No. 99.2	THE COMMONWEAL T	HOF MASSACHUSETTS FEE 40
	ROARD O	F HFAITH
· · · · ·	Town A	mherst
APPLICATIO	JN FOR DISPOSAL S	YSTEM CONSTRUCTION PERMIT
Application for a Permit to	Construct () Repair (X) Upgrade () Abandon () - Complete System 🗍 Individual Components
979	Bay Rd	David N. & Phyllis Smith
<u> </u>	Location	979 Bay Rol., Fimmerst, MA 01002.
	maprarcel #	(413) 256 - 8953
·	Lot #	Amherst Civil Engineering
· · ·		P.O. Box 3312, Amberst, MADIO04-
	Address	(413)256-3400 3312
		iclephone #
ype of Building: <u>Sin</u>	gle tomily house	Lot SizeSq. feet
ther — Type of Buildir	1gNo. ò	f persons Showers (), Cafeteria ()
ther fixtures		
esign Flow (min. requi	red) <u>440</u> gpd Calculated o	lesign flow <u>444</u> gpd Design flow provided gpd
itle $10n - 514$	-e Sewage Dispose	al_System"
escription of Soil(s)	Attached	
oil Evaluator Form No.	Name of Soil Evalua	tor Kobert Stover Date of Evaluation 61098
ESCRIPTION OF RE	PAIRS OR ALTERATIONS	place and relocate tank with
1900 gal tan	Will he LETL	Bu distribution lines
The undersigned correct	s to install the above described Individ	dual Sewage Disposal System in accordance with the provisions of
TLE 5 and further agrees r	not to place the system in operation unti	a Certificate of Compliance has been issued by the Board of Health.
oped Robert	Hover I for David <	
glieu <u>repesser</u> ~	a second se	(mille) Data 11/75/98
	(for service 3	(m1th) Date 11/25/98
spections	(10) (10)	mith) Date 11/25/98
spections		(m1th) Date 11/25/98
ospections		<u>(m1+h)</u> Date <u>11/25/98</u>
ORM 1 - APPLICATI	ION FOR DSCP DEP AP	mith Date 11/25/98 PROVED FORM 5/96
ORM 1 - APPLICAT	ION FOR DSCP DEP AP	mith Date 11/25/98 PROVED FORM 5/96
ORM 1 - APPLICATI	ION FOR DSCP DEP AP	<i>mith</i> Date <i>11/25/98</i> PROVED FORM 5/96
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FORM 11 - SOIL EVALUATOR FORM

Page 2 of 3

David + Phyllis Smith Location Address or Lot No. 979 Bay Rol. Amherst, MA On-site Review Date: 6 10 98 Time: 9:00 Am Weather Clear 70° Deep Hole Number Location (identify on site plan) Surface Stones Land Uselight weeds Siope (%) 15 Vegetation Sugar maple, 2 gray 3:1 Slope 3 cottonwond poison ivy Vegetation Sugar maple, 2 gray birch Kame Terrace Landform ... BARN Position on landscape (sketch on the back) **Distances from:** Open Water Body 150 feet Drainage way 50 feet -+ Possible Wet Area 150 feet 1 Property Line 25 feet 1 Front TON Drinking Water Well Journ feet Other Water

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8"	A	VF56	7.5YR 314	none	glightly friable
8-30"	BW	F5L gravelly	7.5YP	none	loos- to slightly friable Massive
			28-322	One band 544/6	at textural break at Bw + C - not a Water table
30 -144 ⁴	C	L 5 +0 M{	10 4R6/6 574-5/6	none	single grain some gravel
	M OF 2 HOLES F	6 trafific	ERY PROPOSI	D DISPOSAL	AREA > 144"
enth to Groundwate	er: Standing W	ater in the Hole:	<u>n</u> e 144"	<u>12</u>	Weeping from Pit Face: Nohc



DEP APPROVED FORM - 12/07/9

FORM 12 - PERCOLATION TEST

David + Phyllis Smith Location Address or Lot No. <u>979 Bay Rol</u>

COMMONWEALTH OF MASSACHUSETTS

Amherst . , Massachusetts

Percolation Test Date: (a/10/98 Time: 8:50 Am						
Depth of Perc	50"					
Start Pre-soak	8:53					
End Pre-soak	9:09					
Time at 12"	9:09					
Time at 9"	9:11					
Time at 6"	9:13:3	.0				
Time (9"-6")	2:30					
Rate Min./Inch	50 sec.	linch				

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

Site Passed	Site Failed
Performed By:	Robert Storer
Witnessed By:	Mike Lombard
Comments:	5' Water table separation required
	• • •



OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

PART C

SYSTEM INFORMATION (continued)

RA **Property Address:** Owner: Date of Inspection:

SITE EXAM Slope Surface water none Check cellar dry Shallow wells

Estimated depth to ground water 144 feet

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

Obtained from system design plans on record - If checked, date of design plan reviewed: 10/14/98 Observed site (abutting property/observation hole within 150 feet of SAS)

Checked with local Board of Health-explain:

Checked with local excavators, installers- (attach documentation)

Accessed USGS database-explain:

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

bliched the high 501 on t vor

PAGE 01

Dave.

There is a riser appoximately 5' off of the base of the large maple tree which will allow viewing of the Distribution box. I strongly advise that you remove the riser cover once a year and inspect the Distribution box to make sure the fine root hairs are not entering the box. If they are they should be removed. If this becomes a problem that Maple tree will have to be removed.

Todd Cellura





OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C

SYSTEM INFORMATION (continued)

Property Address: 979 Bay Rd.
Amherst
Owner: Omith
Date of Inspection:
SOIL ABSORPTION SYSTEM (SAS): / (locate on site plan, excavation not required)
If SAS not located explain why:
Type leaching pits, number: leaching chambers, number: leaching galleries, number: leaching galleries, number, length: <u>3 - 40' Long X</u> 2' wide X 1.5' below dist, pipes, leaching fields, number, length: <u>3 - 40' Long X</u> 2' wide X 1.5' below dist, pipes, leaching fields, number, dimensions: from design plan b R.E. (os ta, P.E. overflow cesspool, number: from design plan b R.E. (os ta, P.E. overflow cesspool, number: from design plan b R.E. (os ta, P.E. overflow cesspool, number: from design plan b R.E. (os ta, P.E. comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.): Soil and vegetation normal. No evidence of hydraulic failure, ponding on damp soil was present.
CESSPOOLS: (cesspool must be pumped as part of inspection)(locate on site plan)
Number and configuration:
Depth – top of liquid to inlet invert:
Depth of solids layer:
Depth of scum layer:
Dimensions of cesspool:
Materials of construction:
Indication of groundwater inflow (yes or no): Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):
PRIVY:(locate on site plan)
Dimensions:
Depin of solids:
Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):

9

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C SYSTEM INFORMATION (continued)

Property Address: **q**' **Owner**: Date of Inspection:

SKETCH OF SEWAGE DISPOSAL SYSTEM

Provide a sketch of the sewage disposal system including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building.



TIES TO PERMANENT CAN DMARKS				
SYSTEM COMPONENT	TIE#1	TIE#2		
TANK INLET	27.0'	38.5'		
TANK CENTER	30.0'	41.0'		
TANK OUTLET	34.0'	44.5'		
DISTRIBUTION BOX	46.0'	54.0'		

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C

SYSTEM INFORMATION (continued)

Property Address: Bay Kd
- S . Hmherst
Owner: <u>Mith</u>
Date of Inspection:4 2 7 1 00
BUILDING SEWER (locate on site plan) 29"
Depth below grade: 17
Materials of construction: cast from 40 PVC other (explain):
Comments (on condition of joints, worting, suidence of lookage, etc.):
Comments (on condition of joints, venting, evidence of reakage, etc.).
Jents in good condition, No leakoge
SEPTIC TANK: \checkmark (locate on site plan)
Depth below grade: 4" to 6"
Material of construction:concretefiberglasspolyethylene
other(explain)
If tank is metal list age: Is age confirmed by a Certificate of Compliance (yes or no): (attach a copy of certificate)
Dimensions: 10.5 LX 5.5 W X 4.0 Liquid death
Sludge depth: 1"±
Distance from top of sludge to bottom of outlet tee or baffle: 33 3
Scum thickness: a+ in let end
Distance from top of scum to top of outlet tee or baffle: 0^{-2}
Distance from bottom of scum to bottom of outlet tee or baffle: 12
How were dimensions determined: <u>measured 4 pypical</u>
Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels
as related to outlet invert, evidence of leakage, etc.):
inter + outlet Tees are SCH 40 pvc in non congined. Structure No exidence
of THE GRAD ENGLINES FIGHT AT OUFLET INVERT
of leaninge
GREASE TRAP:(locate on site plan)
Depth below grade:
Material of construction: concrete metal fiberglass polyethylene other
(explain):
Dimensions:
Scum thickness:
Distance from top of scum to top of outlet tee or baffle:
Distance from bottom of scum to bottom of outlet tee or baffle:
Date of last pumping:
Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels
as related to outlet invert, evidence of leakage, etc.):

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C

SYSTEM INFORMATION (continued)

Property Address: 979 Boy Rd. Armherst
Owner: Smith
Date of Inspection: 4/27/96
TIGHT or HOLDING TANK: (tank must be pumped at time of inspection)(locate on site plan)
None
Depin below grade:
Waterial of construction: concrete metal ndergrasspolyentylene uner(explain).
Dimensions:
Capacity:gallons
Design Flow: gallons/day
Alarm present (yes or no):
Alarm level: Alarm in working order (yes or no):
Date of last pumping:
Comments (condition of alarm and float switches, etc.):
DISTRIBUTION BOX: (if present must be opened)(locate on site plan)
26" below grade - "
Depth of liquid level above outlet invert:
Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of
leakage into or out of box, etc.):
Levelers on outlets. Box evel + distribution equal. This byer of
fine soap scorp on liquid. No leakage: Box in and condition
and attativales do i for will of antiple
D. Boy has a concerte tise I be do less up
PUMP CHAMBER: (locate on site plan) TO SUR Fale for Lasy MSpectrum
none and meintenance,
Pumps in working order (yes or no):
Alarms in working order (yes or no):
Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

8

V

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART B CHECKLIST

Property Address:	979	Bm	Rel	
- <u> </u>	Amhe	ist 1		
Owner: <u>UV114</u>	<u>-N</u>	7-1	2	
Date of Inspection:	-7/-	<u></u>	6	<u> </u>

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

Yes No	Pumping information was provided by the owner occupant or Board of Health
_ <u>r</u>	I displig intermation was provided by the owner occupant, or board of meaning
	Were any of the system components pumped out in the previous two weeks ?
∠_	Has the system received normal flows in the previous two week period ?
$- \checkmark$	Have large volumes of water been introduced to the system recently or as part of this inspection ?
\checkmark_{-}	Were as built plans of the system obtained and examined? (If they were not available note as N/A)
<u> </u>	Was the facility or dwelling inspected for signs of sewage back up ?
<u>v</u> _	Was the site inspected for signs of break out ?
<u>/</u> _	Were all system components, excluding the SAS, located on site ?
of the baff	Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition les or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum ?
maintenan	Was the facility owner (and occupants if different from owner) provided with information on the proper ce of subsurface sewage disposal systems ?

The size and location of the Soil Absorption System (SAS) on the site has been determined based on:

Yes / no Existing information. For example, a plan at the Board of Health.

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(3)(b)]

D. Box was opened, inspected and pumped.

5

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C SYSTEM INFORMATION

Property Address: 979 Boy Rd.
Owner Smith
Date of Inspection: 4127106
FLOW CONDITIONS
DECIDENTIAL
Number of hadrooms (design): 4 Number of hadrooms (aptual)
Number of Bearbonns (design). / Number of Bearbonns (actual): /
DESIGN flow based on 310 CMR 15.205 (for example: 110 gpd x # of bedrooms):
Number of current residents:
Does residence have a garbage grinder (yes or no):
Is laundry on a separate sewage system (yes or no): <u>no</u> [if yes separate inspection required]
Laundry system inspected (yes or no): IVH
Seasonal use: (yes or no): $\frac{n}{2}$
Water meter readings, if available (last 2 years usage (gpd)): <u>830 days</u>
Sump pump (yes or no): DO
Last date of occupancy: Occupied at time inspection
COMMERCIAL/INDUSTRIAL
Type of establishment: not apply
Design flow (based on 310 CMR 15.203); gpd
Basis of design flow (seats/persons/soft.etc.):
Grease tran present (ves or no):
Industrial waste holding tank present (yes or no):
Non-senitary waste discharged to the Title 5 system (ves or no):
Water meter readings if available.
I act date of occupaneu/use:
Last date of occupancy/use.
OTHER (describe):
GENERAL INFORMATION
Pumping Records
Source of information: DWICH - New System, The Way
Was system pumped as part of the inspection (yes or no):
If yes, volume pumped: 1500 gallons - How was quantity pumped determined? Tank dimensions.
Reason for pumping: inspection and routine maintanence.
TYPE OF SYSTEM
Septic tank, distribution box, soil absorption system
Single cesspool
Overflow cesspool
Privv
Shared system (yes or no) (if yes, attach previous inspection records, if any)
Innovative/Alternative technology. Attach a conv of the current operation and maintenance contract (to be
obtained from system owner)
Tight tank Attach a conv of the DFP annroval
right tank Adach a copy of the DLF approval
Other (describe):
ت. Annovine to get of all announce data installed (if Investor) on descriptions.
Approximate age of all components, date instanted (if known) and source of information:
Were sewage odors detected when arriving at the site (yes or no): <u>1</u> 0

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

PART A

CERTIFICATION (continued)

Property Address: _	979	Bar	Rd.	
Owner: _Smit	Am	nerst		
Date of Inspection:	- 4/	27/	06	

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

 \underline{NO} Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect public health, safety or the environment.

1. System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, safety and the environment:

NA Cesspool or privy is within 50 feet of a surface water

N Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh

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

No 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.

 \underline{NO} The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.

NO The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.

 \underline{N} The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well^{**}. Method used to determine distance

**This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility 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

3. Other:

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART A

CERTIFICATION (continued)

Property Address:	979	Bay	Rd.
Owner: Smit	Amhe	ust.	
Date of Inspection:	4/2	7/06	

D. System Failure Criteria applicable to all systems:

You must indicate "yes" or "no" to each of the following for all inspections:

- Yes No Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool
 - Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool

N, A. Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow

Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped

Any portion of the SAS, cesspool or privy is below high ground water elevation.

Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.

- N.A Any portion of a cesspool or privy is within a Zone 1 of a public well.
 - 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 coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility 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.]

NO (Yes/No) The system fails. I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.

E. Large Systems: not

E. Large Systems: Not app/y To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

You must indicate either "yes" or "no" to each of the following:

(The following criteria apply to large systems in addition to the criteria above)

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.

ves no



COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS DEPARTMENT OF ENVIRONMENTAL PROTECTION

TITLE 5

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM FORM PART A

CERTIFICATION

Property Address: 979 Bay Rd.
Owner's Name: Datif N. + 26, 11,5 H Smith
Owner's Address: Same
Date of Inspection: 4/17/10/
Date of hispectron. <u>-4/C/100</u>
Name of Inspector: (please print) Kobert Stover
Company Name: <u>Amnerst Civil</u> Engineering
Mailing Address: <u>P.O. Box 3312</u> J
Amperst. MA 01004-3312
Telephone Number: (413) 256 - 3400

CERTIFICATION STATEMENT

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

Passes
Conditionally Passes
Needs Further Evaluation by the Local Approving Authority
Fails

Inspector's Signature: Colunt W. Att

Date: 4/27/06

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.

Notes and Comments This is a relatively new system (installed Aug., 1999) That have received relatively light use (2 persons). Everything I saw was in good condition.

****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.

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART A

CERTIFICATION (continued)

Property Address:	979	Bry	RD		
Amherst					
Owner: <u>5m</u>	146				
Date of Inspection:	4/2	7/06			

page on

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

A. System Passes:

Y<u>US</u> 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:

B. System Conditionally Passes:

See

NO one or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

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

The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health. *A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.

ND explain:

 $\underline{N0}$ Observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health):

broken pipe(s) are replaced obstruction is removed

distribution box is leveled or replaced

ND explain:

 \underline{MO} The system required pumping more than 4 times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health):

broken pipe(s) are replaced obstruction is removed

ND explain:









0+60









0+40

DISTRIBUTION BOX W/TEE ON INLET. 4" DIA, SOLID SOR 35 PVC. WITH MINI FIRST 2' LAID LEVEL,

PLAN VIEW

SCALE: 1 inch = 20 feet





Φ

* NOTE!

7.3' (Menul #3)

ESHWT AT 84.19

IN TEST PIT #1

0+80

1+00



والعزيج والجام فالموجو والموسي فالتج

98

97

0+20

PROJECT LOCATION LOCUS PLAN SCALE: 1:25000

ROPOSED CONTOUR (1' INTERVAL

GROUND SURFACE : RESTORE TO EXISTING GRADE

- 3/4" TO 11/2" DOUBLE WASHED STONE .

TRENCH # 1 SHOWN - SEE SECTION "A-A". FOR ELEV. OF other two thankthes, -13.00

95. 93.00 -92 89 #} BEGINI 94,50 94.00 93.00 86 -ENQ 94,30 93,80 92,80 INK

R+10 L+10 0+00

EXISTING G.I

mAx.

SLOPE

LEACH FIELD SECTION AT "A - A" SCALE: H: 1" = 10' V: 1" = 3'

DESIGN CRITERIA

Design flow is for a 4 bedroom house with no garbage grinder. Proposed septic tank: 1500 gallons.

DESIGN CALCULATION

Title V: 4 bedrooms x 110 gpd/bedroom = 440 gpd Design Flow

Soil Loading Factor: Percolation Rate: <1 min./inch Class I Soils Soil Loading Rate: 0.74 gpd/sf

Proposed soil absorption system: 3 leach trenches 40 ft. long by 2 ft. wide by 1.5 ft. below invert of distribution lines.

= 444 gpd

= 440 gpd (o'k)

Sidewall Area: (1.5ft.)(40ft.)(2sides)(3 trenches)	= 360.0 sf
Bottom Area: (2ft.)(40ft.)(3 trenches)	= <u>240.0 sf</u>
Total Leaching Area:	= 600.0 sf

(600.0 sf)(0.74 gpd/sf) Total Required Capacity

SOIL INVESTIGATION

TEST PIT NO. 1 Elevation = 96.2' Est. Seasonal High Water Table @ elev. = 84.2' Bedrock deeper than elev. = 84.2' Class I soils.

Water supply wells within 200 feet and wetland resource areas within 100 feet of the proposed soil absorption system are shown on the planview. Deep observation hole logs and percolation test results are in attached Soil Suitability Report. Soil Investigation and percolation testing by Robert Stover, Certified Soil Evaluator, and witnessed for the Board of Health by Mike Lombard, Certified Soil Evaluator on June 10, 1998.

GENERAL CONDITIONS

- 1. This system repair plan is prepared in accordance with Title V, 310 CMR 15.00. Construction shall conform to these regulations.
- 2. The installer shall notify the designer of any unusual conditions and shall not modify the plan without the written consent of the designer.
- 3. All debris in the site area shall be removed and disposed of by the installer in accordance with the law.
- 4. The installer shall notify the designer and the Amherst Board of Health when the system installation is complete and prior to placement of the cover material for final inspection. Notification shall be 48 hours prior to the time of inspection.
- 5. There is no guarantee expressed or implied to any user of a system installed persuant to this plan.
- 6. The on-site sewage disposal system shall be pumped and inspected as necessary and at least once every three years.

CONSTRUCTION NOTES

- 1. The pipes exiting the distribution box shall have the same invert elevation and shall be level for at least the first two feet of length.
- 2. Any topsoil, subsoil, stumps, roots and stones shall be removed from the area of the leaching trenches, from five feet around the leaching area and from wherever fill is to be placed. Any fill placed in or adjacent to the leaching area shall be clean granular sand and conform to the specifications of Title V, 310 CMR 15.255(3).
- 3. The finished grade above the soil absorption system shall have a minimum two percent slope to shed surface runoff away from the system.
- 4. Disturbed areas shall be loamed, seeded and mulched until permanent vegetative cover is established.
- 5. The existing septic tank shall be pumped, crushed, and filled with sand.
- 6. Any part of the existing soil absorption system encountered during exavation shall be disposed of in accordance with the requirements of the Amherst Board of Health. 7. Any part of the system that shall be located in an area subject to vehicular traffic
- shall be capable of withstanding H-20 wheel loading.

