

# 968

No. 96-1

FEE.....

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct ( ) or Repair (X) an Individual Sewage Disposal System at:

968 Bay Rd. Location Address Ruth Witkowski & George Howe 968 Bay Rd., Amherst, MA 01002

Type of Building Dwelling - No. of Bedrooms 4 Expansion Attic ( ) Garbage Grinder (no) Other - Type of Building No. of persons Showers ( ) - Cafeteria ( )

Design Flow 55 gallons per person per day. Total daily flow 440 gallons. Septic Tank Liquid capacity 1500 gallons Length 10.5' Width 5' Diameter Depth 4' Liquid Disposal Trench No. 3 Width 3.0' Total Length 150.0' Total leaching area 300.0 sq. ft. Seepage Pit No. Diameter Depth below inlet 1.0' Total leaching area 450.0 sq. ft. Sidewall Bottom

Other Distribution box (X) Dosing tank ( ) Percolation Test Results Performed by Robert W. Stover Date 11/21/95 Test Pit No. 1 2 minutes per inch Depth of Test Pit 96" Depth to ground water 90" Test Pit No. 2 minutes per inch Depth of Test Pit 92" Depth to ground water 72"

Description of Soil Attached Nature of Repairs or Alterations - Answer when applicable

Agreement:

The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Environmental Code - The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

excavation trap 5/29/96 Signed Robert W. Stover (for R. Witkowski) 1/5/96 Application Approved By David Janczinski for C. P. Dept. 1/2/96

Application Disapproved for the following reasons:

Permit No. 96-1 Issued Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

Certificate of Compliance

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed ( ) or Repaired (X) by

at 968 Bay Road Installer Thomas Wenne has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 96-1 dated

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE 1/31/96 Inspector Roger Bonnell

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

No. 96-1

FEE 160.00

Disposal Works Construction Permit

Permission is hereby granted Ruth Witkowski & George Howe to Construct ( ) or Repair (X) an Individual Sewage Disposal System

at No. 968 Bay Road as shown on the application for Disposal Works Construction Permit No. 96-1 Dated 1/2/96

DATE 1/2/96 Board of Health

CHECK OR FILL IN WHERE APPLICABLE



CHK=2790

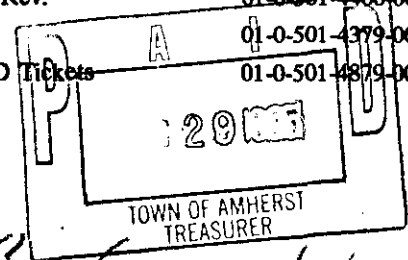
George R. Howe  
Euth D. Witkowsky  
168 Bay Road  
Amherst, Ma. 01002  
413-253-2060

# TOWN OF AMHERST Health Department

<input type="checkbox"/> Bakery	01-0-501-4433-00
<input type="checkbox"/> Bed & Breakfast	01-0-501-4474-01
<input type="checkbox"/> Burial Permit	01-0-501-4475-00
<input checked="" type="checkbox"/> Car Seat Rental	89-0-000-2557-00
<input checked="" type="checkbox"/> Catering	01-0-501-4429-00
<input type="checkbox"/> Food Handler	01-0-501-4474-00
<input type="checkbox"/> Housing Inspection	01-0-501-4348-00
<input type="checkbox"/> Massage	01-0-501-4425-00
<input type="checkbox"/> Motel License	01-0-501-4428-00
<input type="checkbox"/> Miscellaneous	01-0-501-_____

<input type="checkbox"/> Offal/Garbage	01-0-501-4472-00
<input checked="" type="checkbox"/> Perc Test 100'	01-0-501-4344-00
<input type="checkbox"/> Retail Permit	01-0-501-4473-00
<input type="checkbox"/> Sanitary Code Booklet	01-0-501-4380-00
<input type="checkbox"/> Septic Installers Permit	01-0-501-4470-01
<input checked="" type="checkbox"/> Septic Private Applications 60'	01-0-501-4470-00
<input type="checkbox"/> Septic - Reinspection	01-0-501-4345-00
<input type="checkbox"/> Sub-Division Rev.	01-0-501-4460-00
<input type="checkbox"/> T.B. Clinic	01-0-501-4379-00
<input type="checkbox"/> Twenty-one D Tickets	01-0-501-4879-00

TOTAL FEE 160<sup>00</sup>



*David J. [Signature]* 12/11/85

Treasurer/Collector

Date

Health Department

Date

**Must have Collector's "PAID STAMP" on receipt to be valid.**

White: Applicant

Yellow: Collector

Pink: Accountant

Gold: Health Dept.

4

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

*NOT PD AS OF 11/21/85*

Date *11/21/85*

Commonwealth of Massachusetts  
Massachusetts

Site Suitability Assessment for On-site Sewage Disposal

Performed By: *Bob Stover / Harold Steile*

Certification Number: \_\_\_\_\_

Witnessed By: *David Zarozinski*

Location Address or Lot No. <i>Ruth Witkowski George Howe 96 BAY Road</i>	Owner's Name, Address and Tel. #  
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New Construction  Repair

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

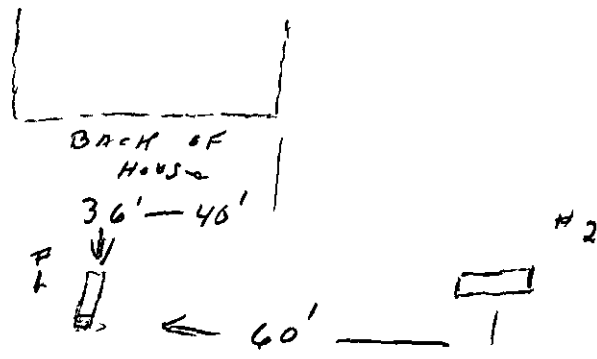
Other References Reviewed: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

10/10/10

4 Bedrooms

Bay Road - TOWN WATER

Remove C/Q



# On-site Review

Deep Hole Number #1 Date: 11/21/90 Time: \_\_\_\_\_ Weather \_\_\_\_\_  
 Location (Identify on site plan) BAY ROAD  
 Land Use LAWN Slope (%) \_\_\_\_\_ Surface Stones \_\_\_\_\_  
 Vegetation \_\_\_\_\_  
 Landform \_\_\_\_\_  
 Position on landscape (sketch on the back) \_\_\_\_\_  
 Distances from:  
 Open Water Body \_\_\_\_\_ feet Drainageway \_\_\_\_\_ feet  
 Possible Wet Area \_\_\_\_\_ feet Property Line \_\_\_\_\_ feet  
 Drinking Water Well \_\_\_\_\_ feet Other \_\_\_\_\_

<b>DEEP OBSERVATION HOLE LOG</b>					
Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0 - 20	A P	FSL	7.5YR 3/3	NONE	Loamy fill + orig topsoil
20 - 38	BW	FSC	7.5YR 3/8	NONE	FRAGILE
38 - 82	C 1	Loamy Sand	7.5YR 5/6	NONE	Loose
82 - 90	C 2	U Fine loose sand	10YR 4/6	30% 7.5YR 4/4	FIRM STRATIFIED w/ FINE SAND
90 - 96	C 3	Silt LOAM	5B 5/1	85% 2.5Y 6/4	FIRM

Parent Material (geologic) \_\_\_\_\_ Depth to Bedrock: \_\_\_\_\_  
 Depth to Groundwater: \_\_\_\_\_ Standing Water in the Hole: \_\_\_\_\_ Weeping from Pit Face: \_\_\_\_\_  
 Estimated Seasonal High Ground Water: 90"



# On-site Review

Deep Hole Number 2 Date: 11/21/95 Time: 8:45 Weather Light overcast

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 Drainageway \_\_\_\_\_ 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)
0-9	A	FSL	7.5YR 2.5/2	NONE	1cm fill
9-17	B	Lo Sand Some gravel	7.5YR 5/8	NONE	Co. Sand fill
17-27	Buried A	FSL	7.5YR 3/3	NONE	FRIABLE
27-36	Buried Bw	FSL	10YR 5/8	NONE	FRIABLE
36-72	C1	FSL - CS	7.5YR 5/8	5% 5YR 5/8	SOME FIRM 90% sand
72-90	C2	coarse gravel	7.5YR 5/6	30%	Loose
90-92	C3	UFS + SILT	10YR 5/3	5YR 5/8	Urbid Firm

Parent Material (geologic) Alluvial outwash Depth to Bedrock: 792"

Depth to Groundwater: \_\_\_\_\_ Standing Water in the Hole: 90" Weeping from Pit Face: 72"

Estimated Seasonal High Ground Water: 72"

100

## 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

968 *TOWN WATER*  
 Index Well Number ..... Reading Date ..... Index well level .....  
 Adjustment factor ..... Adjusted ground water level .....  
*BAY RD*

<b>Percolation Test</b>		
Date: <i>11/21/75</i>		Time: <i>8:43</i>
Observation Hole #	<i>1</i>	
Depth of Perc	<i>42"</i>	
Start Pre-soak	<i>8:43</i>	
End Pre-soak	<i>8:58</i>	
Time at 12"	<i>8:58</i>	
Time at 9"	<i>9:01</i>	
Time at 6"	<i>9:04</i>	
Time (9"-6")	<i>3 min</i>	
Rate Min./Inch	<i>2</i>	

Site Suitability Assessment:    Site Passed     Site Failed

Additional Testing Needed: *NO*

Performed By: *Robert Stover Harold Smith*    Certification Number: \_\_\_\_\_

Witnessed By: *David Zarowski*

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



MAY 6 1974 #968

BOARD OF HEALTH, AMHERST, MASSACHUSETTS

APPLICATION FOR DISPOSAL WORKS CONSTRUCTION PERMIT

No. 74-34 Date MAY 7 1974 Fees 3.00 Date Rec'd. MAY 7 1974 By (C.D.)

Application is hereby made for a permit to Construct (X) or Repair ( ) an Individual Sewage Disposal System at:

Location-Address 968 BAY ROAD or Lot No. BACK LOT

Owner HILL CONSTRUCTION Co. Inc. Address BAY RD. AMHERST

Contractor KARL'S ETC. Address RIVER DE HAMPSHIRE

Type of Building \_\_\_\_\_ Dimensions \_\_\_\_\_ Size Lot 2 1/4 ACRES

Dwelling-No. of Bedrooms 4 Expansion Attic ( ) Garbage Grinder (X)

Other \_\_\_\_\_ No. of persons \_\_\_\_\_ Showers ( )

Other fixtures \_\_\_\_\_

Town Water? YES Type of Well \_\_\_\_\_

Design Flow 50 gallons per person per day. Total daily flow 400 gallons

Septic Tank-Liquid capacity 1200 gallons Dimensions: L 10'-0" W 5'-0" D 5'-4"

Disposal Trench-BED No. 1 Width 20' Total Length 40' Total leaching area 600 sq. ft.

Disposal Bed-No. \_\_\_\_\_ Diameter \_\_\_\_\_ Depth below inlet \_\_\_\_\_ Total leaching area \_\_\_\_\_ sq. ft.

Dry Well-No. \_\_\_\_\_ Diameter \_\_\_\_\_ Depth below inlet \_\_\_\_\_ Dimensions: \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_

Other: Distribution box ( ) No. \_\_\_\_\_ Dosing tank ( )

(Depth of Soil Line Below finished grade at foundation \_\_\_\_\_)

Percolation Test Results Performed by J. HART - HUNTLEY Date APRIL 4 1973

Test Pit No. 1 2.0 minutes per inch Depth of Test Pit 2'-6"

Test Pit No. 2 \_\_\_\_\_ minutes per inch Depth of Test Pit 8'-6"

Description of Soil 4" SAND, 6" CLAY SILTY LOESS Depth to Ground Water 6'-0"

Will disposal area be filled? \_\_\_\_\_ Cut down? \_\_\_\_\_

(On reverse side or separate sheet, show plot plan with building. Include dimensions, distances from all boundaries. Show location of wells, streams, ledge, large trees, etc.)

AGREEMENT: The undersigned agrees to construct the aforescribed individual sewage disposal system in accordance with the provisions of Article XI of the Sanitary Code and regulations of the Amherst Board of Health. The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by this board of health.

(Signature) X. Gerald R. Hill Owner or builder 5/7/74 date

Application Approved by (Signature) 5-7-74 date

Application Disapproved for the following reasons:

BOARD OF HEALTH, AMHERST, MASSACHUSETTS CERTIFICATE OF COMPLIANCE

THIS IS TO CERTIFY, That the individual Sewage Disposal System installed ( ) or repaired ( ) by \_\_\_\_\_ at \_\_\_\_\_ has been constructed in accordance with the provisions of

INSTALLER Article XI of the State Sanitary Code as described in the application for Disposal Works Construction Permit No. \_\_\_\_\_ dated \_\_\_\_\_

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

DATE \_\_\_\_\_ Inspector \_\_\_\_\_

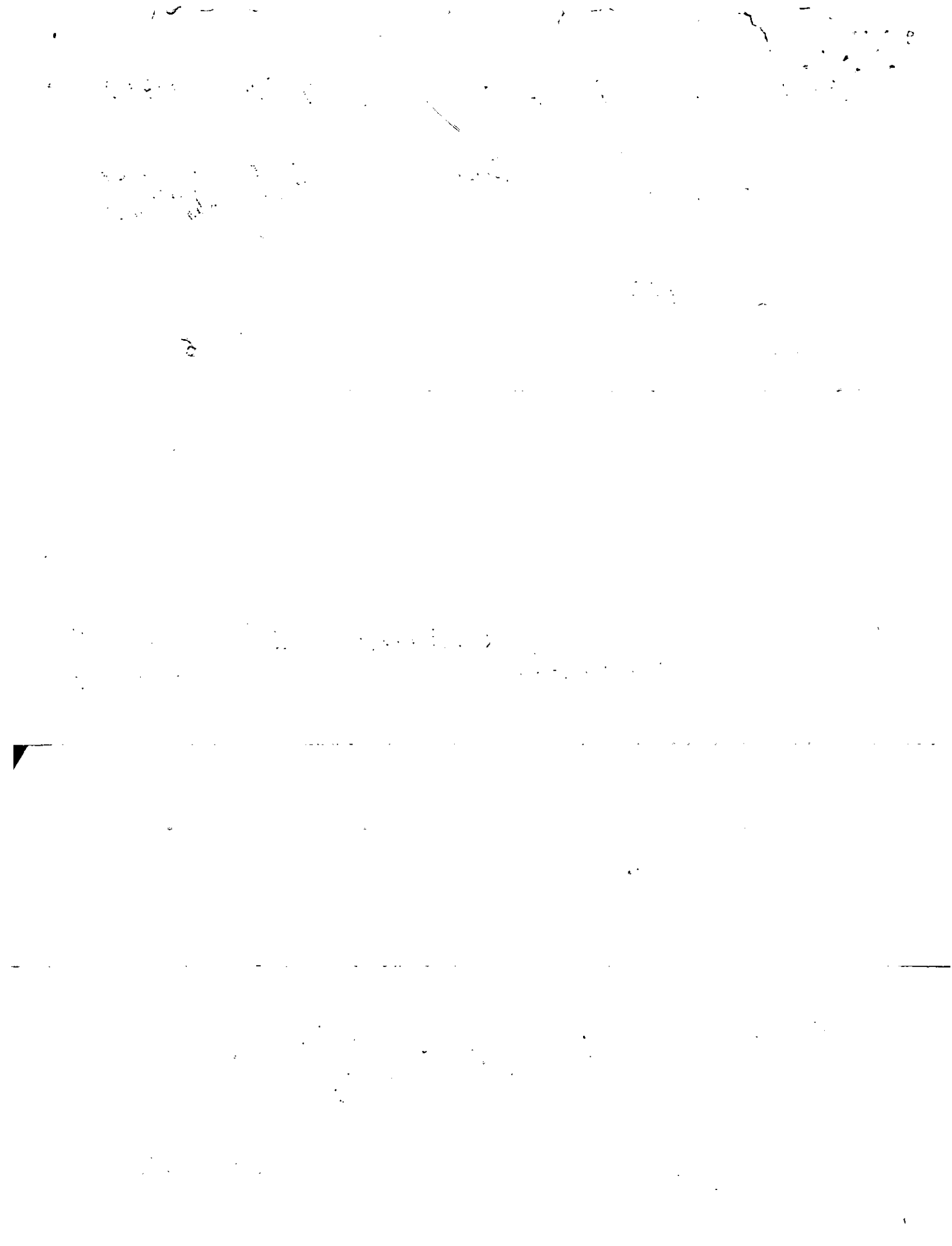
BOARD OF HEALTH, AMHERST, MASSACHUSETTS DISPOSAL WORKS CONSTRUCTION PERMIT

No. 74-34 Permission is hereby granted Hill Construction Co. Inc. to construct (X) or repair ( ) an Individual Sewage Disposal System at BACK LOT - BAY ROAD

as shown on the application for Disposal Works Construction Permit No. 74-34

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

DATE MAY 7 1974 (Signature) Board of Health



BOARD OF HEALTH  
TOWN OF AMHERST, MASSACHUSETTS

Important Information Regarding Your Private Sewage Disposal System

DISPLAY THIS DOCUMENT IN A PROMINENT PLACE

968 BAY RD

Owner: FRANK BURNETT Address 46 MAIN ST AMH.

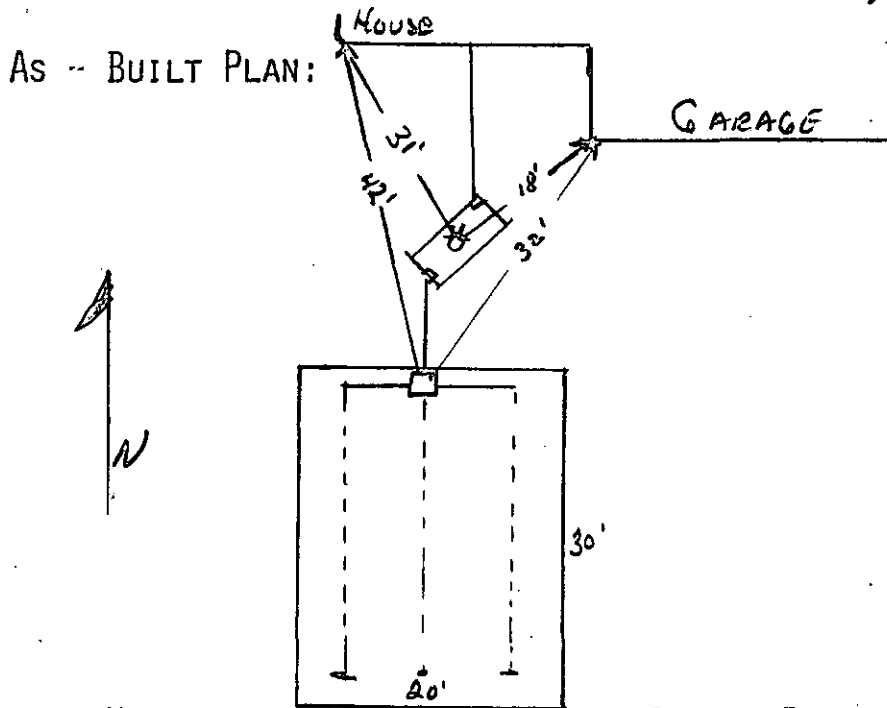
Installer KARL'S E.C. Address RIVER DR. WADLEY

Date Installation Inspected and Approved MAY 20, 1976

Description of System: Tank Capacity: 1200

Leach Field ( ) Bed (X) Seepage Pit ( ) Square Feet: 600

Garbage Grinder Yes (X) No ( ) No. Bedrooms: 4 No. People 8



PROPER MAINTENANCE OF YOUR PRIVATE SEWAGE DISPOSAL SYSTEM

1. This system must be inspected periodically and the tank pumped out at an interval not to exceed 2 years.
2. For your protection sanitary pumpers are licensed by the Amherst Board of Health.
3. Regular pumping is crucial to avoid early failure and costly repairs of the system.
4. DO NOT dispose into the system such items as rags, string, sanitary napkins, coffee grounds as they can cause it to clog and fail.
5. Further information can be obtained by contacting your Health Department at 253-7077.





**CONSTRUCTION NOTES**

- 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.
- All topsoil, subsoil, stumps, roots, stones and any buried topsoil and subsoil strata shall be removed from the area of the leaching trenches and the area between and five feet around the leaching trenches and wherever any fill is to be placed. Any fill shall be a clean granular sand and conform to the specifications of Title 5, 310 CMR 15.255(3).
- The finished grade above the soil absorption system shall have a minimum two percent (2%) slope to shed surface runoff away from system.
- Disturbed areas shall be loamed and seeded to match adjacent grade and grass and mulched until permanent vegetative cover is established.
- Abandon existing septic tank: pump, rupture bottom of tank, fill with clean sand.
- Any part of the soil absorption trenches located under areas subject to vehicular traffic shall be constructed with SCH 40 PVC and vented and be capable of withstanding H-20 wheel loads.

**SOIL INVESTIGATION**

TEST PIT NO.	Elev.	Soil Description	PERCOLATION TEST AT 42"
0" - 20"	Ap	Fine sandy loam Matrix: 7.YR/3	Saturation Period: 15 min. Percolation Rate: <2 min/in.
20" - 38"	Bw	Fine sandy loam Matrix: 7.5YR5/8	
38" - 82"	C1	Coarse sand Matrix: 7.5YR5/6	
82" - 90"	C2	Very fine loamy sand Matrix: 10YR4/3 w/ lenses of fine sand Mottling: (30%) 7.5YR4/4	
90" - 96"	C3	Silt loam, firm Matrix: 5B5/1 Mottling: (25%) 2.5Y6/4	

Design for Class 1 soils (stratified glacial outwash)  
Groundwater Elevation 89.5'  
Bedrock Elevation lower than 89.0'

**TEST PIT NO. 2 Elev. 96.0'**

0" - 9"	A	Fine sandy loam (fill) Matrix: 7.5YR2.5/2
9" - 17"	B	Coarse sand w/ some gravel (fill) Matrix: 10YR5/6
17" - 27"	A	(Buried) Fine sandy loam Matrix: 7.YR/3
27" - 36"	Bw	(Buried) Fine loamy sand Matrix: 10YR5/8
36" - 72"	C1	Fine to coarse sand stratified Matrix: 7.5YR5/8 Mottling: (5%) 5YR5/8
72" - 90"	C2	Coarse sand (loose) Matrix: 7.5YR5/6 Mottling: (30%) 5YR5/8
90" - 92"	C3	Very fine sand and silt (varved) (firm) Matrix: 10YR5/3 (very fine sand lenses: 7.5YR5/8)

Design for Class 1 soils (stratified glacial outwash)  
Groundwater Elevation 90.0'  
Bedrock Elevation lower than 88.30'

Wetlands within 100 feet of the proposed soil absorption system as shown. This area served by public water supply; no wells observed within 200 feet of proposed soil absorption system at survey. Soils investigation and percolation testing performed by Robert Stover, Certified Soil Evaluator on November 21, 1995 and witnessed by David Zarozinski, Sanitarian, Town of Amherst.

**DESIGN CRITERIA**

Four bedroom house.  
Garbage disposal shall be removed.  
Proposed septic tank: 1500 gal. two compartment septic tank.

**DESIGN CALCULATION**

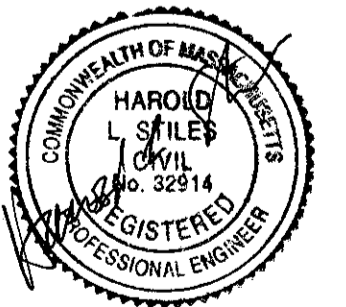
Design flow: 4 bdrm @ 110gpd/bdrm = 440 gpd.  
Soil loading factor: Percolation rate = less than 2 minute/inch.  
Bottom area: 0.74 gpd/sq.ft.  
Sidewall area: 0.74 gpd/sq.ft.

Proposed soil absorption system: three leaching trenches each 50 feet long by 18 feet wide by 0.5 feet deep (below invert of distribution lines).

Bottom area: (50 x 3)3 = 450 sq.ft. x 0.74 = 333.00 gpd  
Sidewall area: (50 x 1)6 = 300 sq.ft. x 0.74 = 222.00 gpd  
**TOTAL LEACHING CAPACITY = 555.00 gpd**  
**TOTAL REQUIRED = 440.00 gpd OK**

**GENERAL CONDITIONS**

- This system repair plan is prepared in accordance with 310 CMR 15.00 (Title 5). Construction shall conform to same.
- The installer shall notify designer of any unusual conditions and shall not modify the plan without the written consent of the designer. All debris in the site area shall be removed and disposed of in accordance with the law.
- There is no guarantee express or implied to any user of a system installed pursuant to this plan.
- Inspections of excavation and installation: the installer shall notify the designer when the excavation is complete and prior to the installation of washed stone and pipe to verify elevations. The installer shall notify designer and the Amherst Sanitarian when the system installation is complete and prior to placement of the cover material for final inspection. Notifications shall be 48 hours prior to the time of inspection.
- The on-site sewage disposal system shall be pumped and inspected as necessary and at least once every three years.

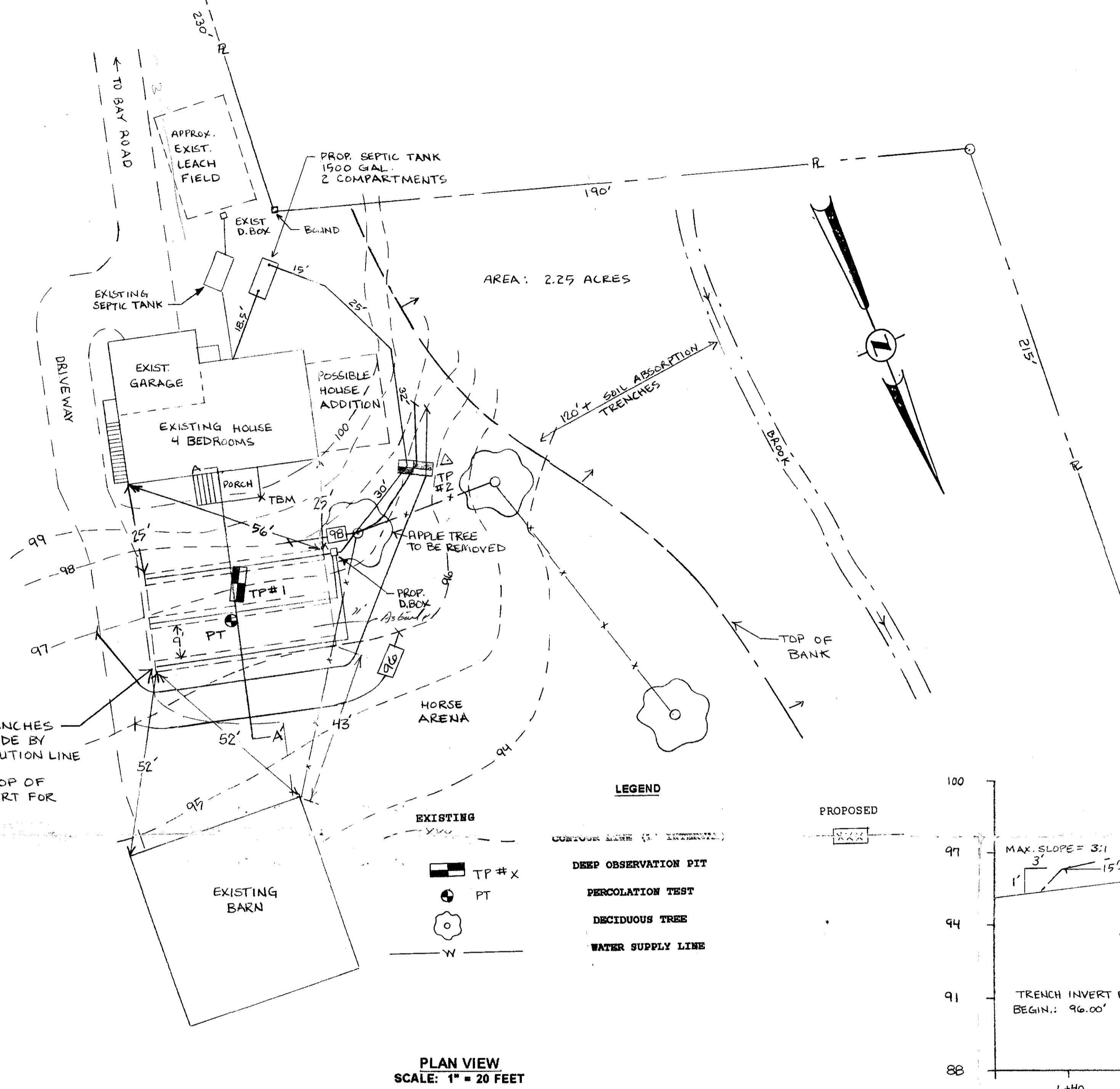


12/21/95

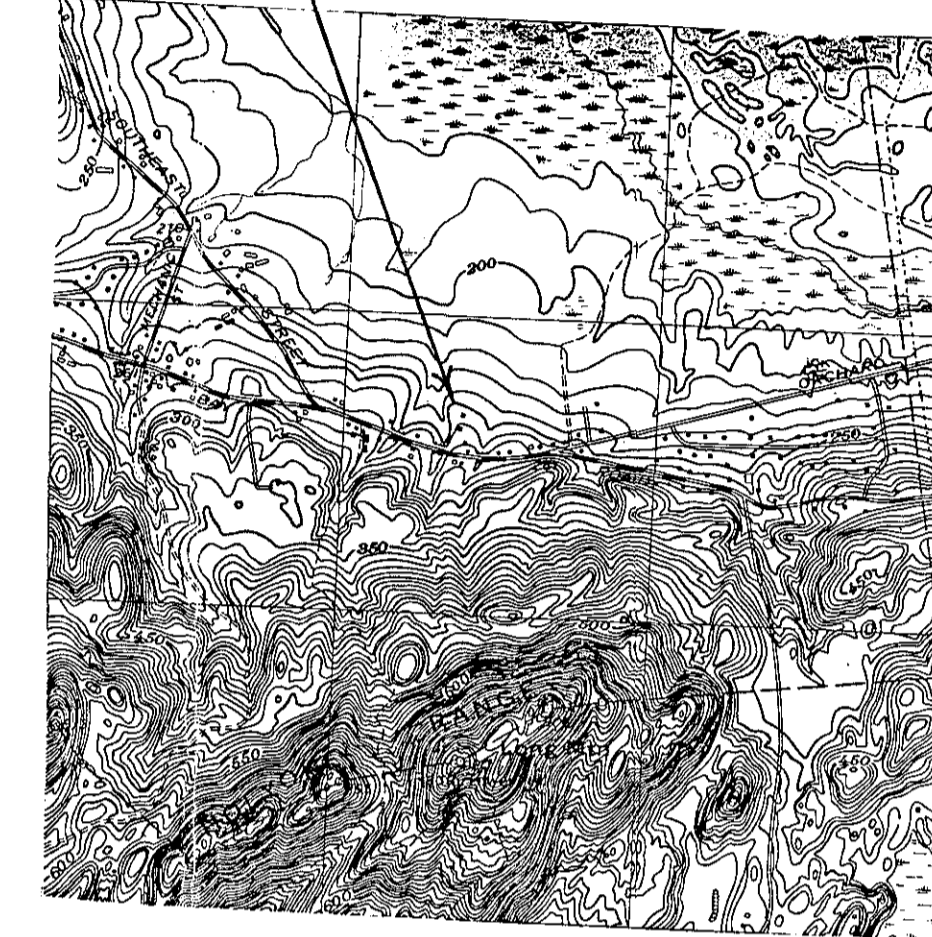
**ON-SITE SEWAGE DISPOSAL SYSTEM**  
968 BAY ROAD, AMHERST, MA

**RUTH WITKOWSKI & GEORGE HOWE**  
968 BAY ROAD., AMHERST, MA 01002

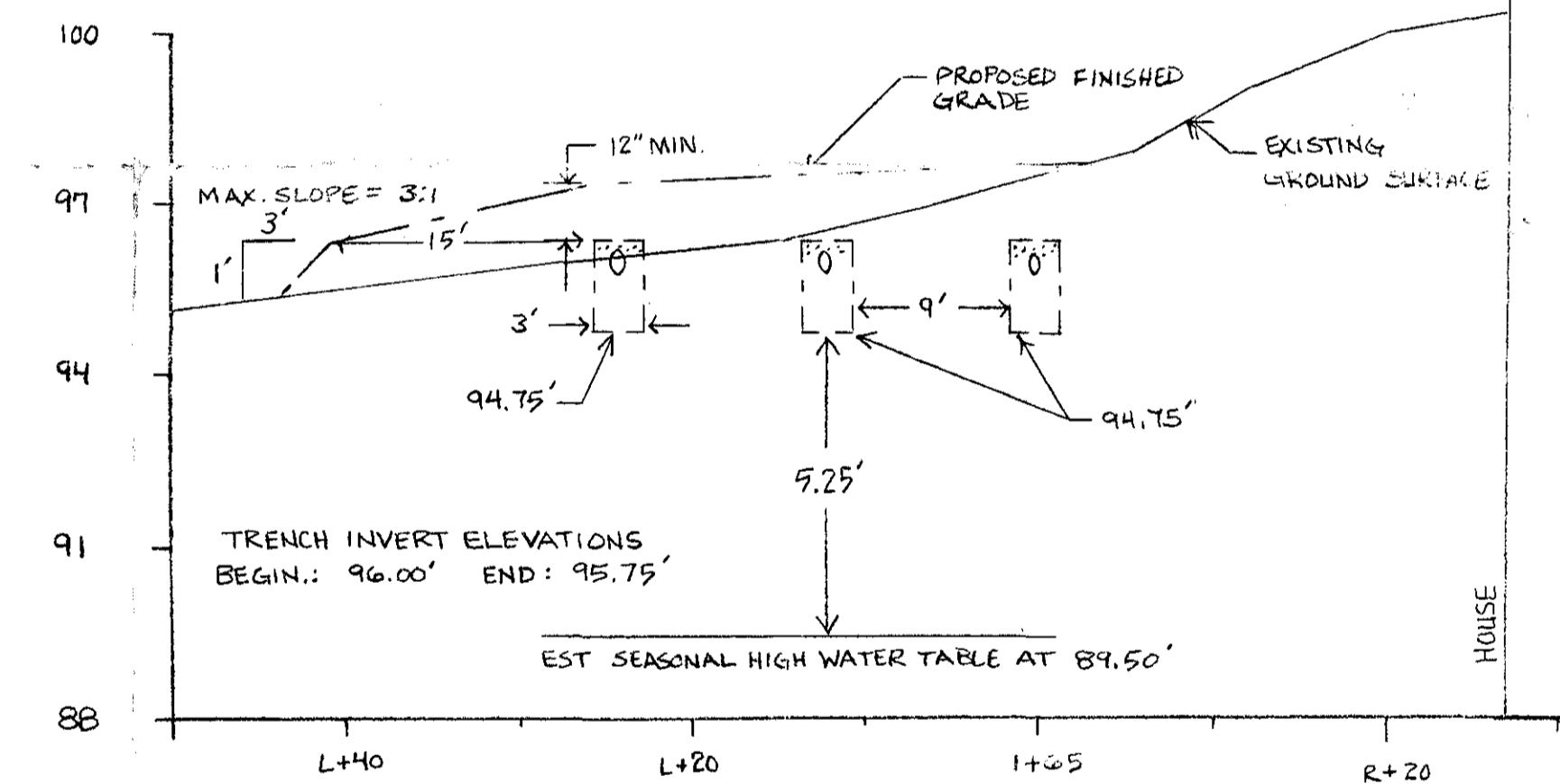
SCALE: AS SHOWN  
DATE: DEC. 18, 1995  
DESIGN BY: RWS  
CHECKED BY: HLS  
**AMHERST CIVIL ENGINEERING**  
HAROLD L. STILES, P.E. / ROBERT STOVER  
6 UNIVERSITY DR., BOX 144, AMHERST, MA 01004-6000  
(413) 256-3400  
DRAWING NUMBER: 95-11-10



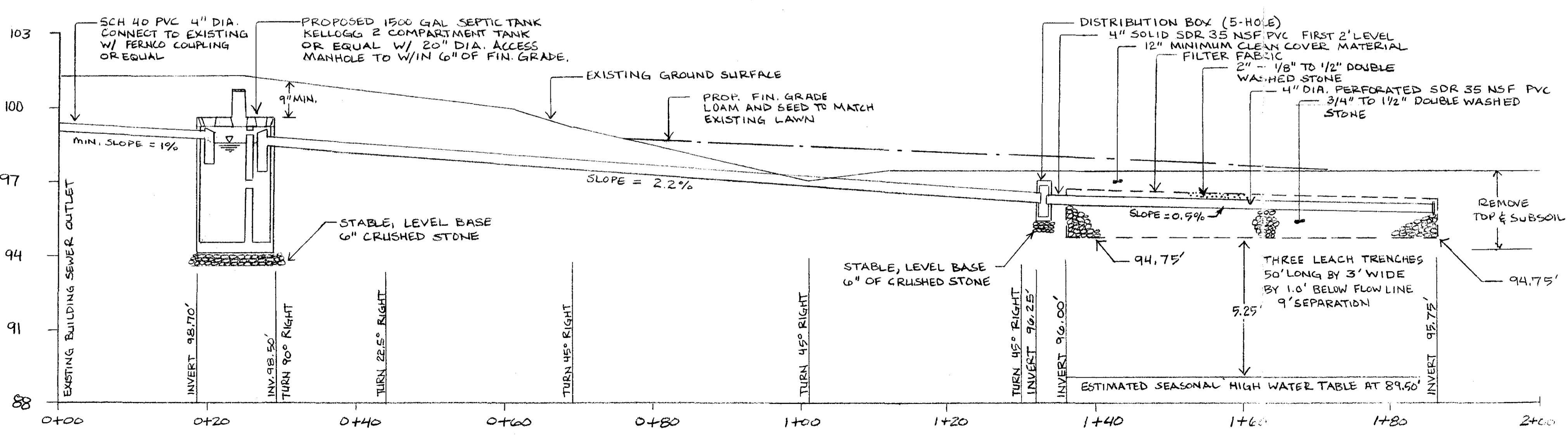
**PROJECT LOCATION**



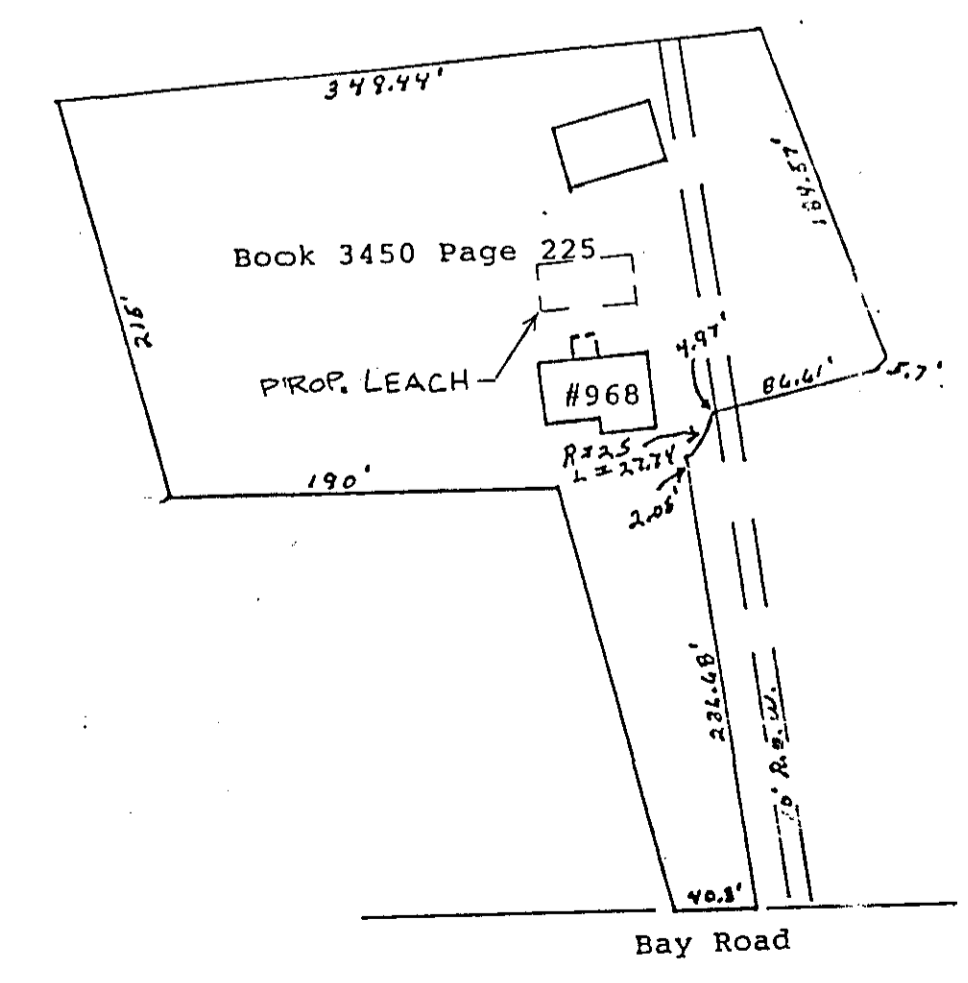
**LOCUS PLAN**  
FROM USGS BELCHERTOWN, MASS QUADRANGLE  
SCALE: 1:25 000



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



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



**PLAN OF PROPERTY**  
FROM MORTGAGE LOAN INSP. PLAT BY R.J. LABARGE, PLS (4/14/94)  
SCALE: 1" = 100' ±

