41 Chapel Road

Cape Cod Hot Dogs - mobile

out of business

No. 00-16 THE COMMONWEALTH OF MASSACHUSETTS FEE 160 cc

BOARD OF HEALTH

TOWN OF Amherst

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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

41 Chapel Rd Location	Kenneth W. & Barbara C. Denno Owner's Name
Map/Parcel #	41 Chapel Rd., Amherst, MA 01002 Address
Lot #	(413) 256-8793 Telephone #
Hart's Installer's Name	Richard Coste PE Amherst Civil Engineering / Robert Stover Designer's Name
327 River Drive Address	P.O. Box 3312, Amherst, MA 01004-3312 Address
549-5396 Telephone #	(413) 256-3400 Telephone #

Type of Building: Single family house — Lot Size 61095.68 Sq. feet

Dwelling — No. of Bedrooms 3 — Garbage Grinder no - tobe removed

Other — Type of Building _____ No. of persons _____ Showers ( ), Cafeteria ( )

Other fixtures _____

Design Flow (min. required) 330 gpd Calculated design flow 455 gpd Design flow provided _____ gpd

Plan: Date 6/29/00 Number of sheets 1 Revision Date _____

Title "Sewage Disposal System Repair Plan"

Description of Soil(s) Attached

Soil Evaluator Form No. _____ Name of Soil Evaluator Robert Stover Date of Evaluation 1/12/00

DESCRIPTION OF REPAIRS OR ALTERATIONS Replace septic tank & S.A.S.

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

Signed Robert Stover (for Kenneth Denno) Date 6/29/00

Inspections _____

FORM 1 - APPLICATION FOR DSCP **DEP APPROVED FORM 5/96**

No. 00-16 THE COMMONWEALTH OF MASSACHUSETTS FEE 160 cc

Amherst BOARD OF HEALTH

RC Coste 6/29/00

CERTIFICATE OF COMPLIANCE

Description of Work: ☐ **Individual Component(s)** X **Complete System**

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

by: Kenneth W. + Barbara C. Denno

at 41 Chapel Rd.

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 00-16 dated _____. Approved Design Flow _____(gpd)

Installer _____

Designer: _____ Inspector _____ Date _____

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

FORM 3 - CERTIFICATE OF COMPLIANCE **DEP APPROVED FORM 5/96**

No. 00-16 THE COMMONWEALTH OF MASSACHUSETTS FEE 160 cc

Amherst BOARD OF HEALTH

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to Construct ( ) Repair (X) Upgrade ( ) Abandon ( ) an individual sewage disposal system at 41 Chapel Rd. as described

in the application for Disposal System Construction Permit No. 00-16, dated _____.

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

Date August 22, 2000 Board of Health Robert Stover for Amherst Board of Health

FORM 2 - DSCP **DEP APPROVED FORM 5/96**

FORM 1255 (REV 5/96) H&W HOBBS & WARREN™ PUBLISHERS - BOSTON

CK# 402
1-12-00
$160.00

FORM 11 - SOIL EVALUATOR FORM

No. _____ TOWN WATER **Date:** 1/12/00

Commonwealth of Massachusetts
, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: Robert Stover **Date:** 1/12/00
Witnessed By: David Zaroznicki

Location Address or Lot #	Owner's Name, Address, and Telephone #
New Construction ☐ Repair ☐	Ken Denno 41 Chapel Rd 256-8209

Office Review

Published Soil Survey Available: No ☐ Yes ☐

Year Published ..... Publication Scale ..... Soil Map Unit .....

Drainage Class ..... Soil Limitations .....

Surficial Geologic Report Available: No ☐ Yes ☐

Year Published ..... Publication Scale .....

Geologic Material (Map Unit) .....

Landform .....

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☐

Within 500 year flood boundary No ☐ Yes ☐

Within 100 year flood boundary No ☐ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit) .....

Wetlands Conservancy Program Map (map unit) .....

Current Water Resource Conditions (USGS): Month .....

Range :Above Normal ☐ Normal ☐ Below Normal ☐

Other References Reviewed: _____

Location Address or Lot No. 41 Chapel Road

On-site Review

Deep Hole Number ..... Date: 1-12-00 Time: 9:00 AM Weather SUNNY 40°

Location (identify on site plan) .....

Land Use ..... Slope (%) Surface Stones .....

Vegetation .....

Landform .....

Position on landscape (sketch on the back)

Distances from:

Open Water Body	feet	Drainage way	feet
Possible Wet Area	feet	Property Line	feet
Drinking Water Well	feet	Other	

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
#1 AO	Lumm, A Fri F	FSY	10YR 3/3	Y/Olive	Friable
22"	Bw	FLS	10YR 5/6		Friable Mississ
60"	C1	MS	2.5Y 5/6		
108"	C2	VFSL	10YR 3/3	Many	
#2				Slight 10 YR 5/6	

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) _____ Depth to Bedrock: _____

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

Estimated Seasonal High Ground Water: _____

FORM 12 - PERCOLATION TEST

Location Address or Lot No. 41 Chapel Road

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

Percolation Test*		
Date: 11/12/00	Time: 9:00 Am	
Observation Hole #		
Depth of Perc	46"	
Start Pre-soak	8:35	
End Pre-soak	9:52	
Time at 12"	9:52	
Time at 9"	9:53	
Time at 6"	9:55	
Time (9"-6")		
Rate Min./Inch	2 (8)	

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

Site Passed ☐ Site Failed ☐

Performed By: Robert Stouer

Witnessed By: David Zarozinski for Amherst Inspection Service

Comments:

DEP

DEP APPROVED FORM - 12/07/95

FORM 4 - SYSTEM PUMPING RECORD

Commonwealth of Massachusetts
AMHERST , Massachusetts

RECEIVED JAN 0 4 2000

System Pumping Record

System Owner	System Location
K. Denno 256-8209	41 Chapel Rd

Date of Pumping: 12-22-99 Quantity Pumped: 2000 gallons

Type: Emergency ☒ Routine ☐

Cesspool: No ☐ Yes ☐ Septic Tank: No ☐ Yes ☒

System Pumped by (Company): Karl's Site Work Inc Permit #: 99-06 (OF)

Contents transferred to:

Amherst WWTP

Date 12-22-99 Pumper Signature [signature]

Observations/Comments: Has Failed System

" Called Ken — on 1-4-99

Location Address or Lot No. _____

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 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 _____ (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 _____

RECEIVED JAN 1 2 2000

THIS CHECK IS DELIVERED IN CONNECTION WITH THE FOLLOWING ACCOUNT(S)

1	12	2000	160.	-
TOTALS OF INVOICES				
LESS ___% DISCOUNT				
LESS				
TOTAL DEDUCTIONS				
AMOUNT OF CHECK				

KEN DENNO
PLUMBING & HEATING
PH 413-256-8793
41 CHAPEL RD.
AMHERST, MA 01002

402

53-7233/2118

DATE Jan.12,2000

PAY TO THE ORDER OF TOWN OF AMHERST $ 160.00

One hundred sixty dollars and no/100 ---------- DOLLARS

Security features included. Details on back.

NORTHAMPTON COOPERATIVE BANK NORTHAMPTON, MA 01060

FOR Perc Test + PLANS

Kenneth W. Denno

MP

⑈000402⑈ ⑆211872331⑆ 02 20 060632⑈

© HARLAND STYLE XXJ

R#1093

No. _____ Date: _____

Commonwealth of Massachusetts
Amherst , **Massachusetts**

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: Robert Stover **Date:** 1/12/00
Witnessed By: David Zarozinski

Location Address or Lot #	Owner's Name, Address, and Telephone #
41 Chapel Rd.	Ken Denno 41 Chapel Rd. Amherst, MA 01002 (413) 256-8793
New Construction ☐ Repair ☒	

Office Review

Published Soil Survey Available: No ☐ Yes ☒

Year Published 12/1981 Publication Scale 1:15840 Soil Map Unit HgB

Drainage Class A Soil Limitations poor filter

Surficial Geologic Report Available: No ☐ Yes ☐

Year Published Publication Scale

Geologic Material (Map Unit)

Landform

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☐

Within 500 year flood boundary No ☐ Yes ☐

Within 100 year flood boundary No ☐ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range :Above Normal ☐ Normal ☐ Below Normal ☒

Other References Reviewed:

Location Address or Lot No. 41 Chapel Rd, Amherst

On-site Review

Deep Hole Number 1 **Date:** 1/12/00 **Time:** 9:30 **Weather** clear 35°

Location (identify on site plan)

Land Use **Slope (%)** **Surface Stones**

Vegetation

Landform

Position on landscape (sketch on the back)

Distances from:

Open Water Body	feet	Drainage way	feet
Possible Wet Area	feet	Property Line	feet
Drinking Water Well	feet	Other	

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0 - 10	Loamy Fill	FSL	10YR3/3	none	Friable
10 - 22	remanent Bw	FLS	10YR5/6	none	Friable, Massive
22 - 60	C1	Med + Co Sand.	2.5Y5/6	none	loose
60 - 108	C2	VFSL	10YR4/3	slight 10YR5/5	Firm - platey

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) **Depth to Bedrock:**

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

Estimated Seasonal High Ground Water: 108"

FORM 12 - PERCOLATION TEST

Location Address or Lot No. 41 Chapel Rd.

COMMONWEALTH OF MASSACHUSETTS

Amherst , Massachusetts

Percolation Test*		
Date: 1/12/00	Time: 9:30 AM	
Observation Hole #	1	
Depth of Perc	46"	
Start Pre-soak	9:35	
End Pre-soak	9:52	
Time at 12"	9:52	
Time at 9"	9:53	
Time at 6"	9:55	
Time (9"-6")	2 min	
Rate Min./Inch	< 2	

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

Site Passed ☒ Site Failed ☐

Performed By: Robert Stover

Witnessed By: David Zarozinski

Comments:

DEP

DEP APPROVED FORM - 12/02/96

Location Address or Lot No. 41 Chapel Rd., Amherst

Determination for Seasonal High Water Table

Method Used:

- [x] Depth observed standing in observation hole >108 inches
- [x] Depth weeping from side of observation hole >108 inches
- [x] Depth to soil mottles >108 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

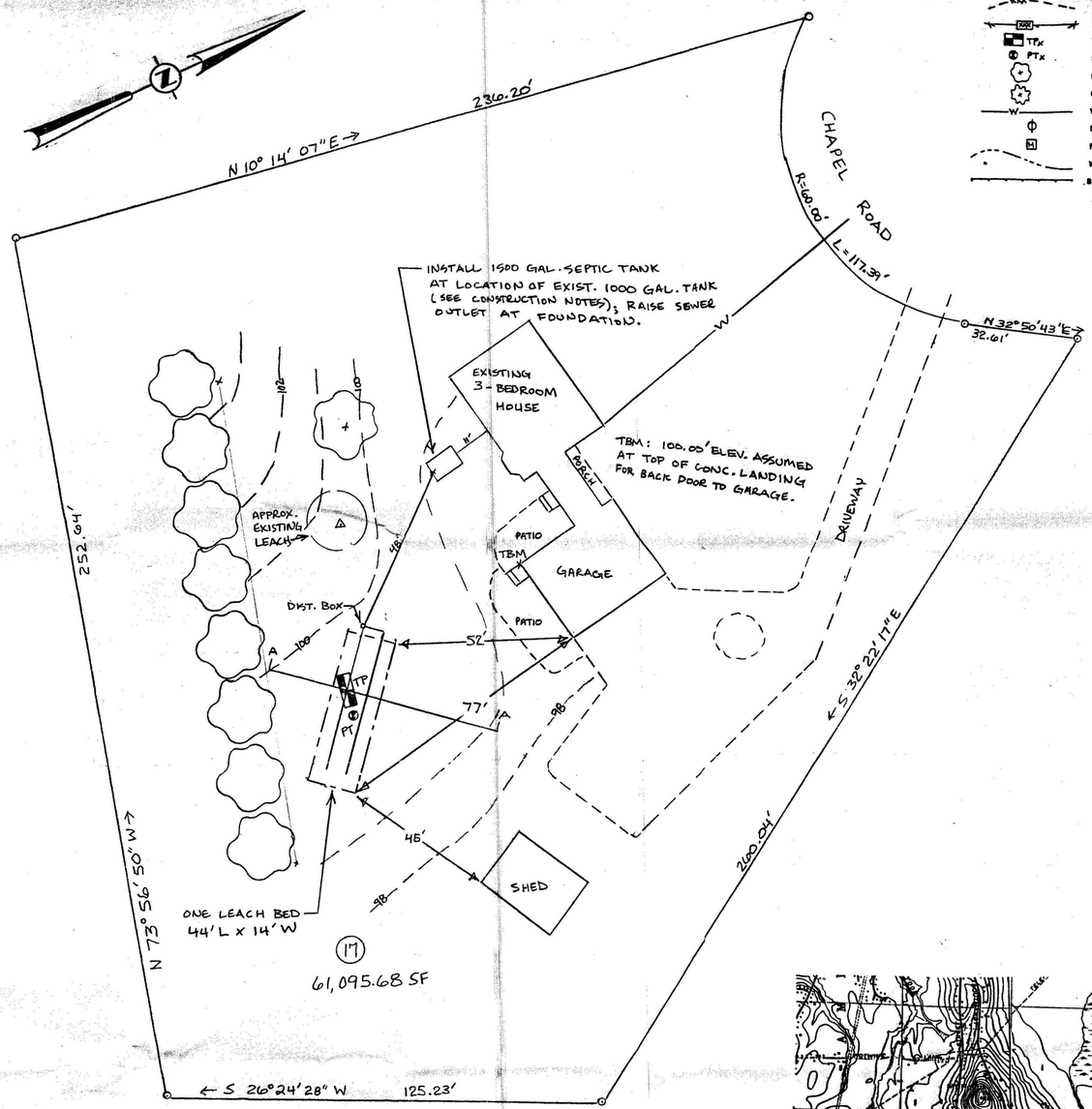
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

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

Certification

I certify that on 6/1993 (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.

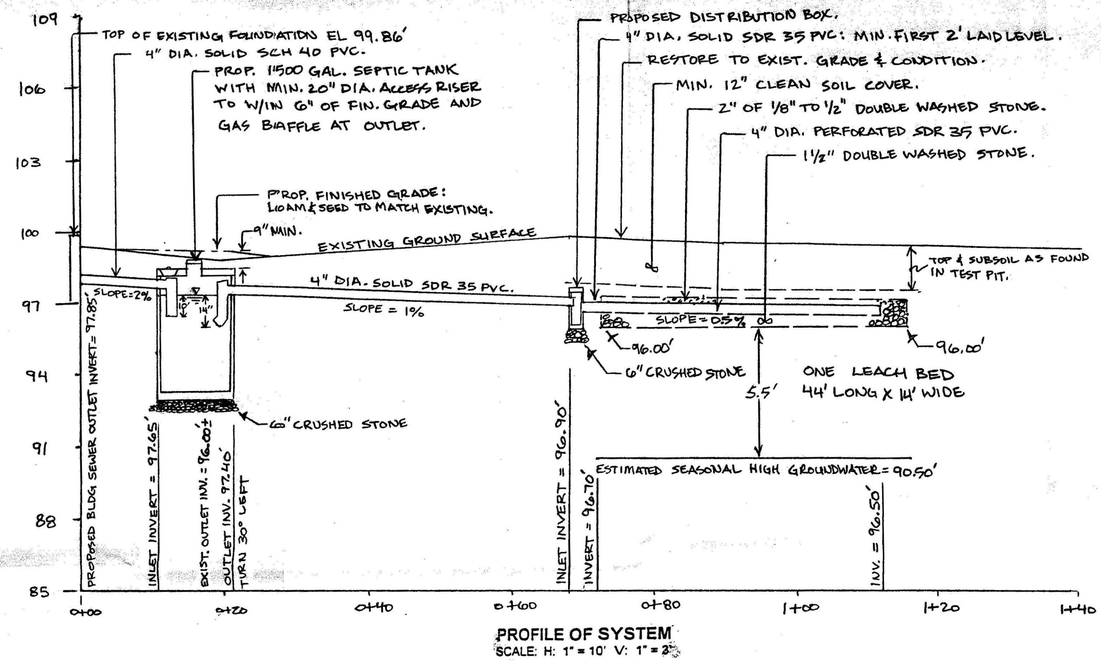
Signature Robert Stone Date 1/12/00



LEGEND

- CONTOUR LINE (1' INTERVAL)
- PROPOSED CONTOUR (1' INTERVAL)
- TPx — DEEP OBSERVATION HOLE
- PTx — PERCOLATION TEST
- DECIDUOUS TREE
- CONIFEROUS TREE
- W — WATER SUPPLY LINE (PRESSURE)
- UTILITY POLE
- FH — FIRE HYDRANT
- WETLAND BOUNDARY
- SILT FENCE/EROSION BARRIER

PLANVIEW
SCALE: 1" = 20'



PROFILE OF SYSTEM
SCALE: H: 1" = 10' V: 1" = 3'

SOIL INVESTIGATION

Test Pit EL. 99.5'
Estimated Seasonal High Ground Water EL. 90.50'
Bedrock EL. 290.50'
Class 1 soils.

Water supply wells within 200 feet and wetland resource areas within 100 feet of the proposed soil absorption system are as shown on the planview. Deep observation hole log 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 David Zarzeniski on 1/12/00.

DESIGN CRITERIA

Design flow is for a 3 bedroom house without a garbage grinder.
Proposed septic tank: 1500 gallons.
Garbage grinder to be removed.

DESIGN CALCULATION

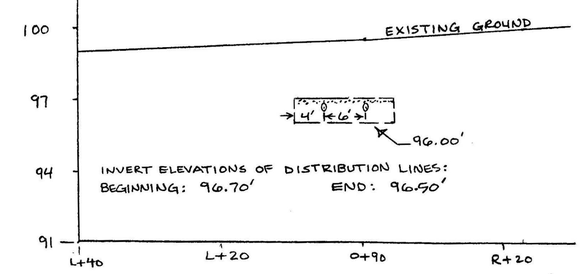
Required Flow: 110 gpd per bedroom.
Total required flow = 330 gpd.

Effluent Loading Rate: Percolation Rate = < 2 minutes per inch.
Class 1 soils.
Effluent Loading Rate = 0.74 gpd/sf.

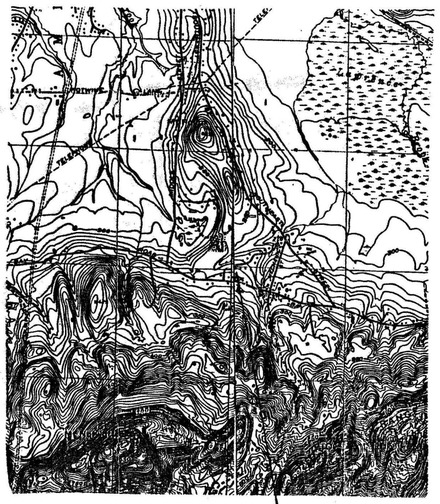
Proposed soil absorption system: one leach bed: 44' long x 14' wide

Bottom Area: 44' x 14' = 616 sf
Sidewall Area: not allowed = 0 sf
Total Leaching Area: = 616 sf

616 sf x 0.74 gpd/sf = 455 gpd
Total Required Capacity = 330 gpd (o'k)



SECTION AT "A – A": LEACH BED
SCALE: H: 1" = 10' V: 1" = 3'



PROJECT LOCATION

LOCUS PLAN
USGS BELCHERTOWN & MT HOLYOKE QUADS
SCALE = 1: 25,000

Richard E. Costa
Civil
No. 37448
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

6/29/00

CONSTRUCTION NOTES

1. Any topsoil, subsoil, stumps, stones, debris or other impervious materials encountered during excavation shall be removed from the area of the leaching trenches, from five feet around the trenches and from wherever fill is to be placed. Any fill placed in or adjacent to the trenches shall be a clean granular sand & conform to the specifications of Title 5, 310 CMR 15.255(3).
2. The finished grade above the soil absorption system shall have a minimum two percent slope to shed surface runoff away from the system.
3. Disturbed areas shall be loamed, seeded and mulched until stable vegetation is established.
4. The pipes exiting the distribution box shall have the same invert elevation and shall be level for a minimum of the first two feet.
5. Existing septic tank shall be pumped, crushed, and filled with sand.
6. Any part of existing soil absorption system encountered during excavation shall be disposed of in accordance with the requirements of the Board of Health.

GENERAL CONDITIONS

1. This system repair plan is prepared in accordance with Title 5, 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 in accordance with the law.
4. There is no guarantee expressed or implied to any user of a system installed pursuant to this plan.
5. The installer shall notify the designer when the system excavation is ready for inspection and the designer and the 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.
6. The on-site sewage disposal system shall be pumped and inspected as necessary and at least once every 3 years.

SEWAGE DISPOSAL SYSTEM REPAIR PLAN
41 CHAPEL ROAD, AMHERST, MA

KENNETH W. & BARBARA C. DENNO
41 CHAPEL RD., AMHERST, MA 01002

SCALE: As shown	APPROVED BY	DRAWN BY
DATE: 6/29/00		

AMHERST CIVIL ENGINEERING
RICHARD COSTA, P.E. / ROBERT STOVER
P.O. BOX 3312, AMHERST, MA 01004-3312
(413)256-3400

DRAWING NUMBER