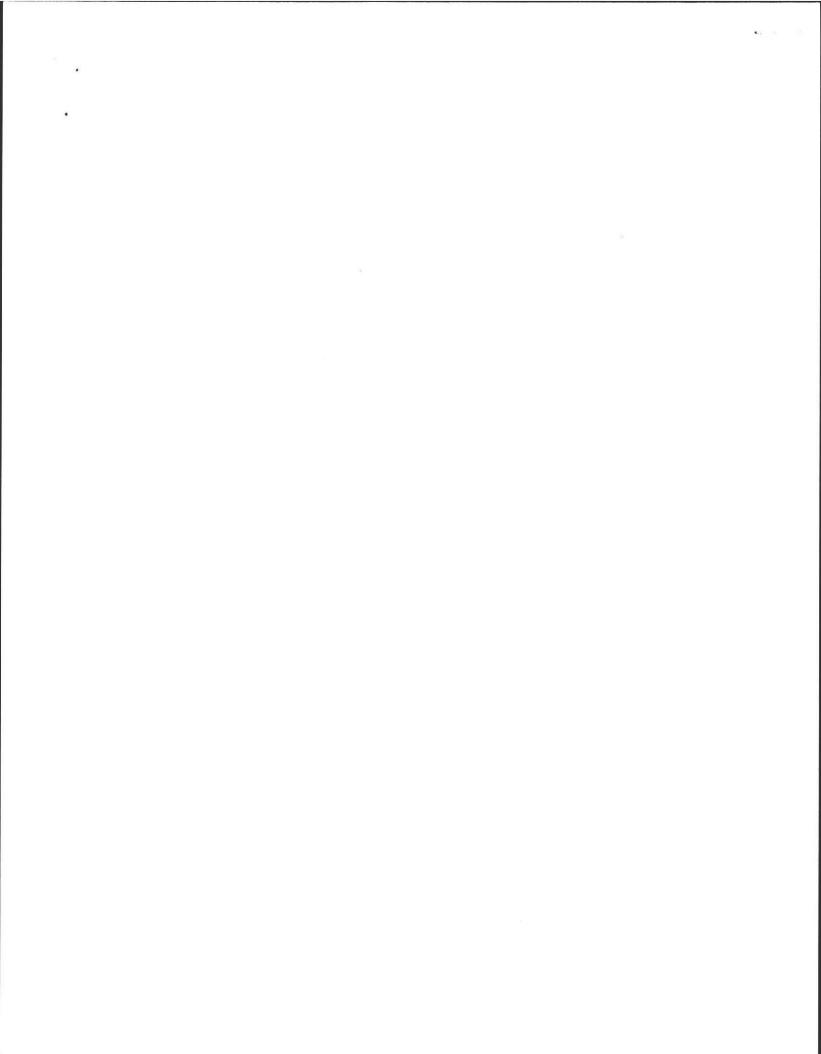
id in both the primary area AND

LUA For use of sieve test Attached.

= = =



	FORM 11 - SOIL EVALUATOR FORM Page 2 of 3	
Iress or Lot No66	o Flat Hills	
	On-site Review	
illy on site plan)	2/15/13	
n: Nater Body <u>Iod 'F</u> feet le Wet Area <u>Iod 'F</u> feet g Water Well <u>Ipo 'F</u> fee	Drainage way feet Property Line See Alwier > two Lots and wlama	<u> </u>
DEEP OI	BSERVATION HOLE LOG	
Soil Horizon Soil Texture (USDA)	e Soil Color Soil Cother (Munsell) Mortling (Structure, Stones, Boulders, Consistency, % Gravel)	
A FS Bw LS C, LS	1042312 Frable, Morst 10425/6 24" - Fricht, Marst. Delat/3 Eyell & Fricht, Marst. Cobbes.	
A Fs	1042312	
	104125/6 Sure 24" 2.544/3 24" 4/3 54125/6 It (
A OF 2 HOLES REQUIRED AT EV pgic) <u>Grean</u> Outisash <u>T:</u> Standing Water in the Hole: ligh Ground Water: <u>24</u>	:	
DEP APPROVED FORM - 12/07/95	5	



UMass Extension

CENTER FOR AGRICULTURE

02/27/13

Agriculture and Landscape Program Soil and Plant Nutrient Testing Laboratory

West Experiment Station 682 North Pleasant Street University of Massachusetts Amherst, MA 01003-9302 Phone: 413.545.2311 Fax: 413.545.1931 www.umass.edu/soiltest/

TEXTURAL ANALYSIS RESULTS

Customer Name: Cold Spring Environmental - A Weiss 350 Old Enfield Rd Belchertown, MA 01007

Sample ID: 113639

Customer Designation: Gerace

USDA SIZE FRAC	TIONS		PERCENT OF W	HOLE SAMPLE PAS	SING
Main Fractions	Size (mm)	Percent	Size (mm)	Sieve #	olo
Sand	0.05-2.0	54.7			
Silt	0.002-0.05	38.0			
Clay	< 0.002	7.3			
Total	< 2.0	100.0			
			2.00	#10	92.5
Sand Fractions	Size (mm)	Percent	1.00	#18	89.3
			0.50	#35	83.5
Very Coarse	1.0-2.0	3.5		10200 10 20 March 10	
Coarse	0.5-1.0	6.2	0.25	#60	71.4
Medium	0.25-0.5	13.1			
Fine	0.10-0.25	20.3	0.10	#140	52.6
Very Fine	0.05-0.10	11.6			
			0.05	#270	41.9
		54.7			
			0.02	20 um	28.0
			0.005	5 um	11.7
Silt Fractions	Size (mm)	Percent	0.002	2 um	6.8
Coarse	0.02-0.05	15.0			
Medium	0.005-0.02	17.6			
Fine	0.002-0.005	5.4			
	0.000 0.000				

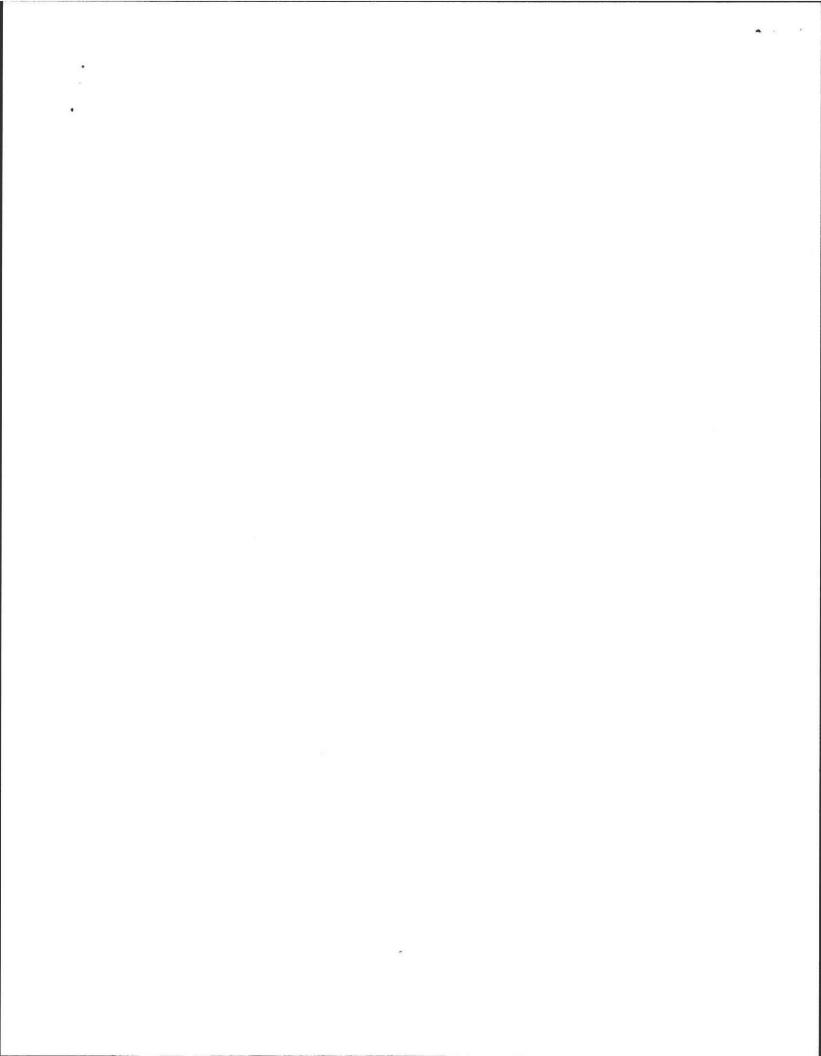
38.0

USDA Textural Class = fine sandy loam

Gravel Content = 7.5%

COMMENTS: aeweiss@charter.net

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Location Address or Lot No. 66 Plat Hills Rd

Determination for Seasonal High Water Table

Method Used:

Depth observed standing in observation hole _____ inches

Depth to soil mottles 24^{4} 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

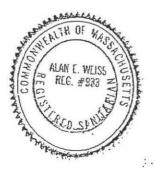
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?

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

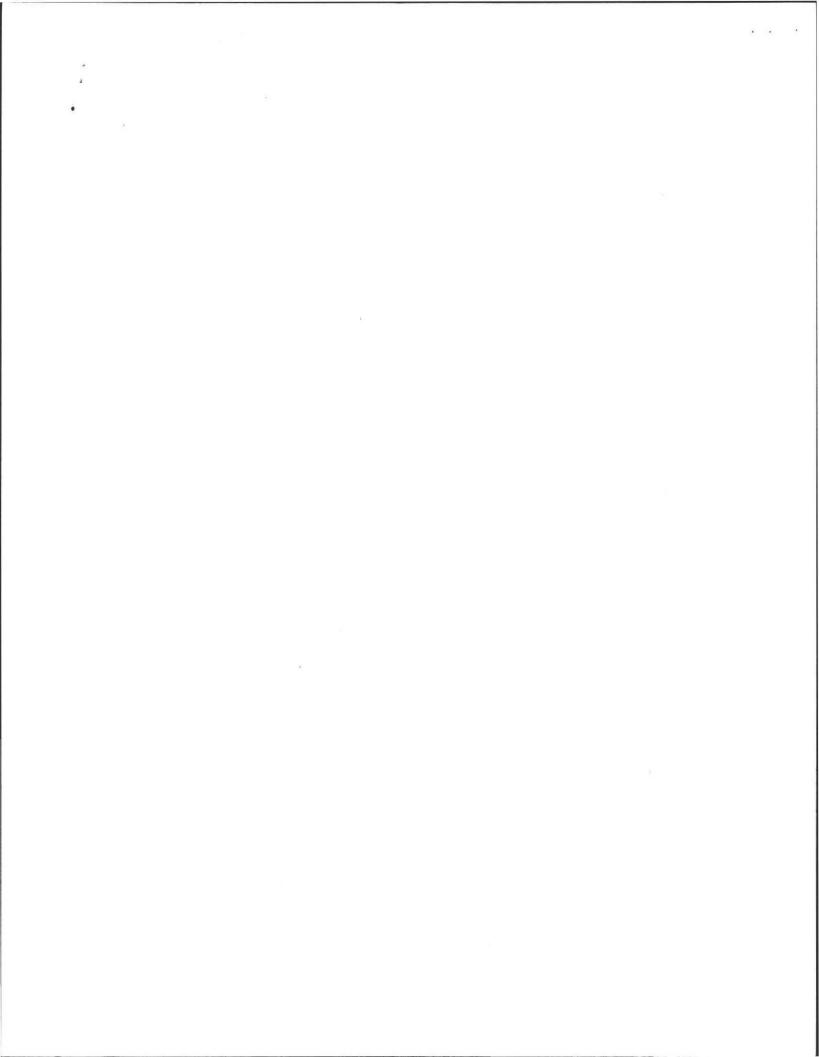
Certification

I certify that on $6/4\pi$ (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 3

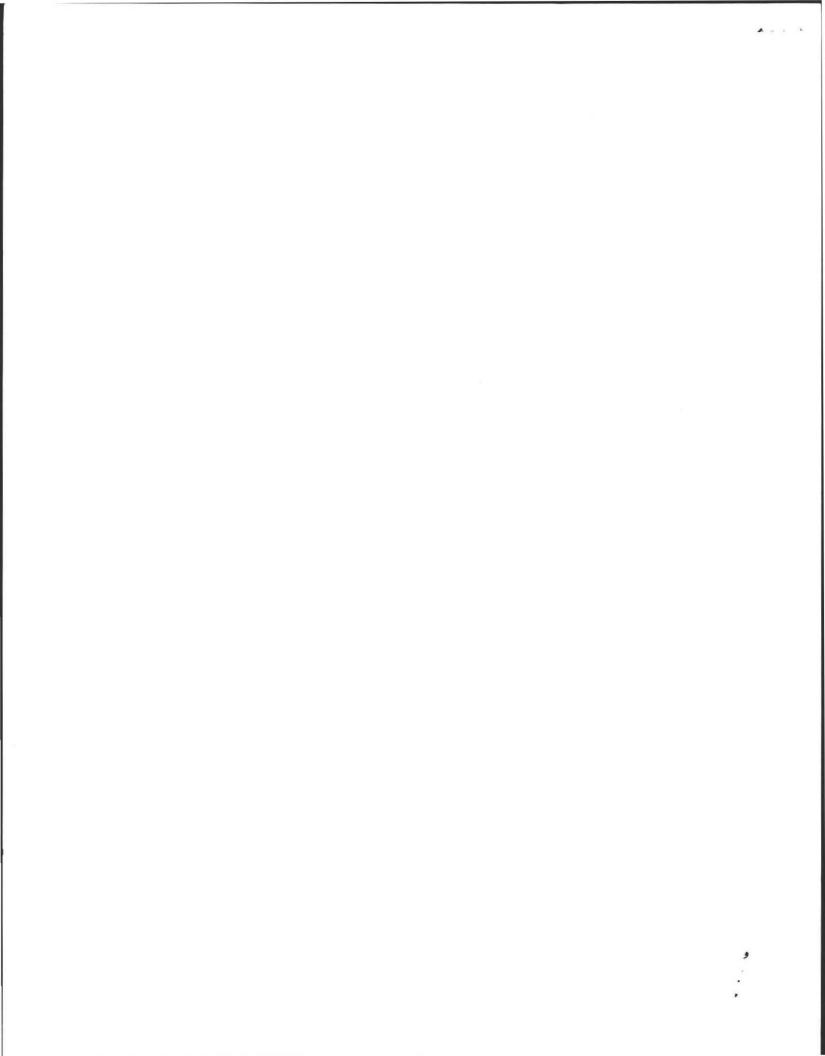






SON N 82°-41-30"E-132,41 P 64.03 NS \$0.38 40 IP V82-41-30E N 59°-30 116.74 CP 65.75 SQUARE FEET IP. RES PARCEL B FRANE HOUSE PAGE 388 PAGE 361 0 0 mb 0 0 117 0 m 0 N 0 0 00-N AREA a VIV 5 33993 5101 SQUAREFEET NIO BOOK 1627 PAGE 253 N 0 LAT 17/200 36"M 4 141.80 IP LOCATED ON "MENESTERLY SIDE OF

AMHERST MASSACHUSETTS BELONGING LUMBER CORPORATION, THIS PLAN SHOWS ISION OF THIS PROPERTY EFERRED TO MAGNETIC NORTH AS OF



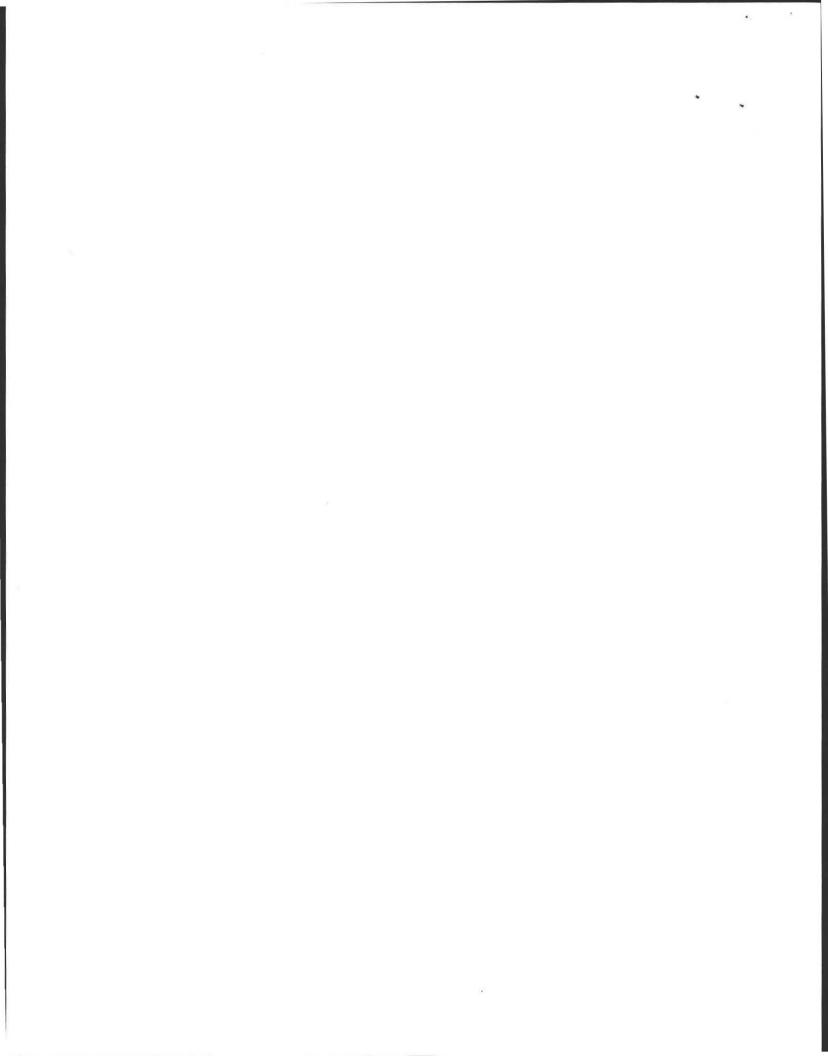
CO.	COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.	F	'ORM 11 - SOIL E	VALUATOR FORM
350 Old Enfield Belchertown, N (413) 323-5957	A 01007 *Septic Designs & 323-4916 (FAX) *Title 5 Inspections	onwealth of Mass	cachucotta	Page 1 of 3 Date: <u>2/15/3</u>
	Performed By: A. Weiss Witnessed By: E. Smith	· · · · · ·	Date	2 15/13
	Local Address or Dr. William Grace Local Glo Flat Hills Amhebi, M New Construction Repair	Address, and	Withou Dry Gerale. 401 W. Rodie Greensburg	nce. DR. N.C. 27403
	Published Soil Survey Available: No Year Published Publi	Yes cation Scale mitations	Soil Map Uni	
.*	Surficial Geologic Report Available: No Year Published Pub Geologic Material (Map Unit) Landform			* * - 14 ×
,	Flood Insurance Rate Map: Above 500 year flood boundary No Ye Within 500 year flood boundary No			
	Within 100 year flood boundary No Hye Wetland Area: National Wetland Inventory Map (map unit Wetlands Conservancy Program Map (map	s 🗌		1
	Current Water Resource Conditions (USGS) Range : Above Normal Normal Be Other References Reviewed:	: Month kw Normal 🗌		*

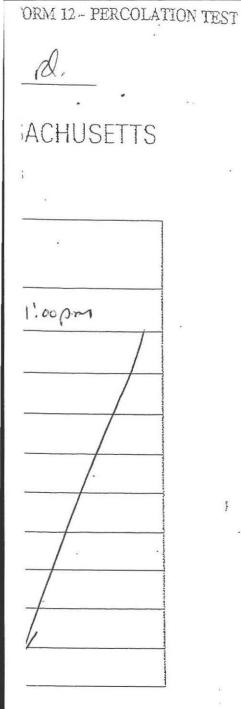
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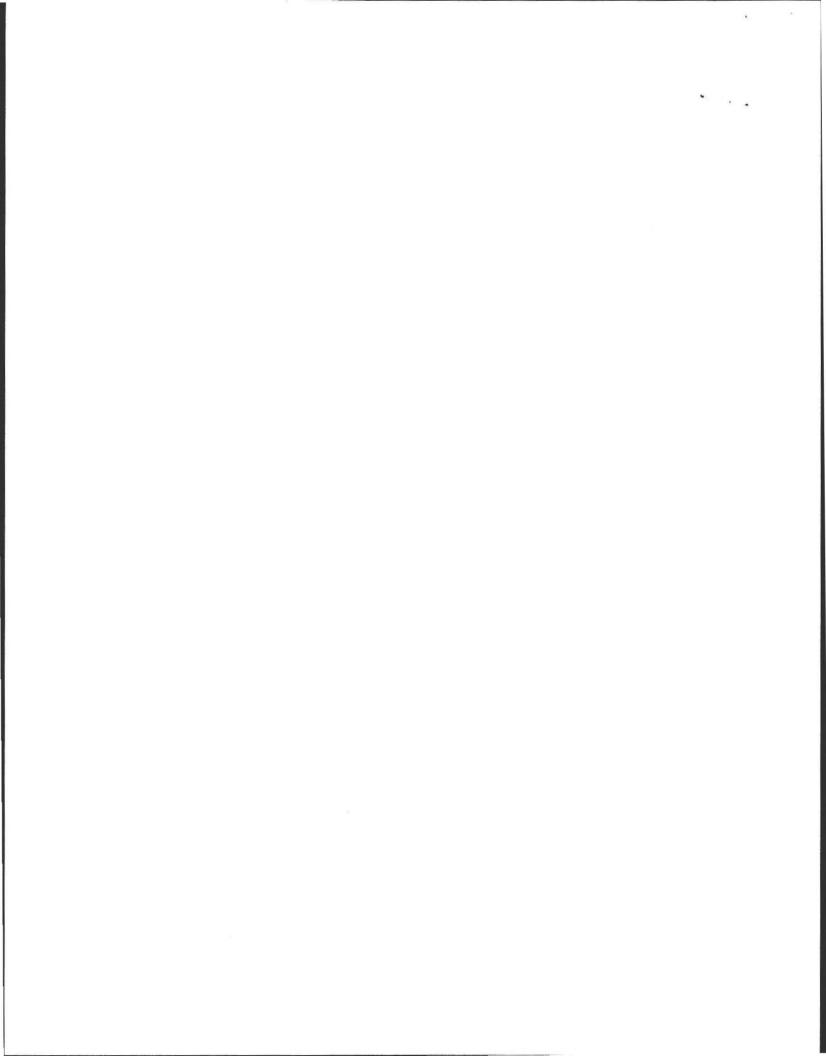
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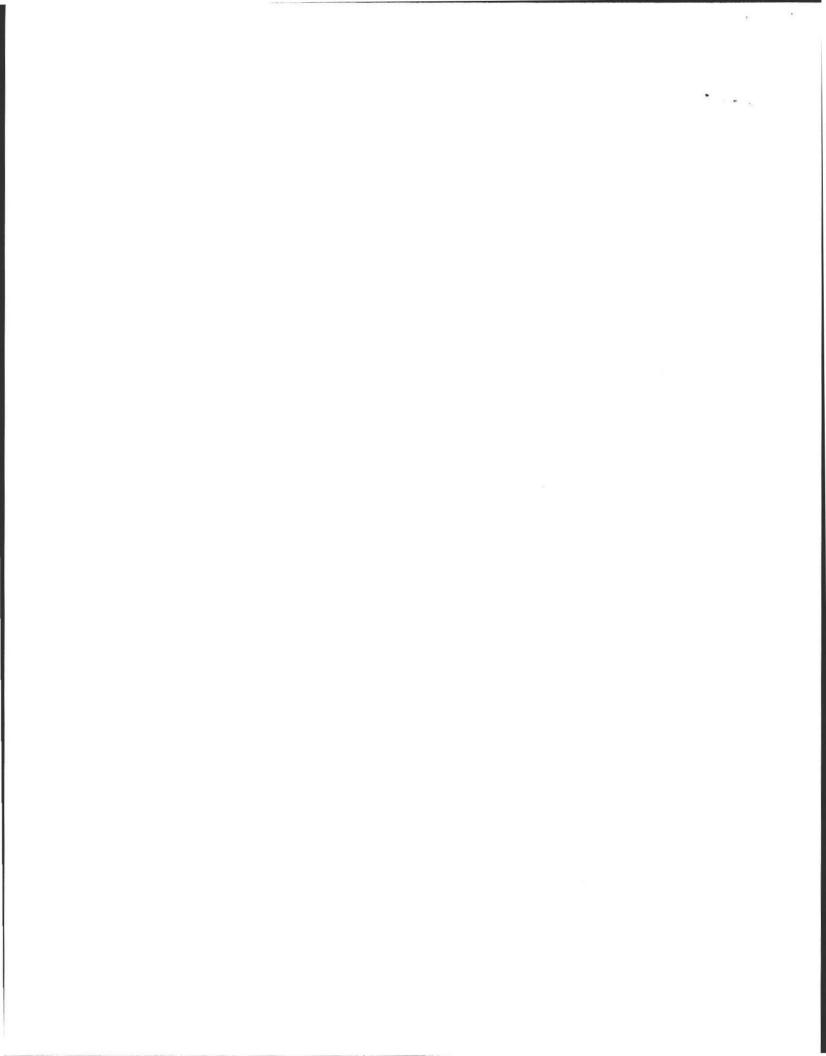
id in both the primary area AND

LUA For use of sieve test Attaded.



•		FORM 11 - S	OIL EVALUATOR FO Page 2	-
Iress or Lot No:	6 Flat H	((115		
	<u>On-site</u> R	leview		
Imber 1-2 Date: Itify on site plan) Id. rwal deciduus-	Terrare and the second s		Weather <u>Son Yair</u>	-
Idscape (sketch on the n: Nater Body <u>Iod 'F</u> le Wet Area <u>Iod 'F</u> g Water Well <u>Ioo 'F</u>	eet Drainage w eet Property Li	vay <u>D¹⁺</u> feet ine <u>Sea Aku</u> feet > <u>pL. charge plo</u>	+wa Lots and into	ina
DÉEP	OBSERVATIO	N HOLE LOG		
Soil Horizon Soil Tex (USD)	A1 / / /	Soil lottling (Structure, St	Cther Iones. Boulders, Consistency, % Gravel)	
A FS Bw LS C, LS	104R312 104R516 2 Ry 4/3 34	y" Friable	Marst Marst Msal, 20%	
A Fs Bu Is	1041312	<		
C, LS	104125/6 2.54413 24" 5418	4/6 H		
A OF 2 HOLES REQUIRED A opic) Grean Outisch r: Standing Water in the H ligh Ground Water:	ole: 68''	POSAL AREA DeputroBedrock: Weeping from Pit	110"+ Face: 24"	-
DEP APPROVED FORM - 12/0	7795		۱ ۲	

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UMass Extension

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02/27/13 Agriculture and Landscape Program Soil and Plant Nutrient Testing Laboratory

West Experiment Station 682 North Pleasant Street University of Massachusetts Amherst, MA 01003-9302 Phone: 413.545.2311 Fax: 413.545.1931 www.umass.edu/soiltest/

TEXTURAL ANALYSIS RESULTS

Customer Name: Cold Spring Environmental - A Weiss 350 Old Enfield Rd Belchertown, MA 01007

Sample ID: 113639

CENTER FOR AGRICULTURE

Customer Designation: Gerace

USDA SIZE FRAC	TIONS		PERCENT OF WH	OLE SAMPLE PAS	SING
Main Fractions	Size (mm)	Percent	Size (mm)	Sieve #	0/0
Sand Silt Clay	0.05-2.0 0.002-0.05 < 0.002	54.7 38.0 7.3			
Total	< 2.0	100.0			
Sand Fractions	Size (mm)	Percent	2.00 1.00 0.50	#10 #18 #35	92.5 89.3 83.5
Very Coarse Coarse	1.0-2.0 0.5-1.0 0.25-0.5	3.5 6.2 13.1	0.25	#60	71.4
Medium Fine	0.10-0.25	20.3	0.10	#140	52.6
Very Fine	0.05-0.10	11.6	0.05	#270	41.9
		54.7	0.02 0.005 0.002	20 um 5 um 2 um	28.0 11.7 6.8
Silt Fractions	Size (mm)	Percent	0.002	2 411	0.0
Coarse Medium Fine	0.02-0.05 0.005-0.02 0.002-0.005	15.0 17.6 <u>5.4</u>			

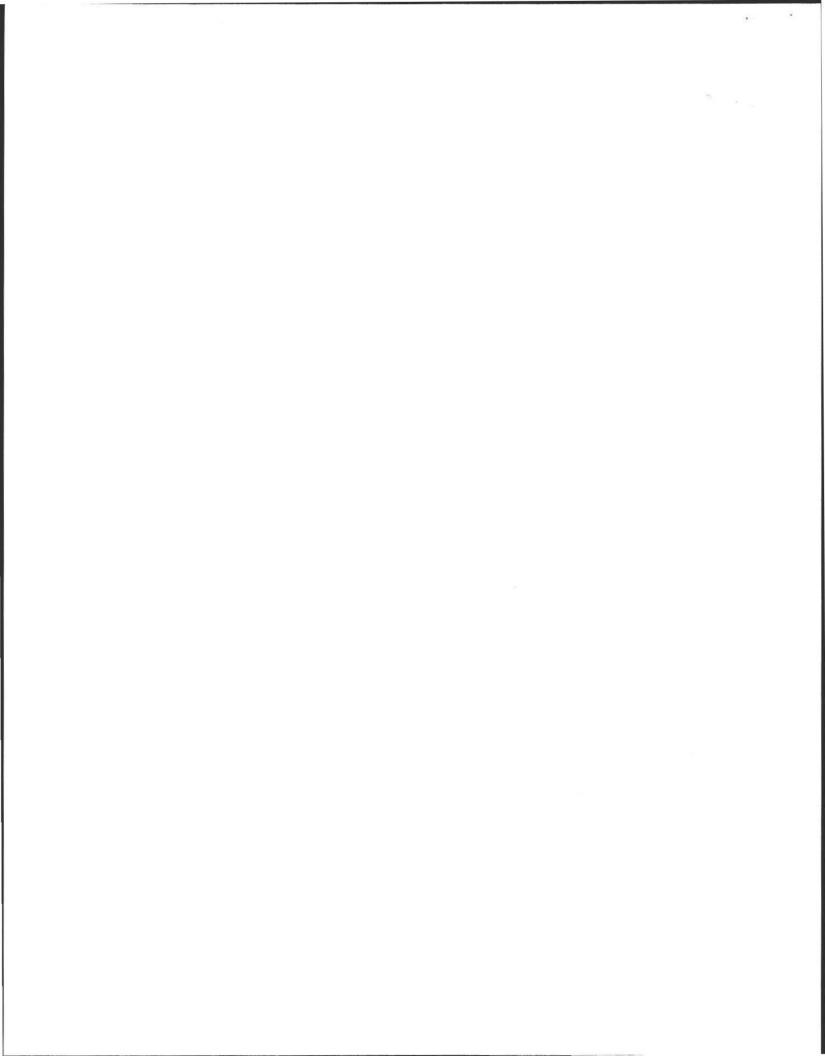
38.0

USDA Textural Class = fine sandy loam

Gravel Content = 7.5%

COMMENTS: aeweiss@charter.net

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Location Address or Lot No. 66 Flat Hills Rd

Determination for Seasonal High Water Table

Method Used:

 Depth observed star Depth weeping from Depth to soil mottle Ground water adjust 	nding in observation hole inches n side of observation hole inches s .24 inches tment
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?

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

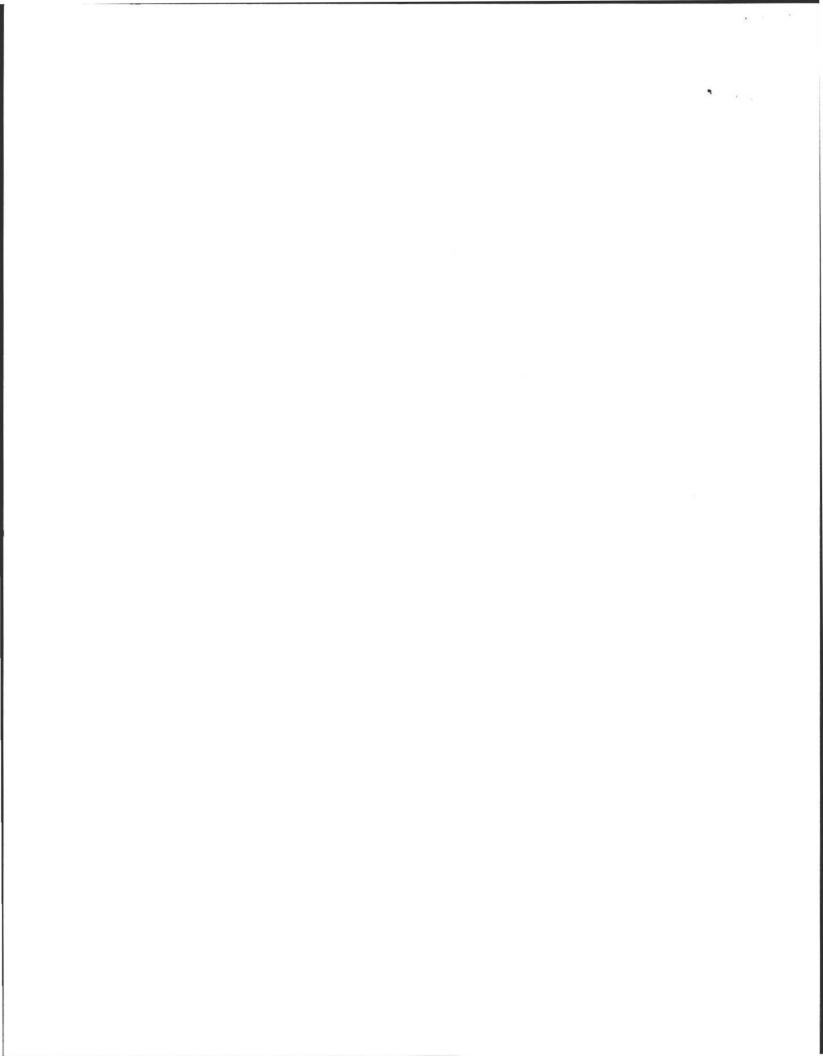
Certification

I certify that on $6/4\pi$ (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 3

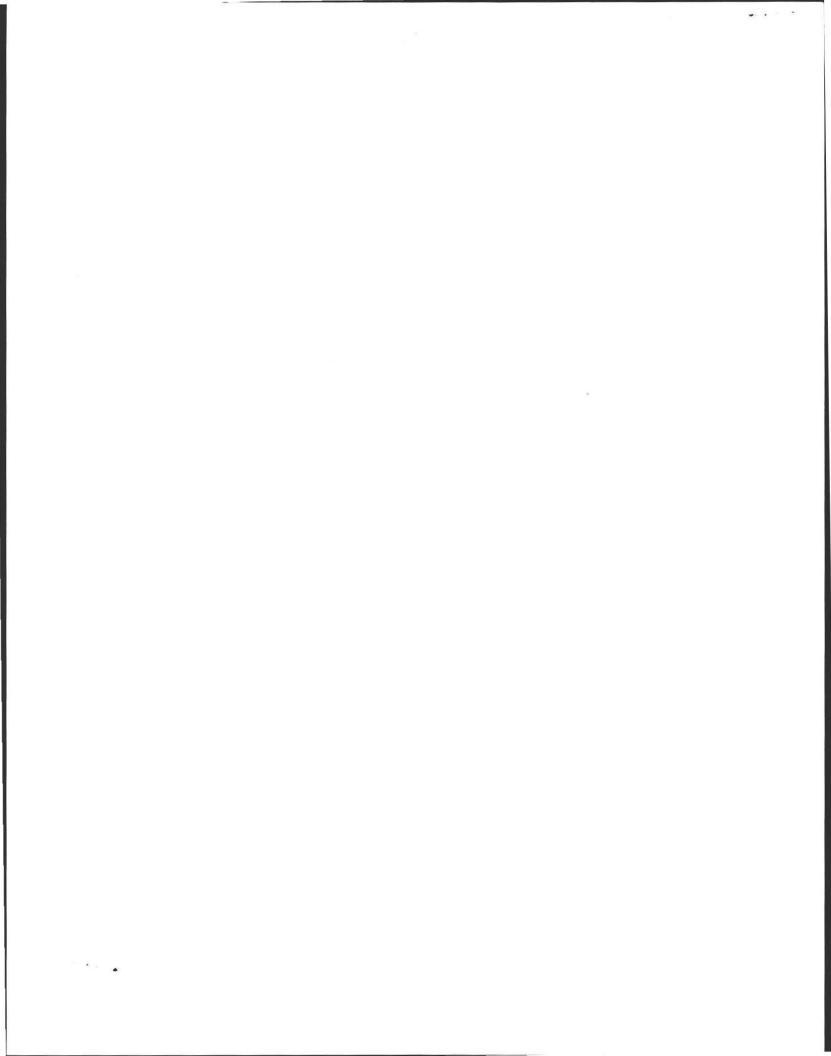




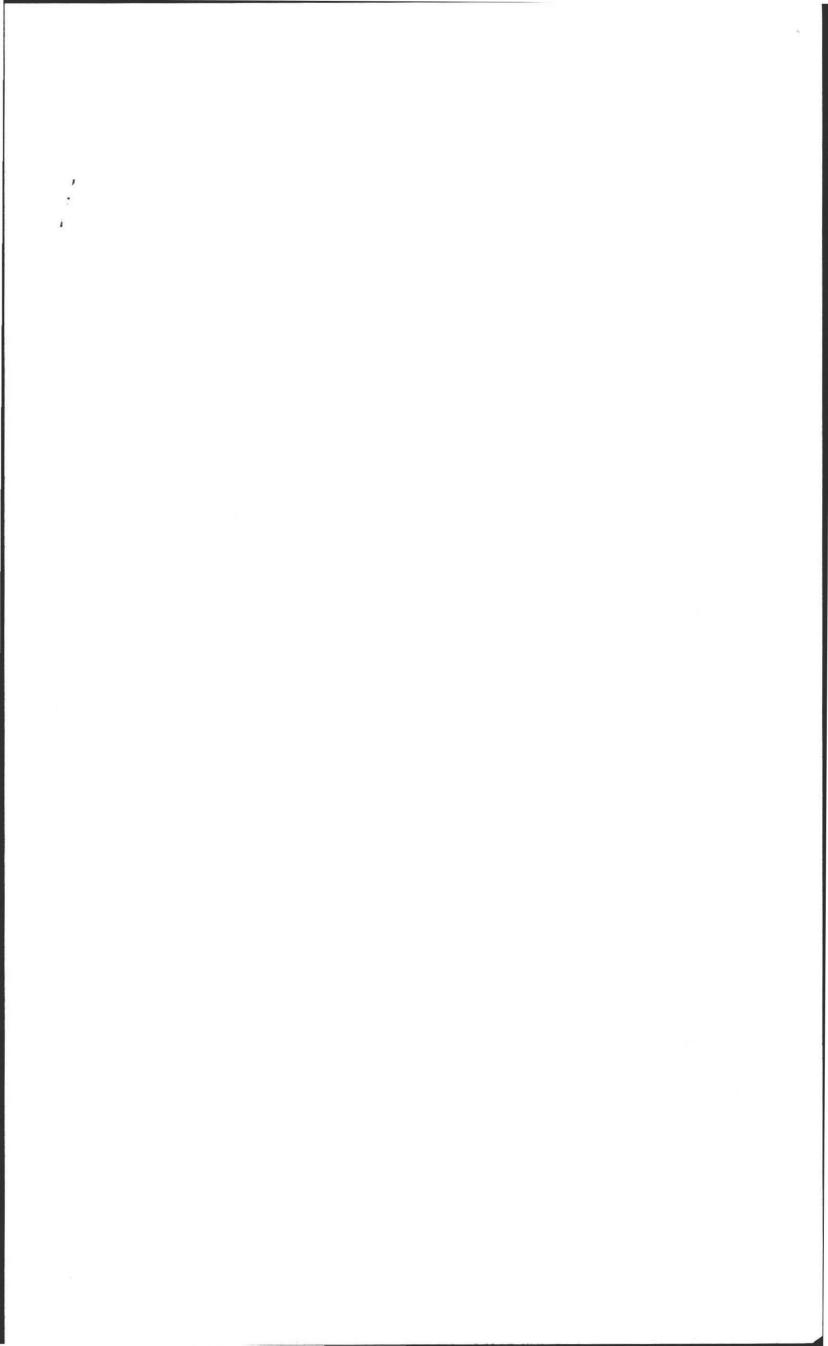


'SON N 82°-41-30 E 132,41 64.03 NS 0.38 40 TP V82-41-30E N 59°-30 116.74 SP 65.75 SQUARE FEET 5r PARCELB RES FRANTE HOUSE PAGE 388 PAGE 361 0 1.0 0 m 5 0 11 4 m 0 N 0 J 0 N AREA a ð 0 IN 5 0 33993 5' SQUAREFEET NIO 1141 BOOK 1627 PAGE 253 N 5 41 IR 2.00 36"M 4 141.80 89°-03 IP

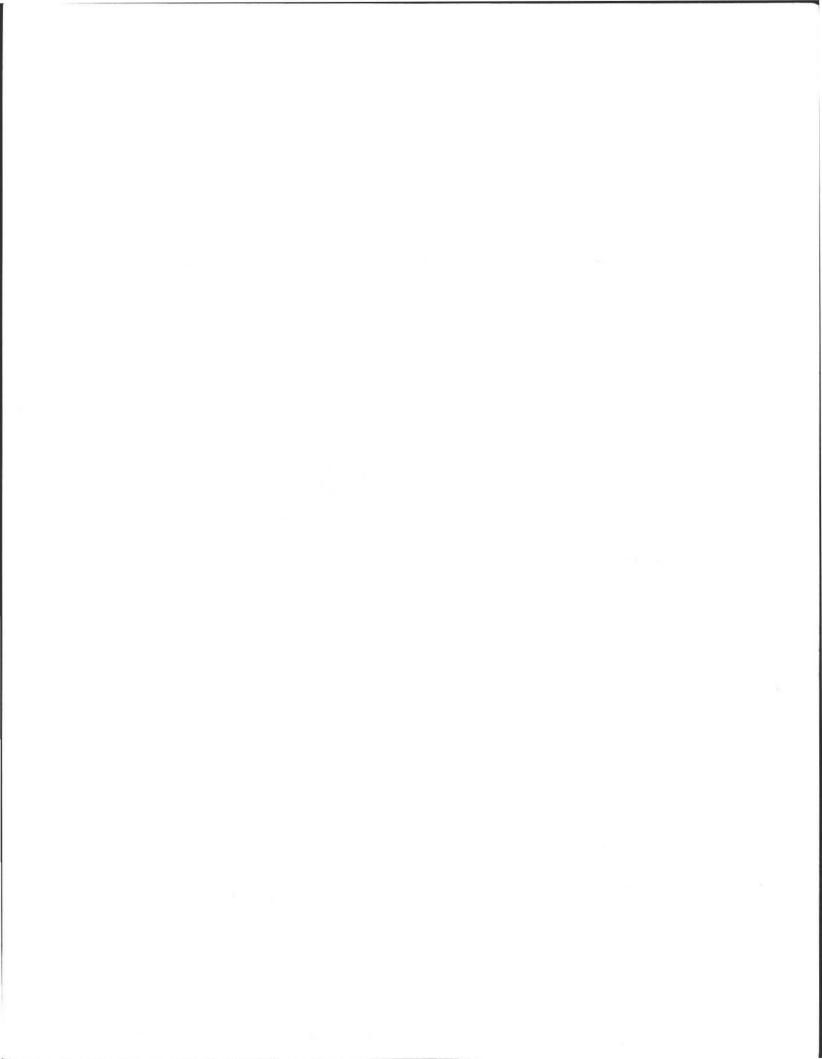
AMHERST MASSACHUSETTS BELONGING LUMBER CORPORATION, THIS PLAN SHOWS. ISION OF THIS PROPERTY EFERRED TO MAGNETIC NORTH AS OF

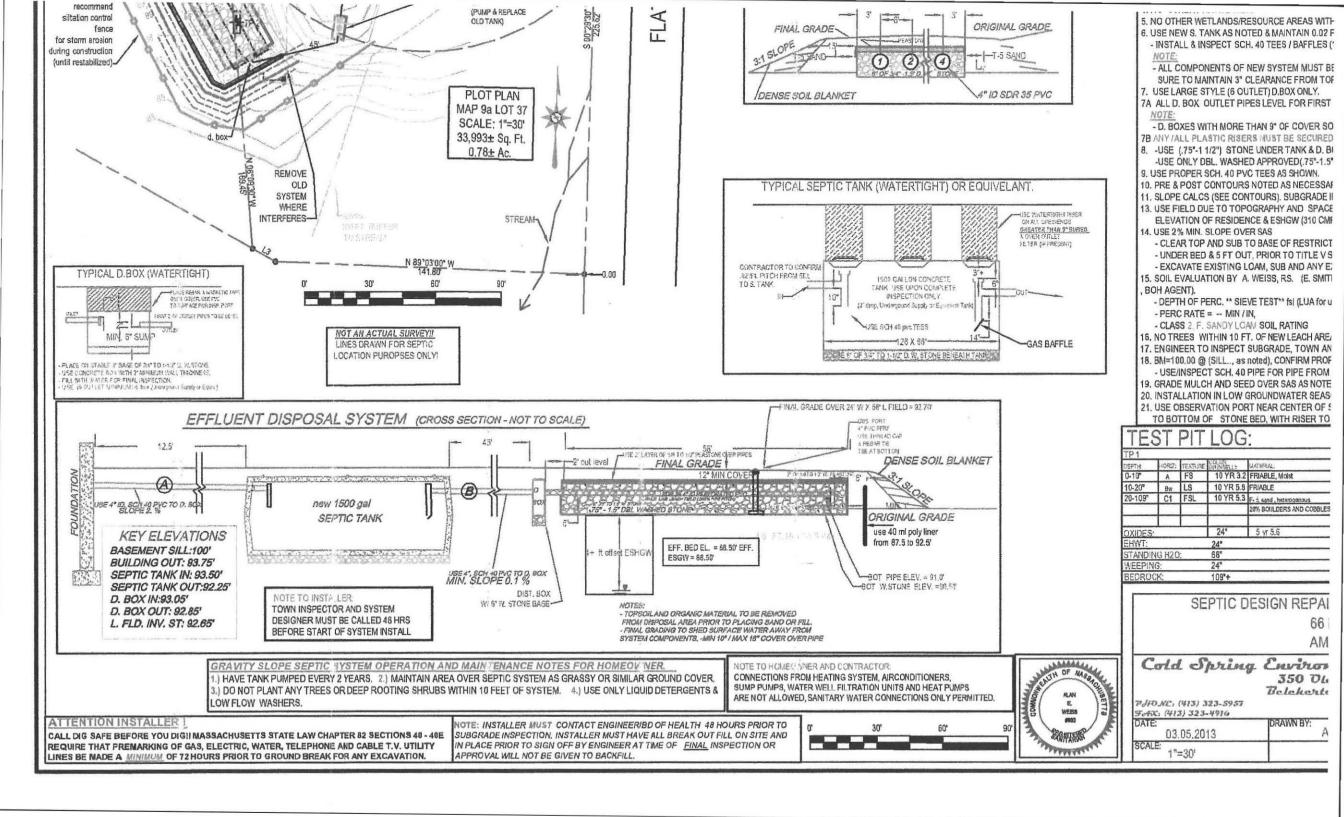


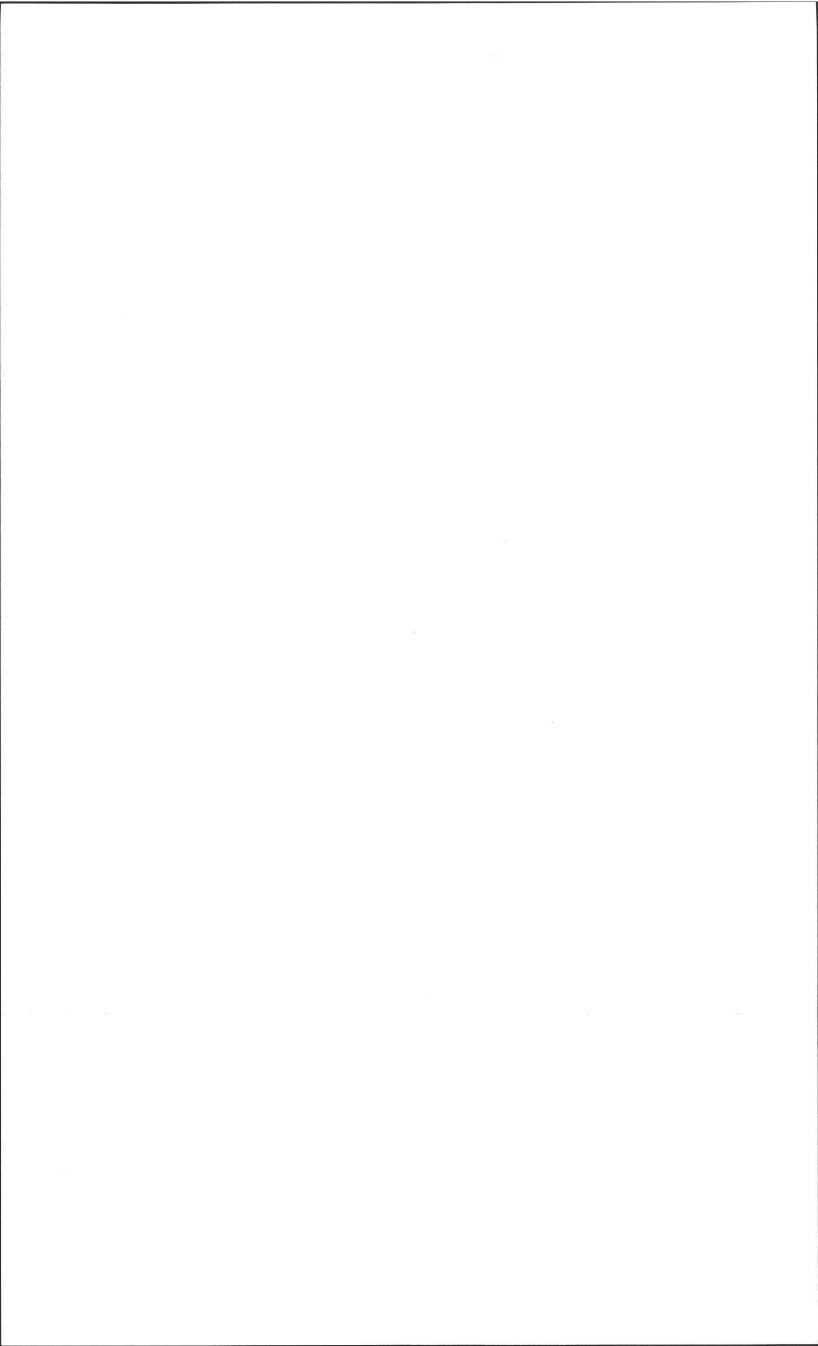
No	FEE
COMMONWEALTH	OF MASSACHUSETTS
Board of Health.	wherst. MA.
	101
APPLICATION FOR DISPOSAL	SYSTEM CONSTRUCTION PERMIT
Application for a Permit to Construct() Repair(X Upgrade()	Abandon() - Complete System Individual Components
Location 66 Aat Hills Nd.	Owner's Name Willian berace.
Map/Parcel# 9 A 37 + 9A 34	Address 401 W. Rodrance, DK, Greenshow, NC.
Lot# 37+34.	Telephone# 336-256-8572
Installer's Name TBD. Pete Wilson.	Designer's Name Ala Weiss DS
Address Pelhan, MA:	Address Beldertonny Mt.
Telephone#	Telephone# 413-323-5957
Type of Building Re Siden ~	Lot Size 33,993 sq. ft.
Dwelling - No. of Bedrooms	
Other - Type of Building 4 Brobay	. Garbage grinder (No X 11 v St Re March No. of persons Showers (), Cafeteria ()
Other Fixtures	(110)
Design Flow (min. required) (10 gpd Calculated	
Plan: Date 3 3 13 Number of sheets	0
Title Septic System Repo	
Description of Soil(s) +51: (455) by Sience.	A
Soil Evaluator Form No Name of Soil Eval	E. Smity.
DESCRIPTION OF REPAIRS OR ALTERATIONS	He April Sustain
DESCRIPTION OF REFRIRS OR ALTERATIONS $____________________________________$	n new yorkin.
Signed Da	
Signed Da	ficate of Compliance has been issued to the Boar the life.
Signed Da	ficate of Compliance has been issued to the Boar the life.
Signed Da	ficate of Compliance has been issued to the Boar fields.
Signed Da Inspections No No COMMONWEALTH	ficate of Compliance has been issued to the Boar fields. ate
Signed Da Inspections No No COMMONWEALTH Board of Health,	FEE, MA.
Signed Da Inspections No No COMMONWEALTH Board of Health,	ficate of Compliance has been issued to the Boar fields. ate
Signed Da Inspections No No No COMMONWEALTH Board of Health, CERTIFICATE (Description of Work: □ Individual Component(s) □ Complete	FIEE
Signed Da Inspections No No No COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; 0	FEE
Signed Da Inspections No No No COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; Coy;	FEE
Signed Da Inspections No No No COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; (by: at)	FEE
Signed Da Inspections No No No COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; 0 py: at has been installed in accordance with the provisions of 310 CMR 1	FEE
Signed Da Inspections Da Inspections COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; 0 py:	FEE
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Signed Da Inspections Da Inspections No COMMONWEALTH Board of Health, Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; 0 py: at nas been installed in accordance with the provisions of 310 CMR I application No, dated Approv Installer Designer: Inspector:	ficate of Compliance has been issued to the Boar and the attern in the Boar and the Boar an
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Signed Da Inspections COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; 0 by: at	ficate of Compliance has been issued in the Board in the
Signed Da Inspections No COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; (Dy:	ficate of Compliance has been assured with Board and the system will function as designed.
Signed Da Inspections Da Inspections COMMONWEALTH Board of Health, CERTIFICATE (Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; (by:	ficate of Compliance has been issued in the Boar and the least of the boar attemption of t
Signed Da Inspections Da Inspections COMMONWEALTH Board of Health, CERTIFICATE (Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; (py:	FEE
Signed Da Inspections No COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; 0 by: at	FEE
Signed Da Inspections No COMMONWEALTH Board of Health, CERTIFICATE (Description of Work: □ Individual Component(s) □ Complete The undersigned hereby certify that the Sewage Disposal System; (by:	FEE
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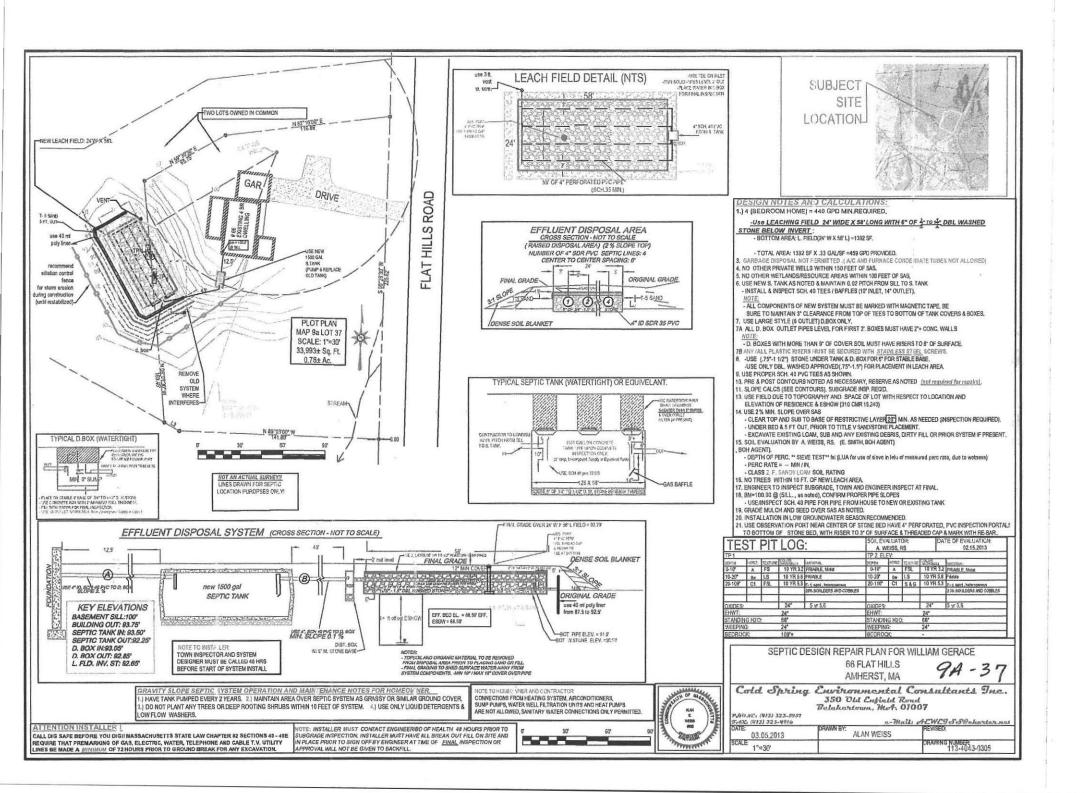


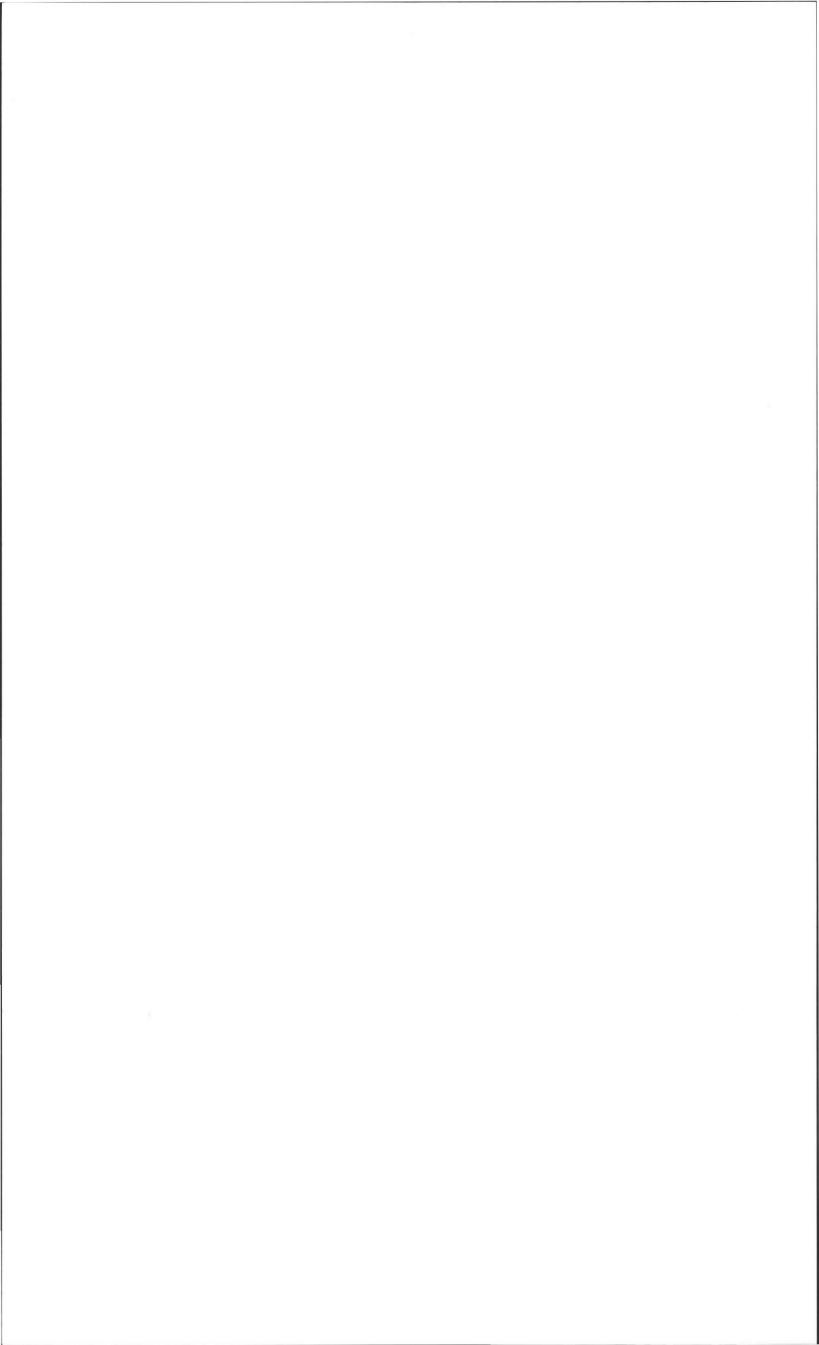
13-7 COMMONWEALTH OF MASSACHUSETTS Bound of Health ANNEST MA APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT Application for a Permit to Construct() Repair X Upgrade() Abandon() XComplete System Lucase 66 Aut Hills Ad. Owners Name William Coerace. 2743 Map Pariele 99/32 - 9934 Address 401 W. Rochance. DE, Grassher, NC. 32134 Selephonet 336-256-5572 Peter water Designer's Name Alas Weiss DS Installe 's Name TOD -Add ess Beldestern Wh Arhlines Pelhan , my 4.3-323-5957 lemphone Lisphone# 1. Sec. 33.983 up fi Buden Type of Building - Gontinge grunder (N X M-St. Romand Dwelling - No. of Bedrooms. 4 Berbaus No of persons_ Otton Type of Building Other Fisheres Design Now (mini-required) (10 god Calculated nesign flow YYO Design flow provided 459 god Man Dare 31 3. 113 Sy Stor Repar Revision Date Plan dutical by sience. Description of Soulist 451 Name of Soil Fardinator _ AUL 25 _ Date of Evaluation _ 1/15/13 Soil Evaluator Form No E Smith. New System. DESCRIPTION OF REPAIRS OR ALTERATIONS ______ The undersigned agrees to install the above described individual Sewage Disposal System in accurtance with the provisions of TITLE 5 and further agrees to not to place the gateman operation unit.a Certificate of Compliance has been insure to the Board Marshall Sewage Seguent (A) effective of the Board Marshall Sewage Disposal System in the Board Marshall Section of Section 2019 Inspections. \$150 3-7 COMMONWEALTH OF MASSACHUSETTS . MA Board of Health CERTIFICATE OF COMPLIANCE Description of Work: [2] Individual Component(s) [2] Complete System The undersigned hereby certify that the Senage Diaposal System, Constructed (), Replaced (), Upgraded (), Abbodoned () _____ 1.8 and here institled as a conducte with the procession of \$16 CMR 15:00 (Table 5) and the approved design plana/aubuilt plana relating to application No. ______ (gpd) Insuitier 1000 00 000 Lispecia List The issuance of this permit shall not be construed as a guarantee that the system will function as designed. 150 13-7 COMMONWEALTH OF MASSACHUSETTS Board of Matthe AauHERST MA DISPOSAL SYSTEM CONSTRUCTION PERMIT Permission is hereby granted to; Construct () Repair (X) Upgrade() Abandon() an individual sewage disposal system 66 FLAT HILLS _ as described in the application for Disposal System Construction Permit No. 13.7 ____ dated 3/3/13_ Provided: Construction shall be completed within three years of the date of this permit. All local of test the stat we take to be a state of the sta ASRA, SANITALAN

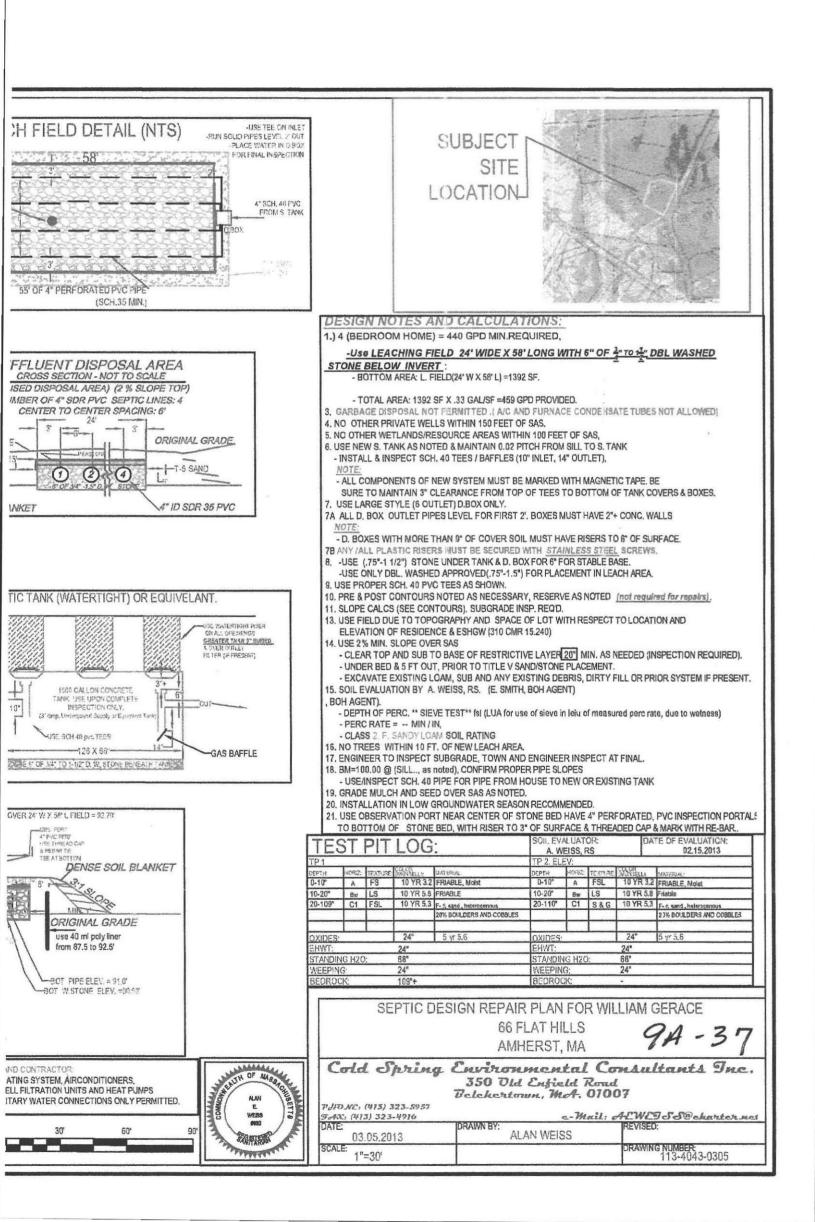


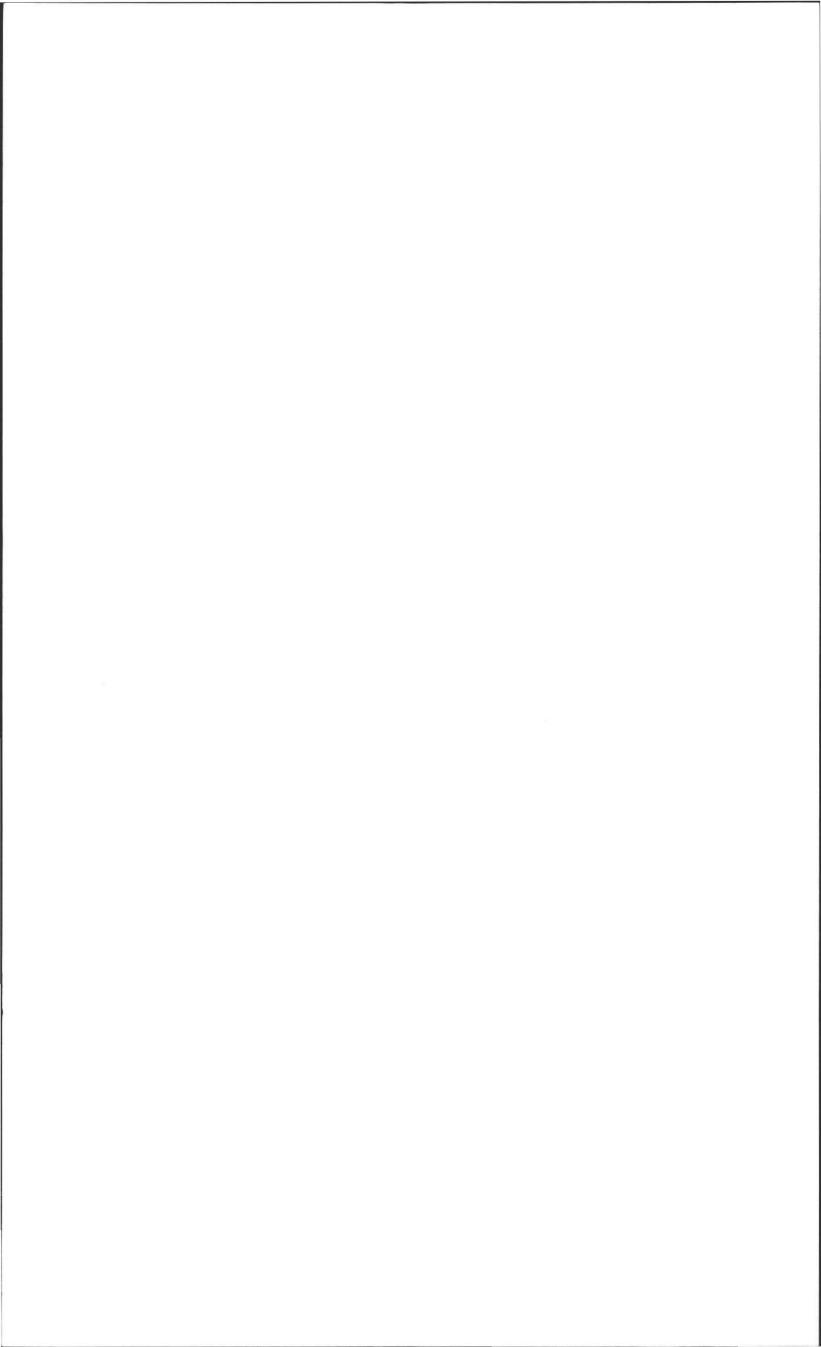


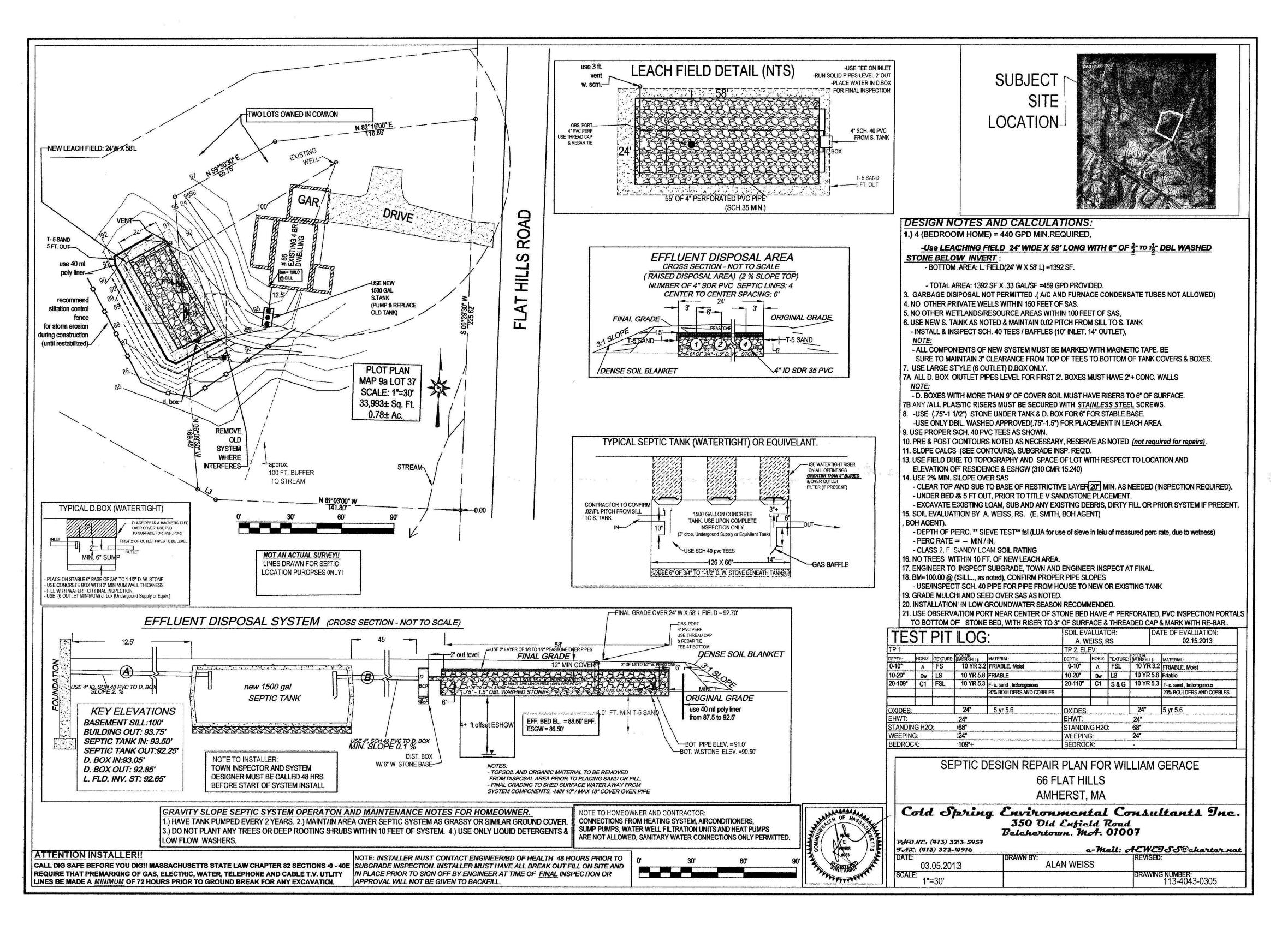


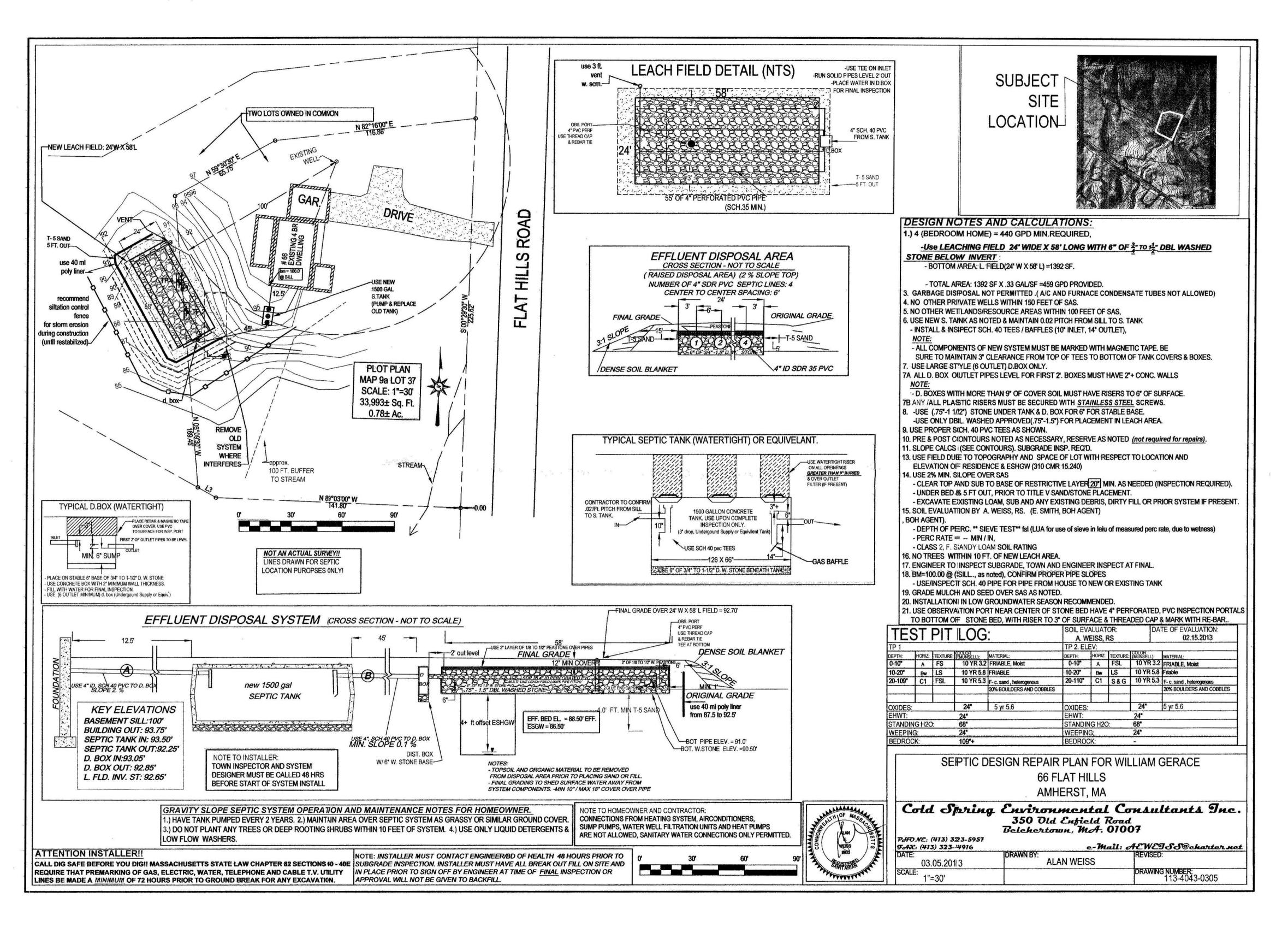


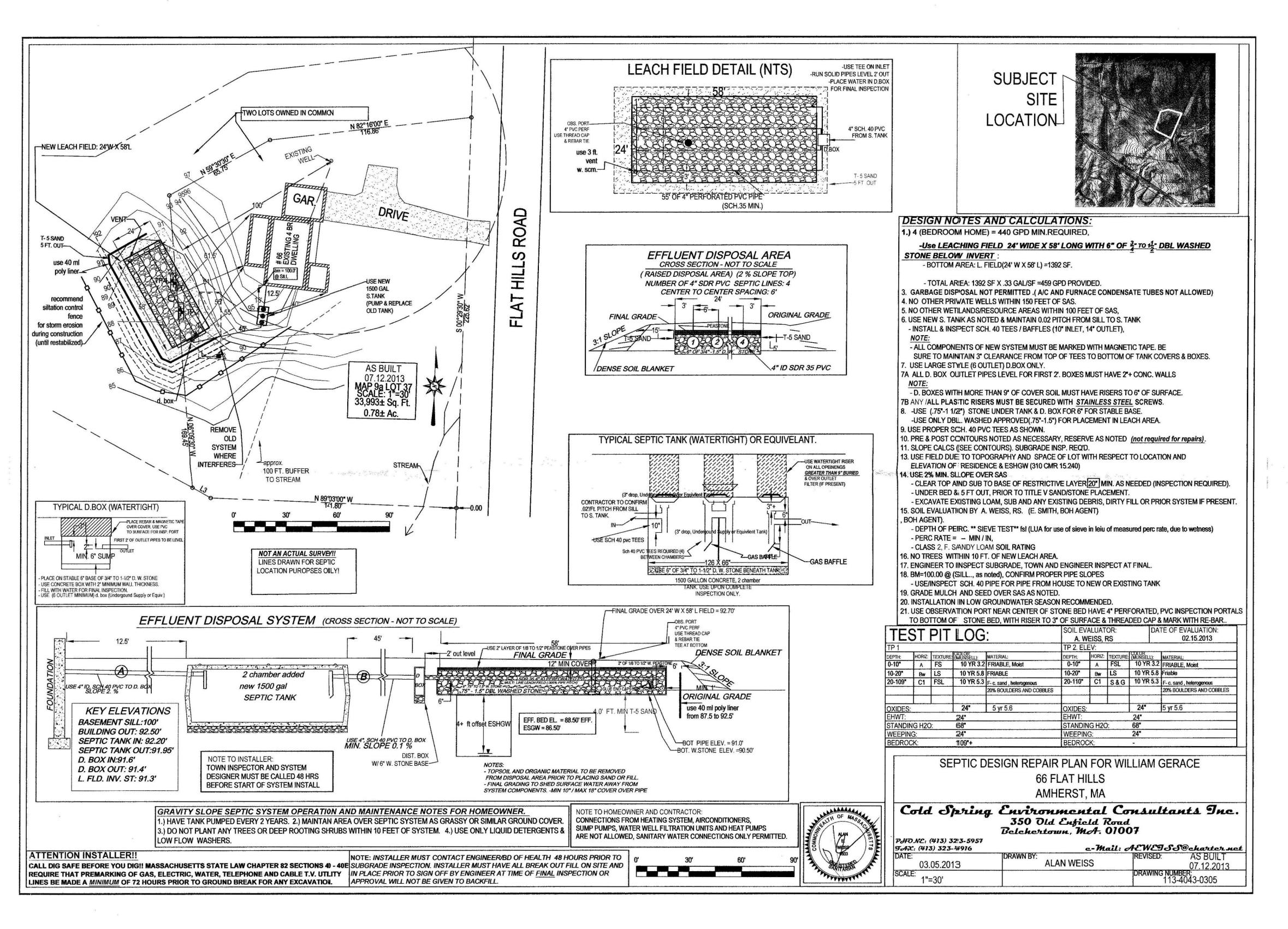












BOARD OF HEALTH, AMHERST, MASSACHUSETTS	
APPLICATION FOR DISPOSAL WORKS CONSTRUCTION PERMIT No. 70-12 Date June 23, 1970 Fee \$3.00 Date Rec'd6/23/70 By DGF	
Application is harshy made for a normit to Construct (2/) on Rangin () on Individual Sources Dianoval	
Application is hereby made for a permit to construct (\) of Repair (') an individual Sewage Disposal System at: Location—Address Flat Hills Road Owner Gerald R. Hill Tel 549-3618 Address East Leverett Road, Levere Address Address	
Owner Gerald R. Hill Tal 540 2010 Address East Leverett Road, Levere	tt
Contractor Same	
Contractor Same Iet Stype of Suilding Type of Building Dwelling Dimensions 40 x 36 ¹ 8" Size Lot ? Dwelling—No. of Bedrooms 4 Expansion Attic (No) Garbage Grinder (Yeş	
Other No. of persons Showers ()	,-0
Other fortunes	4
Town Water? No Type of Well Artesian Design Flow 25 gallons per person per day. Total daily flow 600 gallons	
Sentic Tank-Liquid capacity 1200 gallons Dimensions: L W D	
D' IT STONI WILL IS THAT I TO THE LINE ALAST I	
Disposal Bed—No Diameter Depth below inlet Total leaching area sq. ft.	
Disposal French No Width Total Length Total leaching area sq. ft. Disposal Bed—No Diameter Depth below inlet Total leaching area sq. ft. Dry Well—No Diameter Depth below inlet Dimensions: x x Other: Distribution box () No Dosing tank ()	
(Depth of Soil Line Below finished grade at foundation Image: Constant of the second seco	27
Percolation Test Results Performed by Date	0
Test Pit No. 2 minutes per inch	
Description of Soil Depth to Ground Water Will disposal area be filled? Cut down?	
Will disposal area be filled? Cut down? (On reverse side or separate sheet, show plot plan with building. Include dimensions, distances from all boundaries.	
Show location of wells, streams, ledge, large trees, etc.)	
AGREEMENT: The undersigned agrees to construct the aforedescribed individual sewage disposal system in accord- ance with the provisions of Article XI of the Sanitary Code and regulations of the Amherst Board of Health. The un- dersigned further agrees not to place the system in operation untitle Certificate of Compliance has been issued by this board of health.	
Application Approved by CEDiake Owner or builder Application	502
Application Approved by date	20
Application Disapproved for the following reasons:	
BOARD OF HEALTH, AMHERST, MASSACHUSETTS CERTIFICATE OF COMPLIANCE	
THIS IS TO CERTIFY, That the individual Sewage Disposal System installed () or repaired () by at has been constructed in accordance with the provisions of	
INSTALLER Installer	
Article XI of the State Sanitary Code as described in the application for Disposal Works Construction Permit No.	
The issuance of this certificate shall not be construed as a guarantee that the system will function satisfactorily.	
DATE Inspector	
BOARD OF HEALTH, AMHERST, MASSACHUSETTS DISPOSAL WORKS CONSTRUCTION PERMIT	
No	
Permission is hereby granted to construct () or repair () an Individual Sewage Disposed System at	
Individual Sewage Disposal System atas shown on the application for Disposal Works Construction Permit No	
This permit is issued with the understanding that future alterations or additions will be made if necessary. This	

This permit is issued with the understanding that future alterations or additions will be made if necessary. This permit shall not be construed as permission to create or maintain any sewage nuisance and in the issuance of this permit the Board of Health assumes no responsibility for the future operation or maintenance of the system.

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