



HOWARD ENVIRONMENTAL SERVICES
750 NORTH PLEASANT STREET (REAR)
AMHERST, MA 01002
(413) 256-8008

JOB KLAUSNER-WISE #376

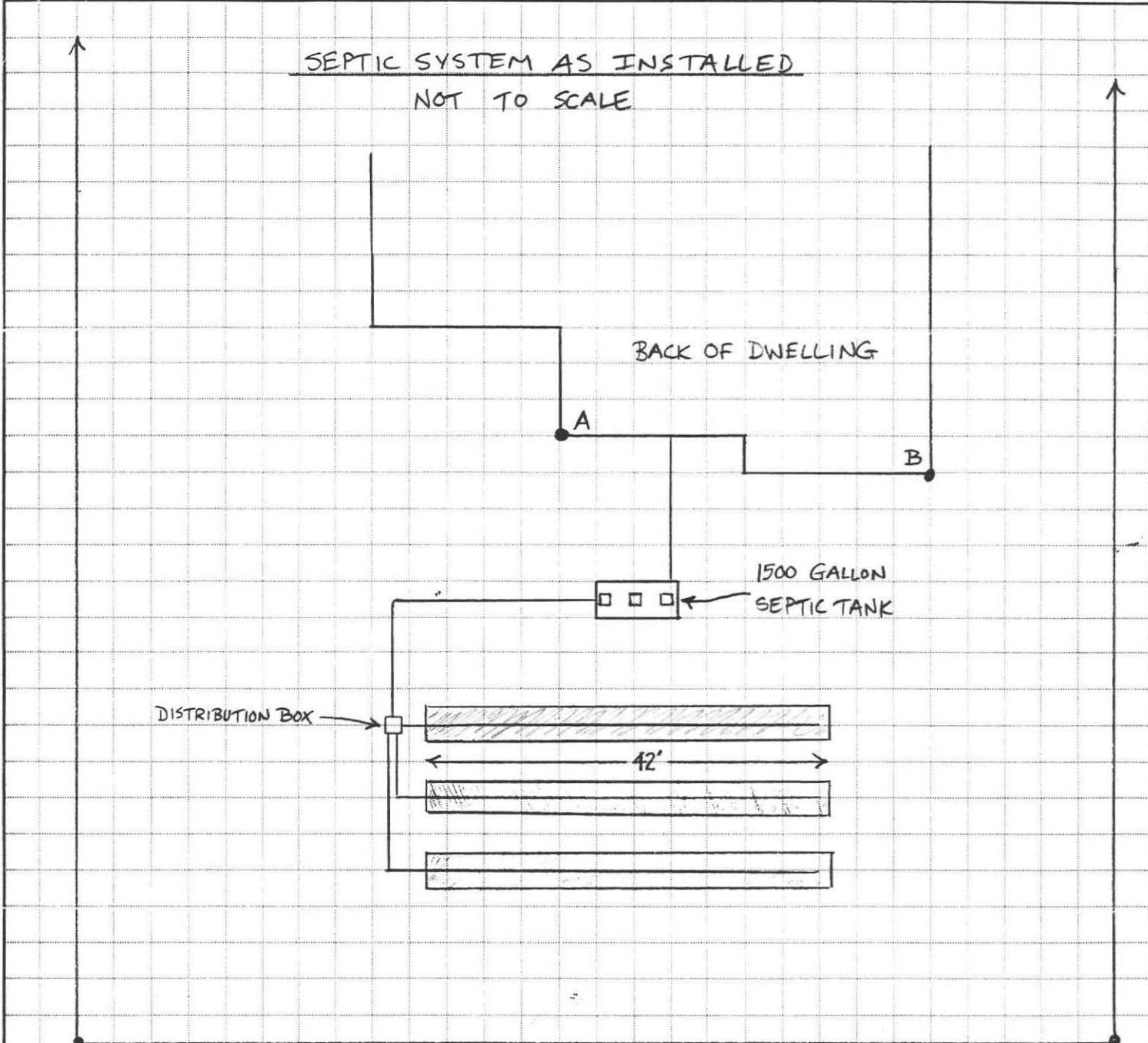
SHEET NO. 376 STATION ROAD, AMHERST

CALCULATED BY _____ DATE _____

CHECKED BY M. THOMPSON DATE 11/21/97

SCALE _____

SEPTIC SYSTEM AS INSTALLED
NOT TO SCALE



COMPONENT	DISTANCE FROM CORNER "A"	DISTANCE FROM CORNER "B"
SEPTIC TANK	16'	30'
D-BOX	31.5'	57'



No. 97-6

THE COMMONWEALTH OF MASSACHUSETTS

FEE 160⁰⁰
042117

BOARD OF HEALTH

Town of Amherst

Application for Disposal System Construction Permit

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

376 Station Road

Location - Address
Jeremy & Janet Klausner-Wise
Owner
Howard Environmental Services
Designer or Installer

or Lot No.
128 Shays St. Amherst, MA 01002
Address
750 No. Pleasant St. Amherst MA 01002
Address

Type of Building _____ Size Lot _____ Sq. feet
Dwelling — No. of Bedrooms 4 Expansion Attic () Garbage Grinder (No)
Other — Type of Building _____ No. of persons _____ Showers () — Cafeteria ()
Other fixtures _____

Design Flow 68.75 gallons per person per day. Calculated daily flow 550 gallons.
Septic Tank — Liquid capacity 1500 gallons Length 126" Width 68" Diameter _____ Depth 64"
Disposal Trench — No. 3 Width 2' Total Length 42' Total leaching area 756 sq. ft.
Seepage Pit No. _____ Diameter _____ Depth below inlet _____ Total leaching area _____ sq. ft.

Other Distribution box (X) Dosing tank ()
Percolation Test Results Performed by Fred Filios Date 4-17-97
Test Pit No. 1 < 2 minutes per inch Depth of Test Pit 1: 120" Depth to ground water Dry
Test Pit No. 2 < 2 minutes per inch Depth of Test Pit 2: 130" Depth to ground water Dry
Description of Soil See Soil Evaluation Logs

Nature of Repairs or Alterations — Answer when applicable _____

Date Last Inspected _____

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.

Application Approved By Janet Klausner-Wise Date 5/30/97
David Jaczynski for Inspector Date 6-10-97

Application Disapproved for the following reasons: _____

Permit No. 97-6 Issued 6-10-97 Date

Ch Wall

THE COMMONWEALTH OF MASSACHUSETTS

Amherst BOARD OF HEALTH

Certificate of Compliance

THIS IS TO CERTIFY, That the On-Site Sewage Disposal System installed (X) or Repaired/Replaced () on _____ by _____ for _____ at _____ has been constructed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal System Construction Permit No. 97-6 dated _____ 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. This Certificate expires on _____

DATE 11-21-97 Inspector Mark Thompson Date 11/21/97

No. 97-6

THE COMMONWEALTH OF MASSACHUSETTS

FEE 160⁰⁰

Amherst BOARD OF HEALTH

Disposal System Construction Permit

Permission is hereby granted to Jeremy & Janet Klausner-Wise to Construct (X) or Repair/Replace () an On-Site Sewage Disposal System located at 376 Station Road Street

as described on the application for Disposal System Construction Permit. The Applicant recognizes his/her duty to comply with Title 5 and the following local provisions or special conditions.

All construction must be completed within three years of the date below. DATE 6-10-97 David Jaczynski for Inspector Board of Health

Two

Application for a grant of

Faint, illegible text in the top section of the document, possibly containing details of an application or a list of items.

THE ISSUANCE OF THIS DECREE IS SUBJECT TO THE APPROVAL OF THE BOARD OF THE

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No. _____

Date: _____

Commonwealth of Massachusetts
 , Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: *Fred Filios*
 Witnessed By: *David Zorazinski*

Date: *4-17-97*

Location Address or Lot #: <i>376 Station Rd.</i>	Owner's Name: <i>Jeanne + Jan Klaesner</i> Address: <i>128 Shea St.</i> Telephone #: <i>Amherst MA. 01002</i>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Excavator - Quabbin Forest Products

Published Soil Survey Available: No Yes

Year Published *1981*

Publication Scale *1:15840*

Soil Map Unit *HgD*

Drainage Class

Soil Limitations *Excessively Drained*

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)

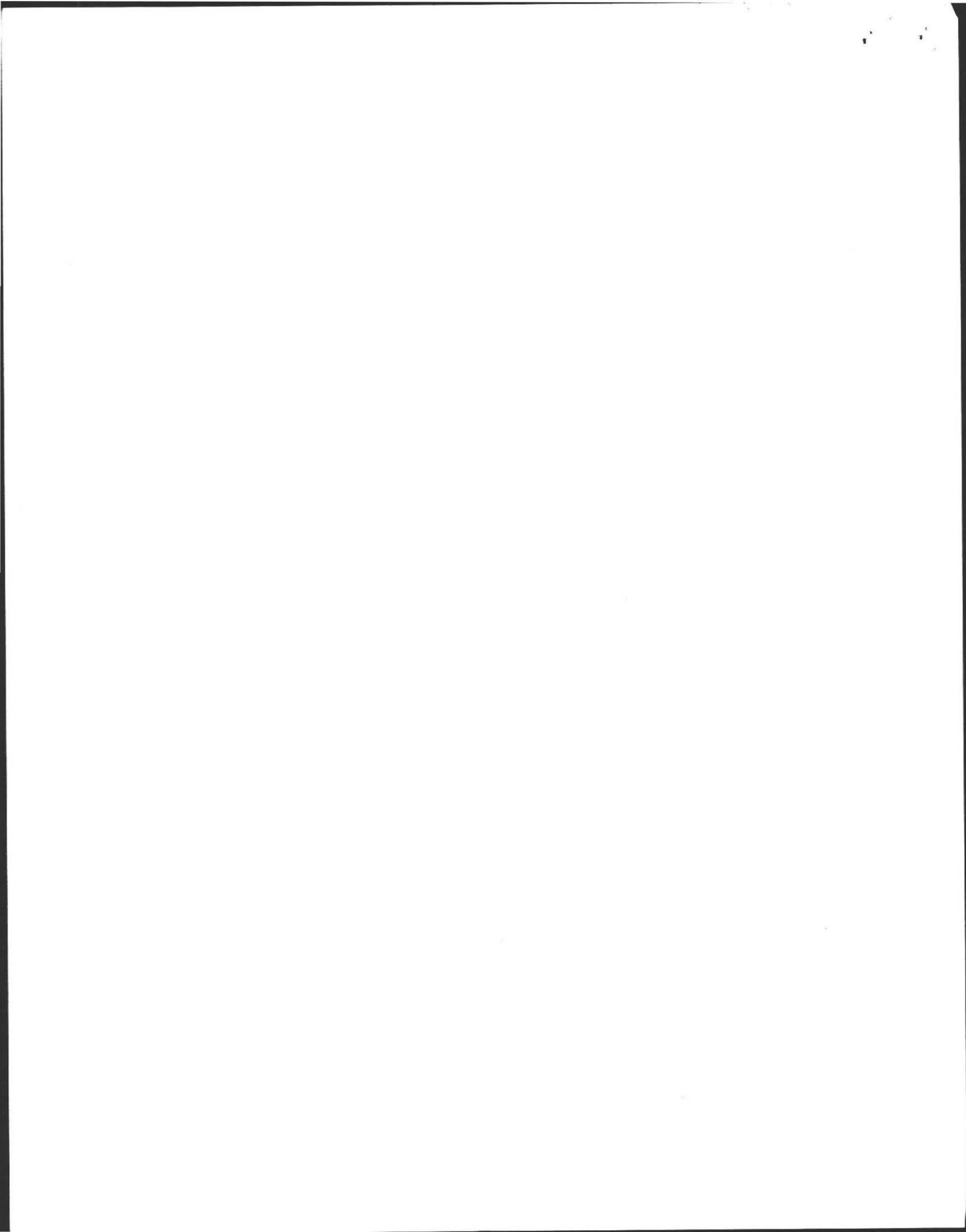
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range : Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 376 Station Road

On-site Review

Deep Hole Number 1 Date: 4/17/97 Time: 10:00 Weather cldy light rain

Location (identify on site plan) See Map

Land Use Cleared Slope (%) 4% Surface Stones no

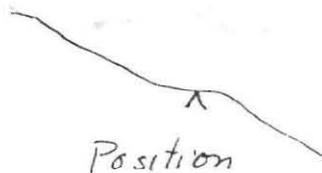
Vegetation Stumps

Landform Terrace scarp

Position on landscape (sketch on the back)

Distances from:

Open Water Body 200 + brook feet Drainage way 100 + feet
Possible Wet Area 100 + feet Property Line 30 feet
Drinking Water Well 200 + 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 - 8"	A _p	S.L.	10YR 4/3	—	friable
8 - 18"	B _w	S L	7.5YR 5/6	—	friable
18 - 120"	C	Coarse sand	10YR 6/4	—	Loose - stratified 5% fine gravel

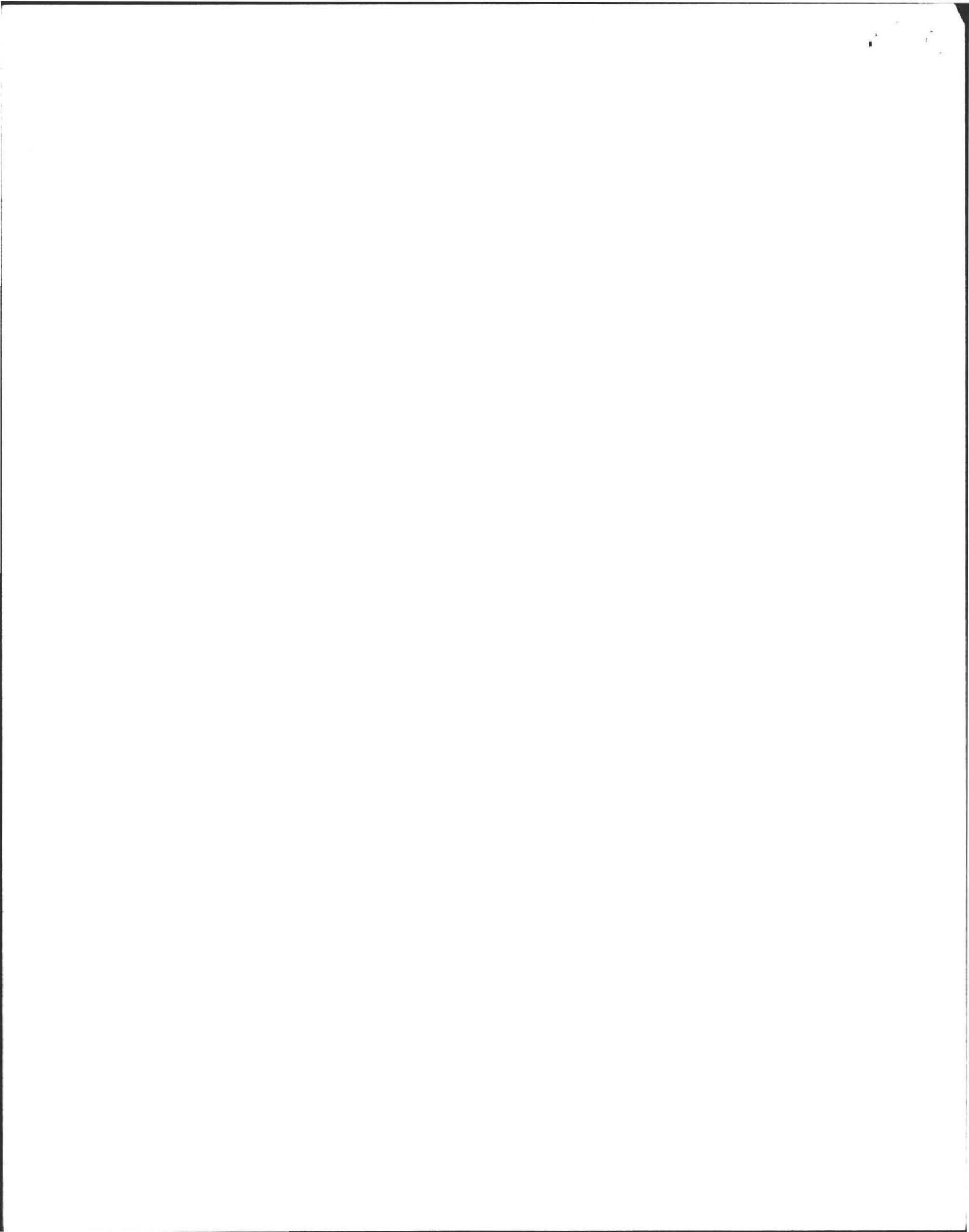
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: none

Depth to Groundwater: Standing Water in the Hole: none Weeping from Pit Face: none

Estimated Seasonal High Ground Water: > 120"





Location Address or Lot No. 376 Station Road.

On-site Review

Deep Hole Number 2 Date: 4/17/97 Time: 10:00 Weather cldy

Location (identify on site plan) See plan

Land Use Cleared Slope (%) 4 Surface Stones none

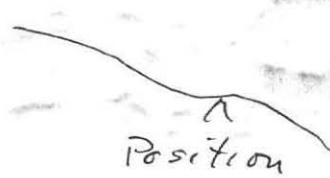
Vegetation Stumps

Landform Terrace Scarp

Position on landscape (sketch on the back)

Distances from:

Open Water Body 200+ feet ^{brook} Drainage way 100+ feet
 Possible Wet Area 100+ feet Property Line 50' feet
 Drinking Water Well 200+ 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)
0-7"	A _p	SL	10YR 3/3	—	friable
7-24"	B _w	SL	7.5YR 5/4	—	friable
24-130"	C	Sand	10YR 6/3	—	Stratified - Loose 20% gravel in some layers

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glacial outwash Depth to Bedrock: none

Depth to Groundwater: Standing Water in the Hole: none Weeping from Pit Face: none

Estimated Seasonal High Ground Water: > 130"



Location Address or Lot No. 376 Station RoadDetermination for Seasonal High Water TableMethod 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

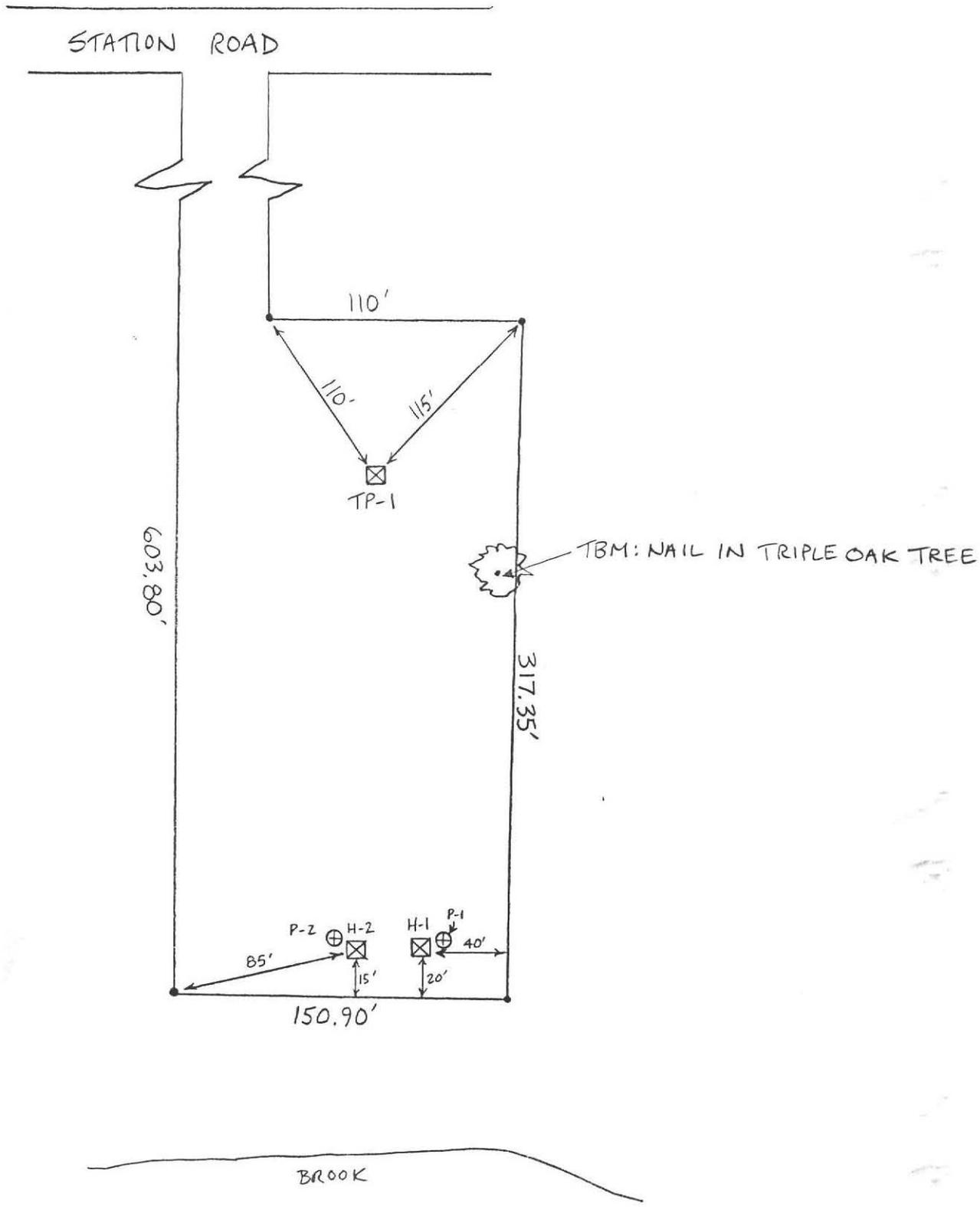
Index Well Number Reading Date Index well level

Adjustment factor Adjusted ground water level

Depth of Naturally Occurring Pervious MaterialDoes 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? _____

CertificationI 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 Ludwika Siles Date 4/17/97



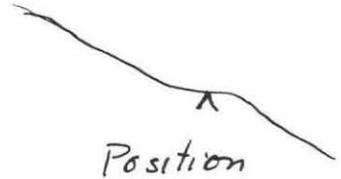
Location Address or Lot No. 376 Station Road

On-site Review

Deep Hole Number 1 Date: 4/17/97 Time: 10:00 Weather cldy
 Location (identify on site plan) See Map light rain
 Land Use Cleared Slope (%) 4% Surface Stones no
 Vegetation Stumps
 Landform Terrace scarp
 Position on landscape (sketch on the back)

Distances from:

Open Water Body 200 + brook feet Drainage way 100 + feet
 Possible Wet Area 100 + feet Property Line 30 feet
 Drinking Water Well 200 + 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)
<u>0 - 8"</u>	<u>A_p</u>	<u>S.L.</u>	<u>10YR 4/3</u>	<u>—</u>	<u>friable</u>
<u>8 - 18"</u>	<u>B_w</u>	<u>S.L.</u>	<u>7.5YR 5/6</u>	<u>—</u>	<u>friable</u>
<u>18 - 120"</u>	<u>C</u>	<u>Coarse Sand</u>	<u>10YR 6/4</u>	<u>—</u>	<u>Loose - stratified</u> <u>5% fine gravel</u>

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) cat wash Depth to Bedrock: none
 Depth to Groundwater: Standing Water in the Hole: none Weeping from Pit Face: none
 Estimated Seasonal High Ground Water: > 120"



No. _____

Date: _____

Commonwealth of Massachusetts
Massachusetts
Soil Suitability Assessment for On-site Sewage Disposal

Performed By: *Fred Filios*
Witnessed By: *David Zorazinski*

Date: *4-17-97*

Location Address or Lot # <i>376 Station Rd.</i> New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	Owner's Name, Address, and Telephone # <i>Jeramy + Jan Klaesner 128 Shea St. Amherst MA. 01002</i>
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Office Review

Excavator - Quabbin Forest Prodn.

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. 376 Station Road.

On-site Review

Deep Hole Number 2 Date: 4/17/97 Time: 10:00 Weather cldy
 Location (identify on site plan) See plan
 Land Use Cleared Slope (%) 4 Surface Stones none
 Vegetation Stumps
 Landform Terrace Scarp
 Position on landscape (sketch on the back)

Distances from:

Open Water Body 200+ feet ^{brook} Drainage way 100+ feet
 Possible Wet Area 100+ feet Property Line 50' feet
 Drinking Water Well 200+ feet Other _____



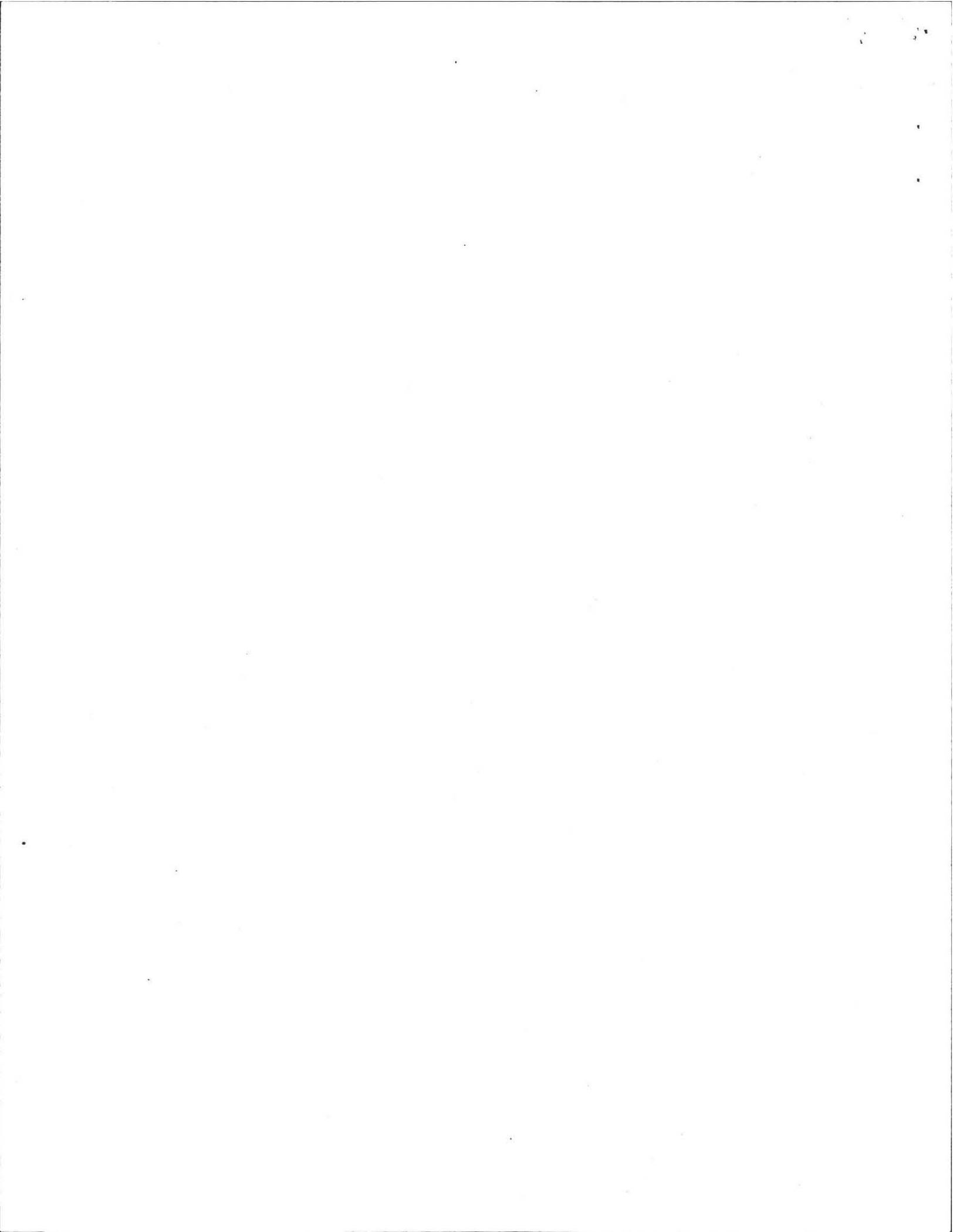
DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-7"	A _p	SL	10YR 3/3	—	friable
7-24"	B _w	SL	7.5YR 5/4	—	friable
24-130"	C	Sand	10YR 6/3	—	Stratified - Loose 20% gravel in some layers

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glacial outwash Depth to Bedrock: none
 Depth to Groundwater: Standing Water in the Hole: none Weeping from Pit Face: none
 Estimated Seasonal High Ground Water: > 130"





Location Address or Lot No. 376 Station Road

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? yes

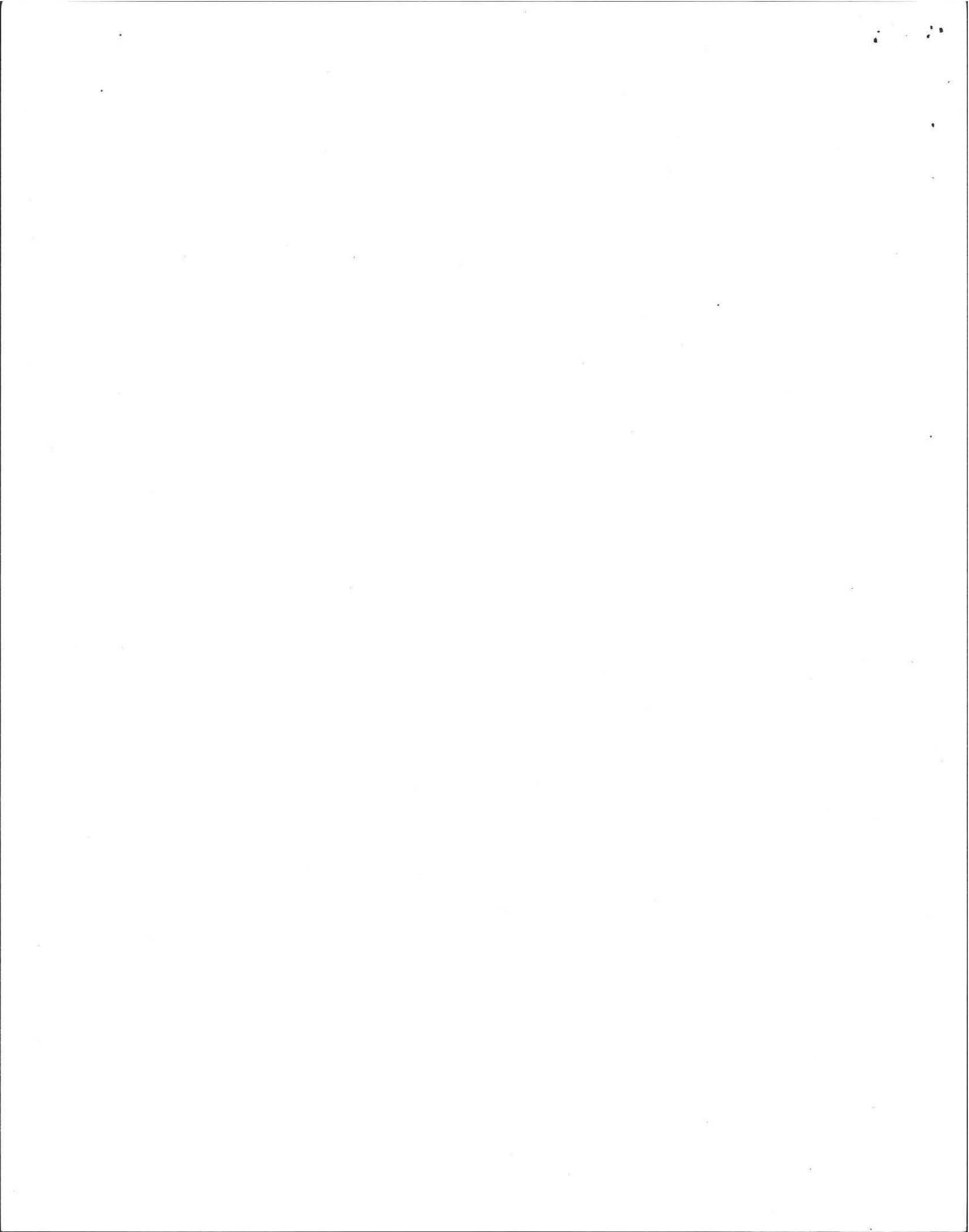
If not, what is the depth of naturally occurring pervious material? _____

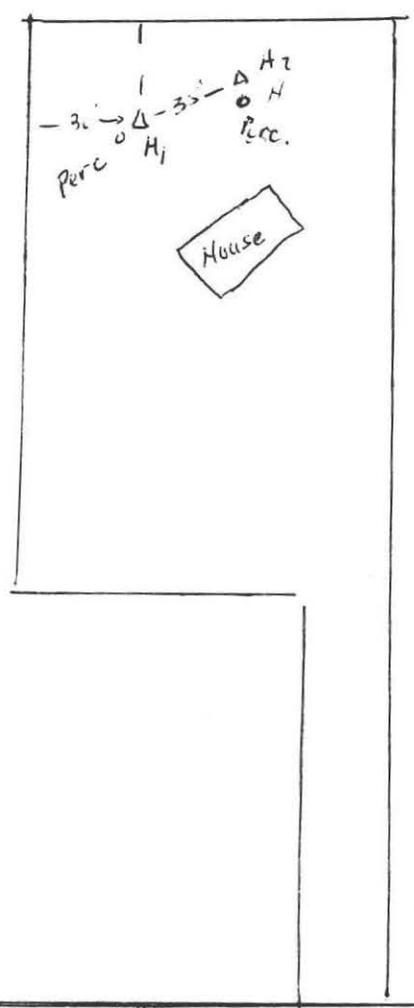
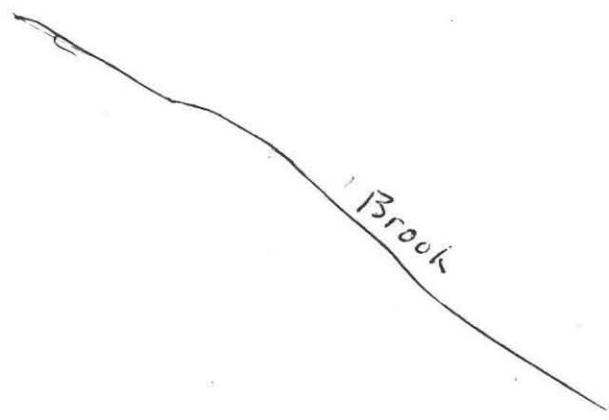
Certification

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 Fredrick A. Felios Date 4/17/97







Station Road

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

Percolation Test		
Date: <u>4/17/97</u>		Time: <u>10:00</u>
Observation Hole #	1	2
Depth of Perc	50"	54"
Start Pre-soak	10:38	11:00
End Pre-soak		
Time at 12"	<i>Will not</i>	<i>Will not</i>
Time at 9"	<i>hold water</i>	<i>Hold water</i>
Time at 6"	<i>water</i>	<i>water</i>
Time (9"-6")		
Rate Min./Inch	<i>1" in 26 Sec.</i>	<i>< 2 min/inch</i>

Site Suitability Assessment: Site Passed Site Failed

Additional Testing Needed: _____

Performed By: Fred Filios

Certification Number: 688

Witnessed By: David Zarazinski

Comments: _____

374 STATER (2d)

#1 9 T

32" SUB

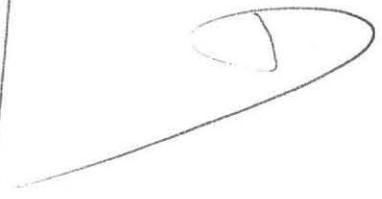
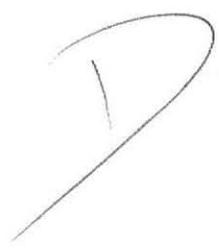
9

22

14' coarse sand with fine gravel
same med

13 1/2

same



376 STATION RD

Location Address or Lot No. _____

On-site Review

Deep Hole Number _____ Date: _____ Time: _____ Weather: _____
 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)
5"	A	S.L	10YR 3/3		FRinhib
28"	B _w	B L.S.	7.5YR 5		FRinhib Blocky 20% Fine Gravel
128"	C		10YR 5/4		Unstratified coarse sand w/ fine gravel few cobbles loose stratified

Minimum 12" ID
 B^{1/2}

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: _____



JOHN E. RITTER, JR.
&
BARBARA N. RITTER
BOOK 2462, PAGE 209

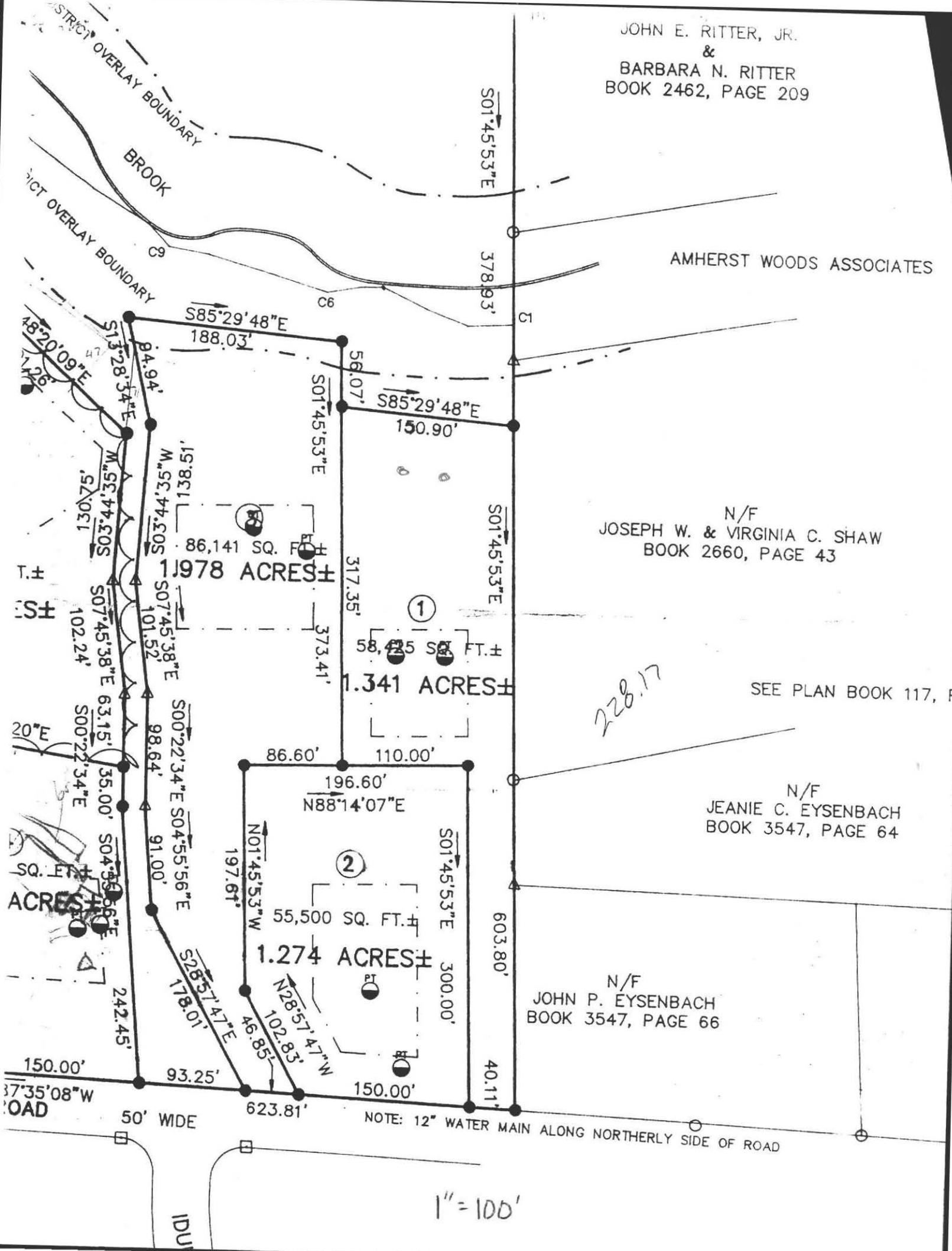
AMHERST WOODS ASSOCIATES

N/F
JOSEPH W. & VIRGINIA C. SHAW
BOOK 2660, PAGE 43

SEE PLAN BOOK 117, P

N/F
JEANIE C. EYSENBACH
BOOK 3547, PAGE 64

N/F
JOHN P. EYSENBACH
BOOK 3547, PAGE 66



NOTE: 12" WATER MAIN ALONG NORTHERLY SIDE OF ROAD

1" = 100'

228.17

50' WIDE
IDU

37°35'08"W
ROAD

SQ. FT. ±
ACRES ±

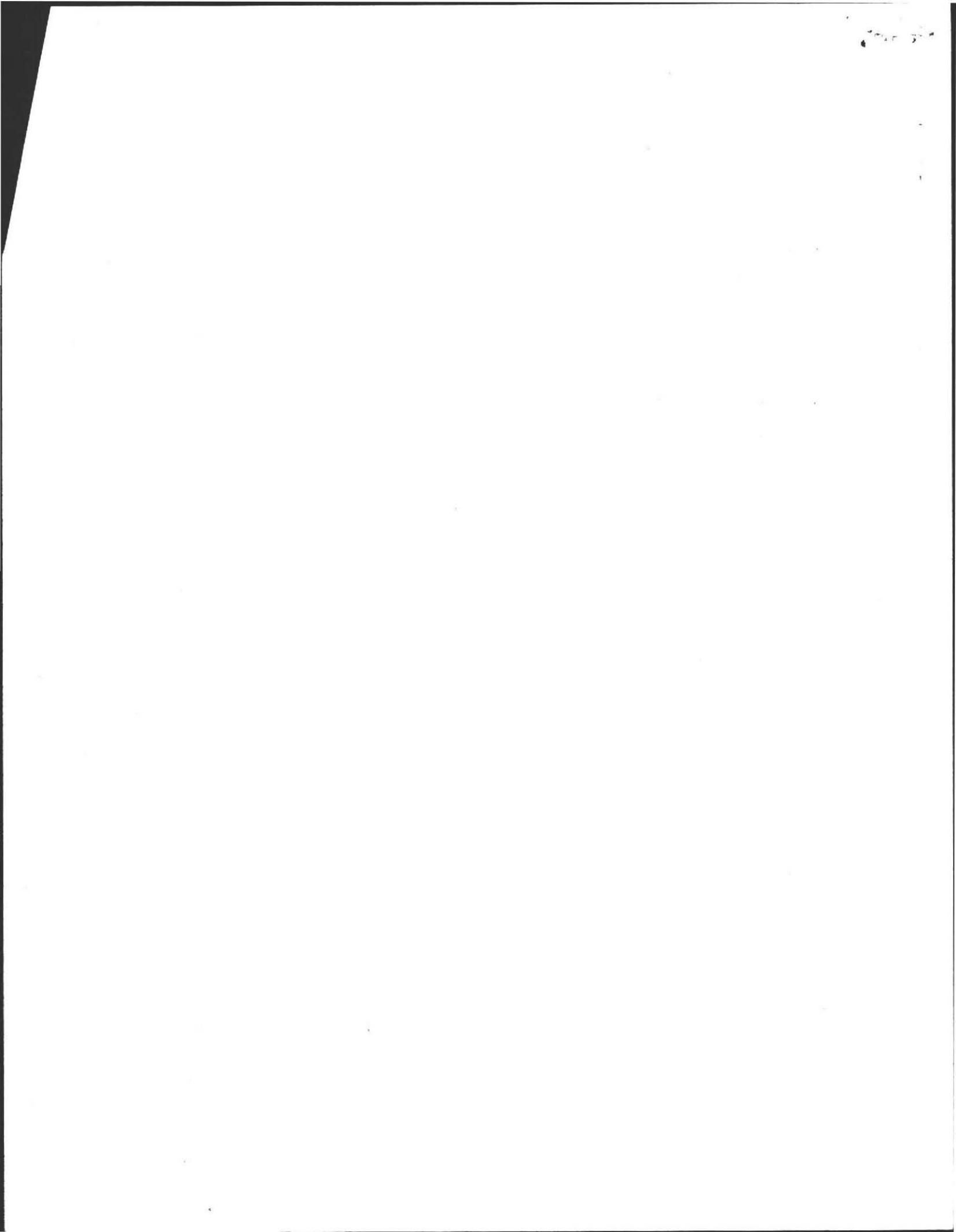
T. ±
S. ±

18°20'09"E
17.26'

STRUCTURE OVERLAY BOUNDARY
BROOK
STRUCTURE OVERLAY BOUNDARY

STRUCTURE OVERLAY BOUNDARY

STRUCTURE OVERLAY BOUNDARY



SITE PLAN SCALE: 1" = 30'

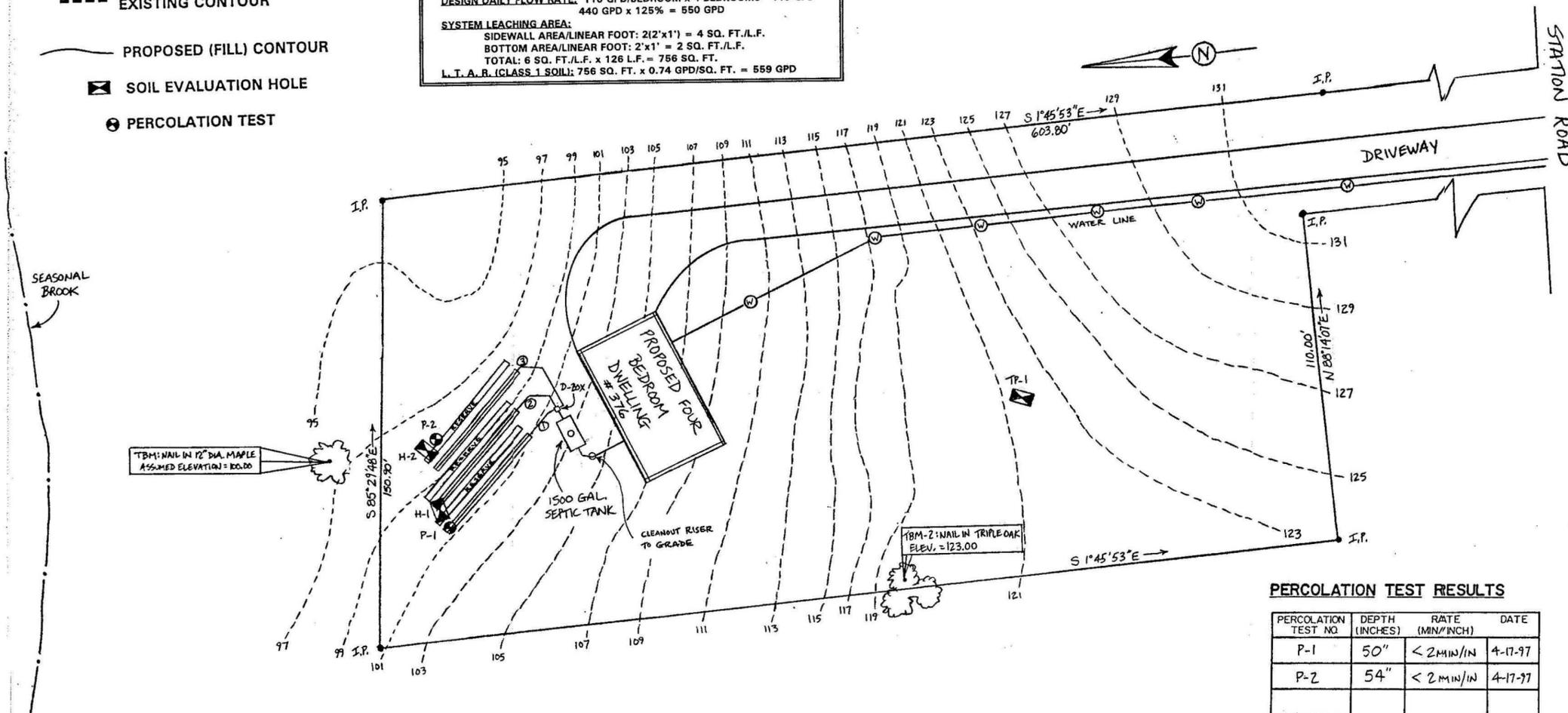
- EXISTING CONTOUR
- PROPOSED (FILL) CONTOUR
- ⊠ SOIL EVALUATION HOLE
- ⊙ PERCOLATION TEST

DESIGN CALCULATIONS

TRENCH DIMENSIONS: THREE 42 FT. LONG TRENCHES
2 FT. WIDE x 2 FT. DEEP

DESIGN PERC. RATE: 5 MIN./IN. (TESTED AT < 2 MIN./IN.)
DESIGN DAILY FLOW RATE: 110 GPD/BEDROOM x 4 BEDROOMS = 440 GPD
440 GPD x 125% = 550 GPD

SYSTEM LEACHING AREA:
SIDEWALL AREA/LINEAR FOOT: 2(2'x1') = 4 SQ. FT./L.F.
BOTTOM AREA/LINEAR FOOT: 2'x1' = 2 SQ. FT./L.F.
TOTAL: 6 SQ. FT./L.F. x 126 L.F. = 756 SQ. FT.
L.T.A.R. (CLASS 1 SOIL): 756 SQ. FT. x 0.74 GPD/SQ. FT. = 559 GPD



TBM-1 NAIL IN 12" DIA. MAPLE
ASSUMED ELEVATION = 100.00

TBM-2 NAIL IN TRIPLE OAK
ELEV. = 123.00

PERCOLATION TEST RESULTS

PERCOLATION TEST NO.	DEPTH (INCHES)	RATE (MIN./INCH)	DATE
P-1	50"	< 2 MIN./IN	4-17-97
P-2	54"	< 2 MIN./IN	4-17-97

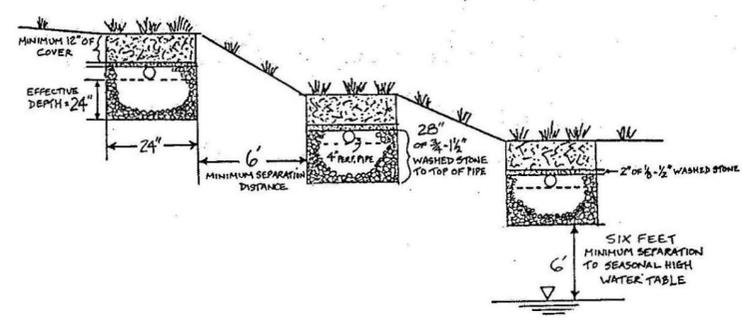
PERFORMED BY: FRED FILIUS
WITNESSED BY: DAVE ZARAZINSKI

SOIL LOGS SEE SOIL EVALUATION LOGS FOR MORE INFO.

HOLE NO. H-1 (EL. = 97.68)		HOLE NO. H-2 (EL. = 99.97)		HOLE NO. TP-1 (EL. = 121.62)	
DEPTH	SOIL TYPE	DEPTH	SOIL TYPE	DEPTH	SOIL TYPE
1-2"	TOPSOIL A	1-2"	TOPSOIL A	1-2"	TOPSOIL A
2-18"	SUBSOIL B	2-24"	SUBSOIL B	2-18"	SUBSOIL B
3-4"	COARSE SAND	3-4"	SAND	3-4"	SAND
4-10"	SAND	4-10"	SAND	4-10"	SAND
10-11"	DRY	10-11"	DRY	10-11"	DRY
11-12"	E.S.H.W.T. > 120"	11-12"	DRY	11-12"	DRY
			E.S.H.W.T. > 180"		E.S.H.W.T. > 156"

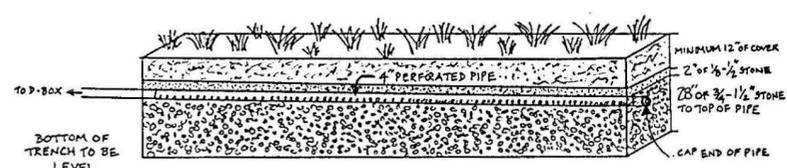
OBSERVED GROUNDWATER = ∇

TRENCH CROSS SECTION (NOT TO SCALE)



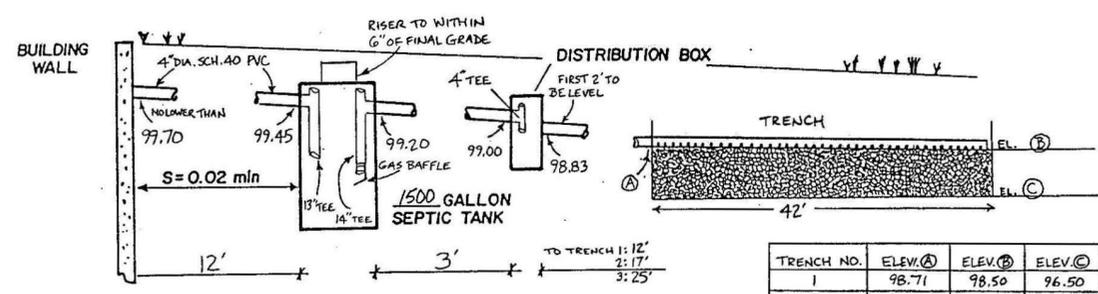
- NOTES**
- A MINIMUM THREE DAYS ADVANCE NOTICE WILL BE REQUIRED FOR ENGINEER TO INSPECT SYSTEM.
 - LOT TO BE SERVICED BY TOWN WATER (NO WELLS WITHIN 200 FT. OF SITE).
 - FIELD VERIFY DISTANCES TO PROPERTY LINES PRIOR TO ALL CONSTRUCTION AND OBSERVE LOCAL SETBACK REGULATIONS.
 - TO PREVENT SHORT CIRCUITING OF THE EFFLUENT, THE D-BOX IS TO BE INSTALLED WITH A FOUR INCH TEE CEMENTED TO THE INLET AND THE FIRST TWO LINEAR FEET OF OUTLET PIPES ARE TO BE LAID LEVEL (USE SPEED LEVELERS ON ENDS OF OUTLET PIPES).
 - BUILDING EXIT PIPE TO BE SCH. 40 PVC WITH A MINIMUM SLOPE OF 2% (REMAINDER OF PIPING TO BE SDR. 35 OR GREATER).
 - ALL CONSTRUCTION TO BE IN ACCORDANCE WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE.
 - SYSTEM NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL.
 - AVOID DRIVING OVER SEPTIC SYSTEM AT ALL TIMES.
 - SET TRENCHES AT ELEVATIONS NOTED IN PROFILE. BACKFILL TO PROVIDE A MINIMUM 12" OF COVER AND MOUND SLIGHTLY TO DIVERT SURFACE RUNOFF.
 - CONTRACTOR RESPONSIBLE FOR HORIZONTAL AND VERTICAL CONTROL.

LEACHING TRENCH (NOT TO SCALE)



TRENCH DIMENSIONS: LENGTH = 42' EFFECTIVE DEPTH: 2'
WIDTH = 2' NUMBER OF TRENCHES: THREE
DEPTH = 2-2.21'

SYSTEM PROFILE (NOT TO SCALE)



TRENCH NO.	ELEV. (A)	ELEV. (B)	ELEV. (C)
1	98.71	98.50	96.50
2	97.21	97.00	95.00
3	96.21	96.00	94.00

APPROVALS AND REVISIONS

RJF 5-5-97



HOWARD ENVIRONMENTAL SERVICES

750 No. Pleasant St. - Rear
Amherst, MA 01002
PHONE: (413) 256-8008
FAX: (413) 549-1850

TITLE

SEWAGE DISPOSAL SYSTEM

FOR

JEREMY & JANET KLAUSNER-WISE
128 SHAYS STREET
AMHERST, MA 01002
253 - 3690

FIELD 3-11-97, 4-17-97
DRAWN MTT
CALC. CHECK
DATE MAY 3, 1997
PLAN NO.

DATA REFERENCES

SITE LOCATION
376 STATION ROAD
AMHERST, MA
BENCHMARKS (TBM)
NAIL & ORANGE SHINER IN 12" DIA. MAPLE
ASSUMED ELEVATION = 100.00'
TBM-2: NAIL & ORANGE SHINER IN TRIPLE OAK
ELEV. = 123.00