

1290 BAY ROAD

457 ~~NORTHEAST~~ STREET



Commonwealth of Massachusetts  
 City/Town of  
**Certificate of Compliance**  
 Form 3

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 the local Board of Health to determine the form they use.

This is to Certify that the following work on an On-Site Sewage Disposal System

- Construction of a new system
- Repair or replacement of an existing system *X*
- Repair or replacement of an existing system component

Has been done in accordance with Title 5 and the Disposal System Construction Permit (DSCP):

13-14 DSCP Number      5/29/2013 DSCP Date

MR Kent (ROBERT + DOROTHY) Facility Owner

1290 BAY RD Street Address or Lot #

Beverly City/Town      MA State      01002 Zip Code

Designer Information:

Alan Weiss, RS, #933 Name      Cold Spring Environmental, Inc. Name of Company

[Signature] Signature      8/15/13 Date

Installer Information:

John Adair Name      Adair Const Name of Company

Signature      Date

Use of this system is conditioned on compliance with the provisions set forth below:

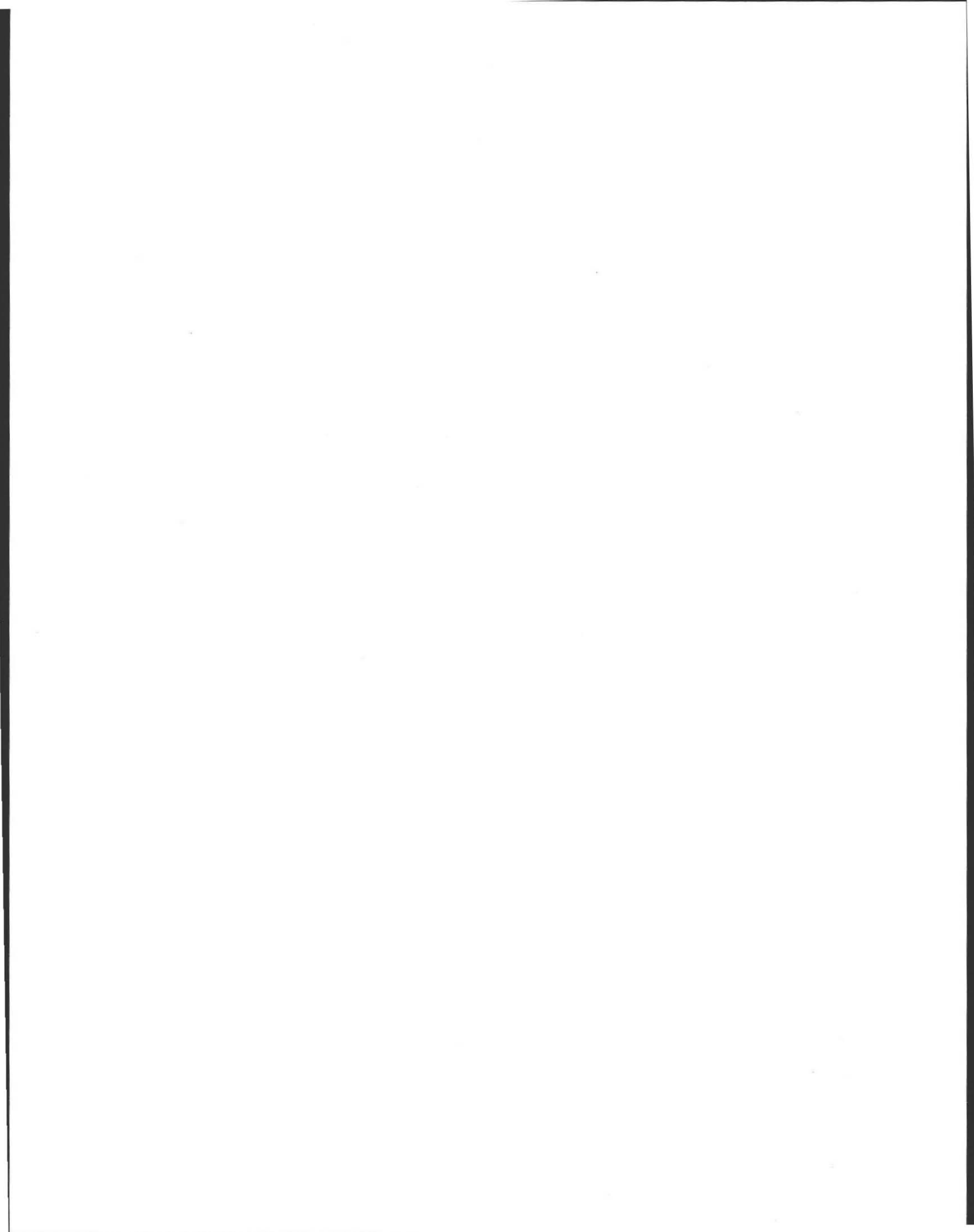
The issuance of this certificate shall not be construed as a guarantee that the system will function as designed.

AMHERST HEALTH DEPT Approving Authority

[Signature] Signature      8-27-2013 Date

Important:  
 In filling out  
 this form on the  
 computer, use  
 the tab key  
 to move your  
 cursor - do not  
 click the return





Date/Time: Aug. 20. 2013 10:25AM

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
6052	Memory TX	914132531519	P. 1	OK	

Reason for error

E. 1) Hang up or line fail	E. 2) Busy
E. 3) No answer	E. 4) No facsimile connection
E. 5) Exceeded max. E-mail size	



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- Construction of a new system
- Repair or replacement of an existing system *R*
- Repair or replacement of an existing system component

Has been done in accordance with Title 5 and the Disposal System Construction Permit (DSCP):

DSCP Number 13-14 DSCP Date 5/29/2013  
 Facility Owner Mr. Kent (Roseat + Roseat)  
 Street Address or Lot # 1290 Bay Rd  
 City/Town Beverly State MA Zip Code 01902

Designer Information:

Name Alan Weiss, RS, # 933 Name of Company Cold Spring Environmental, Inc.  
 Signature [Signature] Date 8/15/13

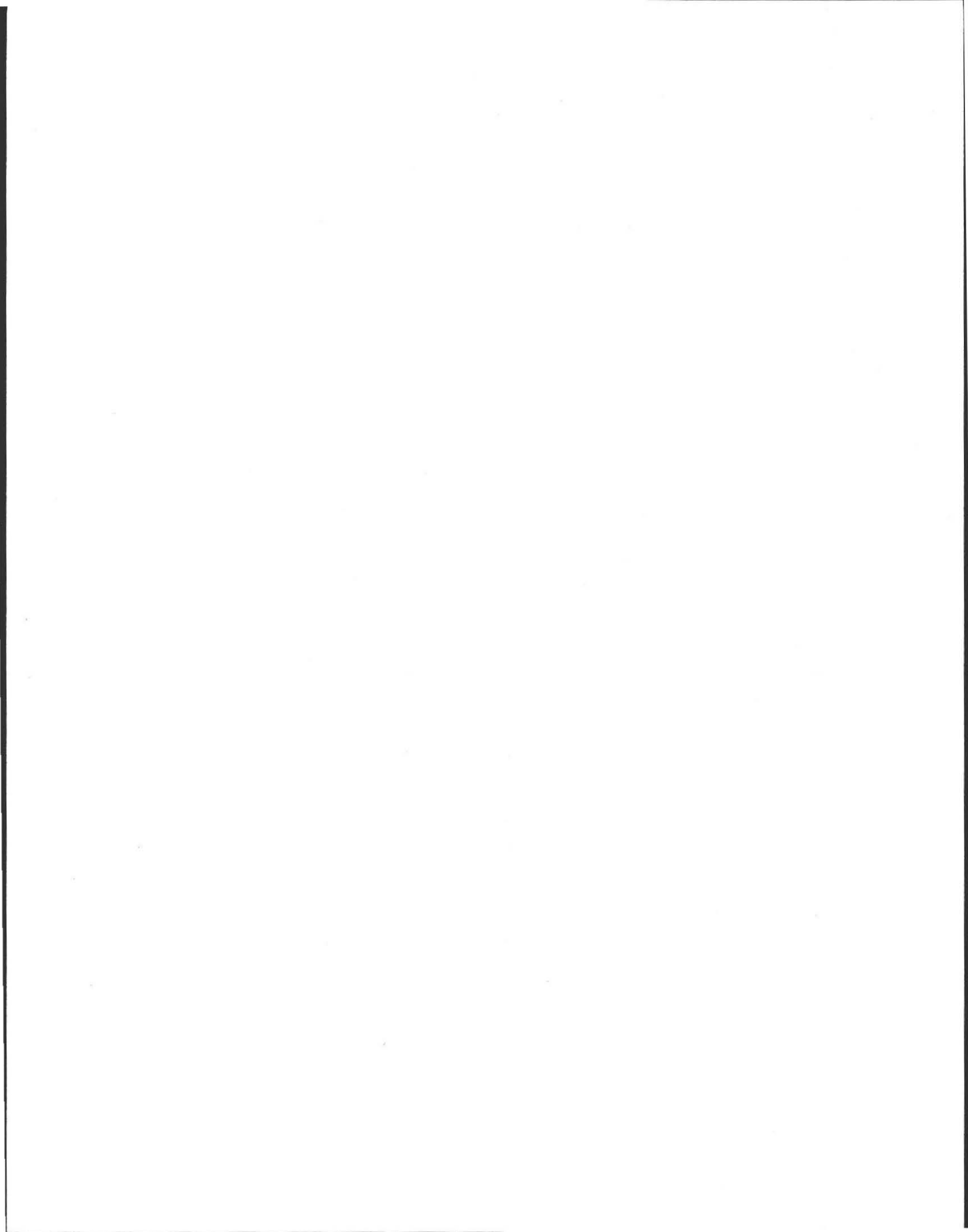
Installer Information:

Name Alan Adams Name of Company Adams Const  
 Signature \_\_\_\_\_ Date \_\_\_\_\_

Use of this system is conditioned on compliance with the provisions set forth below:

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

Approving Authority [Signature]  
 Signature \_\_\_\_\_ Date \_\_\_\_\_



\* \* \* Communication Result Report ( Aug. 27. 2013 11:54AM ) \* \* \*

1)  
2)

Date/Time: Aug. 27. 2013 11:53AM

File No. Mode	Destination	Pg(s)	Result	Page Not Sent
6056 Memory TX	914132531519	P. 2	OK	

Reason for error  
 E. 1) Hang up or line fail  
 E. 3) No answer  
 E. 5) Exceeded max. E-mail size

E. 2) Busy  
 E. 4) No facsimile connection

### FAX

Number of pages including cover sheet:  
2

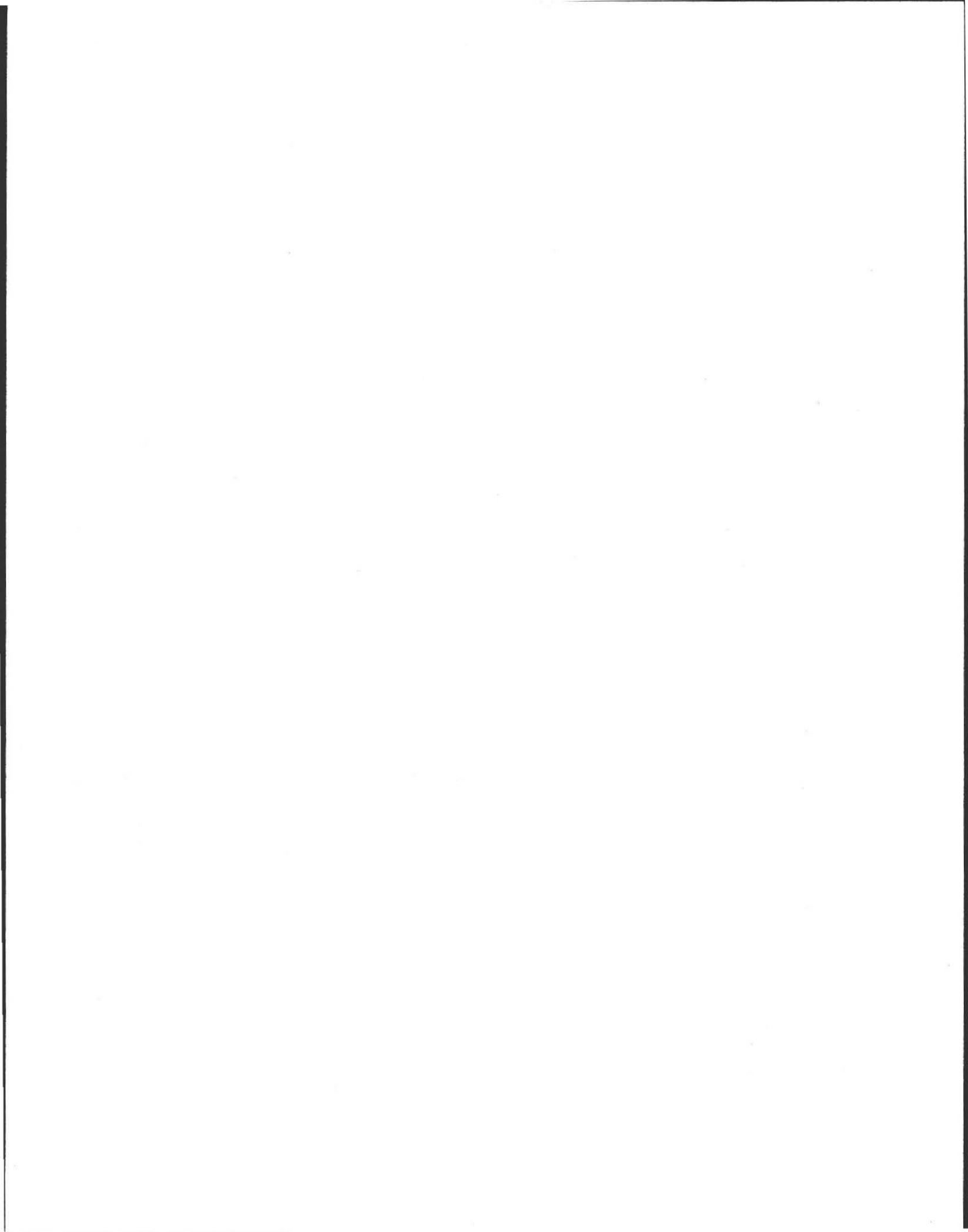
TO Rob Adams  
 Phone  
 Fax Phone 253-1519  
 Date 8-27-2013

FROM Edmund Smith  
Amherst Health Department  
Bangs Community Center  
70 Boltwood Walk  
Amherst, MA 01002  
 Phone (413) 259-3153  
 Fax Phone (413) 259-2404  
 E-Mail smithe@amherstma.gov

REMARKS:  Urgent  For your review  Reply ASAP  Please Comment

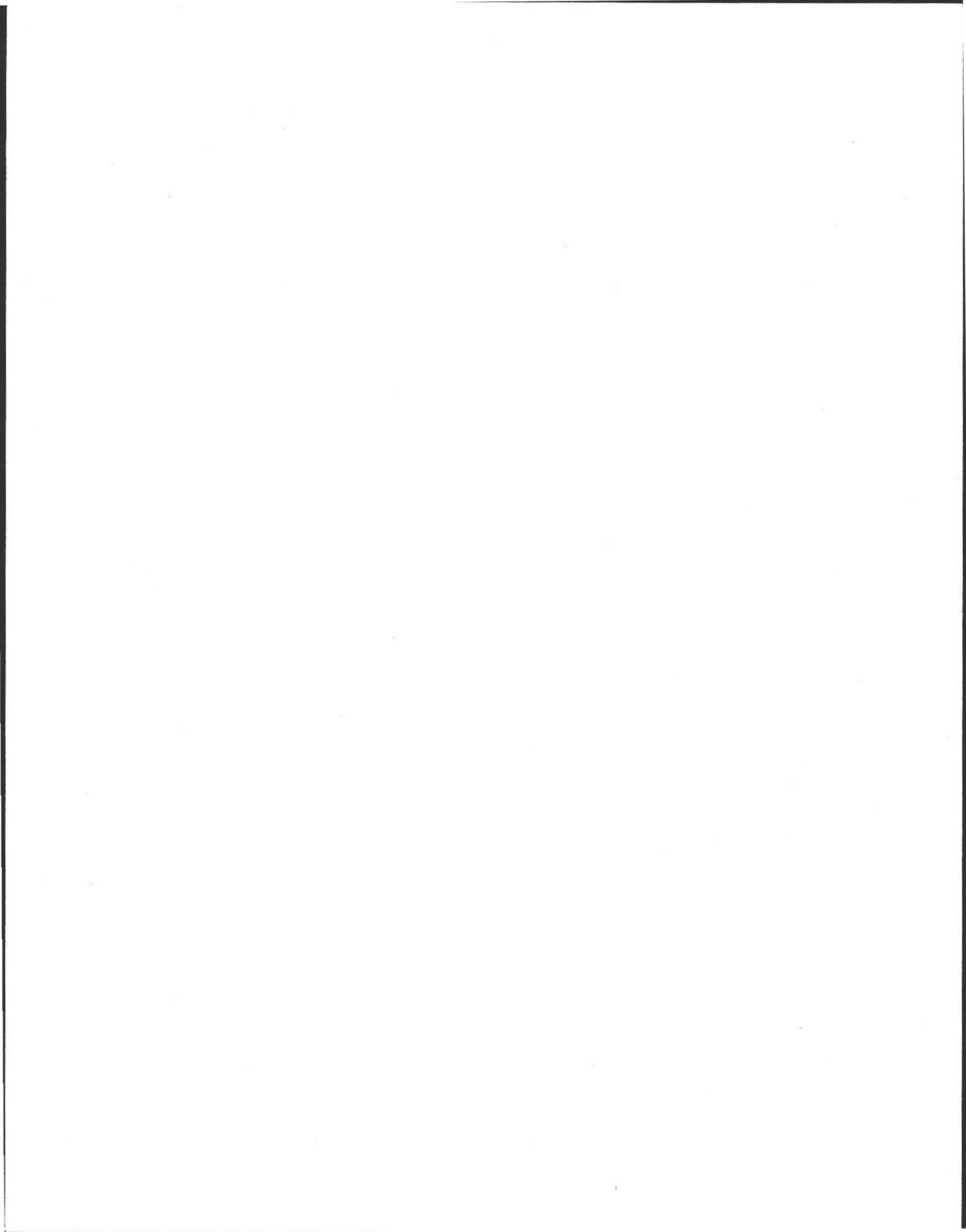
Please sign under Installer Information, and fax (or scan & email) it back to me  
 Thanks!

Edmund Smith  
 Health Inspector  
 Amherst Health Department











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

03-14  
 Number  
 \$- 150  
 Fee

**B. Agreement**

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

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

Application Approved By:

Edmond Smith, ABOH 7/11/2013  
 Name Date

Edmond R. Smith

Application **Disapproved** for the following reasons:

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





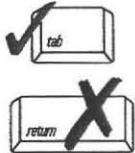
Commonwealth of Massachusetts  
 City/Town of Amherst  
**Application for Disposal System  
 Construction Permit**  
 Form 1A

13-14  
 Number \_\_\_\_\_  
 \$-- 150  
 Fee \_\_\_\_\_

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

**A. Facility Information**

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



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

1. Location of Facility:

1290 Bay Road  
 Address or Lot #  
 Amherst MA 01002  
 City/Town State Zip Code

2. Owner Information

Robert and Dorthy Ann Kent  
 Name  
 Address (if different from above)  
 Amherst MA 01002  
 City/Town State Zip Code  
 413-253-3070  
 Telephone Number

3. Installer Information

Rob Adair Adair Const  
 Name Name of Company  
 Address  
 Amherst MA 01002  
 City/Town State Zip Code  
 531-7921  
 Telephone Number

4. Designer Information

Alan Weiss, RS Cold Spring Environmental Consultants Inc.  
 Name Name of Company  
 350 Old Enfield Road  
 Address  
 Belchertown MA 01007  
 City/Town State Zip Code  
 413-531-4015  
 Telephone Number





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

13-14  
 Number  
 \$- 150  
 Fee

**A. Facility Information** (continued)

5. Type of Building:

- Dwelling  Garbage Grinder (check if present)

Other: Type of Building \_\_\_\_\_ Number of Persons Served \_\_\_\_\_

- Showers \_\_\_\_\_ Number of showers \_\_\_\_\_  Cafeteria  Other fixtures \_\_\_\_\_

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

6. Design Flow:

4 Bedroom= 440 GPD

Gallons per Day

Calculated Daily Flow:

466

Gallons

7. Plan:

07.03.2013

Date of Original

1

Number of Sheets

Revision Date

Septic System Plan

Title of Plan

8. Description of Soil:

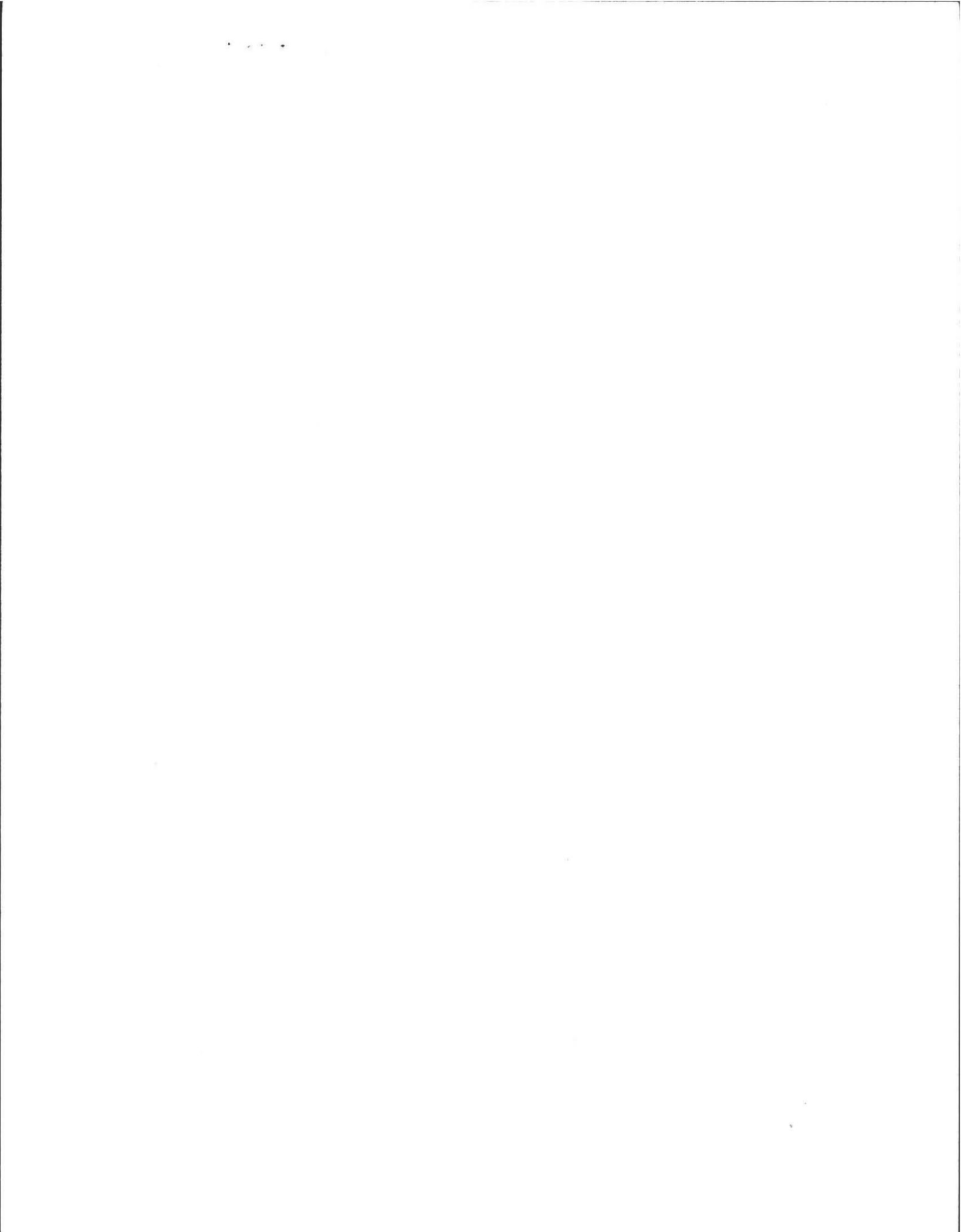
FS/LS

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

New Leach area and septic tank due to failure condition.

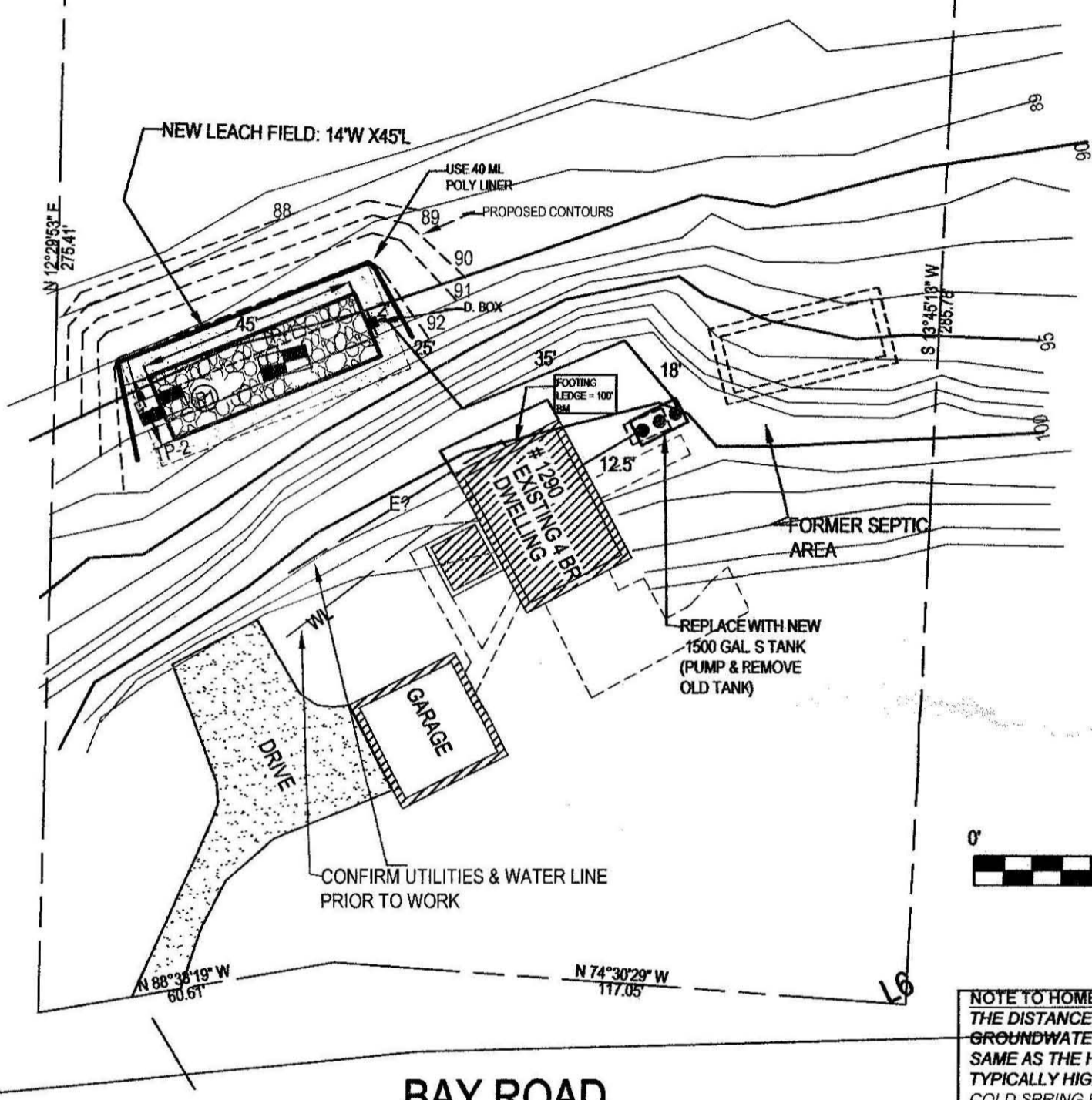
10. Date last inspected:

- 5/29/2013  
 Date

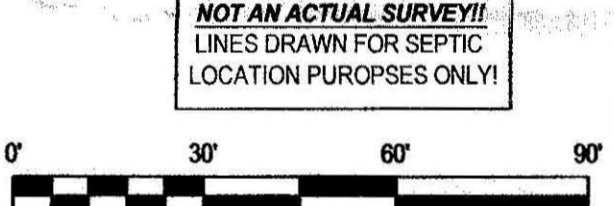




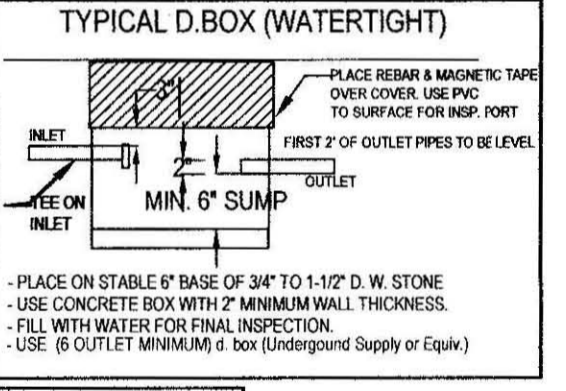
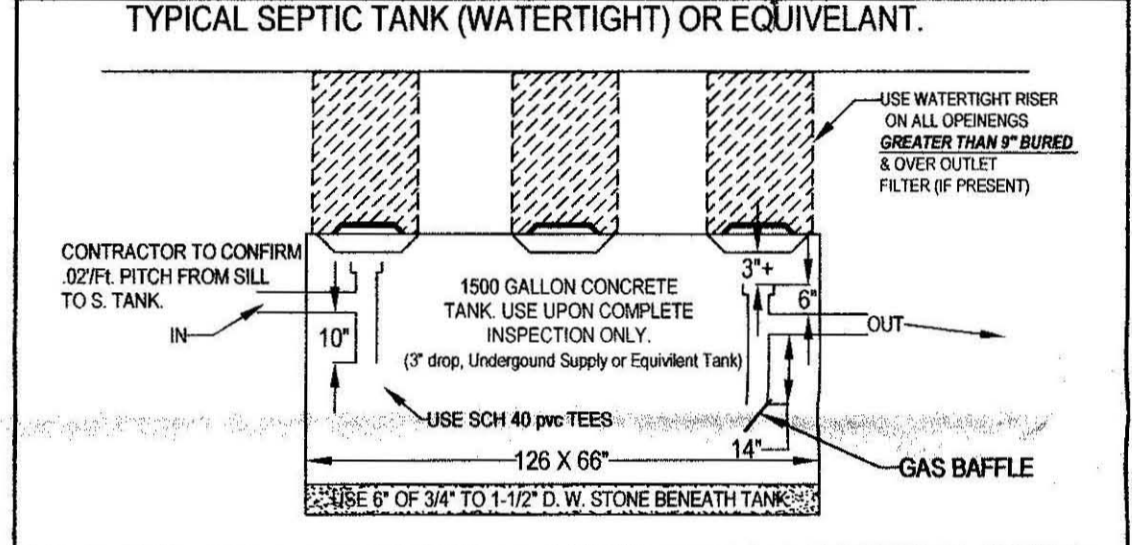
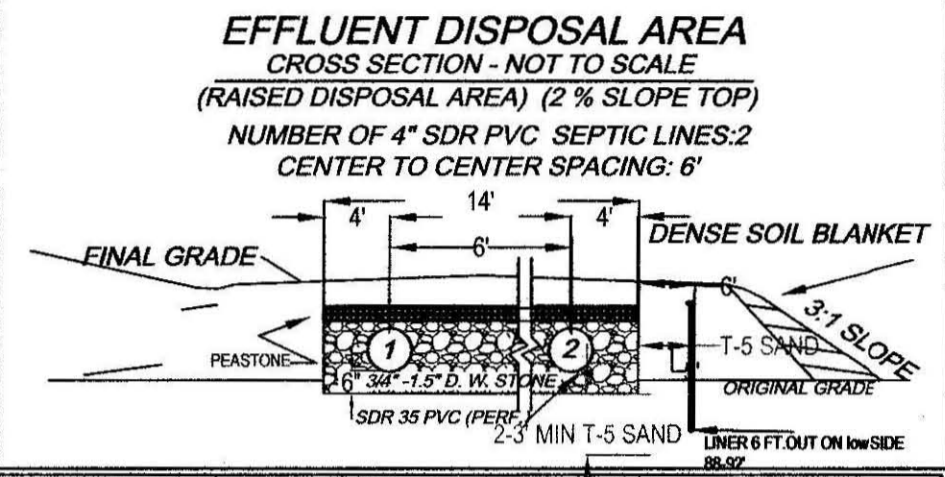
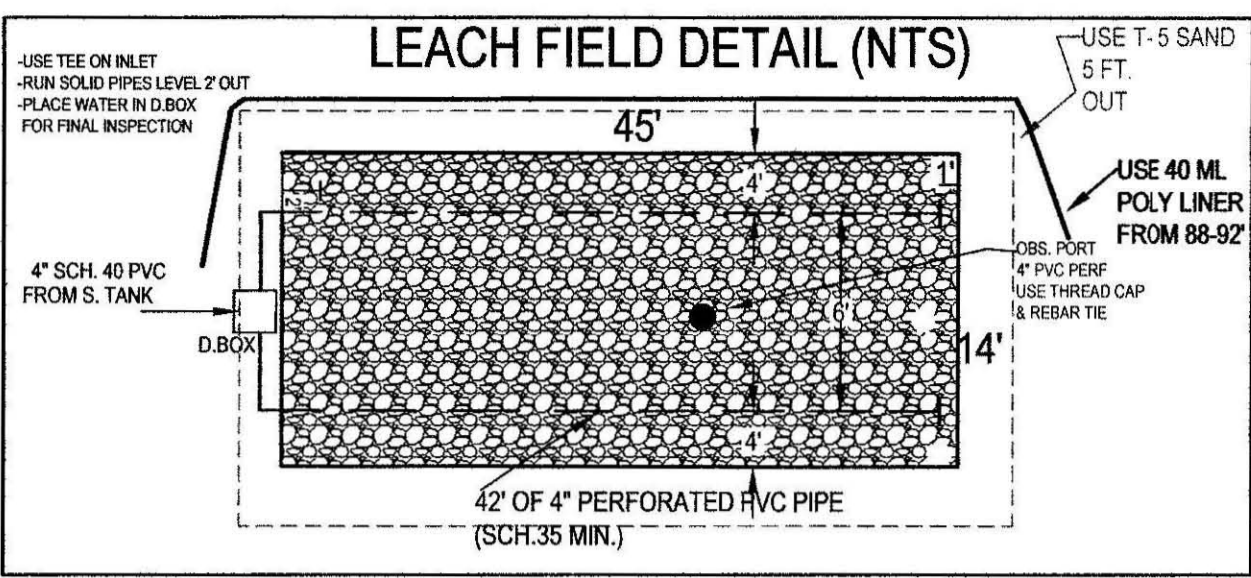
**PLOT PLAN**  
MAP 30b LOT 37  
SCALE: 1"=30'  
1.14± Ac.



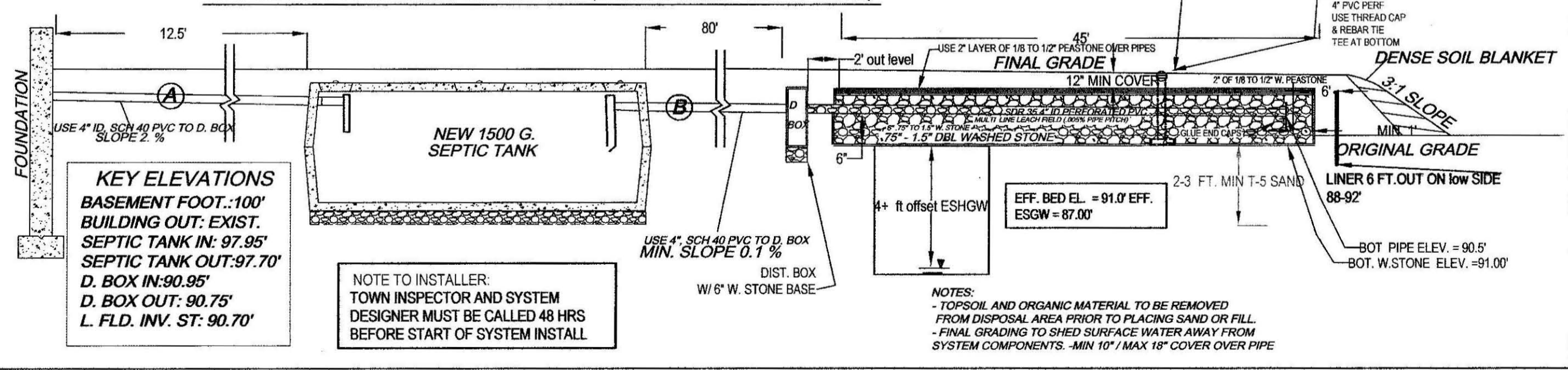
**BAY ROAD**



**NOTE TO HOMEOWNER: MOUNDS, WHERE USED, ARE REQUIRED BY STATE CODE TO MAXIMIZE THE DISTANCE FROM THE BOTTOM OF THE LEACHING FIELD TO THE TOP OF THE ESTIMATED HIGH GROUNDWATER. THIS "SEPARATION" FROM HIGH GROUNDWATER (3, 4, OR 5 FEET), IS NOT THE SAME AS THE HEIGHT OF THE FINISHED MOUND SURFACE. THE ACTUAL FINISHED MOUND IS TYPICALLY HIGHER THAN THE "SEPARATION". BY SIGNING PERMIT YOU ACKNOWLEDGE THAT COLD SPRING ENVIRONMENTAL CONSULTANTS INC. IS NOT RESPONSIBLE FOR THE AESTHETICS OF FILLED OR MOUNDED SYSTEMS.**



**EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)**



**GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.**  
1.) HAVE TANK PUMPED EVERY 2 YEARS. 2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER. 3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM. 4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.

**NOTE TO HOMEOWNER AND CONTRACTOR:**  
CONNECTIONS FROM HEATING SYSTEM, AIRCONDITIONERS, SUMP PUMPS, WATER WELL FILTRATION UNITS AND HEAT PUMPS ARE NOT ALLOWED, SANITARY WATER CONNECTIONS ONLY PERMITTED.

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

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



**SUBJECT SITE LOCATION**



**DESIGN NOTES AND CALCULATIONS:**

- 1.) 4 (BEDROOM HOME) = 440 GPD MIN. REQUIRED.  
- Use LEACHING FIELD 14' WIDE X 45' LONG WITH 6" OF 3/4" TO 1 1/2" DBL WASHED STONE BELOW INVERT :  
- BOTTOM AREA: L. FIELD (14' W X 45' L) = 630 SF.  
- TOTAL AREA: 630SF X .74 GAL/SF = 466 GPD PROVIDED.
3. GARBAGE DISPOSAL NOT PERMITTED. (A/C AND FURNACE CONDENSATE TUBES NOT ALLOWED)
4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.
5. NO OTHER WETLANDS WITHIN 100 FEET OF SAS.
6. USE NEW S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK  
- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),  
**NOTE:**  
- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
7. USE LARGE STYLE (6 OUTLET) D. BOX ONLY.
- 7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2. BOXES MUST HAVE 2"+ CONC. WALLS  
**NOTE:**  
- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.
- 7B ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.
8. -USE (.75"-1 1/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.  
-USE ONLY DBL. WASHED APPROVED (.75"-1.5") FOR PLACEMENT IN LEACH AREA.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs).
11. SLOPE CALCCS (SEE CONTOURS). SUBGRADE INSP. REQD.
13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)
14. USE 2% MIN. SLOPE OVER SAS  
- CLEAR TOP /AND SUB TO BASE OF RESTRICTIVE LAYER 28" MIN. AS NEEDED (INSPECTION REQUIRED).  
- UNDER BED: & 5 FT OUT, PRIOR TO TITLE V SAND/STONE PLACEMENT.  
- EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
15. SOIL EVALUATION BY A. WEISS, RS. (E.SMITH, BOH AGENT).  
- DEPTH OF PIERC. 41"  
- PERC RATE = 3 MIN / IN,  
- CLASS 1, F. SAND SOIL RATING
16. NO TREES WITHIN 10 FT. OF NEW LEACH AREA.
17. ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
18. BM=100.00 @ (FOOTING... as noted), CONFIRM PROPER PIPE SLOPES  
- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER SAS AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR..

**TEST PIT LOG:**

TP 1: 91'				TP 2: 91.0' ELEV:					
DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:	DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:
0-10"	Ap	FSL	10 YR 3.3	FRIABLE	0-12"	A	FSL	10 YR 3.3	FRIABLE
10-26"	Bw	LS	10 YR 5.8	VF SANDY	12-26"	Bw	LS	10 YR 5.8	FRIABLE
26-110"	C1	LS	2.5 Y 5.3	F SANDY, PLATEY.	26-110"	C1	LS	2.5 Y 5.3	F SANDY PLATEY
				10% BOULDERS AND COBBLES					10% BOULDERS AND COBBLES
OXIDES: 48-50"				2.5 Y 4.2	OXIDES: 48-50"				2.5 Y 4.2
EHWT: 48"					EHWT: 48"				
STANDING H2O: NOT					STANDING H2O: NOT				
WEEPING: 96"					WEEPING: NOT				
BEDROCK: 110"+					BEDROCK: 110"+				

**SEPTIC DESIGN PLAN FOR ROBERT AND DOROTHY ANN KENT**  
1290 BAY ROAD  
AMHERST, MA

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

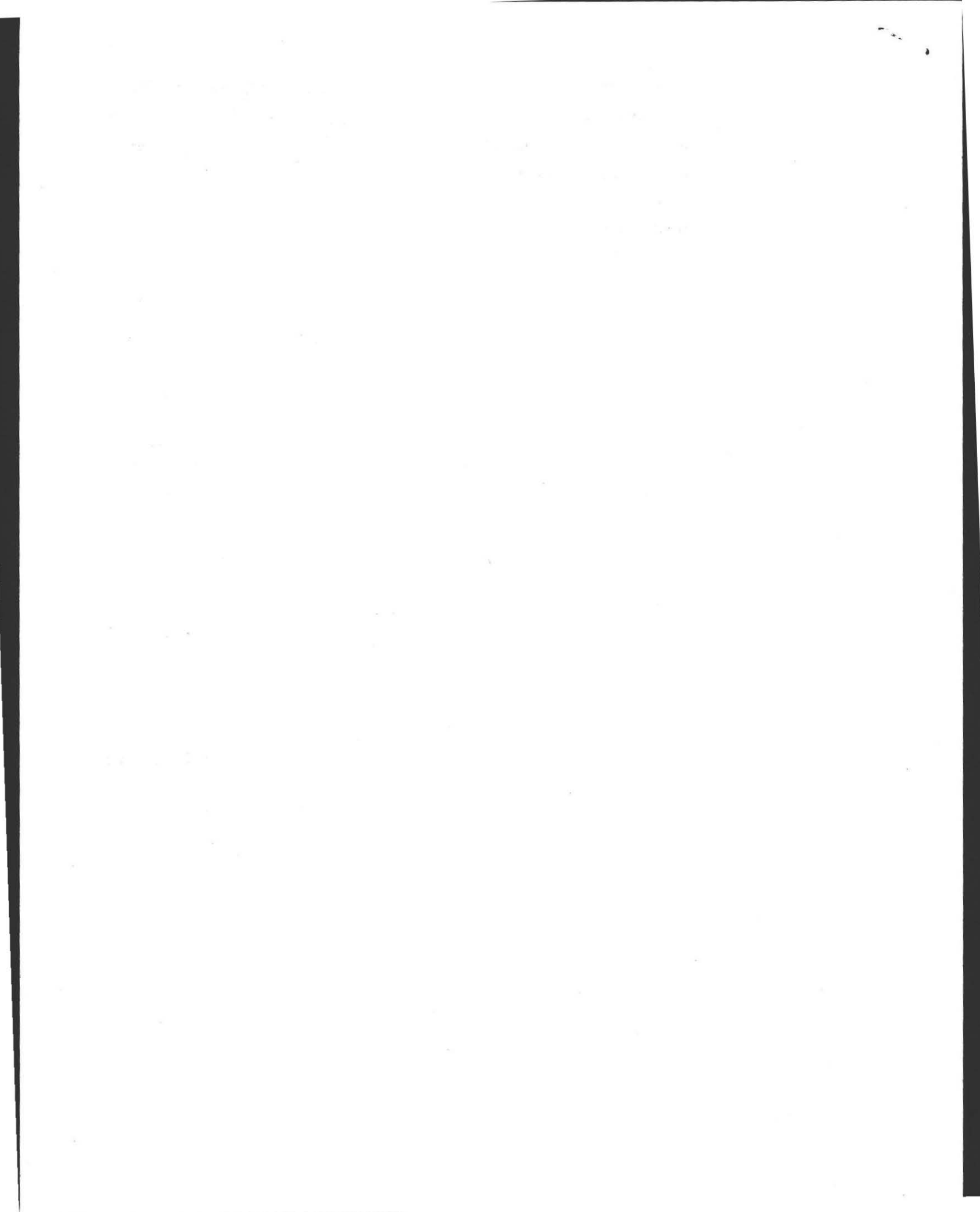
PHD NO: (413) 323-5957  
SALE: (413) 323-4916  
DATE: 07.03.2013  
SCALE: 1"=30'  
DRAWN BY: ALAN WEISS  
REVISED:  
e-Mail: ACEWES@charter.net  
DRAWING NUMBER: 113-4122-0529

PROJECT NO.: 13-14  
 CITY/TOWN: AMHERST  
 APPLICANT: Robt. + Dorothy Kent  
 ADDRESS: 1290 BAY ROAD  
 DESIGN FLOW: 440 gpd  
 REVIEWED BY: ED SMITH

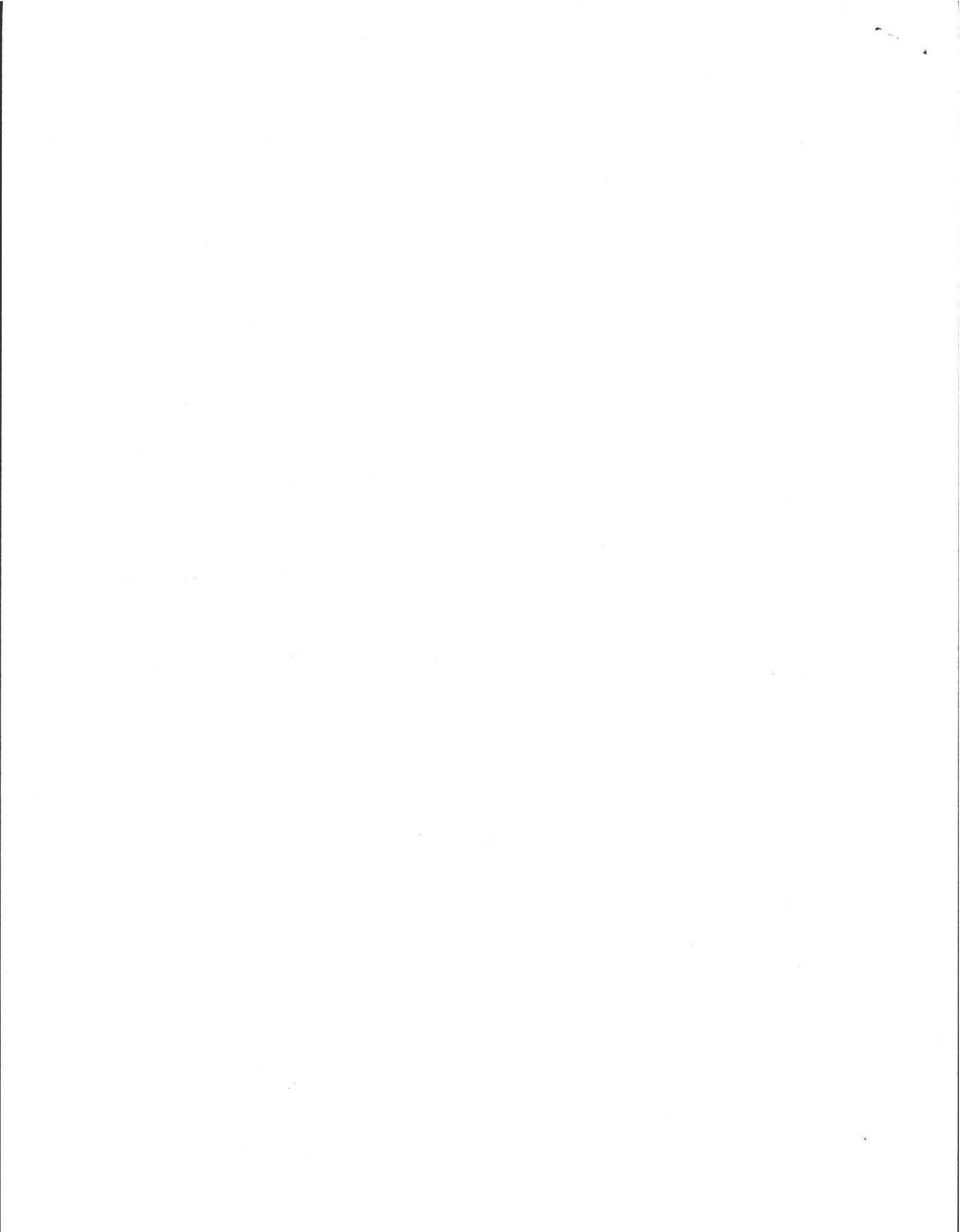
SYSTEM REPAIR PLAN  
 APPROVED 7/11/2013  
 Ed Smith

DATE: \_\_\_\_\_

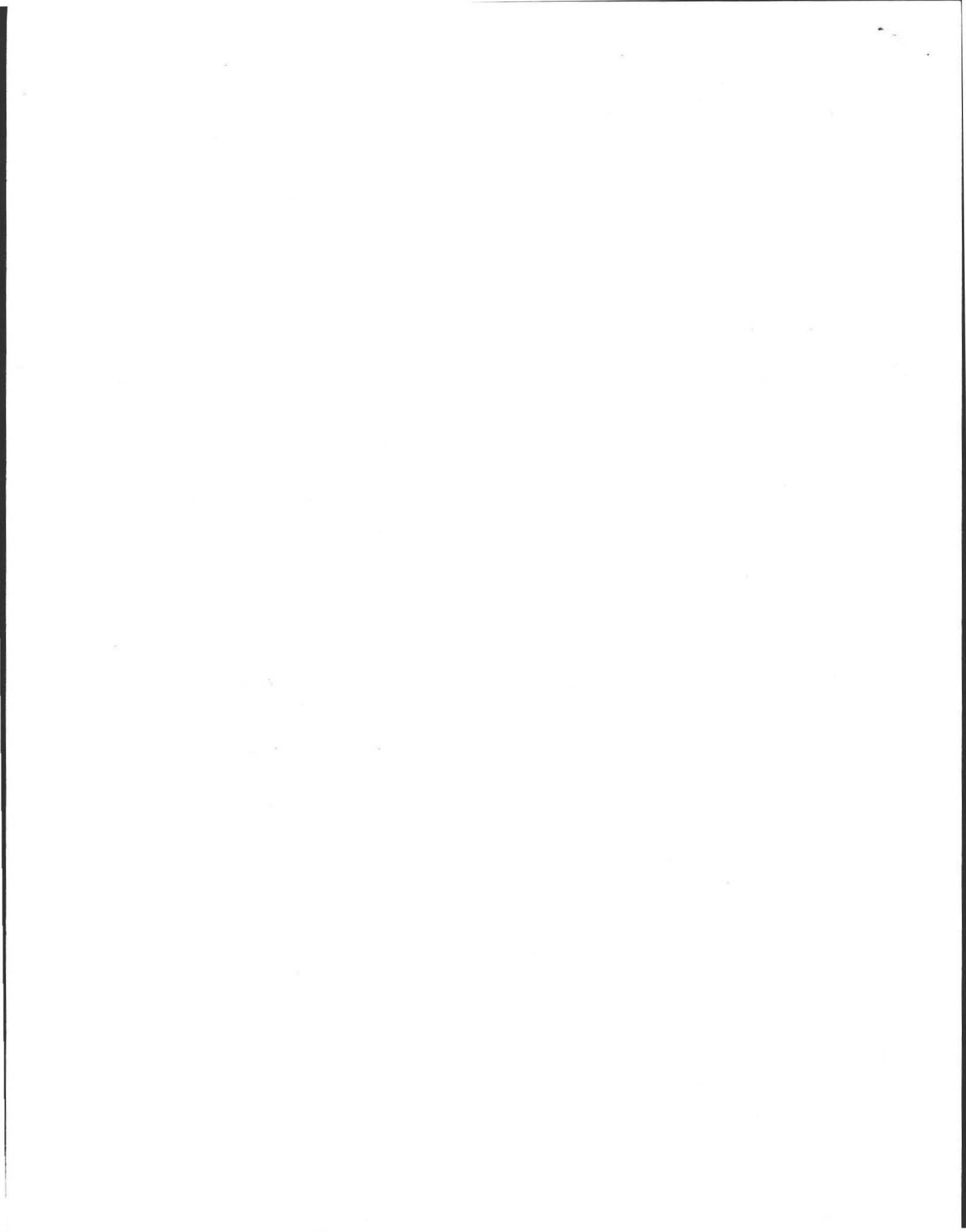
	N/A	OK	NO
<b>GENERAL</b>			
Legal boundaries denoted [310 CMR 15.220(4)(a)]		✓	
Street, Lot, tax parcel number and lot number noted on plan [310 CMR 15.220(4)(u)]		✓	
Locus Provided [310 CMR 15.220(4)(t)]		✓	
Plan proper scale? (1"=40' for plot plans, 1"= 20' or fewer for components) [310 CMR 15.220(4)]		✓	
Easements shown [310 CMR 15.220(4)(b)]		✓	NONE SHOWN
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)]		✓	
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
System Calculations [310 CMR 15.220(4)(f)]		✓	
daily flow		✓	
septic tank capacity (required and provided)		✓	
soil absorption system (required and provided)		✓	
whether system designed for garbage grinder		✓	NO GRINDER
North arrow [310 CMR 15.220(4)(g)]		✓	
Existing and proposed contours [310 CMR 15.220(4)(g)]		✓	
Location and log of deep observation holes (existing grade el. on each test) [310 CMR 15.220(4)(h)]		✓	
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) (j)]		✓	
Observed and Adjusted groundwater (method for adjustment given or indicated) [310 CMR 15.103(3) and 310 CMR 15.220(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		✓	
within 150 feet of the proposed system location in the case of private water supply wells		✓	
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)]		✓	
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 CMR 15.220(4)(o)]		✓	
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)]	✓		
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)]		✓	REPAIR
Test hole adequate to demonstrate four feet of suitable material? [310 CMR 15.103(4)]		✓	
Test Holes adequate to confirm adequate groundwater separation? [310 CMR 15.103(3)]		✓	
Benchmark within 50-75' of system [310 CMR 15.220(4)(q)]		✓	
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)		✓	
<b>SEPTIC TANK</b>			
	N/A	OK	No
Size OK? [310 CMR 15.223(1)]		✓	
Inlet tee located ten inches below flow line [310 CMR 15.227(6)]		✓	
Outlet tee 14" or 14" + 5" per foot for increase ft depth [310 CMR 15.227(6)]		✓	
Outlet tee with gas baffle or approved filter [310 CMR 15.227(4)]		✓	
Note regarding installation on stable compacted base [310 CMR 15.228(1)]		✓	

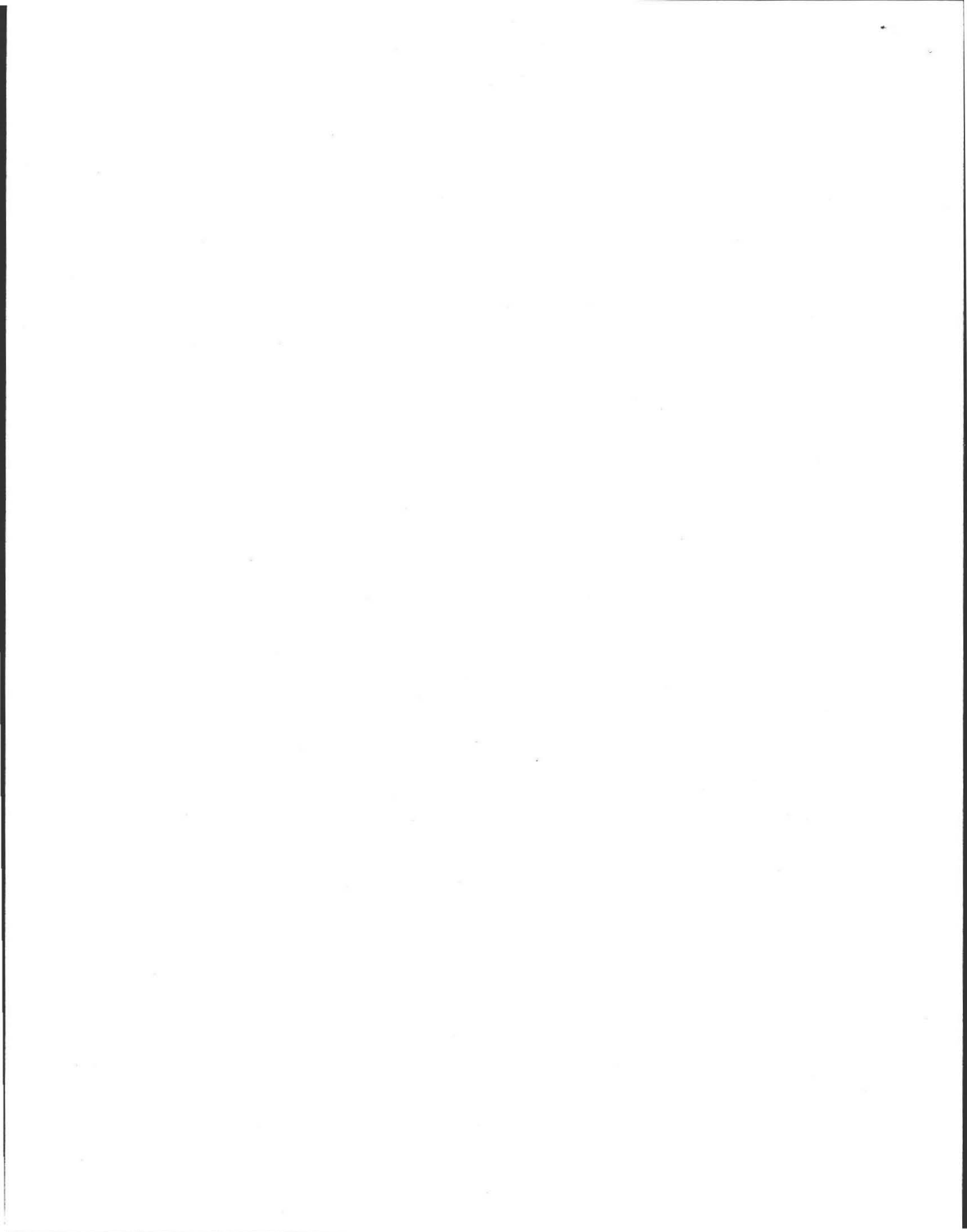


Separation between inlet and outlet tees (no less than liquid depth) [310 CMR 15.227(2)]		✓	
Inlet/Outlet elevations at least 12" above high groundwater (except as described 310 CMR 15.227(5)) or permitted for upgrades under LUA [310 CMR 15.405(1)(k)]		✓	
Minimum cover 9" (Tanks buried more than 9" must have risers 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) - middle access at least 8" (by 7/07) [310 CMR 15.228(2)]		✓	
Access to within 6 " of grade - one port for systems <1000gpd, two for systems >1000 gpd [310 CMR 15.228(2)]		✓	
All at-grade covers secured to unauthorized access? [310 CMR 15.228(2)]		✓	
> 10 ft from building foundation [310 CMR 15.211(1)]		✓	
Buoyancy calculation Required/Done [310 CMR 15.221(8)]	✓		
H-20 Where appropriate? [310 CMR 15.226(3)]	✓		
Setbacks from resources [310 CMR 15.211]		✓	
<b>Multi-Compartment Tanks</b>			
Required when other than single-family dwelling or flow >1000 gpd [310 CMR 15.223(1)(b)]	✓		
First compartment 200% daily flow; Second compartment 100% daily flow [310 CMR 15.224(2) and (3)]	✓		
"U" pipe through or over baffle, outlet of each compartment with gas baffle or approved filter [310 CMR 15.224(4)]	✓		
<b>BUILDING SEWER AND OTHER PIPING</b>	N/A	OK	No
Located at least ten feet from any water line? [310 CMR 15.222(2)]		✓	
Disposal piping at least 18" below water line (when water and sewer 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)]	✓		
Slope of sewer line not less than 0.01 (1/8"/ft) 0.02 preferable [310 CMR 15.222(6)]		✓	
Proper pitch on all runs? (.005 within gravity-distributed trenches and beds) [310 CMR 15.251(9) and 310 CMR 15.252(2)(c)]		✓	
Siphon problem/ (leachfield below pump chamber)	✓		
Endcaps or vent manifold specified?		✓	
Size and orientation of discharge holes specified? (not smaller than 3/8" not larger than 5/8") [310 CMR 15.251(8) and 310 CMR 15.252(2)(h)]		✓	
Materials specified (310 CMR 15.251(5) specifies various pipe types allowed)		✓	
<b>DISTRIBUTION BOX</b>			



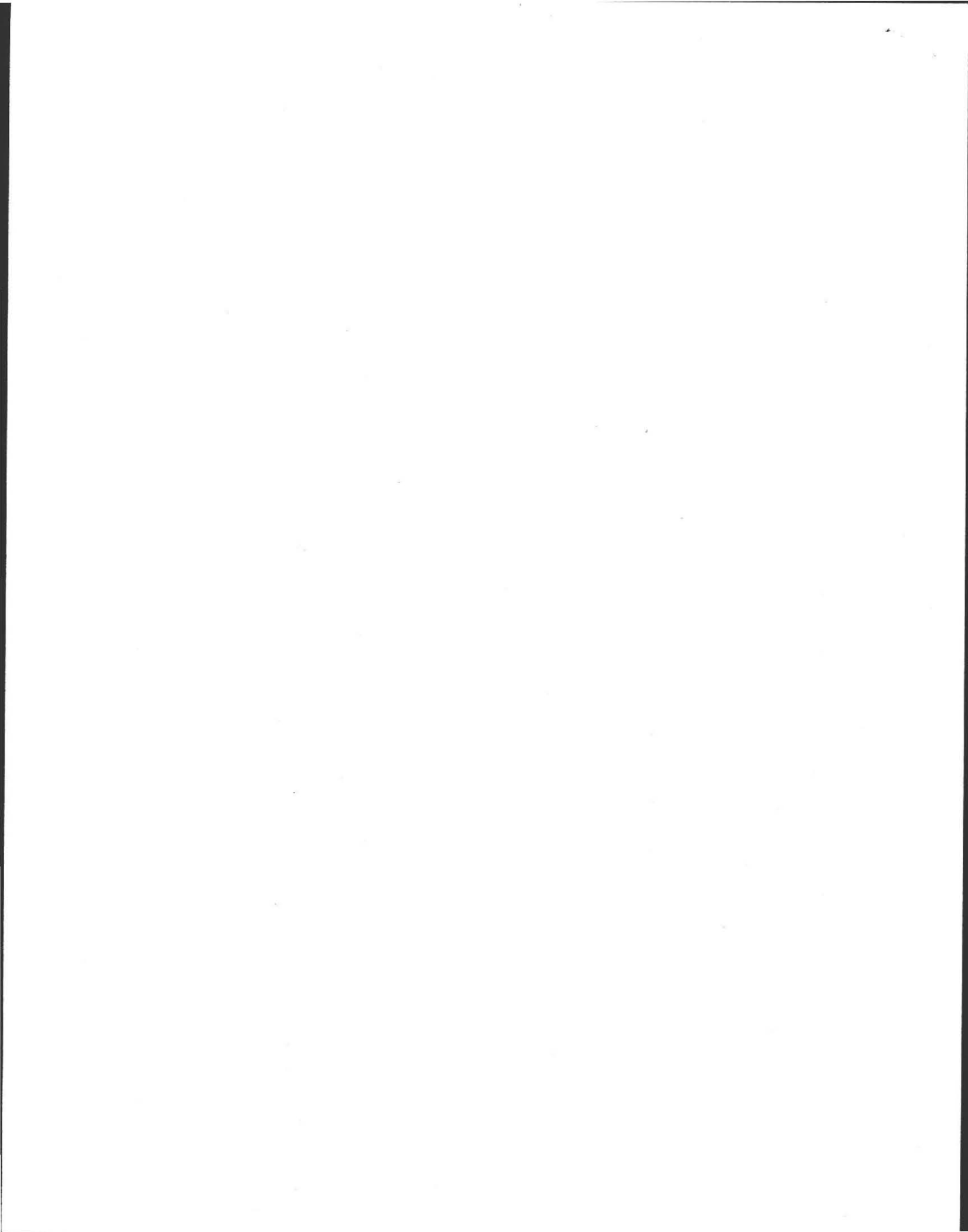
Stable compacted base [310 CMR 15.221(2) and 310 CMR 15.232(2)(a)]		✓	
Splash plate or baffle tee required on inlet/ provided? (when pressure sewer to d-box or steep pitch of gravity sewer) [310 CMR 15.323(3)(a)]	✓		
Riser if deeper than 9" [310 CMR 15.232(3)(f)]		✓	
Inside minimum dimension 12" [310 CMR 15.232(2)(b)]		✓	
Minimum sump 6" [310 CMR 15.232(3)(e)]		✓	
Watertight cover if <2000gpd; waterproof manhole if >2000gpd [310 CMR 15.232(3)(d)]		✓	
<b>PUMP CHAMBERS</b>			
Capacity (emergency storage above working=design flow)? [310 CMR 231(2)]	✓		
Proper setbacks [310 CMR 15.211 (same as septic tanks)]	✓		
Watertight 20-in minium access manhole at least 20" MUST BE TO GRADE [310 CMR 15.231(5)]	✓		
Service components accessible (not too deep with piping, disconnects accessible)	✓		
Alarm floats - alarm on circuit separate from pumps specified?	✓		
Exceeds two units must have two pumps operating in lead-lag mode. [310 CMR 15.231(6) and (8)]	✓		
Stable Compacted Base [310 CMR 15.221(2)]	✓		
Buoyancy calculations needed ? Provided? [310 CMR 15.221 (8)]	✓		
Dosing chamber capacity (required and provided), pump curves and specifications, number of dosing cycles and depth per cycle? [310 CMR 15.220(4)(r )]	✓		
Effluent tee filter provided? [310 CMR 15.231(10)]	✓		
<b>SOIL ABSORPTION SYSTEMS (SAS) GENERAL</b>	N/A	OK	No
Calculations correct?		✓	
4 feet of naturally occurring material demonstrated? [310 CMR 15.240(1)]		✓	
Required separation to groundwater? [310 CMR 15.212)]		✓	
Aggregate specified as double washed [310 CMR 15.247(2)]		✓	
System Venting required/provided? (system under driveway or >36" deep) [310 CMR 15.241]	✓		
Inspection ports specified and within 3"final grade? [310 CMR 15.240(13)]		✓	
Breakout requirements met? (No violation of breakout elevation within 15 ft of SAS unless barrier) [310 CMR 15.211(1)[4] and Guidance Document]		✓	
<b>GALLERIES,PITS,CHAMBERS 310 CMR 15.253</b>			
Chambers and Gal. in trench configuration supplied with inlet every 20 ft. [310 CMR 15.253(6)]	✓		
Each structure with one inspection manhole (if >2000 gpd must be to grade) [310 CMR 15.253(2)]	✓		



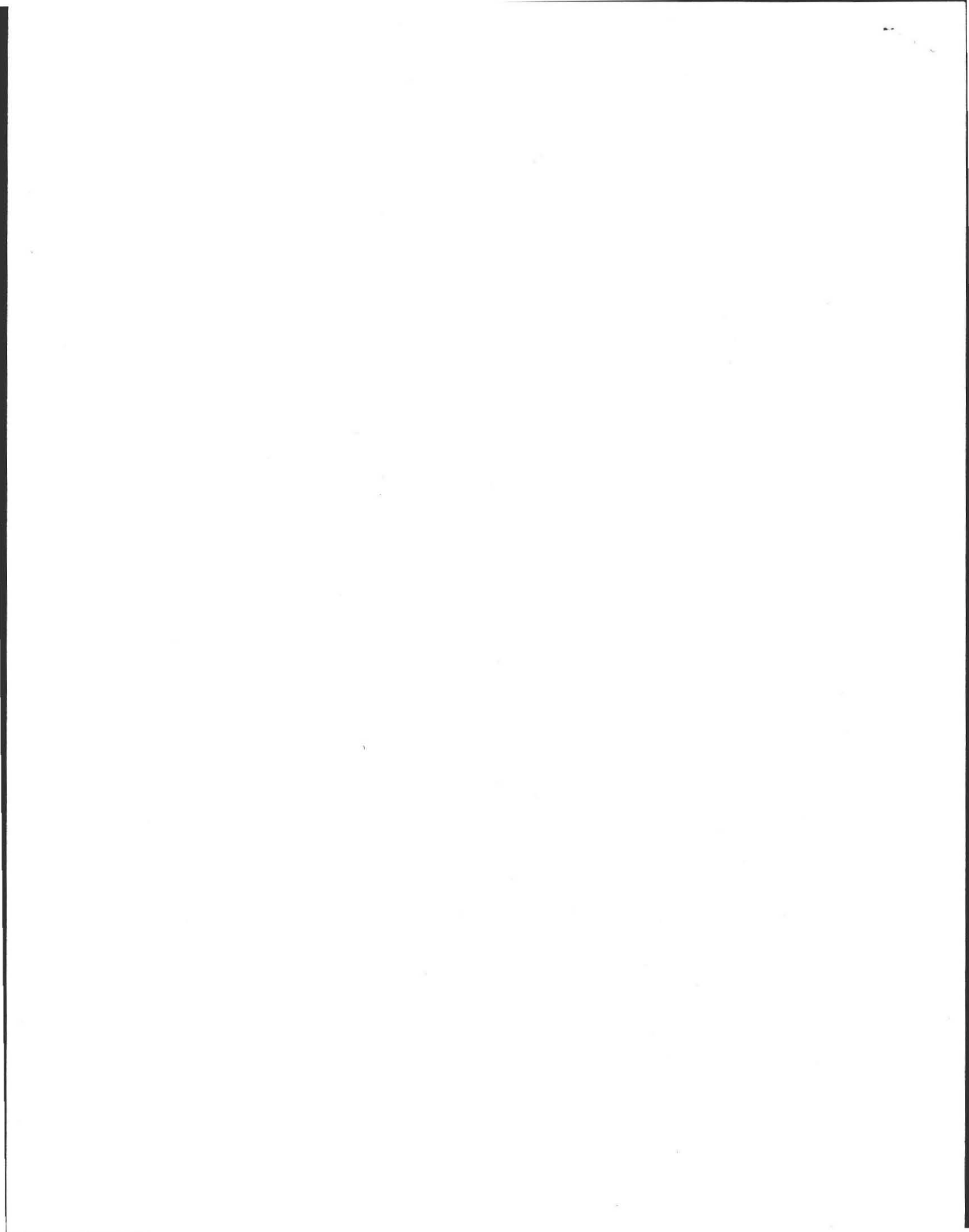


Aggregate 1' minimum- 4' maximum. [310 CMR 15.253(1)(b)]	✓		
2' sidewall credit maximum [310 CMR 15.253(1)(a)]	✓		
In bed configuration, inlet every 40 sq. ft. [310 CMR 15.253(6)]	✓		
<b>TRENCHES 310 CMR 15.251</b>			
Width 2' minimum 3' maximum [310 CMR 15.251(1)(b)]	✓		
100 feet - maximum length [310 CMR 15.251(1)(a)]	✓		
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]	✓		
<b>BED SAS (Maximum size of bed or field 5000 gpd)</b>			
minimum 2 distribution lines [310 CMR 15.252(2)(a)]		✓	
Maximum separation between lines 6' [310 CM R15.252(2)(d)]		✓	
Maximum separation between lines and outside of bed 4' [310 CMR 15.252(2)(e)]		✓	
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)]	✓		
Bottom area used in calculations only [310 CMR 15.252(2)(i)]		✓	
<b>DID THE PLAN INVOLVE</b>	N/A	OK	No
<i>Pressure Dosed System ? Provided pump and piping calculations as required [310 CMR 15.220(4)(r)]</i>	✓		
<i>Groundwater Separation Per 310 CMR 15.240(12) does the groundwater separation take into account mounding.</i>	✓		
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)]	✓		
<i>Construction in fill - Did the plan specify that the fill shall meet the specification of 310 CMR 15.255(3)?</i>	✓		
Impervious barrier and/or retaining wall ? [Guidance Document]	<del>✓</del>	✓	
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)]	✓		
Side slope not exceed 3:1 ? [310 CMR 15.255(2)]		✓	
Breakout requirements met? [310 CMR 15.252(2) and Guidance Document]		✓	
At least 5 ft. from impervious barrier to edge of SAS (10 ft. recommended) [310 CMR 15.255 (2)(e)]		✓	

5' away



<i>Gravelless System [I/A Approval Letters]</i>			
Check DEP Approval letters for credits and design conditions	✓		
If used with pressure dosing do not allow pressure discharge to scour soil interface	✓		
<i>Alternative Septic System [I/A Approval Letters]</i>			
Was DEP Approval Letter provided and/or have you reviewed the letter for conditions?	✓		
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?	✓		
Any alarms involved on separate circuits	✓		
Did the applicant submit an operation and maintenance manual?	✓		
Has applicant submitted a copy of a maintenance agreement?	✓		
<i>Variiances</i>			
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]	✓		
<i>Nitrogen Sensitive Areas</i>			
	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)]	✓		
Are the nitrogen loads proposed in compliance? [310 CMR 15.216(1)]	✓		
<i>Miscellaneous</i>			
Pumping to septic tank ? [ 310 CMR 15.229]	✓		
Shared System [310 CMR 15.290]	✓		





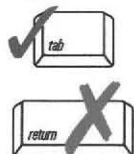
Commonwealth of Massachusetts  
 City/Town of Amherst  
**Application for Disposal System  
 Construction Permit**  
 Form 1A

*Town Copies*  
 13-14  
 Number  
 \$-- 150  
 Fee

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

**A. Facility Information**

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



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

1. Location of Facility:

1290 Bay Road  
 Address or Lot #  
 AMherst MA 01002  
 City/Town State Zip Code

2. Owner Information

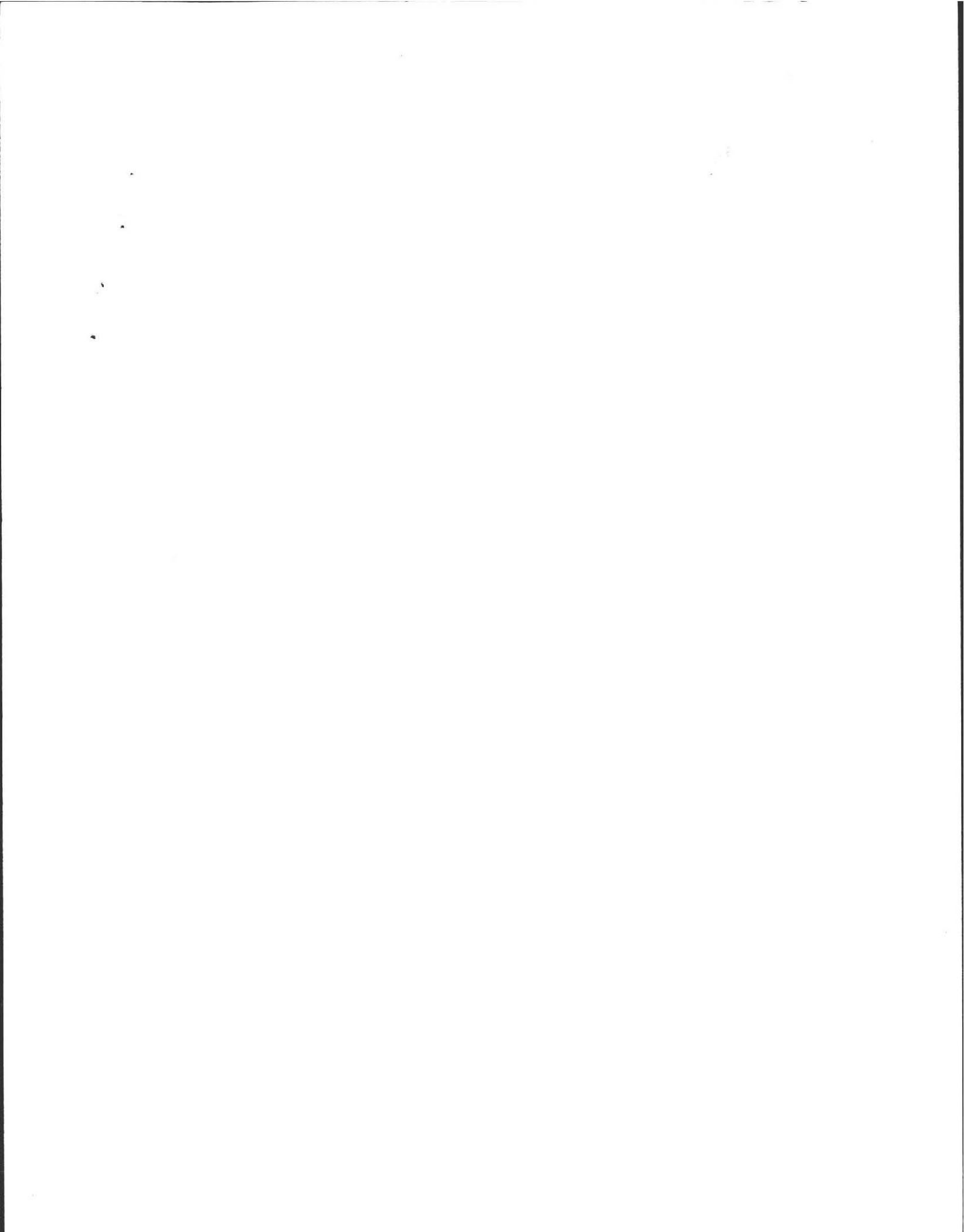
Robert and Dorothy Ann Kent  
 Name  
 Address (if different from above)  
 Amherst MA 01002  
 City/Town State Zip Code  
 413-253-3070  
 Telephone Number

3. Installer Information

Rob Adair Adair Const  
 Name Name of Company  
 Address  
 Amherst MA 01002  
 City/Town State Zip Code  
 531-7921  
 Telephone Number

4. Designer Information

Alan Weiss, RS Cold Spring Environmental Consultants Inc.  
 Name Name of Company  
 350 Old Enfield Road  
 Address  
 Belchertown MA 01007  
 City/Town State Zip Code  
 413-531-4015  
 Telephone Number





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

Number \_\_\_\_\_  
 \$-- \_\_\_\_\_  
 Fee \_\_\_\_\_

**A. Facility Information** (continued)

5. Type of Building:

Dwelling

Garbage Grinder (check if present)

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

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

Showers

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

Cafeteria

Other fixtures

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

6. Design Flow:

4 Bedroom= 440 GPD

Gallons per Day

Calculated Daily Flow:

466

Gallons

7. Plan:

07.03.2013

Date of Original

1

Number of Sheets

Revision Date

Septic System Plan

Title of Plan

8. Description of Soil:

FS/LS

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

New Leach area and septic tank due to failure condition.

10. Date last inspected:

-  
Date



1  
2  
3  
4  
5



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

Number \_\_\_\_\_

\$-- \_\_\_\_\_  
 Fee

**B. Agreement**

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

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

Application Approved By:

\_\_\_\_\_  
 Name

\_\_\_\_\_  
 Date

Application **Disapproved** for the following reasons:

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

10

11



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

Licensed Site Professional  
Registered Sanitarian  
Hydrogeologist  
President

- Wetland Consults
- Soil and Water Testing
- 21E Site Investigations
- Percolation Tests and Septic Designs
- Title 5 Inspections

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

aweiss@charter.net

Date: 5/29/13

Commonwealth of Massachusetts  
Aubur, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: Alan Weiss

Date: 5/29/13

Witnessed By: Ed. Smith

Location Address or Lot # <u>Map 32B, Lot 37</u> <u>1290 Bay St</u>	Owner's Name, Address, and Telephone # <u>Robert Gout</u> <u>1290 Bay St.</u> <u>Aubur, MA</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available: No  Yes

Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_ Soil Map Unit \_\_\_\_\_

Drainage Class \_\_\_\_\_ Soil Limitations \_\_\_\_\_

Surficial Geologic Report Available: No  Yes

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

Geologic Material (Map Unit) Kare Terrace

Landform \_\_\_\_\_

Flood Insurance Rate Map:

Above 500 year flood boundary No  Yes

Within 500 year flood boundary No  Yes

Within 100 year flood boundary No  Yes

Wetland Area:

National Wetland Inventory Map (map unit)

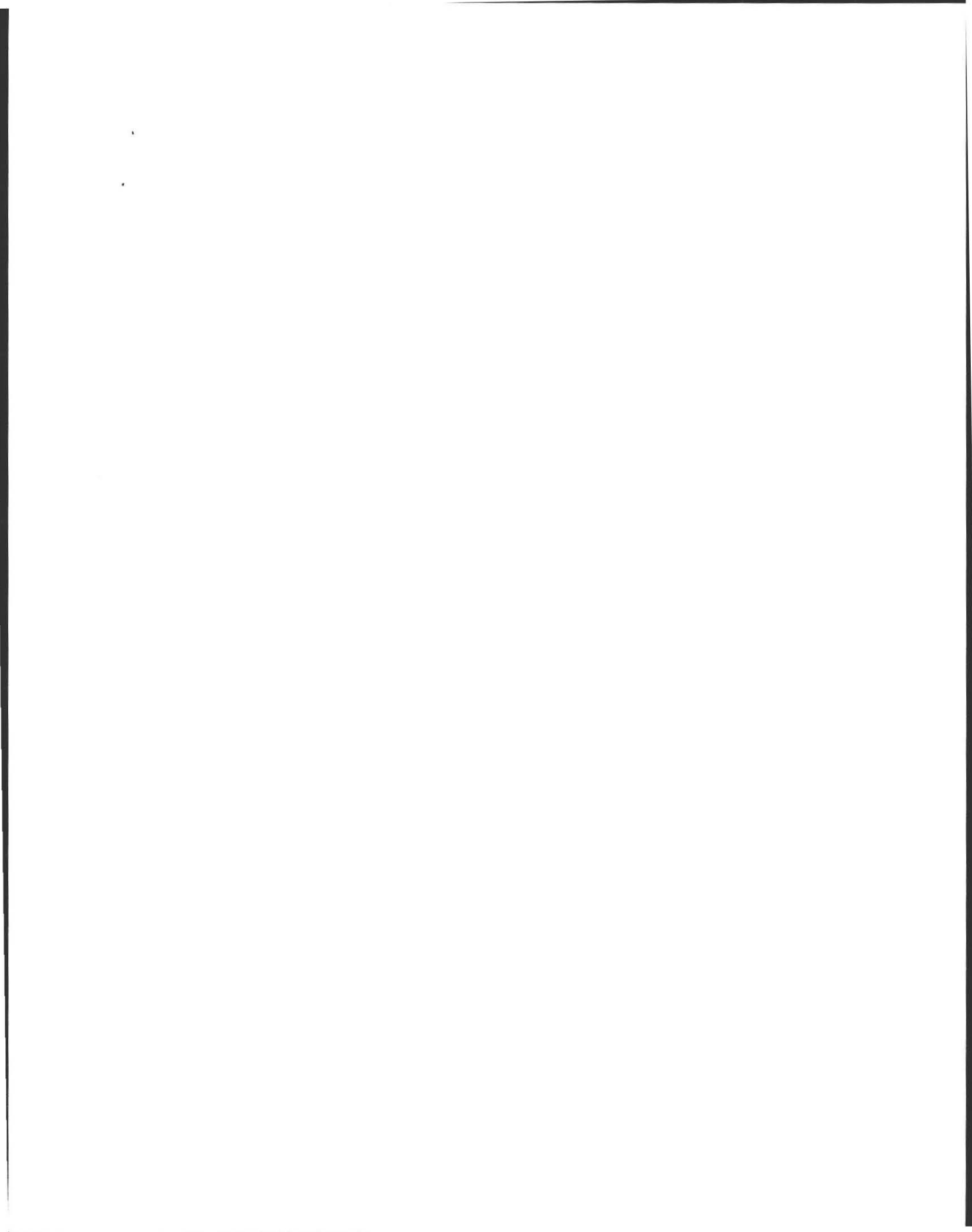
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range : Above Normal  Normal  Below Normal

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





Location Address or Lot No. 1290 Bay Rd.

# COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: ..	<u>5/29/13</u>	Time: <u>1:45 pm</u>
Observation Hole #	<u>P1</u>	
Depth of Perc	<u>41"</u>	<u>Repair</u>
Start Pre-soak	<u>1:56</u>	
End Pre-soak	<u>2:11</u>	
Time at 12"	<u>2:11</u>	
Time at 9"	<u>2:18</u>	
Time at 6"	<u>2:27</u>	
Time (9"-6")	<u>9</u>	
Rate Min./Inch	<u>3 min/in</u>	

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

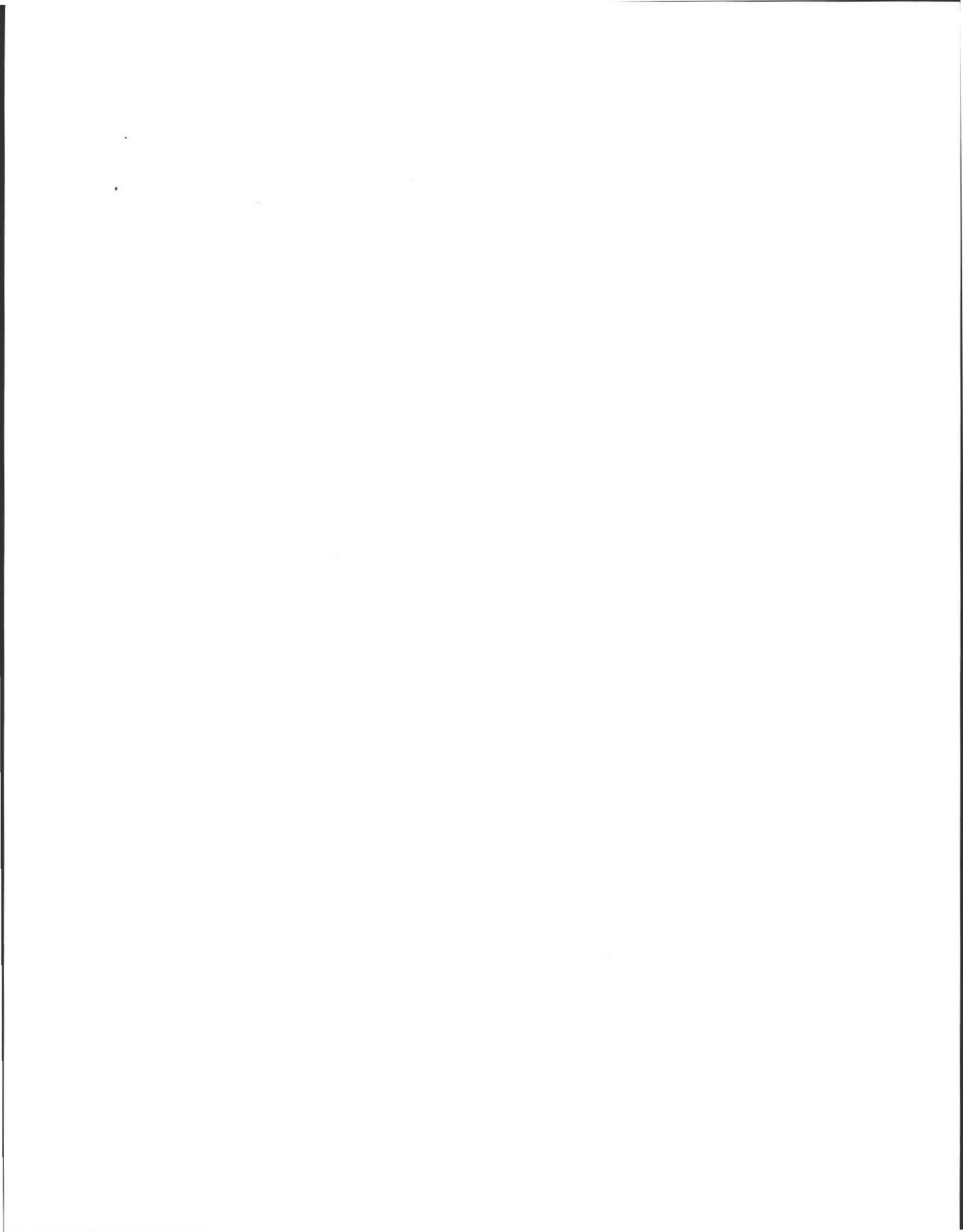
Site Passed  Site Failed

Performed By: Alan Weiss RS

Witnessed By: Ed Smith

Comments:





Location Address or Lot No. 1290 Bay RD

On-site Review

Deep Hole Number 1+2 Date: 5/29/13 Time: 1:30 Weather SW 80°F

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

Land Use Res. Slope (%) 2 Surface Stones yes

Vegetation grassed

Landform tree faced

Position on landscape (sketch on the back) . . .

Distances from:

Open Water Body 50+ feet Drainage way 50+ feet

Possible Wet Area 100+ feet Property Line 50+ feet

Drinking Water Well 50+ feet Other \_\_\_\_\_

DEEP OBSERVATION HOLE LOG\*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1 0-10" 10-26" 26-110"	AP	FSL	10YR 3/3	2.54 1/2 48-50"	- Forable.
	BW	LS	10YR 5/8		- V. S. Sandy
	C1	LS	2.54 5/3		- f. sandy platy. Fine w/d depth.
#2 0-12" 12-26" 26"-110"	AP	FSL	10YR 3/3	2.54 1/2 48-50"	
	BW	LS	10YR 5/8		
	C1	LS	2.54 5/3		

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

Parent Material (geologic) residual outwash

Depth to Bedrock: 110" f

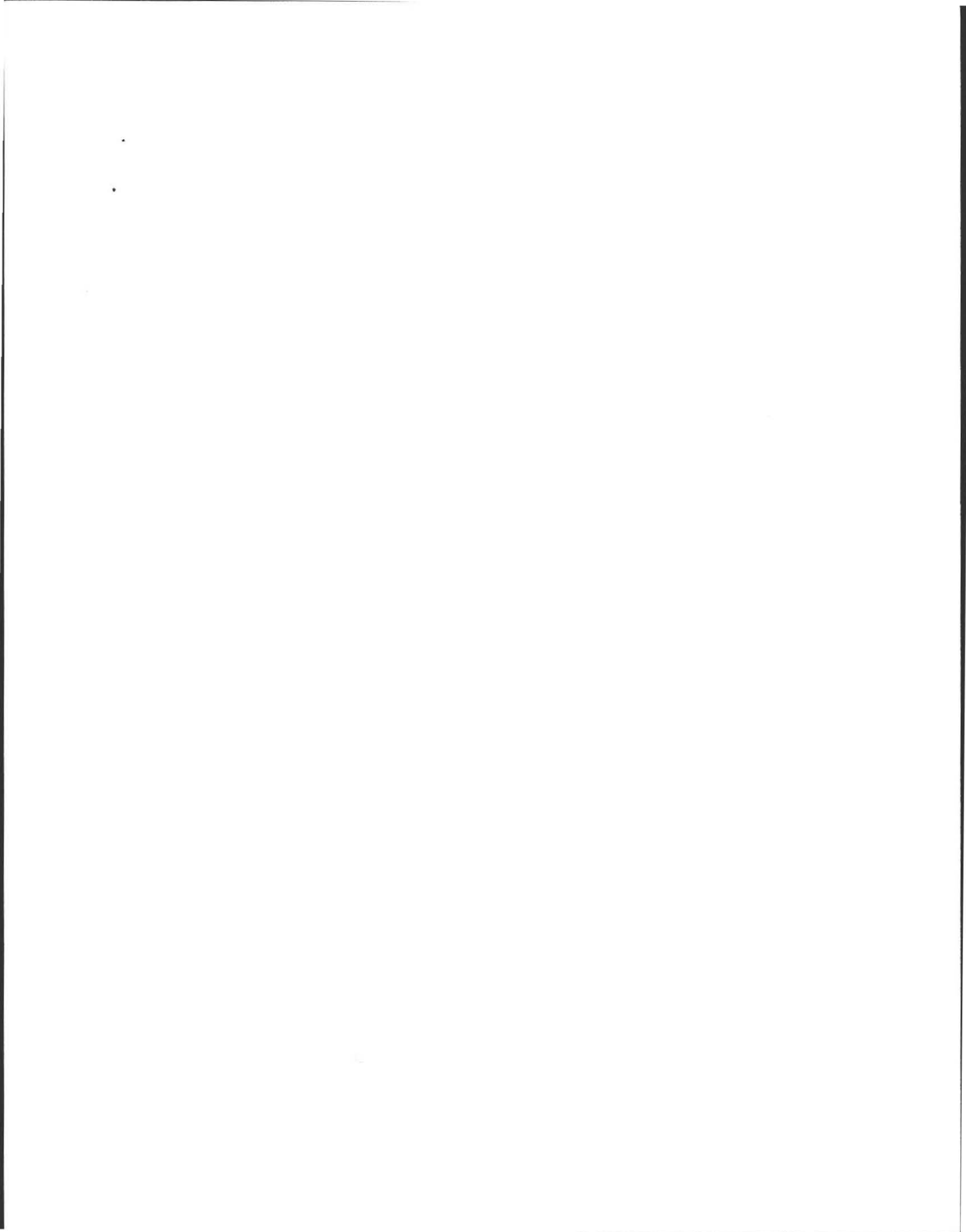
Depth to Groundwater: Standing Water in the Hole: not

Weeping from Pit Face: not

Estimated Seasonal High Ground Water: 48"

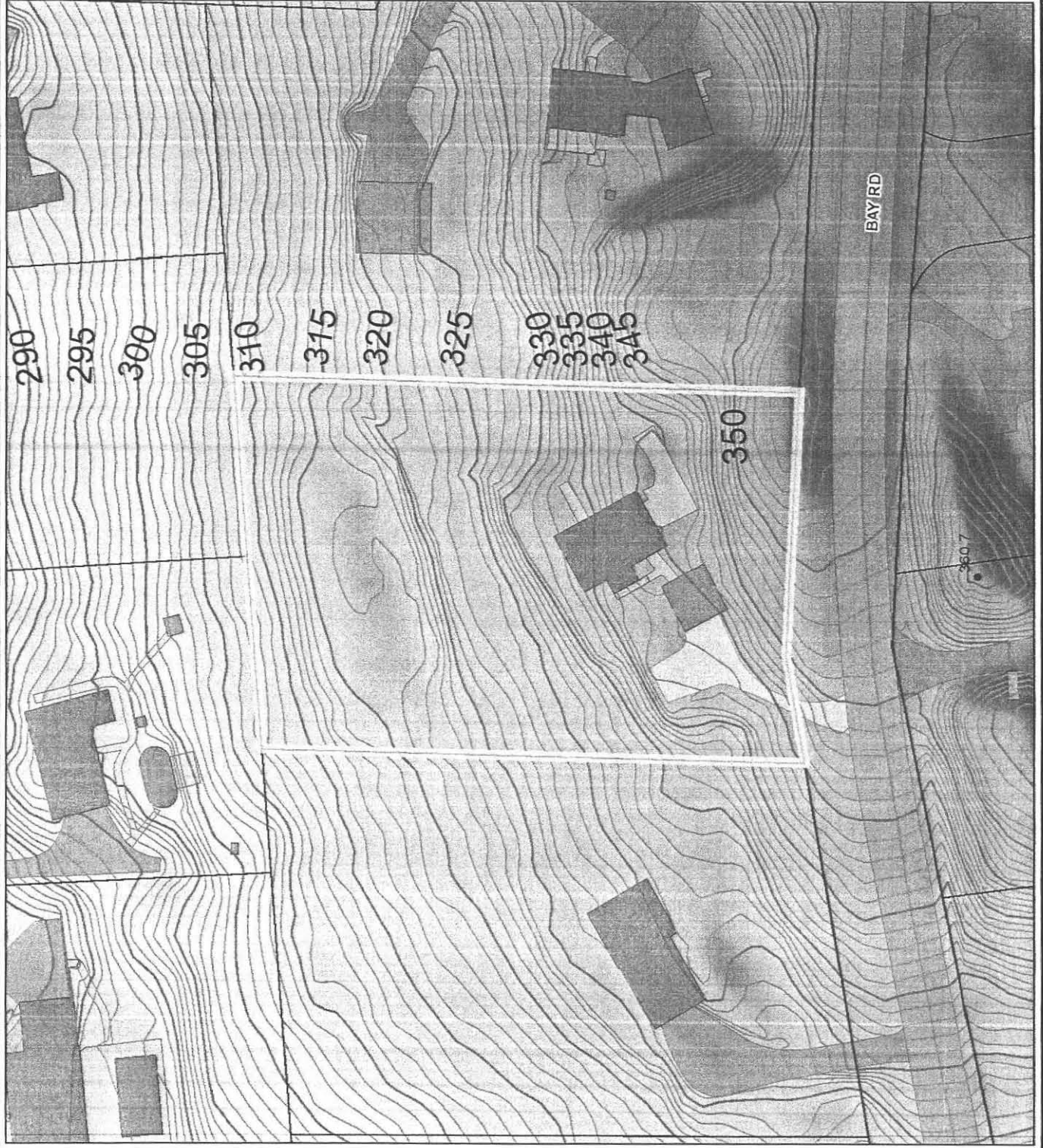








- Property Map**
  - Property Lines
  - Property Line
  - Hydrographic Property
  - Right of Way Line
  - Town Boundary
  - Easements
- Topography**
  - Elevations
  - Elevation Contours
  - Intermediate
  - Index
- Basemap**
  - Trails
  - Rail Lines
  - Structures
  - Building
  - Foundation or in construction
  - Outbuilding or Miscell
  - Deck, Porch, Stairs or
  - Mobile home, Trailer
  - Swimming Pool
  - Building Ruins
  - Water storage tank
  - Rivers and Streams
  - Streams
  - Major Culverts
  - Hydro Connector
  - Headwalls, Floodwalls
  - Water Bodies
  - Dams
  - Rivers, Ponds & Rese
  - Retention ponds/Flo
  - Wetland
  - Forested Wetland
- Transportation**
  - Paved street polygons
  - Unpaved street polyg
  - Bridges
  - Bridge decking and str
  - Foot Bridge
  - Rail Bridge
- Streets**
  - Local Roads
  - Major Roads
  - State Routes
  - Interchange or in con
  - EOT Roads
  - Limited Access Highw
  - Multi-lane Hwy, not li
  - Other Numbered High
  - Major Road, Collector
  - Minor Road, Arterial
- Parking**
  - Parking Paved
  - Parking Unpaved
- Driveways**
  - Driveway Paved
  - Driveway Unpaved
- Sidewalks**
  - Sidewalks



Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet  
 Vertical Datum: NAVD83, Feet

Planimetric & topographic basemap features compiled at 1"=40' scale from April, 2009 Aerial Photography. Parcels compiled to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures and underground utility locations are approximate and require field verification.

THE TOWN OF AMHERST MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE TOWN OF AMHERST DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.



1" = 68 ft

Amherst GIS Viewer

May 10, 2013

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Location Address or Lot No. 1290 Bay 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 48-50' inches
- Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

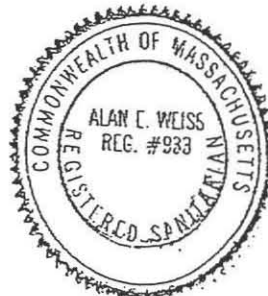
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

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

Certification

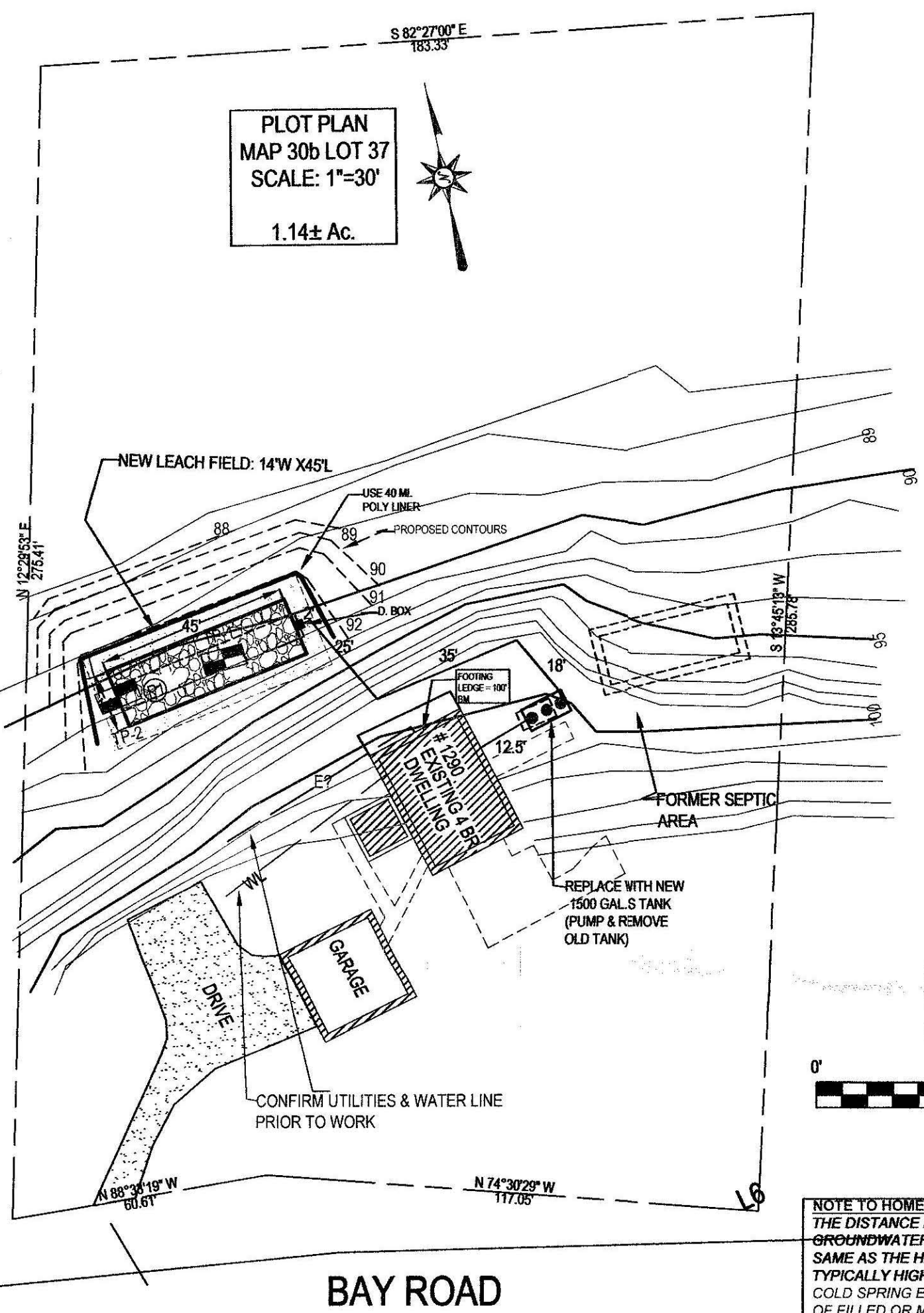
I certify that on 6/95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature *AL* Date 5/29/13

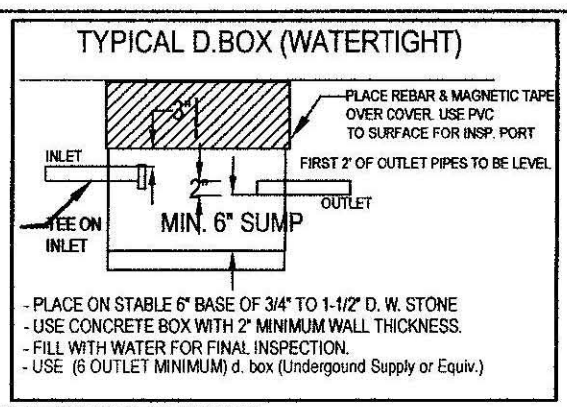
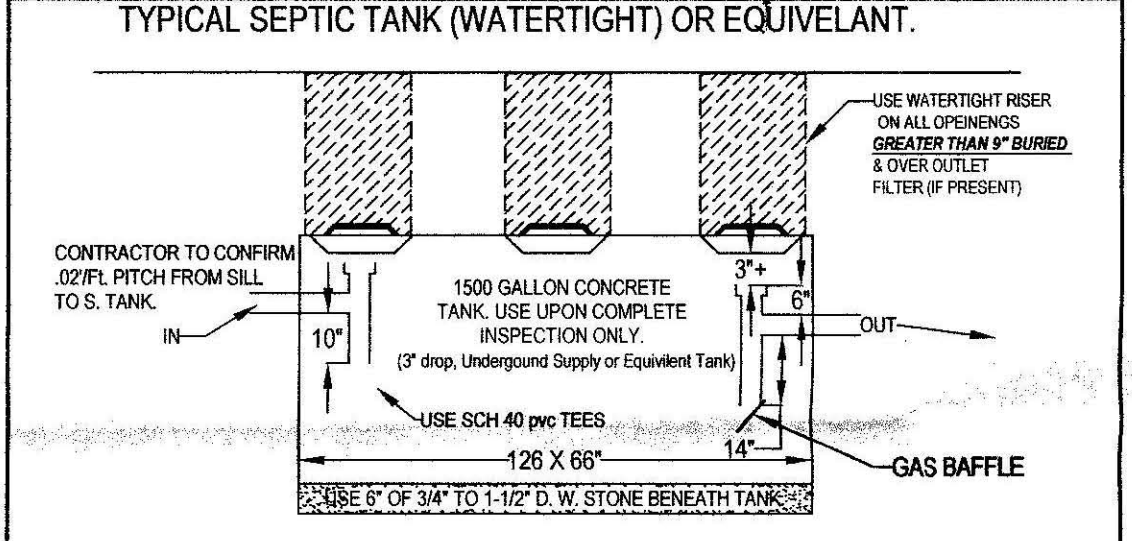
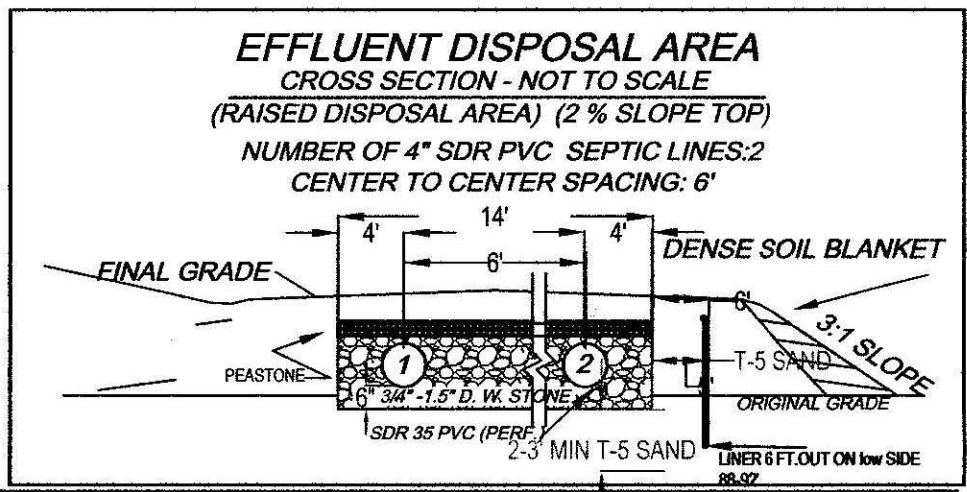
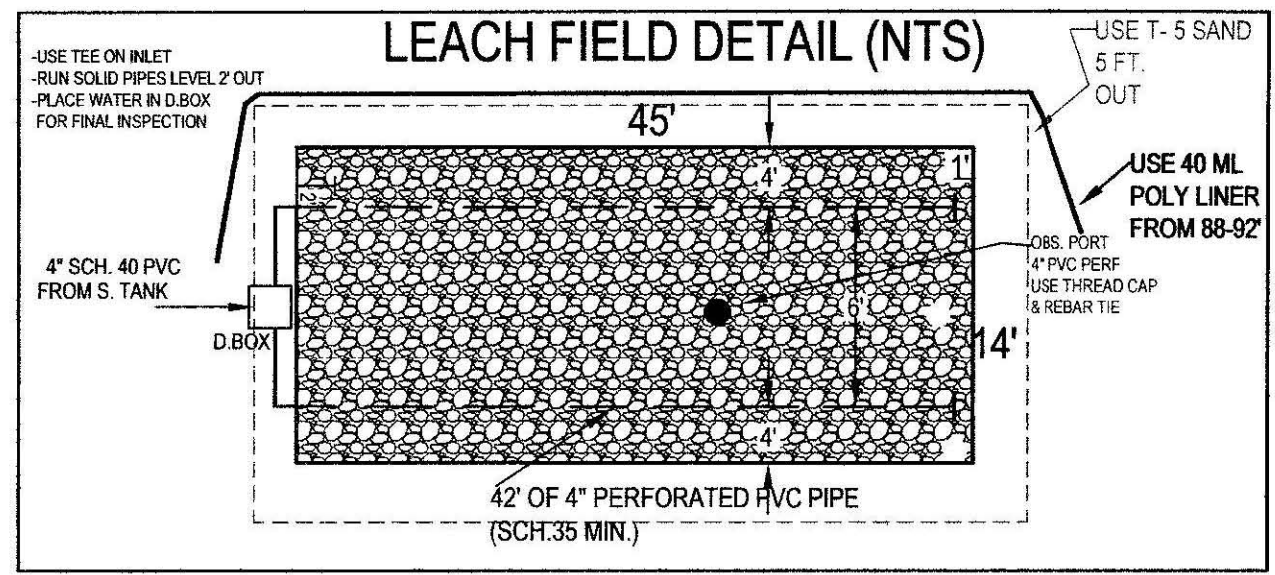


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**PLOT PLAN**  
MAP 30b LOT 37  
SCALE: 1"=30'  
1.14± Ac.



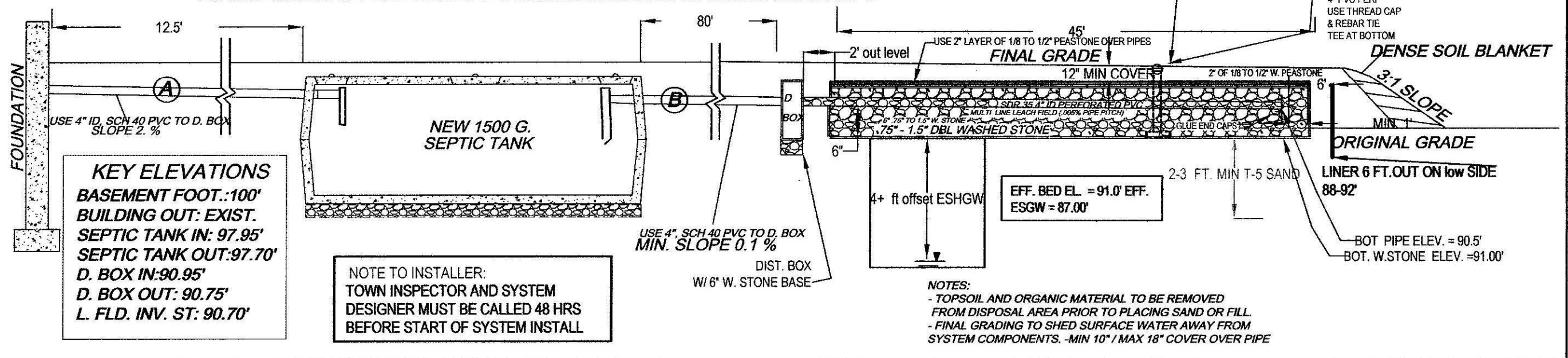
**BAY ROAD**



**NOT AN ACTUAL SURVEY!!**  
LINES DRAWN FOR SEPTIC LOCATION PURPOSES ONLY!

**NOTE TO HOMEOWNER: MOUNDS, WHERE USED, ARE REQUIRED BY STATE CODE TO MAXIMIZE THE DISTANCE FROM THE BOTTOM OF THE LEACHING FIELD TO THE TOP OF THE ESTIMATED HIGH GROUNDWATER. THIS "SEPARATION" FROM HIGH GROUNDWATER (3, 4, OR 5 FEET), IS NOT THE SAME AS THE HEIGHT OF THE FINISHED MOUND SURFACE. THE ACTUAL FINISHED MOUND IS TYPICALLY HIGHER THAN THE "SEPARATION". BY SIGNING PERMIT YOU ACKNOWLEDGE THAT COLD SPRING ENVIRONMENTAL CONSULTANTS INC. IS NOT RESPONSIBLE FOR THE AESTHETICS OF FILLED OR MOUNDED SYSTEMS.**

**EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)**



**KEY ELEVATIONS**  
BASEMENT FOOT.: 100'  
BUILDING OUT: EXIST.  
SEPTIC TANK IN: 97.95'  
SEPTIC TANK OUT: 97.70'  
D. BOX IN: 90.95'  
D. BOX OUT: 90.75'  
L. FLD. INV. ST: 90.70'

**NOTE TO INSTALLER:**  
TOWN INSPECTOR AND SYSTEM DESIGNER MUST BE CALLED 48 HRS BEFORE START OF SYSTEM INSTALL.

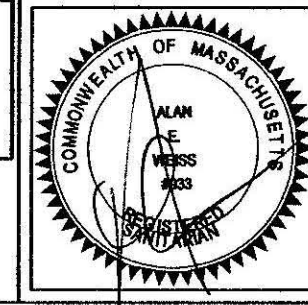
**NOTES:**  
- TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.  
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. - MIN 10" / MAX 18" COVER OVER PIPE

**GRAVITY SLOPE SEPTIC SYSTEM OPERATON AND MAINTENANCE NOTES FOR HOMEOWNER.**  
1.) HAVE TANK PUMPED EVERY 2 YEARS. 2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER. 3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM. 4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.

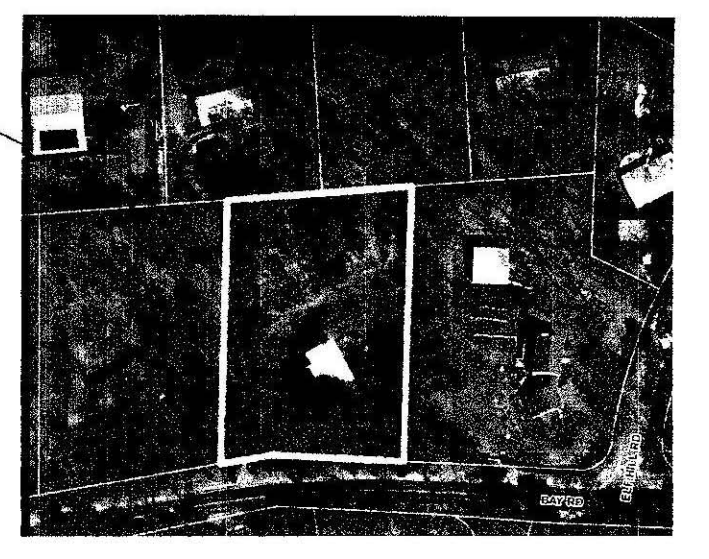
**NOTE TO HOMEOWNER AND CONTRACTOR:**  
CONNECTIONS FROM HEATING SYSTEM, AIRCONDITIONERS, SUMP PUMPS, WATER WELL FILTRATION UNITS AND HEAT PUMPS ARE NOT ALLOWED, SANITARY WATER CONNECTIONS ONLY PERMITTED.

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

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



**SUBJECT SITE LOCATION**



**DESIGN NOTES AND CALCULATIONS:**

- 4 (BEDROOM HOME) = 440 GPD MIN. REQUIRED,  
- Use LEACHING FIELD 14' WIDE X 45' LONG WITH 6" OF 3/4" TO 1-1/2" DBL WASHED STONE BELOW INVERT :  
- BOTTOM AREA: L. FIELD (14' W X 45' L) = 630 SF.  
- TOTAL AREA: 630SF X .74 GAL/SF = 466 GPD PROVIDED.
- GARBAGE DISPOSAL NOT PERMITTED. (A/C AND FURNACE CONDENSATE TUBES NOT ALLOWED)
- NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.
- NO OTHER WETLANDS WITHIN 100 FEET OF SAS.
- USE NEW S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK  
- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),  
**NOTE:**  
- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
- USE LARGE STYLE (6 OUTLET) D.BOX ONLY.
- ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2" CONC. WALLS  
**NOTE:**  
- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.
- ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.
- USE (.75"-1 1/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.  
- USE ONLY DBL. WASHED APPROVED (.75"-1.5") FOR PLACEMENT IN LEACH AREA.
- USE PROPER SCH. 40 PVC TEES AS SHOWN.
- PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs).
- SLOPE CALCS: (SEE CONTOURS). SUBGRADE INSP. REQD.
- USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OFF RESIDENCE & ESHGW (310 CMR 15.240)
- USE 2% MIN. SLOPE OVER SAS  
- CLEAR TOP AND SUB TO BASE OF RESTRICTIVE LAYER (28") MIN. AS NEEDED (INSPECTION REQUIRED).  
- UNDER BED & 5 FT OUT, PRIOR TO TITLE V SAND/STONE PLACEMENT.
- EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
- SOIL EVALUATION BY A. WEISS, RS. (E. SMITH, BOH AGENT).  
- DEPTH OF PERC. 41"  
- PERC RATE = 3 MIN / IN,  
- CLASS 1, F. SAND SOIL RATING
- NO TREES WITHIN 10 FT. OF NEW LEACH AREA.
- ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
- BM=100.00 @ (FOOTING, as noted), CONFIRM PROPER PIPE SLOPES  
- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
- GRADE MULCH AND SEED OVER SAS AS NOTED.
- INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
- USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR.

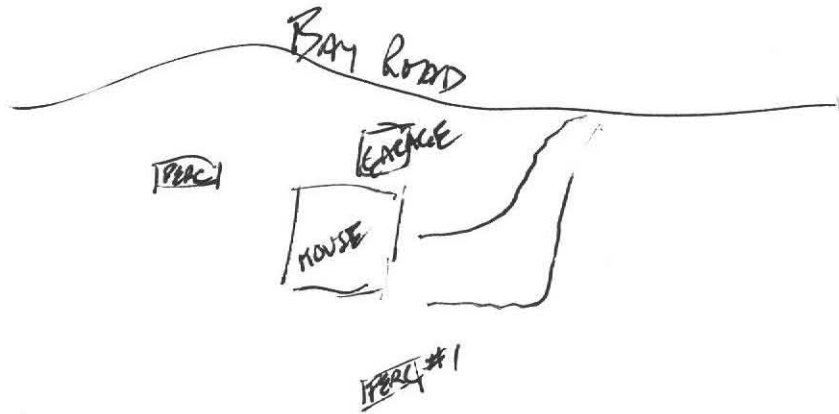
**TEST PIT LOG:**

TP 1: 91'				SOIL EVALUATOR: A. WEISS, RS				DATE OF EVALUATION: 05.29.2013			
DEPTH:	HORIZ:	TEXTURE:	COLOR:	DEPTH:	HORIZ:	TEXTURE:	COLOR:				
0-10"	Ap	FSL	10 YR 3.3	0-12"	A	FSL	10 YR 3.3				
10-26"	Bw	LS	10 YR 5.8	12-26"	Bw	LS	10 YR 5.8				
26-110"	C1	LS	2.5 Y 5.3	26-110"	C1	LS	2.5 Y 5.3				
			10% BOULDERS AND COBBLES				10% BOULDERS AND COBBLES				
OXIDES: 48-50" 2.5 Y 4.2				OXIDES: 48-50" 2.5 Y 4.2							
EHWT: 48"				EHWT: 48"							
STANDING H2O: NOT				STANDING H2O: NOT							
WEEPING: 96"				WEEPING: NOT							
BEDROCK: 110"+				BEDROCK: 110"+							

**SEPTIC DESIGN PLAN FOR ROBERT AND DOROTHY ANN KENT**  
1290 BAY ROAD  
AMHERST, MA  
**Cold Spring Environmental Consultants Inc.**  
350 Old Enfield Road  
Belchertown, MA. 01007

P/FO/NC: (413) 323-5957  
FAX: (413) 323-4916  
DATE: 07.03.2013  
SCALE: 1"=30'  
DRAWN BY: ALAN WEISS  
REVISOR: [blank]  
REVISED: [blank]  
DRAWING NUMBER: 113-4122-0529

5/28/2013 - 1290 BAY ROAD MR. KENT - FLOODING EVIDENT  
 ALAN WEISS; ROB ADINA 40 YEAR OLD SYSTEM



PERC AT 41"  
 2:11 (START OF SOAK 1:54)  
 2:18 ? mins / 3"  
 2:27

PERC 1 / DEEP HOLE

0-10	A <sub>p</sub>	FSL	10 YR 3/3	
10-26	B <sub>w</sub>	LS	10 YR 5/8	FRIABLE √FS
26-110	C <sub>1</sub>	LS	2 1/2 Y 3	OXIDES (SAND TURNS FRIABLE) 2 1/2 Y 4/2 FS FLAT FIRM w/DEPTH

0-12

12-24

26-

48" OXIDES

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THE FOLLOWING IS A BRIEF SUMMARY OF SOME OF THE LEGAL REMEDIES TENANTS MAY USE IN ORDER TO GET HOUSING CODE VIOLATIONS CORRECTED.

1. Rent Withholding (General Laws Chapter 239 Section 8A).

*If Code Violations Are Not Being Corrected you may be entitled to hold back your rent payment. You can do this without being evicted if:*

A. You can prove that your dwelling unit or common areas contain violations which are serious enough to endanger or materially impair your health or safety and that your landlord knew about the violations before you were behind in your rent.

B. You did not cause the violations and they can be repaired while you continue to live in the building.

C. You are prepared to pay any portion of the rent into court if a judge orders you to pay for it. (for this it is best to put the rent money aside in a safe place.)

2. Repair and Deduct (General Laws Chapter 111 Section 127L).

This law *sometimes* allows you to use your rent money to make the repairs yourself. If your local code enforcement agency certifies that there are code violations which endanger or materially impair your health, safety or well-being and your landlord has received written notice of the violations, you may be able to use this remedy. If the owner fails to begin necessary repairs (or enter into a written contract to have them made) within five days after notice or to complete repairs within 14 days *after notice* you can use up to four months' rent in any year to make the repairs.

3. Retaliatory Rent Increases or Eviction Prohibited (General Laws Chapter 186, Section 18 and Chapter 239 Section 2A).

*The owner may not increase your rent or evict you in retaliation for making a complaint to your local code enforcement agency about code violations. If the owner raises your rent or tries to evict within six months after you have made the complaint he or she will have to show a good reason for the increase or eviction which is unrelated to your complaint. You may be able to sue the landlord for damages if he or she tries this.*

4. Rent Receivership (General Laws Chapter 111 Sections 127C-H).

The occupants and/or the board of health may petition the District or Superior Court to allow rent to be paid into court rather than to the owner. The court may then appoint a "receiver" who may spend as much of the rent money as is needed to correct the violation. The receiver is not subject to a spending limitation of four months' rent.

5. Search of Warranty of Habitability.

You may be entitled to sue your landlord to have all or some of your rent returned if your dwelling unit does not meet minimum standards of habitability.

6. Unfair and Deceptive Practices (General Laws Chapter 93A)

Renting an apartment with code violations is a violation of the consumer protection act and regulations for which you may sue an owner.

THE INFORMATION PRESENTED ABOVE IS ONLY A SUMMARY OF THE LAW, BEFORE YOU DECIDE TO WITHHOLD YOUR RENT OR TAKE ANY LEGAL ACTION. IT IS ADVISABLE THAT YOU CONSULT AN ATTORNEY, YOU SHOULD CONTACT THE NEAREST LEGAL SERVICES OFFICE WHICH IS:

**Western Mass Legal Services Tel: 413-781-7814  
One Monarch Place, Suite 400 | Springfield, MA 01144**