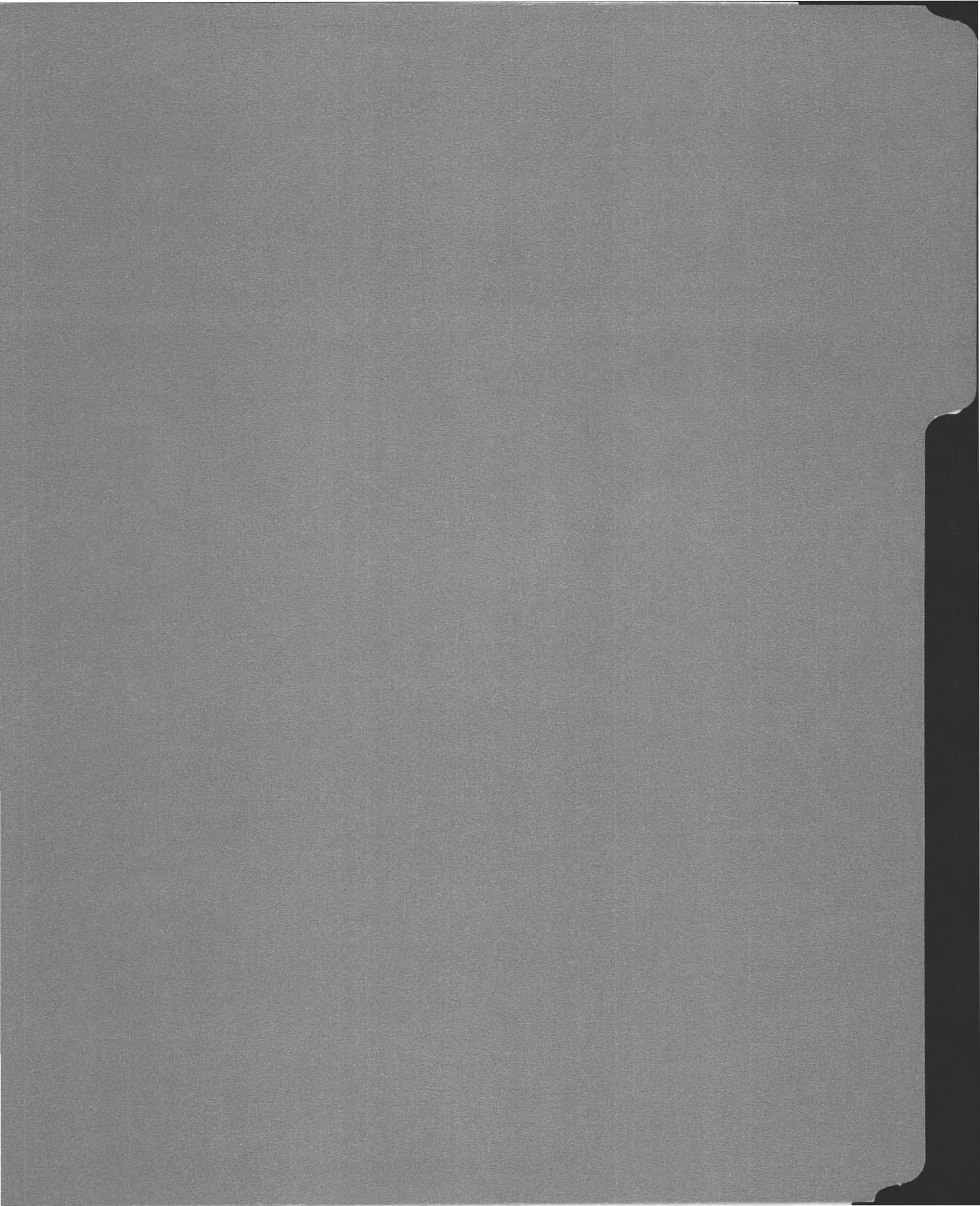


28 Hulst Rd.



No. 00-10

28

FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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



Location <u>28 HULST RD</u>	Owner's Name <u>Elaine Kensek</u>
Map/Parcel#	Address <u>28 HULST RD</u>
Lot# <u>28</u>	Telephone# <u>253-7852</u>
Installer's Name <u>LIF CONSTRUCTION</u>	Designer's Name <u>AL WEISS</u>
Address <u>608 Long Plain Road</u>	Address <u>Bolton town</u>
Telephone# <u>665-3788</u>	Telephone# <u>323-5957</u>

Type of Building RES. Lot Size 116,250 + 1/2 sq. ft.
 Dwelling - No. of Bedrooms 3 + 1 = 4
 Other - Type of Building _____ No. of persons _____ Garbage grinder ()
 Other Fixtures _____ Showers (), Cafeteria ()
 Design Flow (min. required) 440 gpd Calculated design flow 532 Design flow provided 532 gpd
 Plan: Date 6/30/00 Number of sheets 4 Revision Date _____
 Title SEPTIC SYSTEM REPAIR PLAN to MR
 Description of Soil(s) CLASS I, LOAMY SAND
 Soil Evaluator Form No. _____ Name of Soil Evaluator A. WEISS Date of Evaluation 6/20/00

DESCRIPTION OF REPAIRS OR ALTERATIONS NEW L. FIELD (RAISED) w NEW S. TANK + P. CHAMBER.

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

Signed Elaine Kensek-Abel Date 7-3-00

Inspections _____

No. 00-10

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

CERTIFICATE OF COMPLIANCE

Description of Work: Individual Component(s) Complete System

The undersigned hereby certify that the Sewage Disposal System; Constructed (), Repaired (), Upgraded (), Abandoned ()
 by: _____
 at 28 Hulst Road
 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. 00-10, dated _____, Approved Design Flow _____ (gpd)
 Installer _____ Designer: _____ Inspector: David P. [Signature] Date: 10-5-00
 The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

No. 00-10

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system at 28 Hulst Road as described in the application for Disposal System Construction Permit No. 00-10, dated 7/10/00.

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

Form 1255 Rev. 5/96 A.M. Sulkin Co. Boston, MA Date 7/10/00 Board of Health [Signature]

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

Agency Use Only	1. Agency Name	2. Agency Address
3. Agency City	4. Agency State	5. Agency Zip
6. Agency Telephone	7. Agency Fax	8. Agency E-mail
9. Agency Website	10. Agency Filing Office	11. Agency Reporting Period

12. Description of the Property

13. Date of Acquisition

14. Date of Valuation

15. Valuation Method

16. Valuation Date

17. Valuation Amount

18. Valuation Basis

19. Valuation Authority

20. Valuation Comments

The undersigned hereby certifies that the above information is true and correct to the best of his/her knowledge and belief, and that the valuation is based on the best available information.

Signature of Valuer

Name of Valuer

Title of Valuer

Signature of Approving Official

Name of Approving Official

Title of Approving Official

Signature of Agent

Name of Agent

Title of Agent

Signature of Appraiser

Name of Appraiser

Title of Appraiser

Signature of Valuer

Name of Valuer

Title of Valuer



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

Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

- Subsurface Investigations
- 21E Site Investigations
- Pollution Remediation
- Percolation Tests and Septic Designs

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

Date: 6/20/00

Commonwealth of Massachusetts
AMHERST, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. WEISS

Date: 6/20/00

Witnessed By: AS PER, D. ZAROZUSKI

c/o

Location Address or Lot # <u>28 HULST RD. AMHERST</u>	Owner's Name, Address, and Telephone # <u>MS. Elaine Kenseth - Abel 22 GRAND AVE MILLERS FALLS, MA. 01349</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	<u>253-7832, 659-3760</u>

Office Review

Published Soil Survey Available: No Yes

Year Published 1981 Publication Scale 1:25,000 Soil Map Unit H96-

Drainage Class RAND Soil Limitations N/A

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)

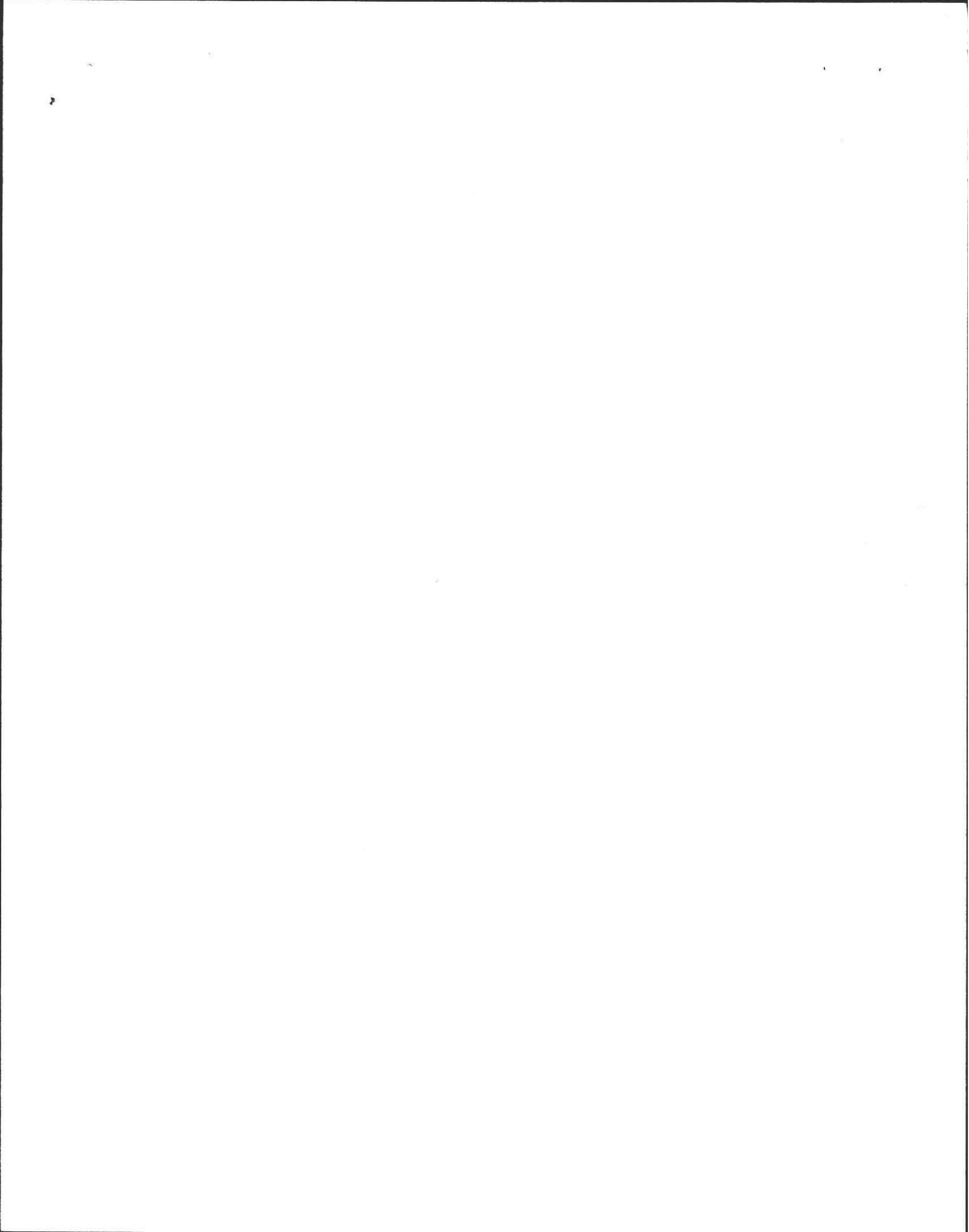
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range :Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 28 HULST RD

On-site Review

Deep Hole Number IP-2 Date: 6/20/00 Time: 12:00 Weather SUN 80°F

Location (identify on site plan) _____

Land Use RURAL RESID Slope (%) 2 Surface Stones _____

Vegetation DECIDUOUS

Landform _____

Position on landscape (sketch on the back) _____

Distances from:

Open Water Body 100' feet Drainage way 100' feet
 Possible Wet Area 100' feet Property Line 50' feet
 Drinking Water Well 100' 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)
0-12"	A	FSL	2.5Y3/3		
12-16"	Bw	FSL	2.5Y5/6		
16"-84"	C ₁	LS	2.5Y5/4	48" 10YR5/6 prominent	FINE SAND w/ SOME SILT INTER-LAYERED WITH C. SAND
84"±	C ₂				

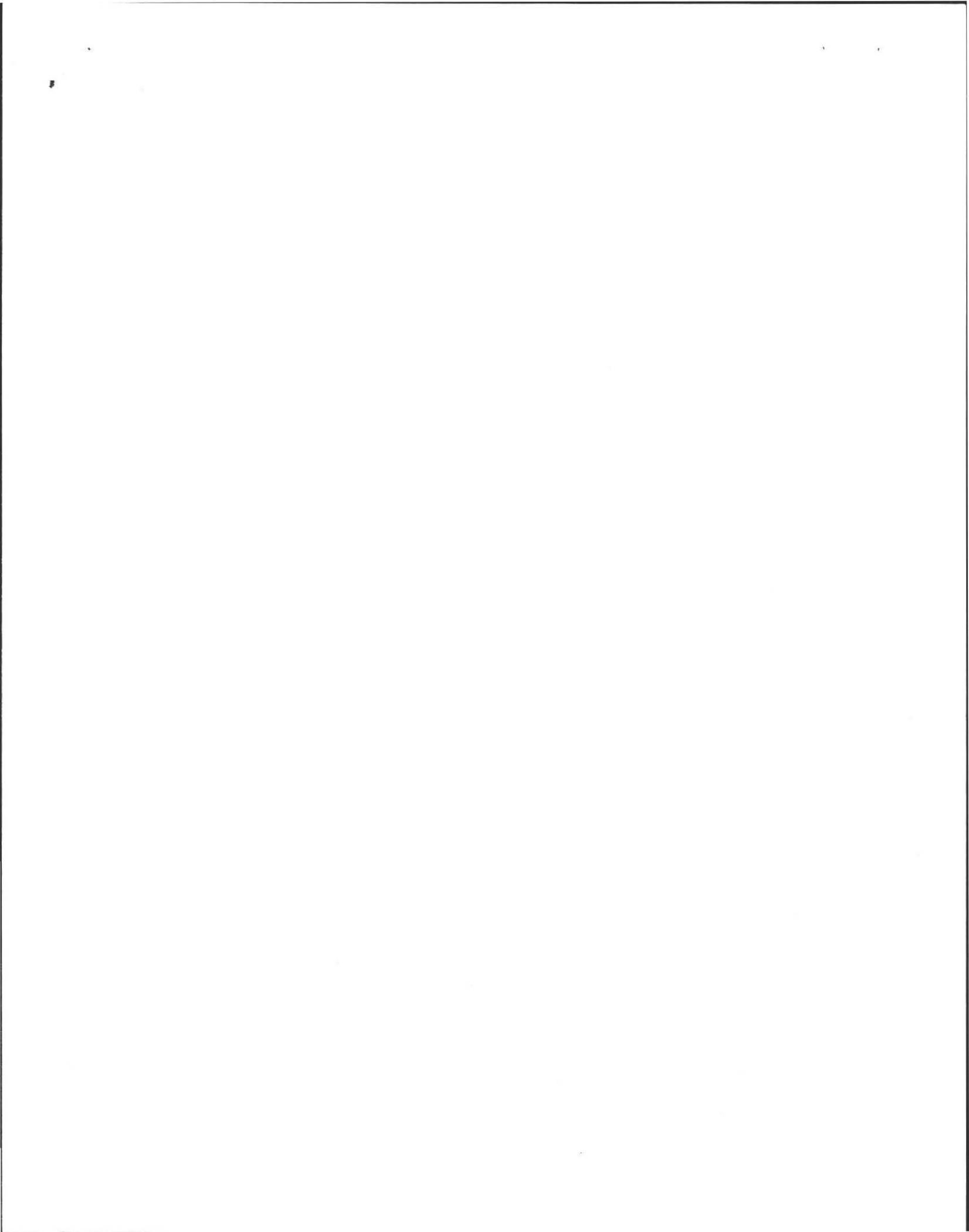
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH (LACUSTRINE) Depth to Bedrock: 84"±

Depth to Groundwater: Standing Water in the Hole: 84"± Weeping from Pit Face: 84"±

Estimated Seasonal High Ground Water: 48"





Location Address or Lot No. 28 HULST 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 46" 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

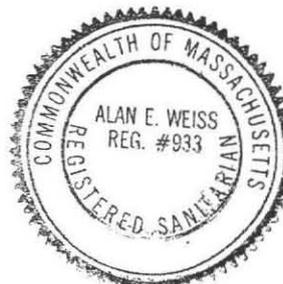
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

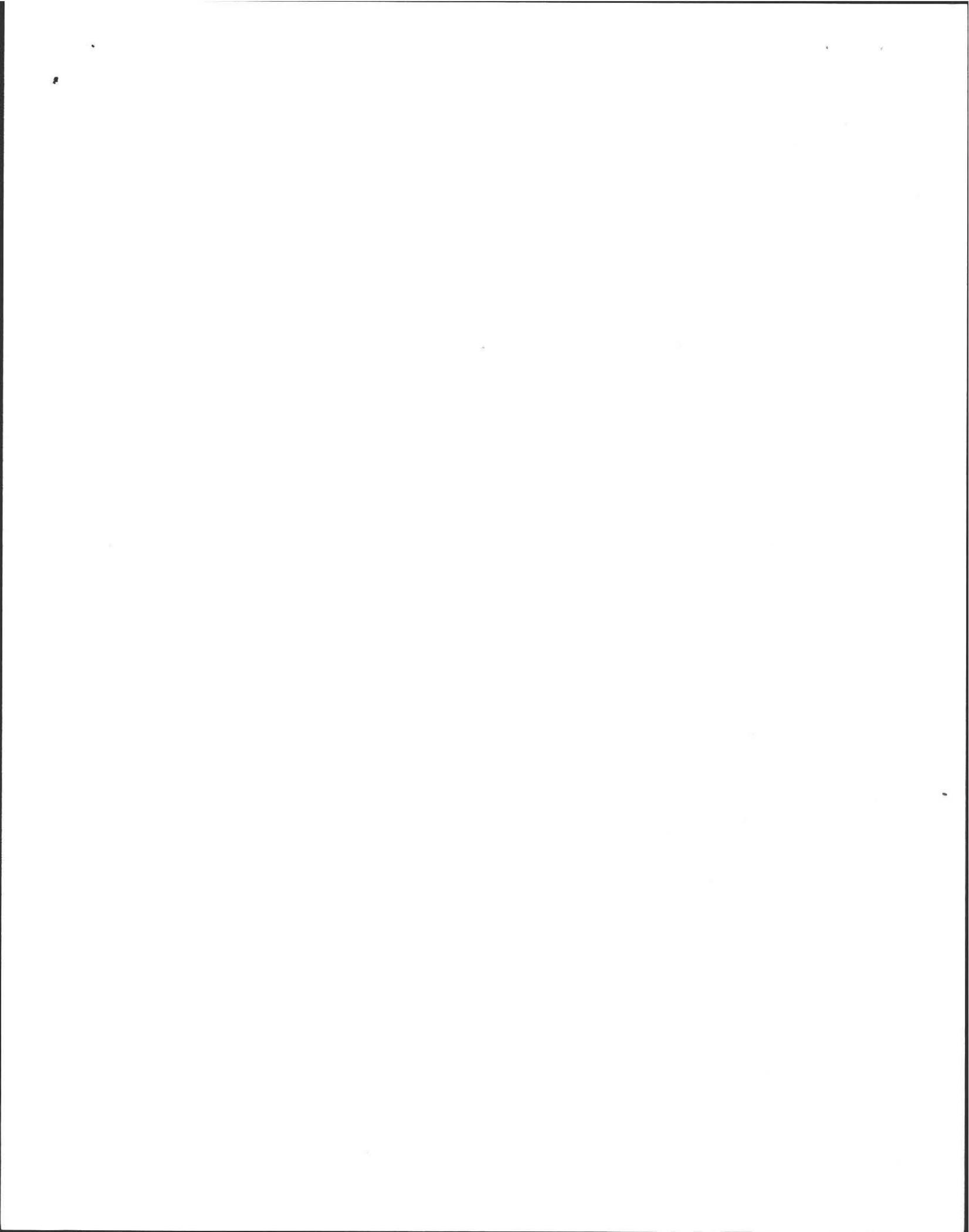
If not, what is the depth of naturally occurring pervious material?

Certification

I certify that on JUNE, 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 6/20/00





Location Address or Lot No. 28 HULST RD

COMMONWEALTH OF MASSACHUSETTS

AMHERST, Massachusetts

Percolation Test*		
Date: <u>6/20/00</u>		Time: <u>12:00</u>
Observation Hole #	<u>P₂</u>	
Depth of Perc	<u>48"</u>	
Start Pre-soak	<u>12:27</u>	
End Pre-soak	<u>12:27</u>	
Time at 12"	↓	<u>CANT HOLD</u>
Time at 9"		<u>SOAK.</u>
Time at 6"	<u>12:28</u>	
Time (9"-6")	<u>1 MIN</u>	
Rate Min./Inch	<u>< 2</u>	<u>MIN</u> <u>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

Witnessed By: AS PER DAVID ZAROZINSKI, Rob Adair, Present

Comments: 5' SEPARATION



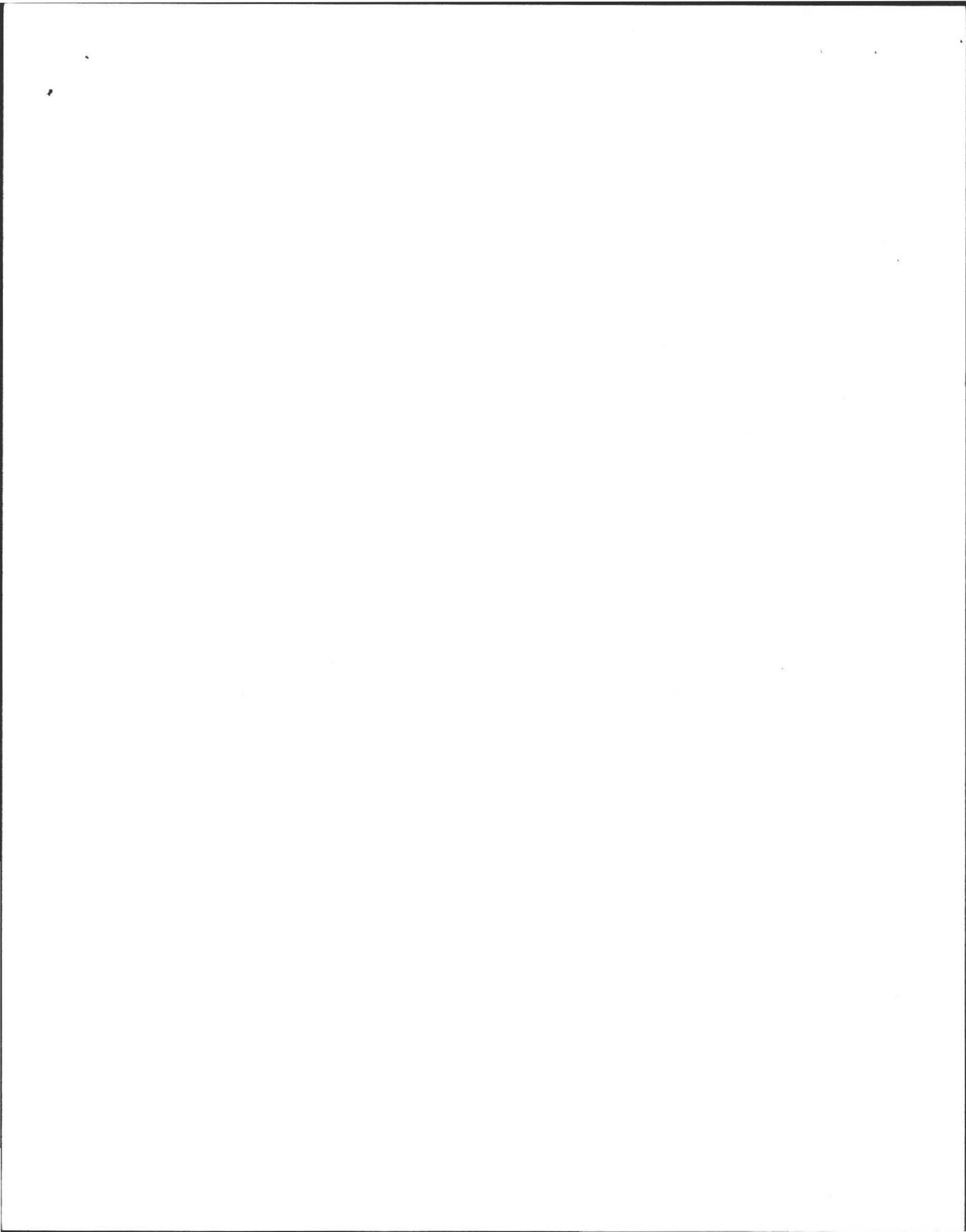
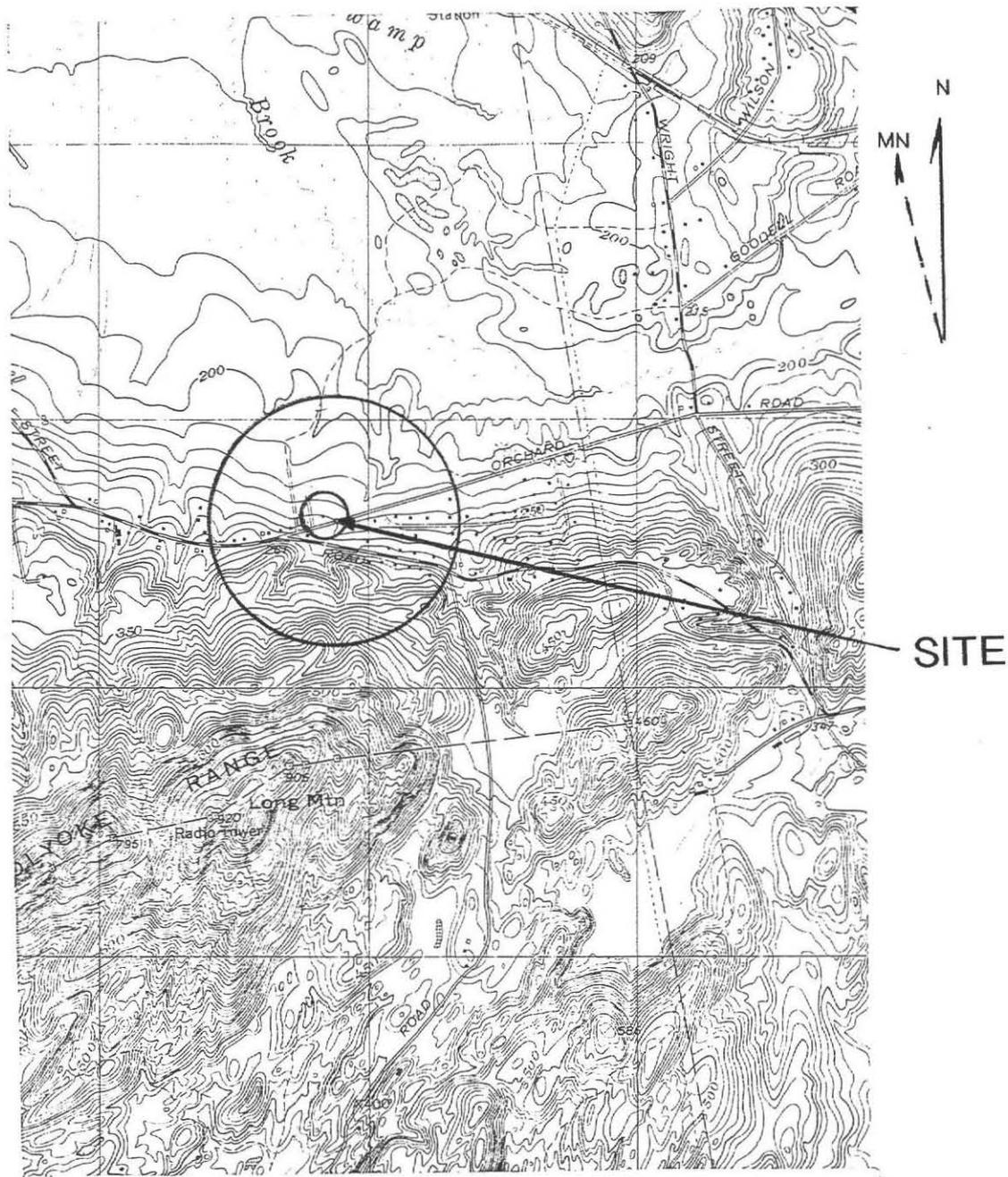


FIGURE 1: SITE LOCUS

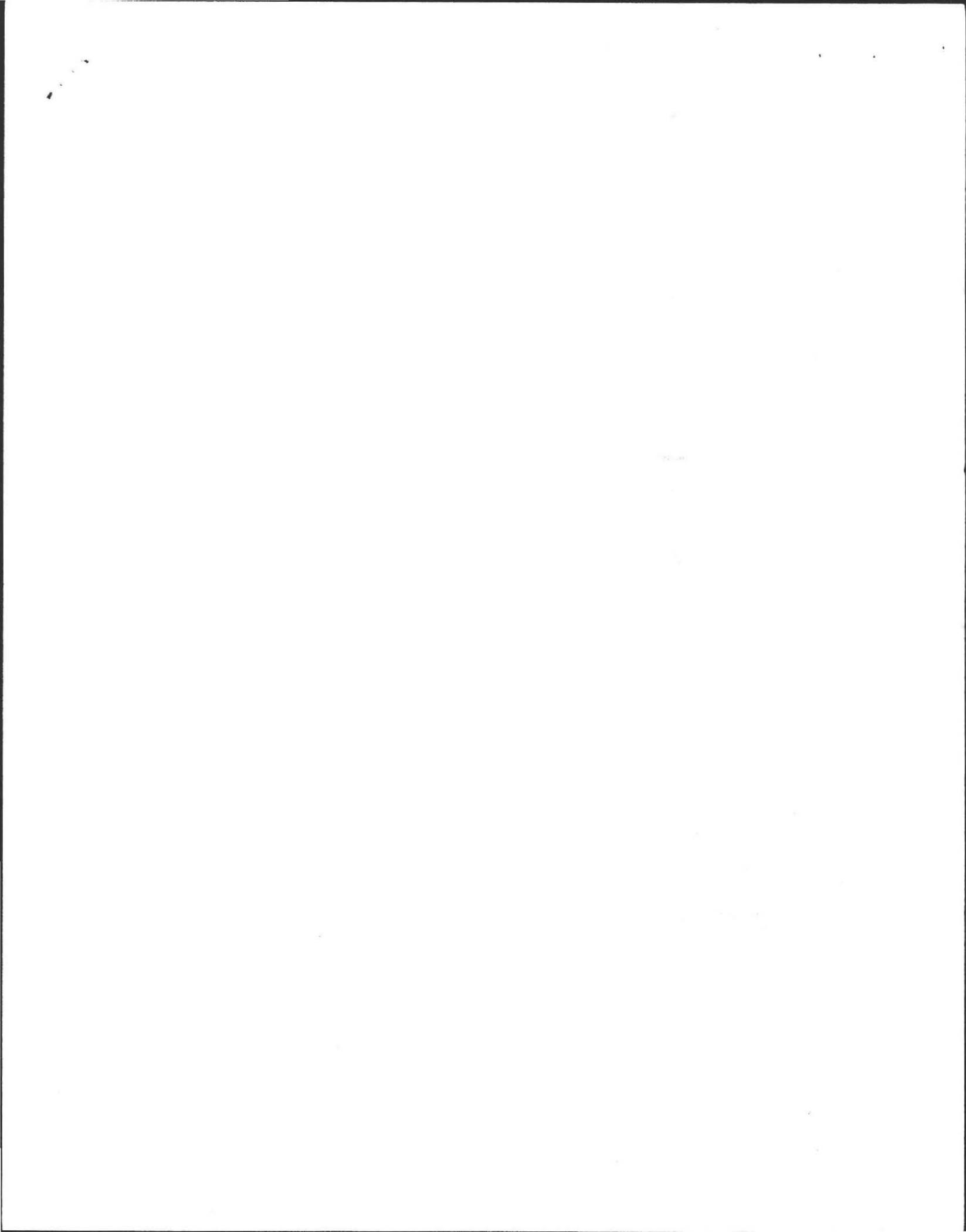


SCALE: 1"=2,083 FT.

USGS 7.5 MIN. QUAD.

0 FEET 2000

COLD SPRING ENVIRONMENTAL INC.



September 5, 2000

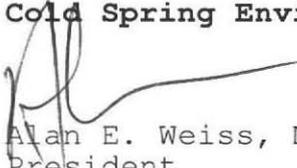
Amherst, Board of Health,

RE: System Installation Inspection
Kenseth: 28 Hulst Road

On this date the writer inspected the installation of a **Repaired Soil** Absorption System (septic system). The writer found the installation to be complete (except for completion of cover material) and in compliance with 310 CMR 15.000. The installer representative (**L & F Const**) and my inspection noted that the system was built properly, in accordance with the state regulations and our plan. (As Built attached with new S. Tank and P. Chamber location).

Sincerely,

Cold Spring Environmental Consultants, Inc.



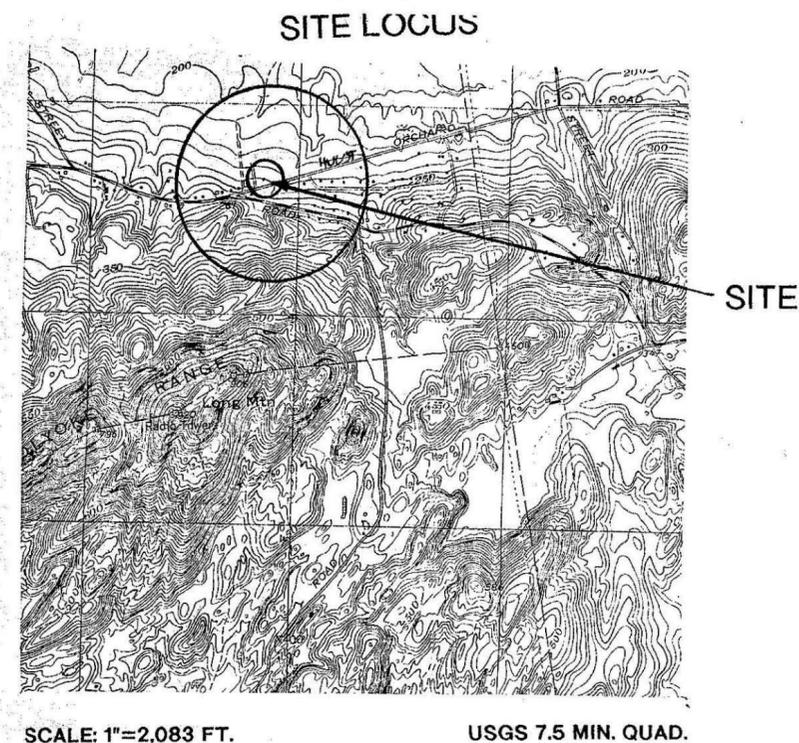
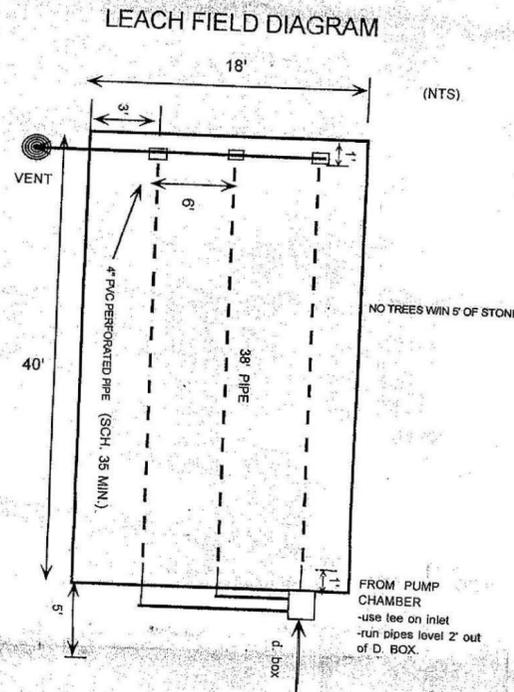
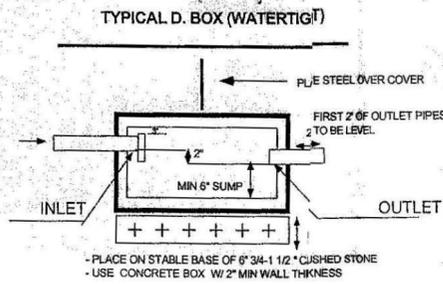
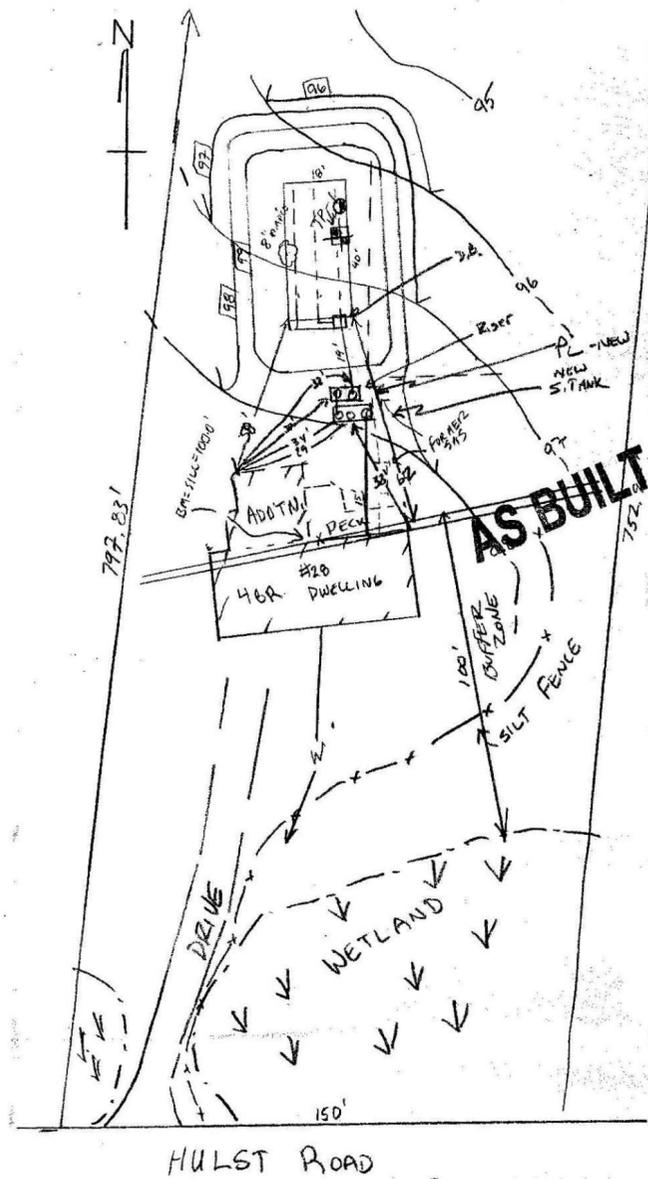
Alan E. Weiss, M.S., L.S.P.
President
Principal Hydrogeologist
Licensed Site Professional #6442

Registered Sanitarian #933

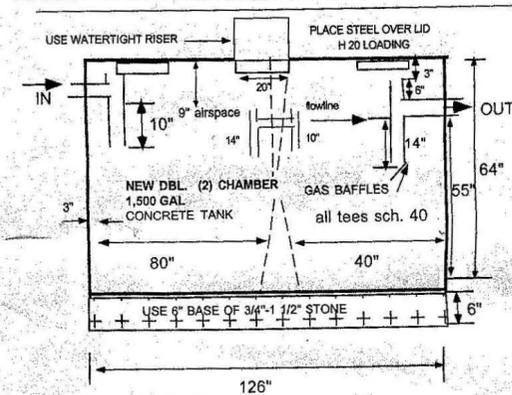
Cold Spring Environmental
350 Old Enfield Road
Belchertown, Ma. 01007

413-323-5959, phone
413-323-4916, fax

100



TYPICAL NEW DBL. CHAMBER 1,500 GAL. S. TANK OR EQUIV. (WATERTIGHT)



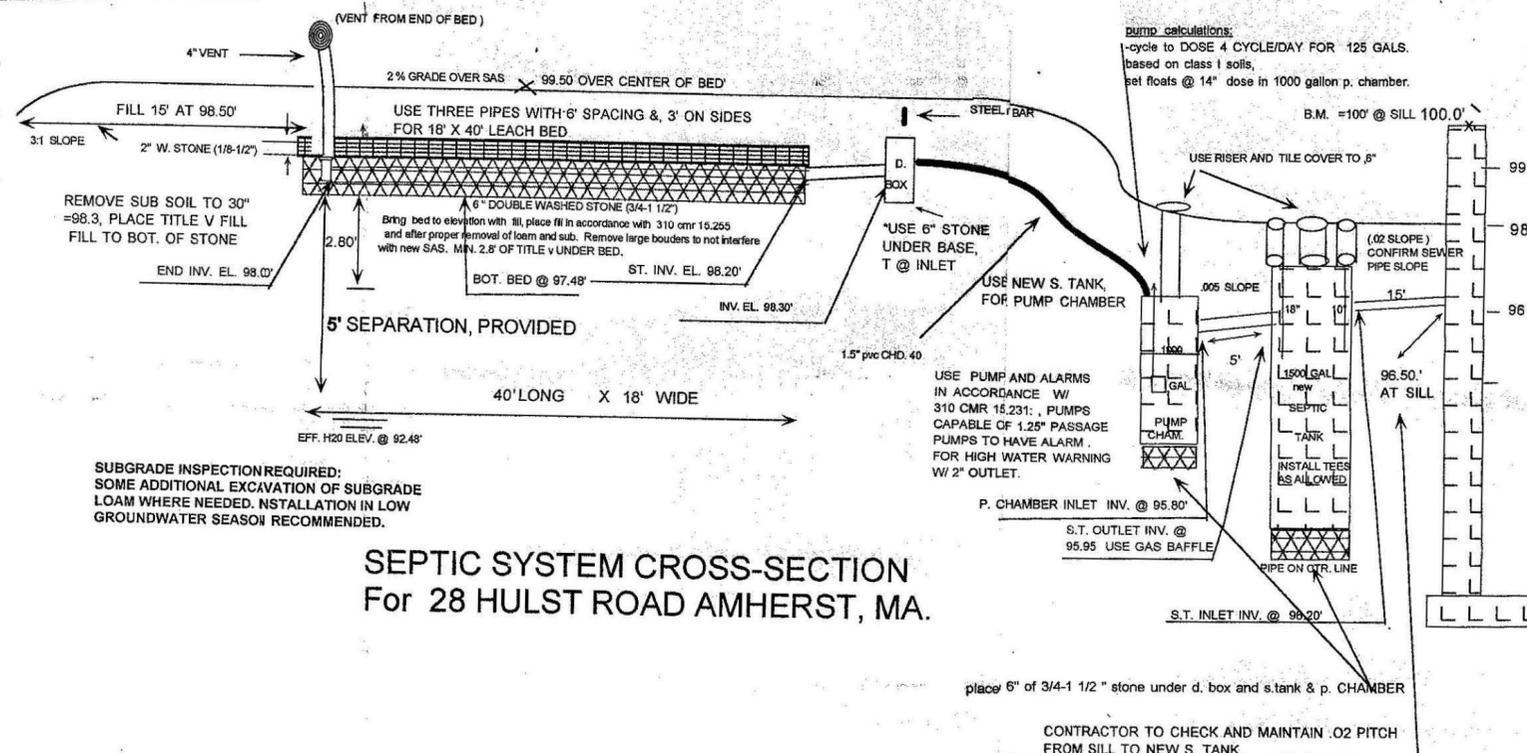
TEST PIT LOGS

TP-1 EL. 96.48' BY A. WEISS 6/20/00

0-12"	FINE SANDY LOAM, FRIABLE (2.5 Y 3/3)	A
12-16"	FINE SANDY LOAM, FRIABLE (2.5 Y 5/6)	B
16-84"	FINE SAND W/ LITTLE SILT INTERLAYERED WITH COARSE SAND, LOOSE (2.5 Y 5/4)	C

EOP 184" @ TP-1.
ESHWIT = 48" = 92.48"
OXIDES = OBS. @ 48" 10YR 5/6 = 92.48" (EFFECTIVE FOR DESIGN)

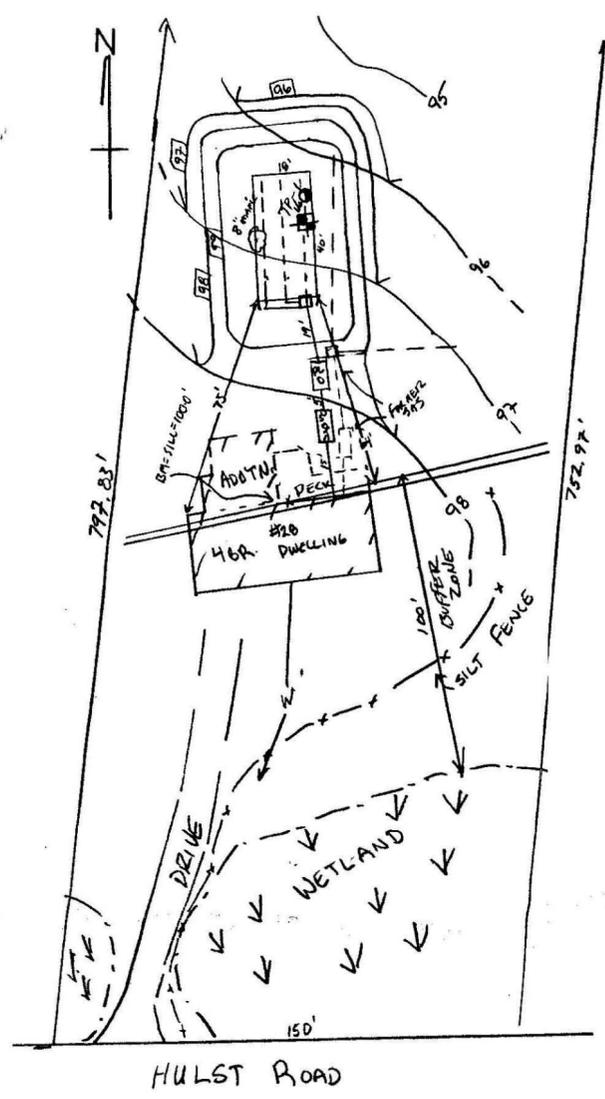
84" + STATIC & SEEPS OF G. H2O
84" + BEDROCK
48" OXIDES



- DESIGN NOTES:**
- 4BR. x 110 gal/day = 440 gal./day.
 - Use one Leach FIELD 18' wide x 40' LONG W/6" stone below invert. Bot. Area: 18' wide x 40' long = 720 sf. Side Area: NA. Tot. Area: 720 sf x 0.74 gal./sf. = 532 gal./day.
 - NO GARBAGE DISPOSAL ALLOWED.
 - ALL D. BOX /OUTLET PIPES LEVEL FOR 2", ALL PERF./PIPE MIN. SDR = 35.
 - NO WELLS NOTED WITHIN 100 FEET OF SAS SYSTEM (connected to town water).
 - NO WETLANDS NOTED WITHIN 100 FEET OF SAS.
 - PRE & POST CONTOURS NOTED AS NECESSARY.
 - RESERVE AREA: NOT REQUIRED
 - SLOPE CALCIS NOT APPLIC. (SEE CONTOURS) 3:1 SLOPE MET.
 - 2% MIN. SLOPE OVER SAS, SLOPE FINAL GRADE AWAY FROM SILL AND L. FIELD FOR RUNOFF
 - USE NEW 1,500 GAL. S. TANK AND NEW 1000 GAL. PUMP CHAMBERS W/ PROPER FLOATS AND ALARMS PER 310 CMR. 15.231. USE FOUR 125 GAL. DOSE/DAY, FLOATS 14" APART.
 - INSTALL TEES IN S. TANK, 10" AT INLET, 14" AT OUTLET AND CHAMBER BAFFLE
 - PERC TEST BY A. WEISS, ON 6/20/00, PERC RATE OF <2 MIN IN BY A. WEISS -CLASS I SOILS IDENTIFIED (SAND) FOR LOADING FACTOR -CLASS I SOIL, @ 0.74 GAL/SF., BM=100 @ TOP OF SILL ON BACK OF HOUSE.
 - (REMOVE PLASTIC PIPE OF OLD SYSTEM ONLY WHERE INTERFERES WITH NEW SAS) AND REMOVE SUBGRADE TO 20" AND USE TITLE V SAND TO MAKE UP GRADE TO BASE.
 - FIVE FOOT-SEPARATION PROVIDED TO ESHGW.
 - USE APPROVED DOUBLE WASHED 3/4" TO 1 1/2" IN. STONE UNDER BED, D. BOX S. TANK, AND P. CHAMBER (MIN. 6"). CONTRACTOR TO CONFIRM STONE PROPERLY WASHED WITH BUCKET/SILT H2O TEST.
 - PUMP CRUSH AND FILL OLD S. TANK.

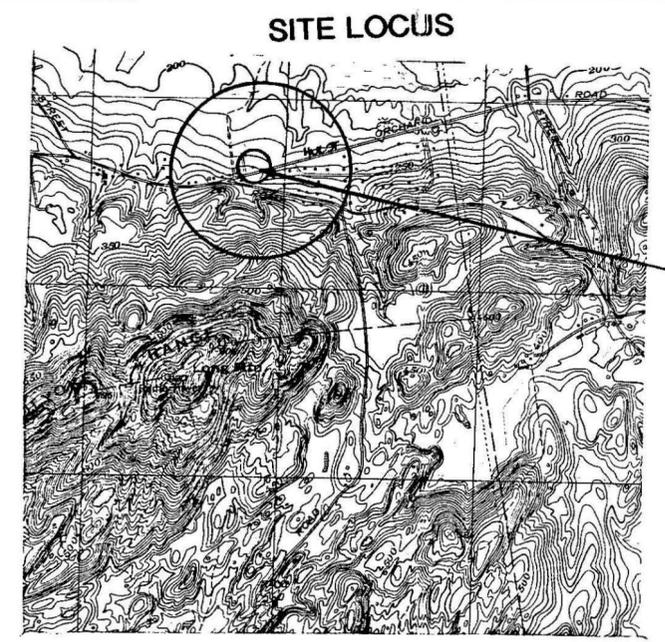
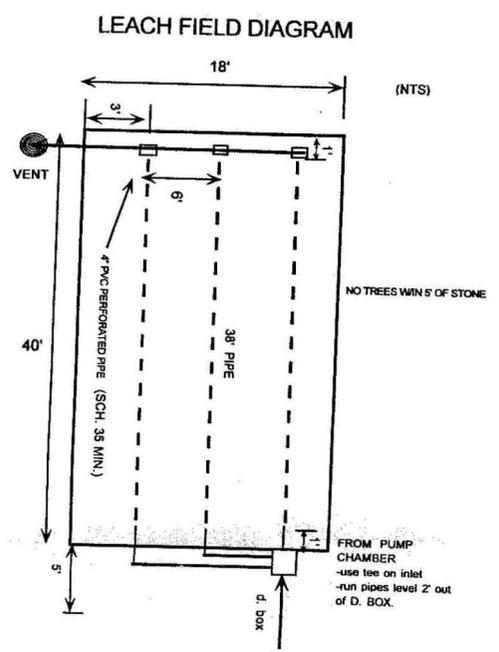
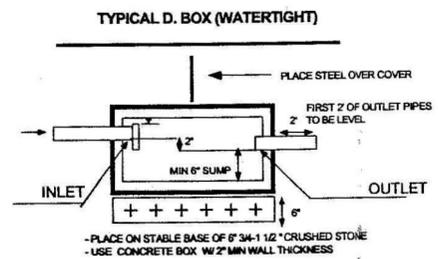
SEPTIC SYSTEM REPAIR PLAN FOR ELAINE KENSETH
28 HULST ROAD AMHERST

SCALE: NOTED	APPROVED BY:	DRAWN BY: AW
DATE: 6/30/00		REVISED
COLD SPRING ENVIRONMENTAL, INC.		DRAWING NUMBER 100-1204-0620



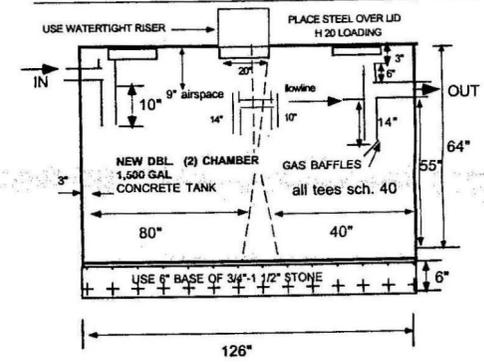
PLOT PLAN
 1" = 40'

- 100' - EXISTING CONTOURS
- 100' - PROPOSED CONTOURS
- X - SILT FENCE
- - - WETLAND LINE (FROM NEE)
- W - WATER LINE



SCALE: 1" = 2,083 FT.
 USGS 7.5 MIN. QUAD.

TYPICAL NEW DBL. CHAMBER 1,500 GAL. S. TANK OR EQUIV. (WATERTIGHT)



TEST PIT LOGS

TP-1 EL. 96.48' BY A. WEISS 6/20/00

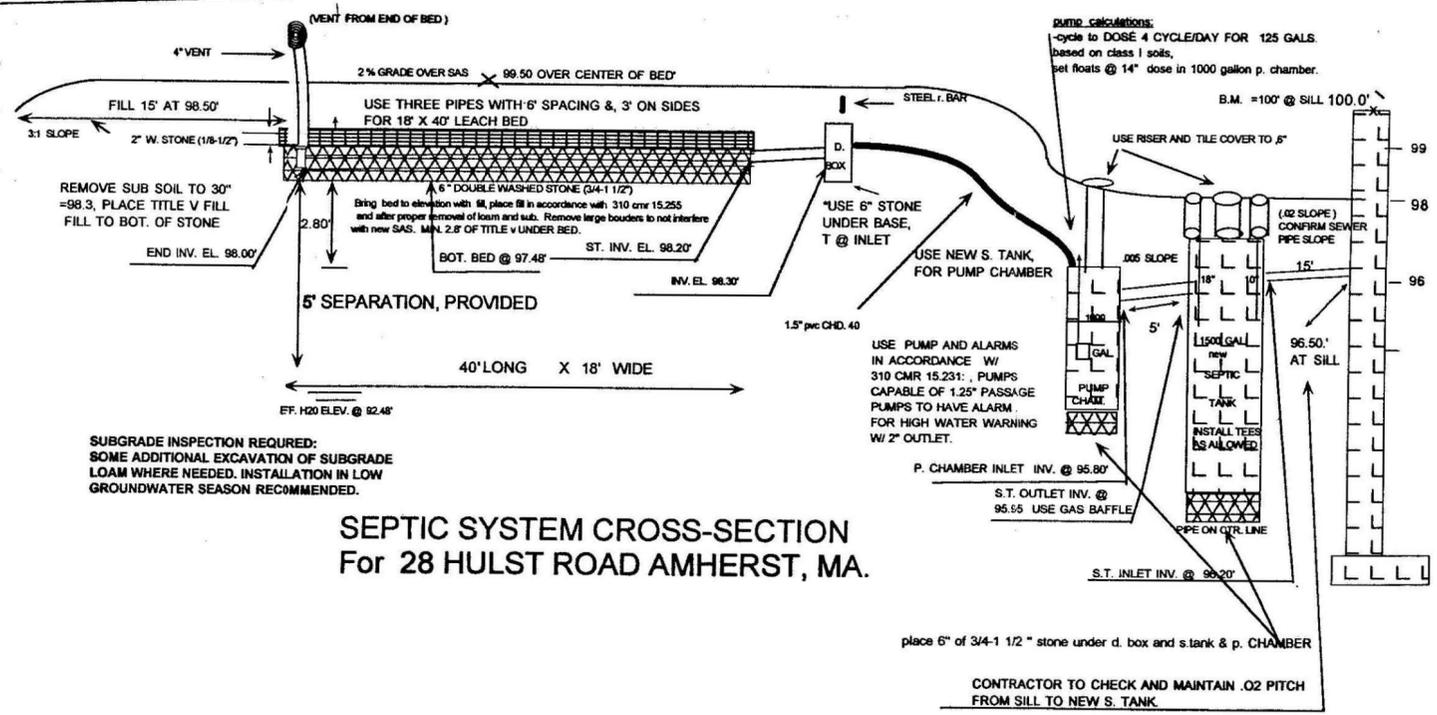
0-12"	FINE SANDY LOAM, FRIABLE (2.5 Y 3/3)	A
12-16"	FINE SANDY LOAM, FRIABLE (2.5 Y 5/6)	B
16-84"	FINE SAND W/ LITTLE SILT INTERLAYERED WITH COARSE SAND, LOOSE (2.5 Y 5/4)	C

EOP 84" @ TP-1.
 ESHWT = .48" = 92.48"
 OXIDES = OBS. @ 48" 10YR 5/6 = 92.48" (EFFECTIVE FOR DESIGN)

84" + STATIC & SEEPS OF G. H2O
 84" + BEDROCK
 48" OXIDES

DESIGN NOTES:

- 4BR x 110 gal/day = 440 gal/day.
- Use one Leach FIELD 18' wide x 40' LONG W/6" stone below invert. Bot. Area: 18' wide x 40' long = 720 sf. Side Area: N/A. Tot. Area: 720 sf x 0.74 gal/sf. = 532 gal/day.
- NO GARBAGE DISPOSAL ALLOWED.
- ALL D. BOX OUTLET PIPES LEVEL FOR 2', ALL PERF./PIPE MIN. SDR .35.
- NO WELLS NOTED WITHIN 100 FEET OF SAS SYSTEM (connected to town water).
- NO WETLANDS NOTED WITHIN 100 FEET OF SAS.
- PRE & POST CONTOURS NOTED AS NECESSARY. RESERVE AREA: NOT REQUIRED.
- SLOPE CALCS NOT APPLIC. (SEE CONTOURS) 3:1 SLOPE MET.
- 2% MIN. SLOPE OVER SAS, SLOPE FINAL GRADE AWAY FROM SILL AND L. FIELD FOR RUNOFF
- USE NEW 1,500 GAL. S. TANK AND NEW 1000 GAL. PUMP CHAMBERS W/ PROPER FLOATS AND ALARMS PER 310 CMR. 15.231. USE FOUR 125 GAL. DOSE/DAY, FLOATS 14" APART.
- INSTALL TEES IN S. TANK, 10" AT INLET, 14" AT OUTLET AND CHAMBER BAFFLE
- PERC TEST BY A. WEISS... ON 6/20/00. PERC RATE OF < 2 MIN IN BY A. WEISS
- CLASS 1 SOILS IDENTIFIED. (SAND) FOR LOADING FACTOR - CLASS 1 SOIL @ (0.74 GAL/SF, BM=100 @ TOP OF SILL ON BACK OF HOUSE.
- (REMOVE PLASTIC PIPE OF OLD SYSTEM ONLY WHERE INTERFERES WITH NEW SAS) AND REMOVE SUBGRADE TO 20" AND USE TITLE V SAND TO MAKE UP GRADE TO BASE.
- FIVE FOOT SEPARATION PROVIDED TO ESHGW.
- USE APPROVED DOUBLE WASHED 3/4 TO 1 1/2 IN. STONE UNDER BED, D. BOX S. TANK AND P. CHAMBER (MIN. 8"). CONTRACTOR TO CONFIRM STONE PROPERLY WASHED WITH BUCKET/SILT H2O TEST.
- PUMP CRUSH AND FILL OLD S. TANK.



SEPTIC SYSTEM CROSS-SECTION For 28 HULST ROAD AMHERST, MA.

SEPTIC SYSTEM REPAIR PLAN FOR ELAINE KENSETH 28 HULST ROAD AMHERST		
SCALE: NOTED	APPROVED BY:	DRAWN BY: AW
DATE: 6/30/00		REVISED
COLD SPRING ENVIRONMENTAL, INC.		DRAWING NUMBER 100-1204-0620

Hu1st Road - Pending

585



WRIGHT BUILDERS, INC.

48 Bates Street
NORTHAMPTON, MA 01060

(413) 586-8287
FAX (413) 587-9276

LETTER OF TRANSMITTAL

TO Inspection Services
4 Boltwood Avenue
Town Hall
Amherst, MA 01002

DATE <u>7/10/00</u>	JOB NO.
ATTENTION	
RE: <u>28 Hulst Road</u>	

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
<u>2</u>			<u>Applications for Disposal system construction permit</u>
<u>2</u>			<u>Plans</u>

THESE ARE TRANSMITTED as checked below:

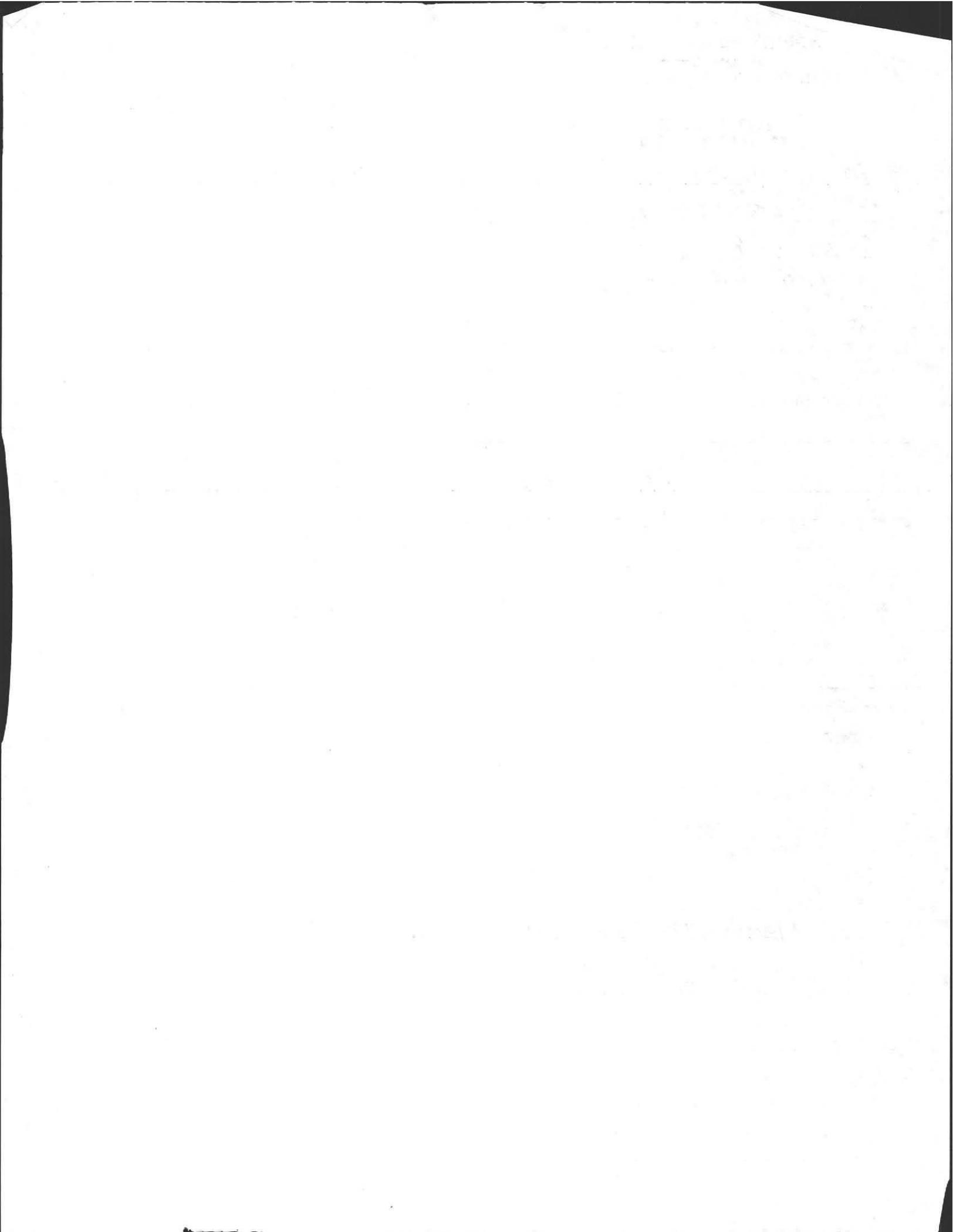
- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

Please attach to permit application for
28 Hulst Rd.

COPY TO _____

SIGNED: [Signature]



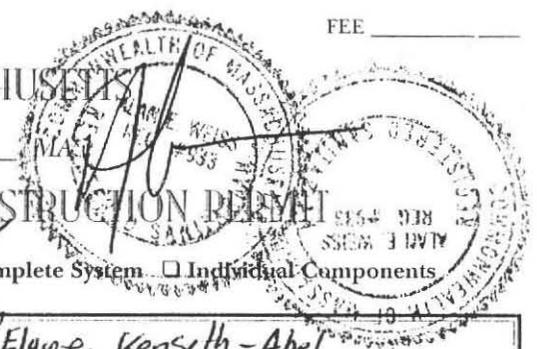
No. _____

FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMHERST

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT



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

Location <u>28 HULST RD</u>	Owner's Name <u>Elaine Kensch-Abel</u>
Map/Parcel#	Address <u>28 HULST RD</u>
Lot# <u>28</u>	Telephone#
Installer's Name	Designer's Name
Address	Address
Telephone#	Telephone#

Type of Building Res. Lot Size 116,250 +/- sq. ft.

Dwelling - No. of Bedrooms 3+1=4 Garbage grinder (N)
Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria () To BE removed

Other Fixtures _____

Design Flow (min. required) 440 gpd Calculated design flow 532 Design flow provided 532 gpd

Plan: Date 6/30/00 Number of sheets 4 Revision Date _____

Title SEPTIC SYSTEM REPAIR PLAN

Description of Soil(s) CLASS I, LOAMY SAND

Soil Evaluator Form No. _____ Name of Soil Evaluator A. WEISS Date of Evaluation 6/20/00

DESCRIPTION OF REPAIRS OR ALTERATIONS NEW L. FIELD (RAISED) w NEW S. TANK + P. CHAMBER.

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

Signed _____ Date _____

Inspections _____

No. _____

FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, MA.

CERTIFICATE OF COMPLIANCE

Description of Work: Individual Component(s) Complete System

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

by: _____ at _____

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. _____, dated _____, Approved Design Flow _____ (gpd)

Installer: _____ Designer: _____ Inspector: _____ Date: _____

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

No. _____

FEE _____

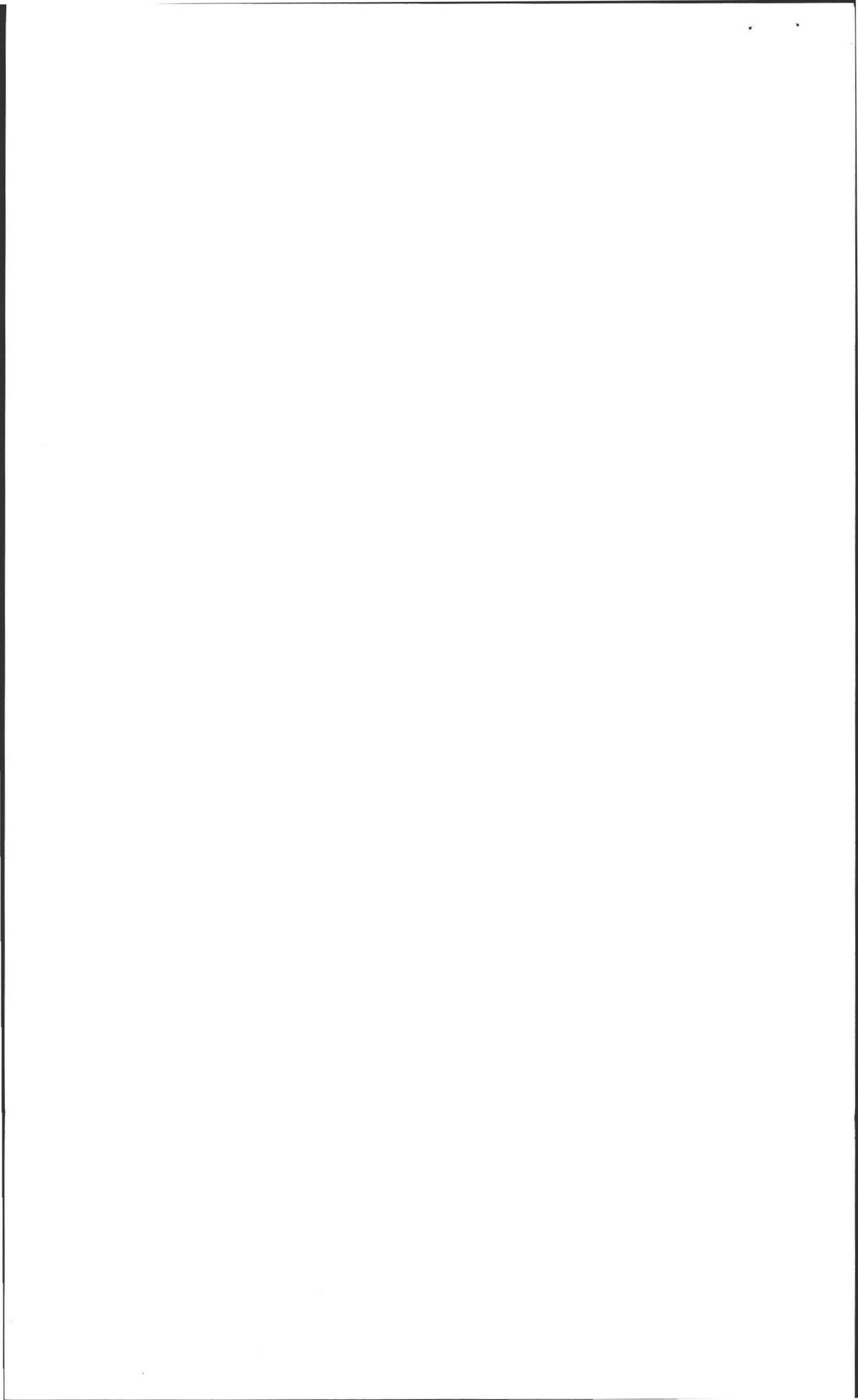
COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system at _____ as described in the application for Disposal System Construction Permit No. _____, dated _____.

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





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

Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

- Subsurface Investigations
- 21E Site Investigations
- Pollution Remediation
- Percolation Tests and
Septic Designs

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

Date: 6/20/00

Commonwealth of Massachusetts
AMHERST, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. WEISS

Date: 6/20/00

Witnessed By: AS PER, D. ZAROCZUSKI

Location Address or Lot # <u>28 HULST RD. AMHERST</u>	Owner's Name, Address, and Telephone # <u>MS. ELGIN KONSETH - Abel 22 GRAND AVE MILLERS FALLS, MA. 01349</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	<u>253-7832, 659-3760</u>

Office Review

Published Soil Survey Available: No Yes

Year Published 1981 Publication Scale 1:25,000 Soil Map Unit H9b

Drainage Class RAD10 Soil Limitations N/A

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)

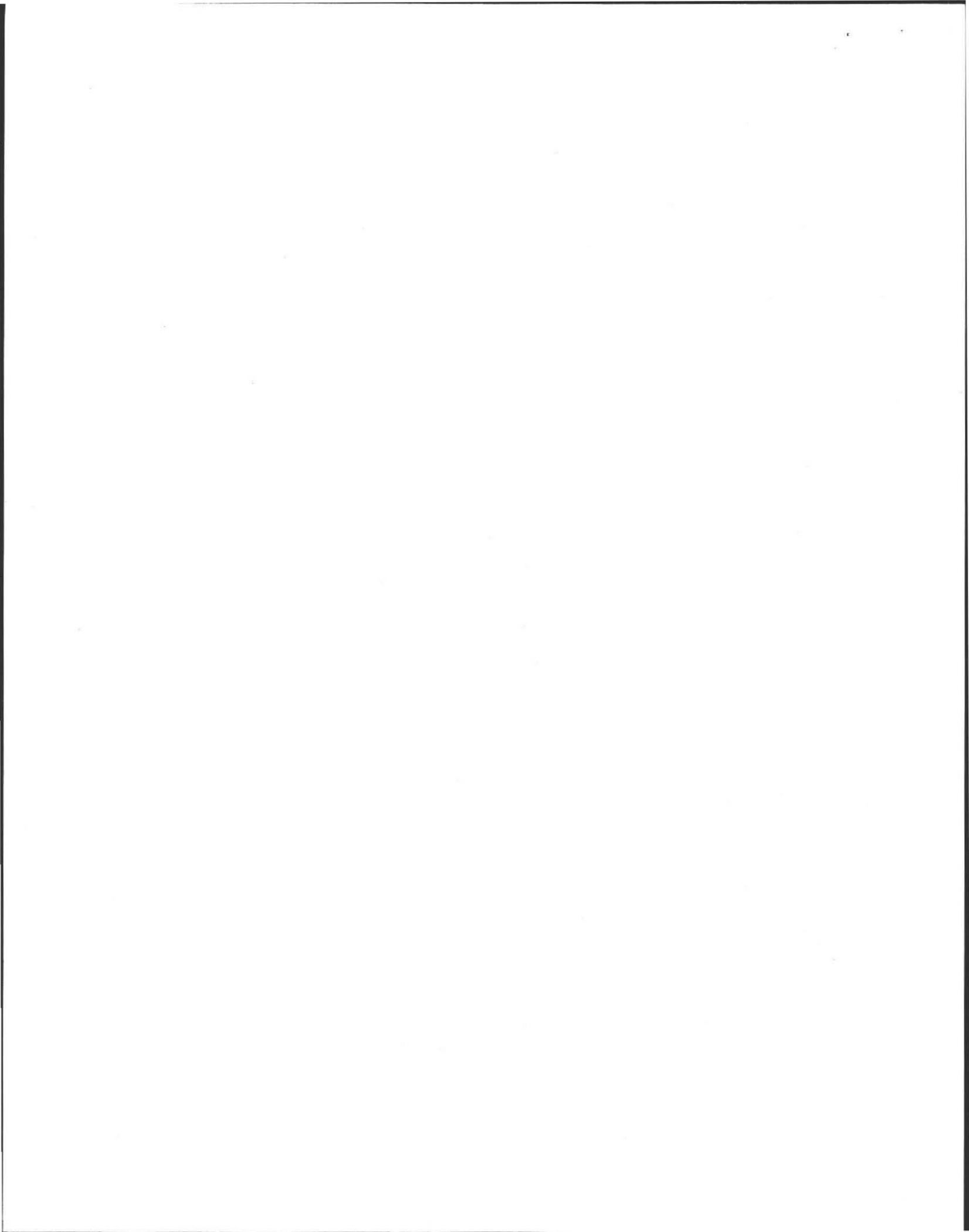
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range : Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 28 HULST RD

On-site Review

Deep Hole Number IP-7 Date: 6/20/00 Time: 12:00 Weather SUN 80°F

Location (identify on site plan) _____

Land Use RURAL RESID Slope (%) 2 Surface Stones _____

Vegetation DECIDUOUS

Landform _____

Position on landscape (sketch on the back) _____

Distances from:

Open Water Body 100' feet Drainage way 100' feet

Possible Wet Area 100' feet Property Line 50' feet

Drinking Water Well 100' 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)
0-12"	A	FSL	2.5Y3/3		
12-16"	Bw	FSL	2.5Y5/6		
16"-84"	C ₁	LS	2.5Y5/4	48" 10YR5/6 prominent	FINE SAND w/ SOME SILT INTER-LAYERED WITH C. SAND
84"±	C ₂				

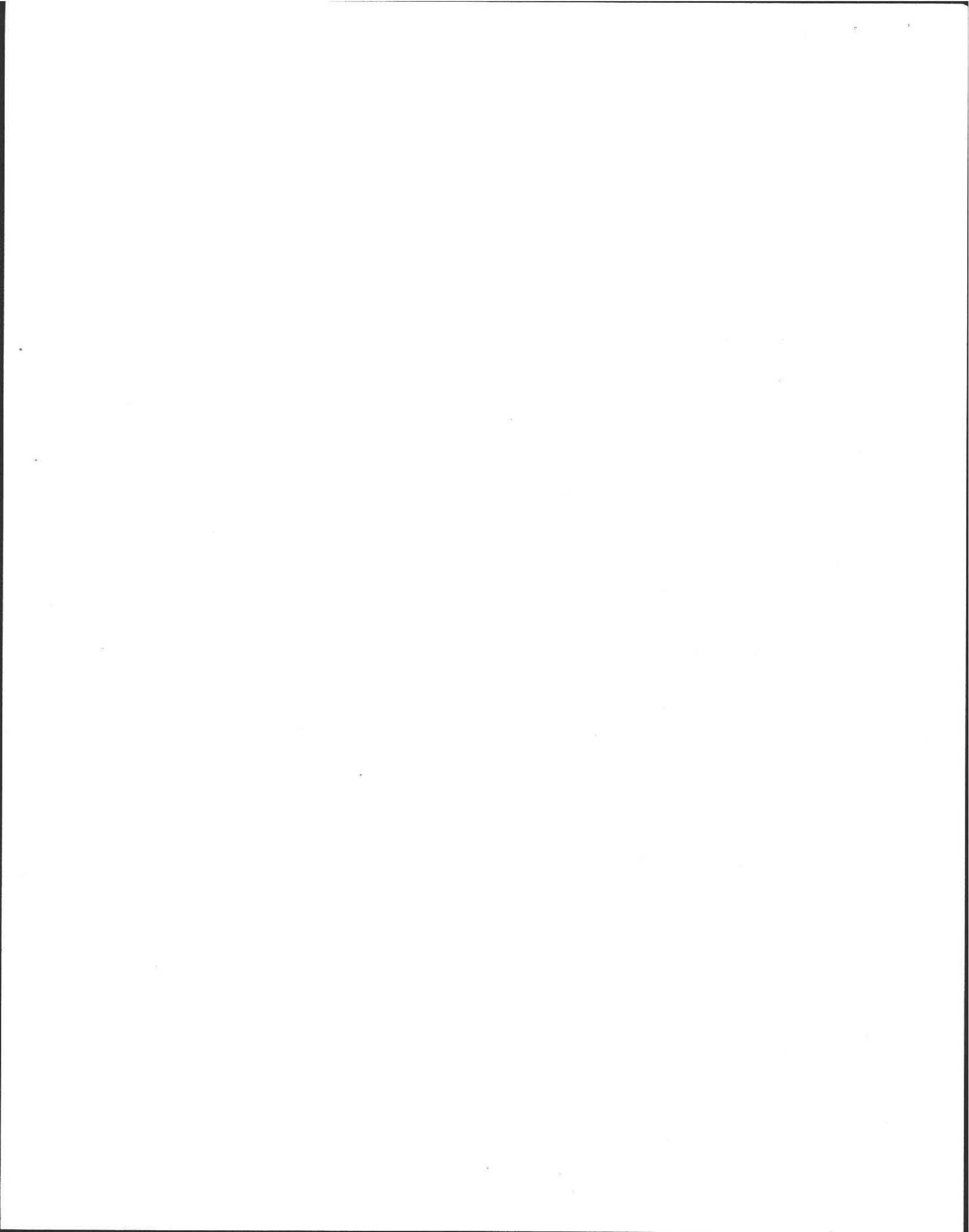
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH, (LAGOSTRINE) Depth to Bedrock: 84"±

Depth to Groundwater: Standing Water in the Hole: 84"± Weeping from Pit Face: 84"±

Estimated Seasonal High Ground Water: 48"





Location Address or Lot No. 28 HULST 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" 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

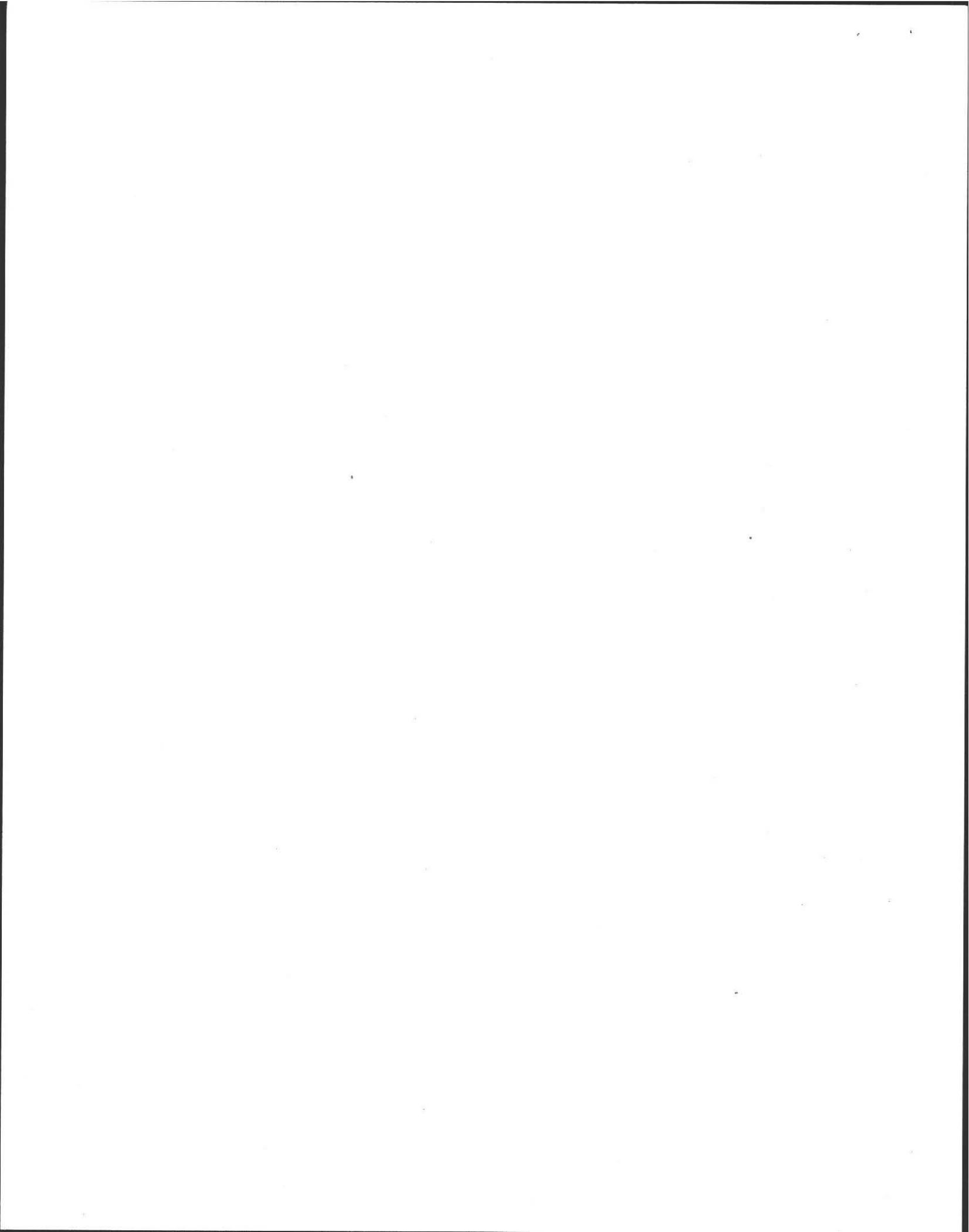
If not, what is the depth of naturally occurring pervious material? _____

Certification

I certify that on JUNE, 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 *Alan E. Weiss* Date 6/20/00





Location Address or Lot No. 26 HULST RD

COMMONWEALTH OF MASSACHUSETTS

AMHERST, Massachusetts

Percolation Test*		
Date: <u>6/20/00</u>		Time: <u>12:00</u>
Observation Hole #	<u>P2</u>	
Depth of Perc	<u>48"</u>	
Start Pre-soak	<u>12:17</u>	
End Pre-soak	<u>12:27</u>	
Time at 12"	↓	<u>CANT HOLD</u>
Time at 9"		<u>SOAK.</u>
Time at 6"	<u>12:28</u>	
Time (9"-6")	<u>1 MIN</u>	
Rate Min./Inch	<u>< 2</u>	<u>MIN</u> <u>IN</u>

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

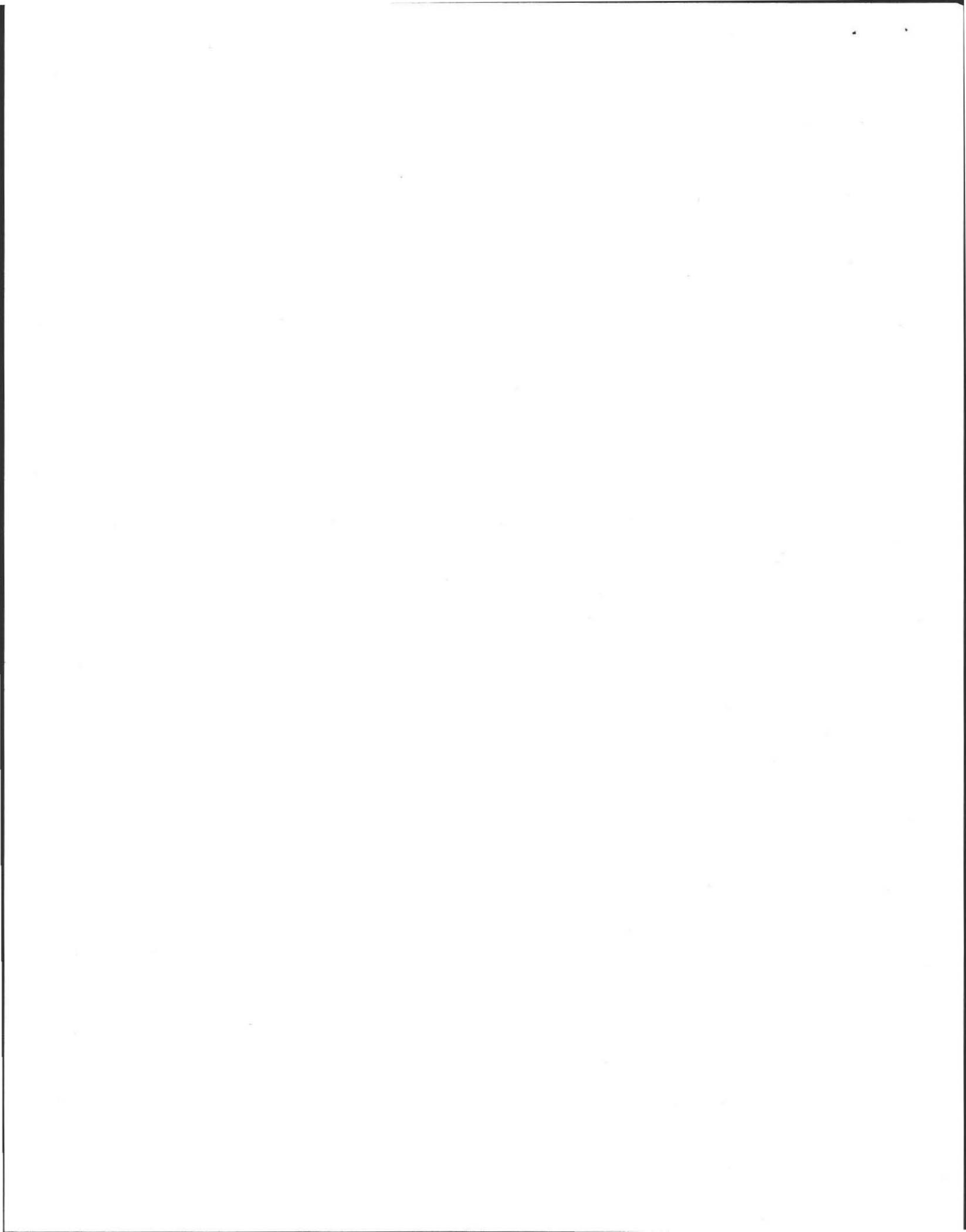
Site Passed Site Failed

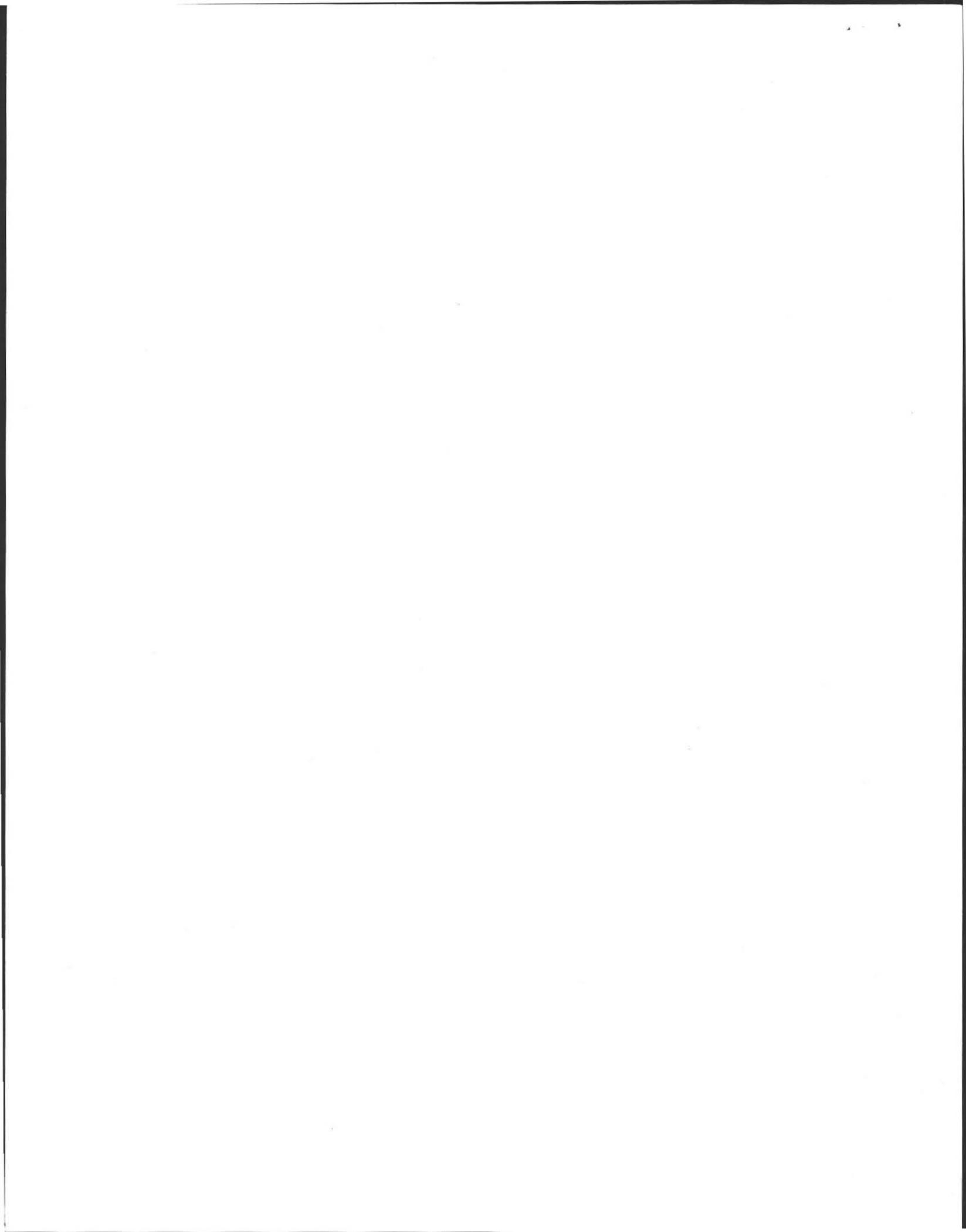
Performed By: ALAN WEISS

Witnessed By: AS PER DAVID ZAROZINSKI, Rob Adair, Present

Comments: 5' SEPARATION







SITE LOCUS

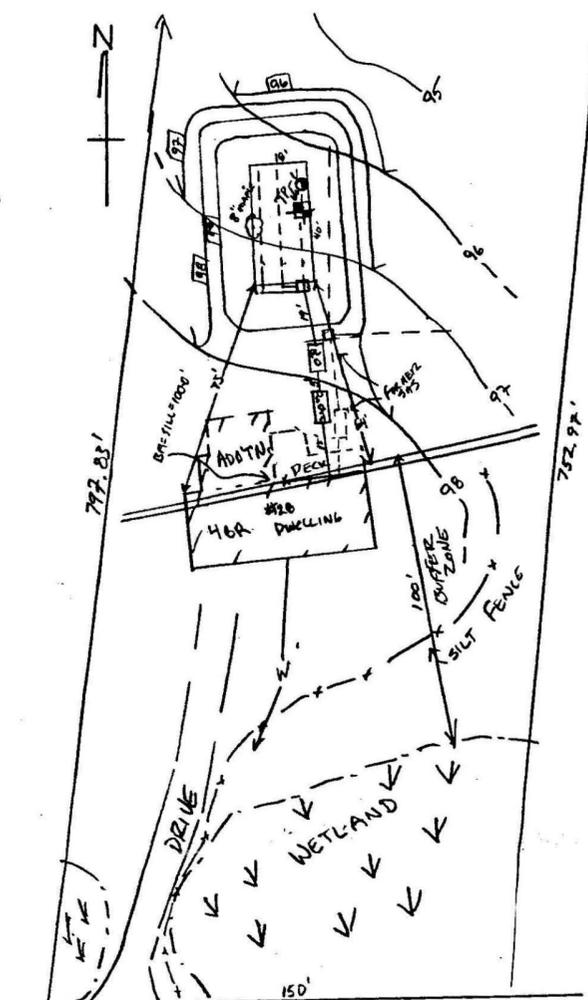


SCALE: 1"=2,083 FT. USGS 7.5 MIN. QUAD.

SITE

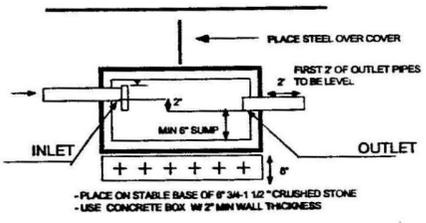
PLOT PLAN
1"=40'

- 100 - EXISTING CONTOURS
- 100 - PROPOSED CONTOURS
- X - SILT FENCE
- --- WETLAND LINE (FROM NEE)
- --- WATER LINE

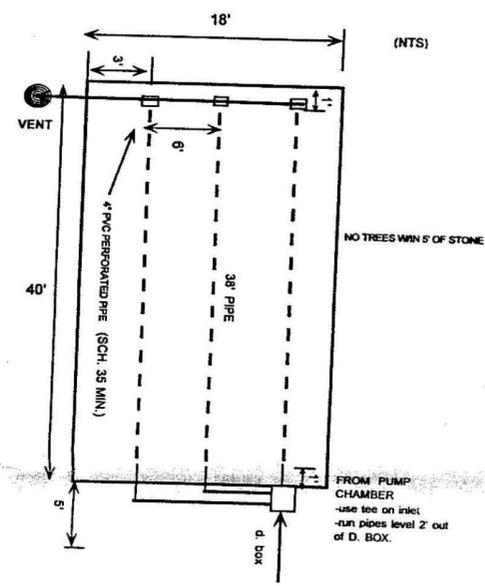


HULST ROAD

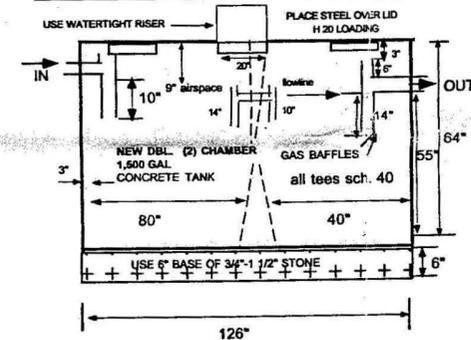
TYPICAL D. BOX (WATERTIGHT)



LEACH FIELD DIAGRAM



TYPICAL NEW DBL. CHAMBER 1,500 GAL. S. TANK OR EQUIV. (WATERTIGHT)



TEST PIT LOGS

TP-1 EL. 96.48' BY A. WEISS 6/20/00

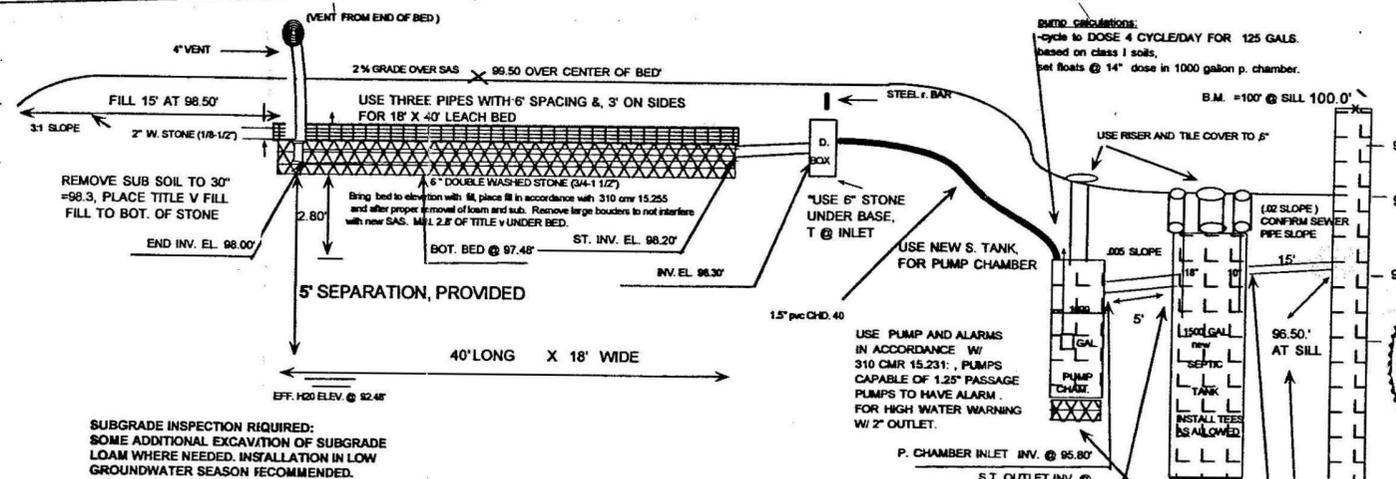
0-12"	FINE SANDY LOAM, FRIABLE (2.5 Y 3/3)	A
12-16"	FINE SANDY LOAM, FRIABLE (2.5 Y 5/6)	B
16-84"	FINE SAND W/ LITTLE SILT INTERLAYERED WITH COARSE SAND, LOOSE (2.5 Y 5/4)	C

EOP 84" @ TP-1,
ESSHW= 48" = 92.48'
OXIDES = OBS. @ 48" 10YR 5/6 = 92.48" (EFFECTIVE FOR DESIGN)

84"++ STATIC & SEEPS OF G. H2O
84"++ BEDROCK
48" OXIDES

DESIGN NOTES:

1. 4BR. x 110 gal/day = 440 gal./day.
2. Use one Leach FIELD 18' wide x 40' LONG W/6" stone below invert.
Bot. Area: 18' wide x 40' long = 720 sq. ft.
Side Area: NA.
Tot. Area: 720 sq. ft. x 0.74 gal./sq. ft. = 532 gal./day.
3. NO GARBAGE DISPOSAL ALLOWED.
4. ALL D. BOX OUTLET PIPES LEVEL FOR 2", ALL PERF. PIPE MIN. SDR .35.
5. NO WELLS: NOTED WITHIN 100 FEET OF SAS SYSTEM (connected to town water).
6. NO WETLANDS NOTED WITHIN 100 FEET OF SAS.
7. PRE & POST CONTOURS NOTED AS NECESSARY.
8. RESERVE AREA: NOT REQUIRED.
9. SLOPE CALLS NOT APPLIC. (SEE CONTOURS) 3:1 SLOPE MET.
10. 2% MIN. SLOPE OVER SAS, SLOPE FINAL GRADE AWAY FROM SILL AND L. FIELD FOR RUNOFF.
11. USE NEW 1,500 GAL. S. TANK AND NEW 1000 GAL. PUMP CHAMBERS W/ PROPER FLOATS AND ALARMS PER 310 CMR. 15.231. USE FOUR 1/2 GAL. DOSE/DAY, FLOATS 14" APART.
12. INSTALL TEES IN S. TANK, 10" AT INLET, 14" AT OUTLET AND CHAMBER BAFFLE.
13. PERC TEST BY A.W.E.I.S.S., ON 6/20/00, PERC RATE OF <2 MIN IN BY A. WEISS
-CLASS I SOILS IDENTIFIED. (SAND) FOR LOADING FACTOR.
-CLASS I SOIL, @ 0.74 GAL/SF., BM=100 @ TOP OF SILL ON BACK OF HOUSE.
14. (REMOVE PLASTIC PIPE OF OLD SYSTEM ONLY WHERE INTERFERES WITH NEW SAS) AND REMOVE SUBGRADE TO 20" AND USE TITLE V SAND TO MAKE UP GRADE TO BASE.
15. FIVE FOOT SEPARATION PROVIDED TO ESHGW.
16. USE APPROVED DOUBLE WASHED 3/4" TO 1 1/2 IN. STONE UNDER BED, D. BOX S. TANK AND P. CHAMBER (MIN. 6"). CONTRACTOR TO CONFIRM STONE PROPERLY WASHED WITH BUCKET/SILT H2O TEST.
17. PUMP CRUSH AND FILL OLD S. TANK.



SEPTIC SYSTEM CROSS-SECTION
For 28 HULST ROAD AMHERST, MA.



SEPTIC SYSTEM REPAIR PLAN FOR ELAINE KENSETH 28 HULST ROAD AMHERST		
SCALE: NOTED	APPROVED BY:	DRAWN BY AW
DATE: 6/30/00		REVISED
CONTRACTOR TO CHECK AND MAINTAIN .02 PITCH FROM SILL TO NEW S. TANK		DRAWING NUMBER
COLD SPRING ENVIRONMENTAL, INC.		100-1204-0620