

14 Hulst Rd.

Open complaints

No. 05-13

CU 28 23 FEE 375

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.



APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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

Location <u>14 Hulst Rd</u>	Owner's Name <u>Jean Moore</u>
Map/Parcel# <u>30A / 10</u>	Address <u>14 Hulst Rd</u>
Lot# <u>10</u>	Telephone# <u>413.256.6105</u>
X Installer's Name <u><del>Bob Adams</del></u>	Designer's Name <u>Alan Weiss Rs</u>
Address <u><del>Amherst MA</del></u>	Address <u>Belchertown</u>
Telephone#	Telephone# <u>413.323.5957</u>

Type of Building Residence Lot Size 28,898± sq. ft.  
 Dwelling - No. of Bedrooms 4 Bedrooms Garbage grinder (M)  
 Other - Type of Building \_\_\_\_\_ No. of persons \_\_\_\_\_ Showers ( ), Cafeteria ( )  
 Other Fixtures \_\_\_\_\_  
 Design Flow (min. required) 110 gpd Calculated design flow 440 Design flow provided 445 gpd  
 Plan: Date 8/2/05 Number of sheets \_\_\_\_\_ Revision Date \_\_\_\_\_  
 Title Septic System Repair Plan  
 Description of Soil(s) Class I  
 Soil Evaluator Form No. \_\_\_\_\_ Name of Soil Evaluator A. Weiss Date of Evaluation 7/7/05

DESCRIPTION OF REPAIRS OR ALTERATIONS Install New SAS.

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 Jean Moore Date 8/9/05

Inspections \_\_\_\_\_

No. 05-13

FEE 375 CU PL CU 2823

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 14 Hulst 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. 05-13, dated \_\_\_\_\_ Approved Design Flow \_\_\_\_\_ (gpd)

Installer [Signature] Designer: [Signature] Inspector: Sharon Dun Date: 8/29/05

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

No. 05-13

FEE 375 PL CU 2823

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 14 Hulst Road as described in the application for

Disposal System Construction Permit No. 0543, dated 8/2/05. Rec 8/11/05

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 8/11/05 Board of Health [Signature]



1890

1890

1890

1890

1890

1890

Commonwealth of Massachusetts

Town of Amherst

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: AL Weiss Date: 7/7/05  
 Witnessed By: DAVID ZAROCZNY SHIRLEY MOORES

Location Address of: Lot #	Owner's Name: <u>JEAN MOORES</u> Address of: <u>14 HULST RD</u> Telephone: <u>252-6105</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

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 Reference Reviewed:

PERC TEST 250.00  
 PLAN REVIEW 105.00  
355.00  


Determination: Seasonal High Water Table

Methods 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 No. \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_  
 Adjustment factor \_\_\_\_\_ Adjusted ground water level \_\_\_\_\_

Depth of Naturally Occurring Previous Material

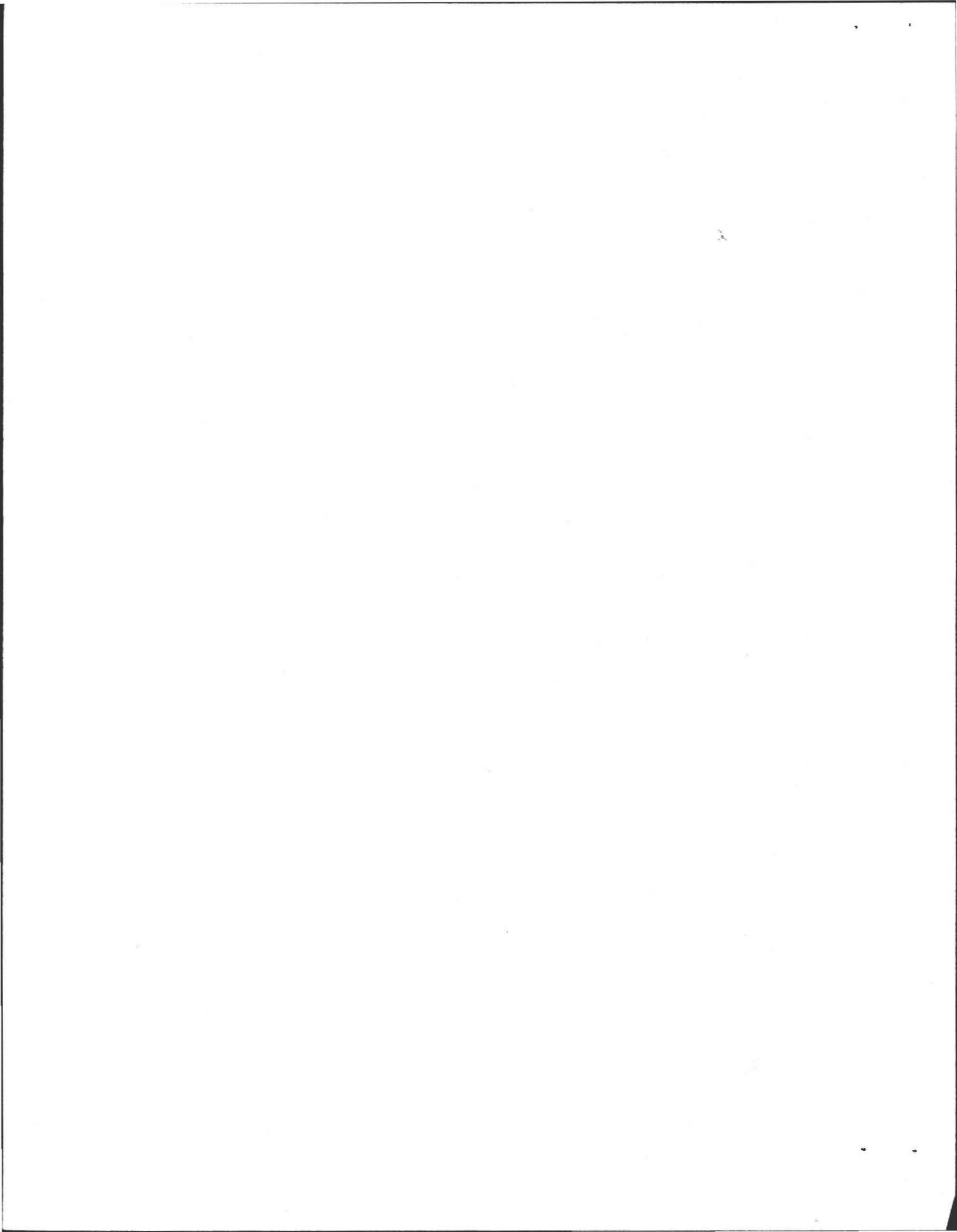
Does at least four feet of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? \_\_\_\_\_

If not, what is the depth of naturally occurring previous 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 \_\_\_\_\_



14401st Rd

On-Site Review

Deep Hole Number 9 Date: 7/2/08 Time \_\_\_\_\_  
Weather Cloudy Rain  
Location (identify on site plan) \_\_\_\_\_  
Land Use Residential Slope (%) 2  
Surface Stone None  
Vegetation: Lawn

Landform: Wash Terrace outwash?

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:  
Open Water Body 100 feet Drainageway — feet  
Possible Wet Area 100 feet Property Line 50 feet  
Drinking Water Well \_\_\_\_\_ feet Other \_\_\_\_\_

Tough water

DEEP OBSERVATION HOLE LOG					
depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
8	A	FSL	10YR 3/2	—	
18	Bw	SL	10YR 5/6	—	med sand
126	C <sub>1</sub>	S	10YR 4/6	126	well sorted

Parent Material (geologic) out wash Terrace  
Depth to Bedrock 120  
Depth to Groundwater: \_\_\_\_\_  
Standing Water in the Hole \_\_\_\_\_  
Weeping from Pit Face \_\_\_\_\_  
Estimated Seasonal High Water 120"

On-Site Review

Deep Hole Number \_\_\_\_\_ Date: \_\_\_\_\_ Time \_\_\_\_\_  
Weather \_\_\_\_\_  
Location (identify on site plan) \_\_\_\_\_  
Land Use \_\_\_\_\_ Slope (%) \_\_\_\_\_  
Surface Stone \_\_\_\_\_  
Vegetation: \_\_\_\_\_

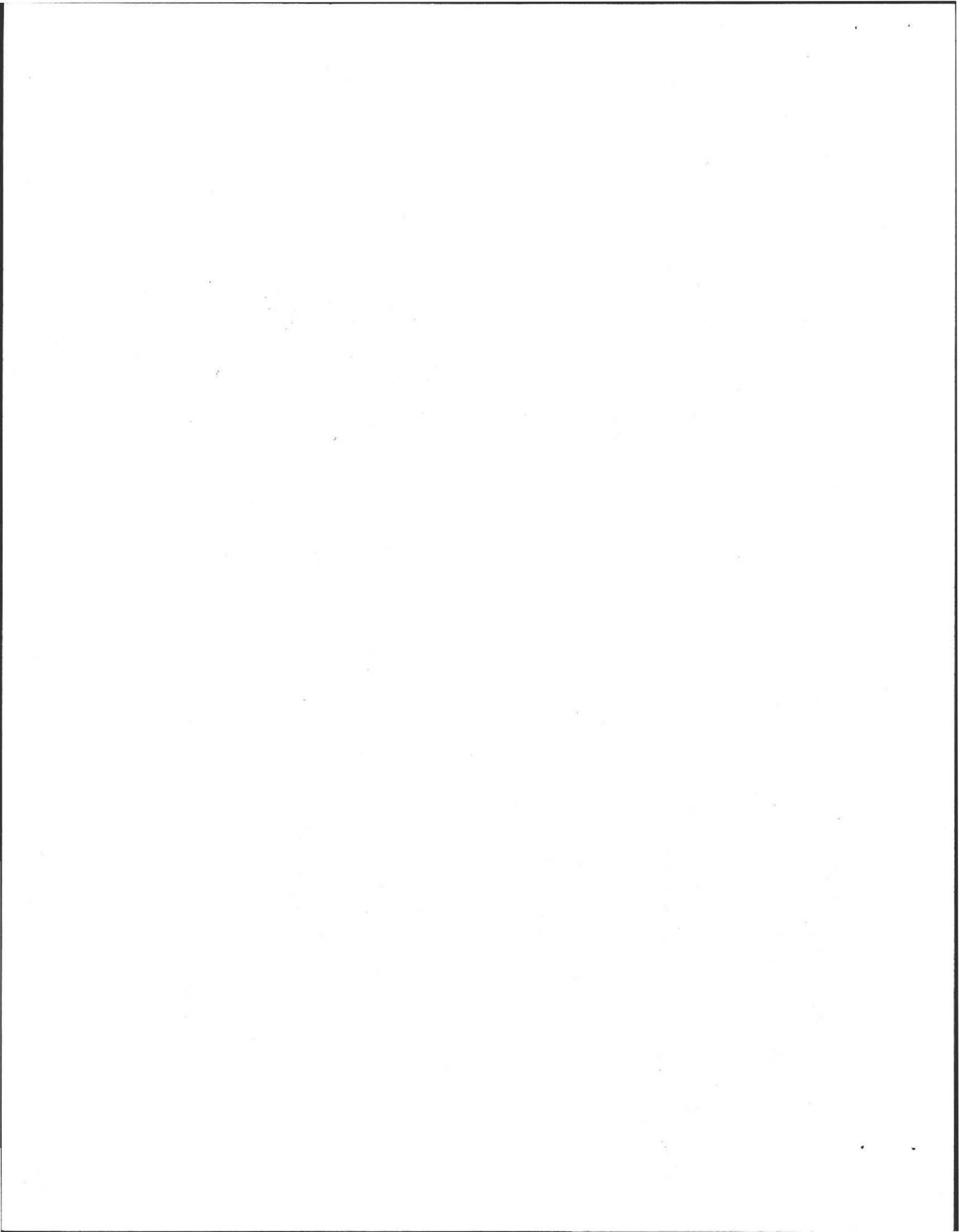
Landform: SAND

Position on Landscape (sketch on back) \_\_\_\_\_

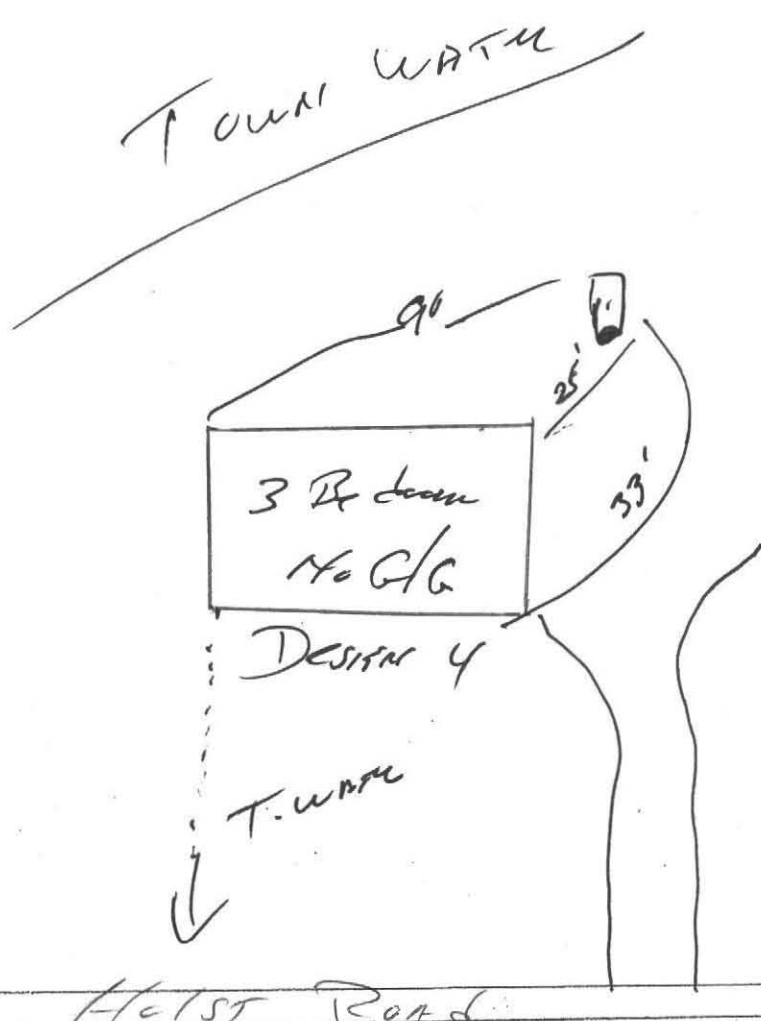
Distances from:  
Open Water Body \_\_\_\_\_ feet Drainageway \_\_\_\_\_ feet  
Possible Wet Area \_\_\_\_\_ feet Property Line \_\_\_\_\_ feet  
Drinking Water Well \_\_\_\_\_ feet Other \_\_\_\_\_

DEEP OBSERVATION HOLE LOG					
depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
8	A	FSL	10YR 3/2	—	
20	Bw	SL	10YR 5/6	—	med sand
72	C <sub>1</sub>	S	10YR 4/6	120	med sand

Parent Material (geologic) outwash Terrace  
Depth to Bedrock 72"  
Depth to Groundwater: \_\_\_\_\_  
Standing Water in the Hole \_\_\_\_\_  
Weeping from Pit Face \_\_\_\_\_  
Estimated Seasonal High Water \_\_\_\_\_







FORM 12: Percolation Test  
 Location Address or Lot #

14 Helst Road

Commonwealth of Massachusetts  
 Town of Amherst

PERCOLATION TEST *		
DATE:	7/7/05	TIME:
Observation Hole #	①	
Depth of Perc	45'	
Start Pre-soak	8:40	
End Pre-soak	8:55	
Time at 12"	8:55	
Time at 9"	8:57	
Time at 6"	8:59	
Time (9"-6")		
Rate Min./Inch		

\*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed

Site failed

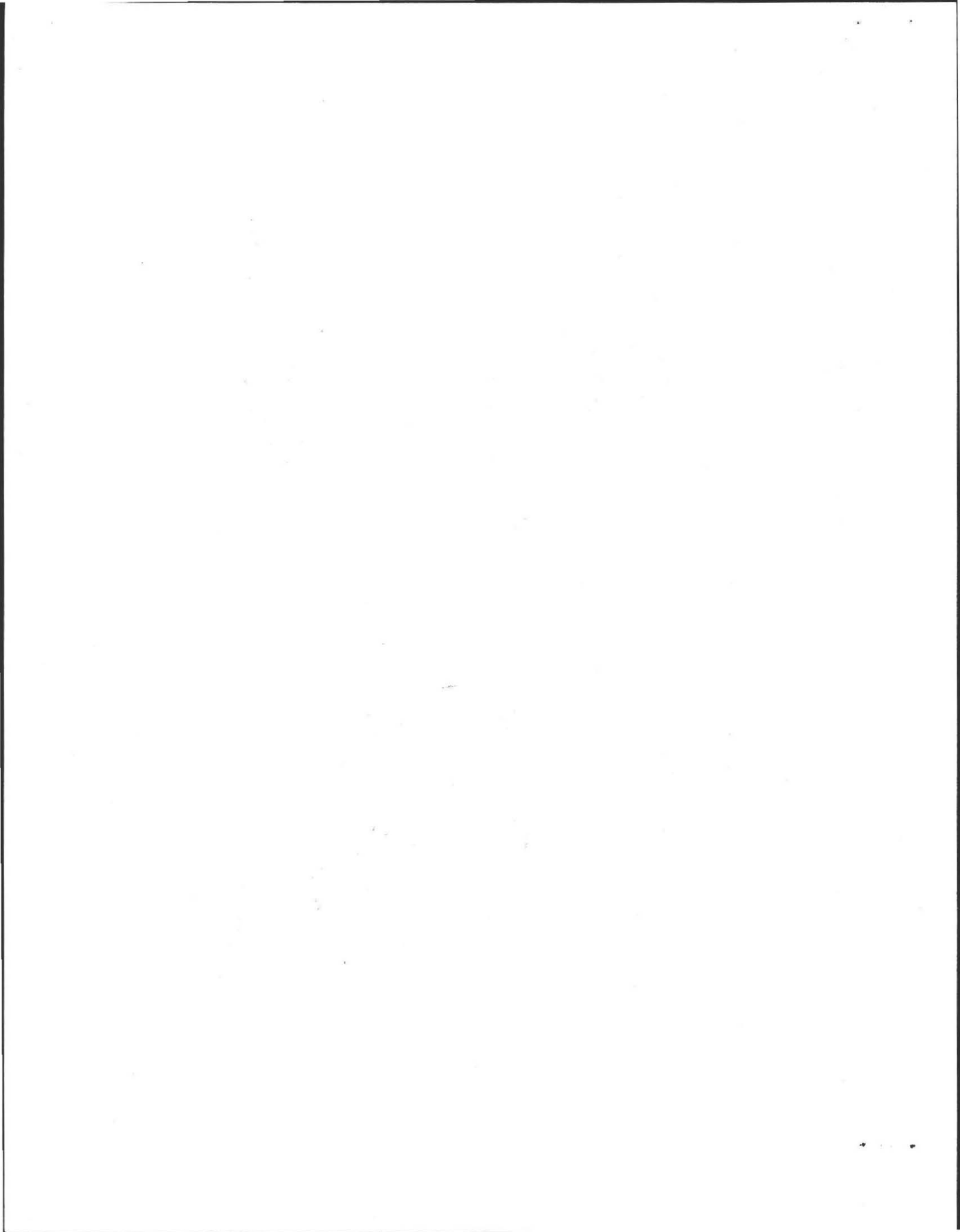
Performed by

AL Weis

Witnessed by

David Zankowski

Comments:



**ALAN E. WEISS, M.S., L.S.P.**  
Licensed Site Professional  
Registered Sanitarian  
Hydrogeologist  
President

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

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

Date: 7/7/05

Commonwealth of Massachusetts  
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. WEISS  
Witnessed By: D. ZAROTZNSKI

Date: 7/7/05

Location Address or Lot #  <p style="text-align: center;"><u>14 HULST RD.</u></p>	Owner's Name, Address, and Telephone #  <p style="text-align: center;"><u>JEAN MOORES</u> <u>14 HULST RD</u></p>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

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) \_\_\_\_\_

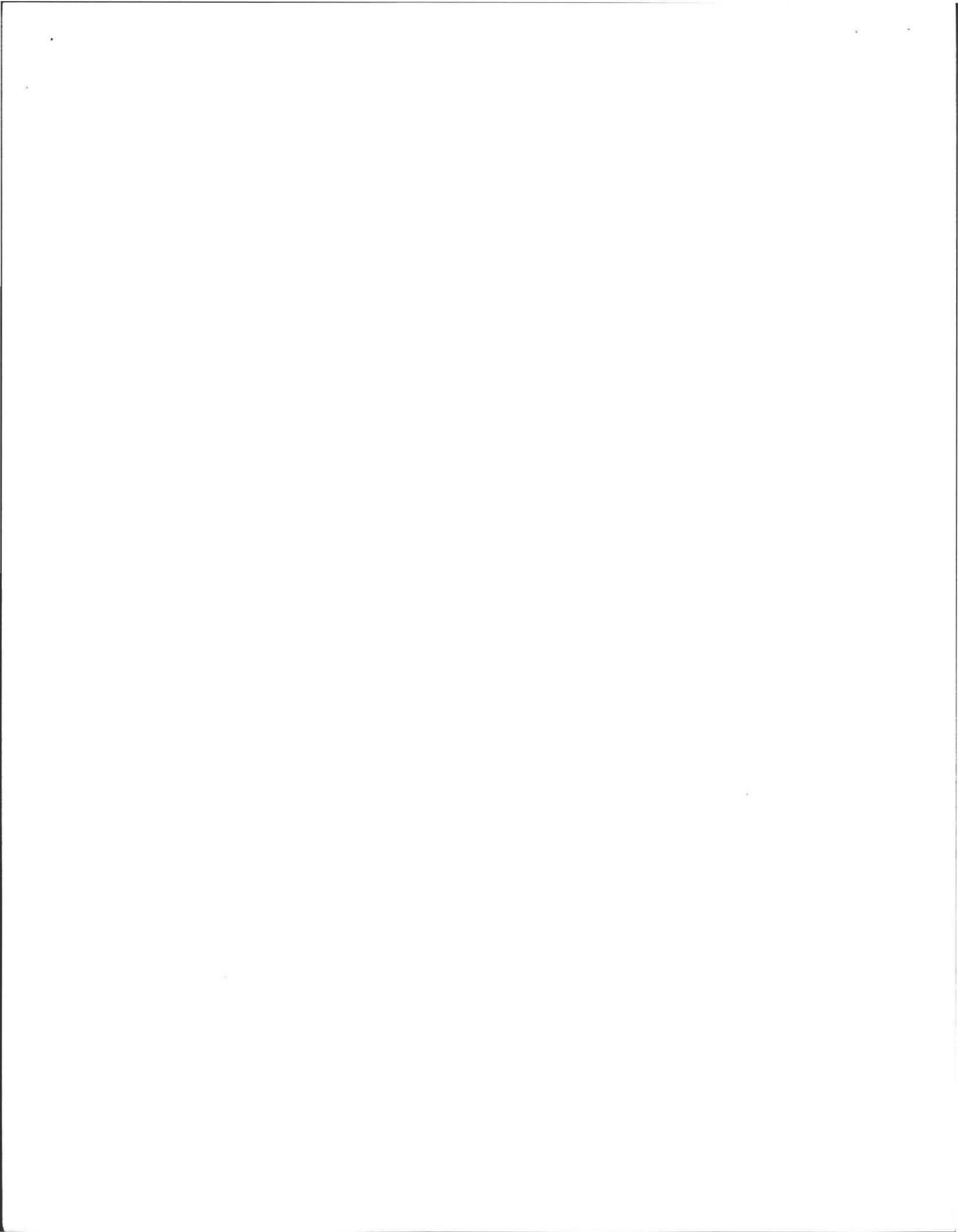
Wetlands Conservancy Program Map (map unit) \_\_\_\_\_

Current Water Resource Conditions (USGS): Month \_\_\_\_\_

Range : Above Normal  Normal  Below Normal

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





Location Address or Lot No. 14 HUIST RD

On-site Review

Deep Hole Number 1+2 Date: 7/7/05 Time: 8:45 Weather CLOUDS 70

Location (identify on site plan) \_\_\_\_\_

Land Use Res Slope (%) 2 Surface Stones Not

Vegetation grass

Landform Terraced

Position on landscape (sketch on the back) \_\_\_\_\_

Distances from:

Open Water Body 100' feet Drainage way \_\_\_\_\_ 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)
<u>0-8"</u>	<u>A</u>	<u>FSL</u>	<u>10YR 3/2</u>		
<u>8"-18"</u>	<u>Bw</u>	<u>SL</u>	<u>10YR 5/6</u>	<u>Not obs.</u>	<u>MED. SAND WELL SORTED.</u>
<u>18"-126"</u>	<u>C<sub>1</sub></u>	<u>S</u>	<u>10YR 4/6</u>	<u>120"</u>	
<u>0-8"</u>	<u>A</u>	<u>FSL</u>	<u>10YR 3/2</u>		
<u>8"-20"</u>	<u>Bw</u>	<u>SL</u>	<u>10YR 5/6</u>	<u>Not obs.</u>	<u>MED SAND, WELL SORTED</u>
<u>20"-72"</u>	<u>C<sub>1</sub></u>	<u>S</u>	<u>10YR 4/6</u>	<u>120"</u>	

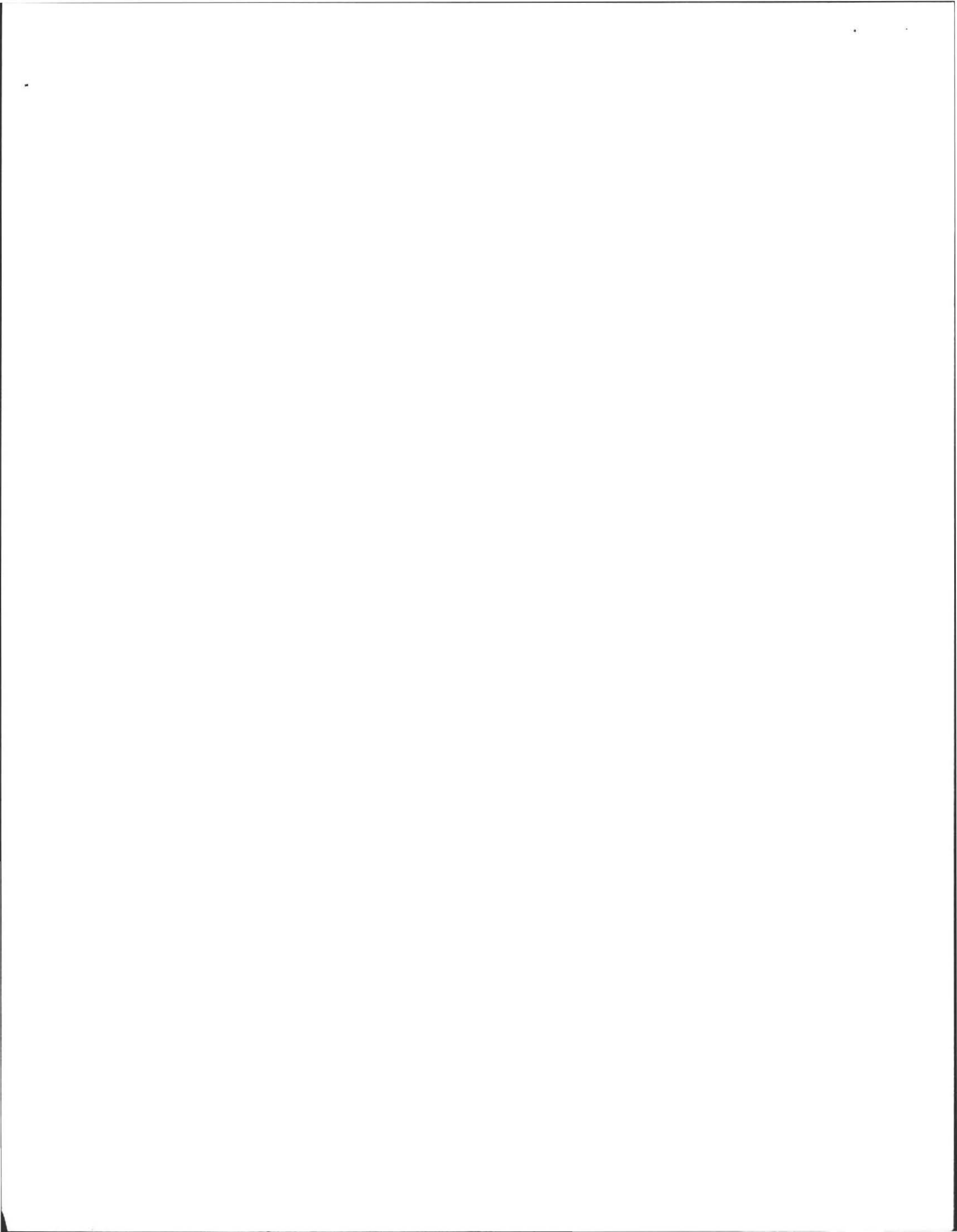
\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash, Terrace Depth to Bedrock: 120"

Depth to Groundwater: Standing Water in the Hole: Not Weeping from Pit Face: \_\_\_\_\_

Estimated Seasonal High Ground Water: 120"+





Location Address or Lot No. 14 Hulse

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

Percolation Test*		
Date: <del>7/7/05</del> <u>7/7/05</u>		Time: <u>8:30</u>
Observation Hole #	<u>P1</u>	↙
Depth of Perc	<u>45"</u>	
Start Pre-soak	<u>8:40</u>	
End Pre-soak	<u>8:55</u>	
Time at 12"	<u>8:55"</u>	
Time at 9"	<u>8:57</u>	
Time at 6"	<u>8:59</u>	
Time (9"-6")	<u>22</u>	
Rate Min./Inch	<u>22</u>	

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

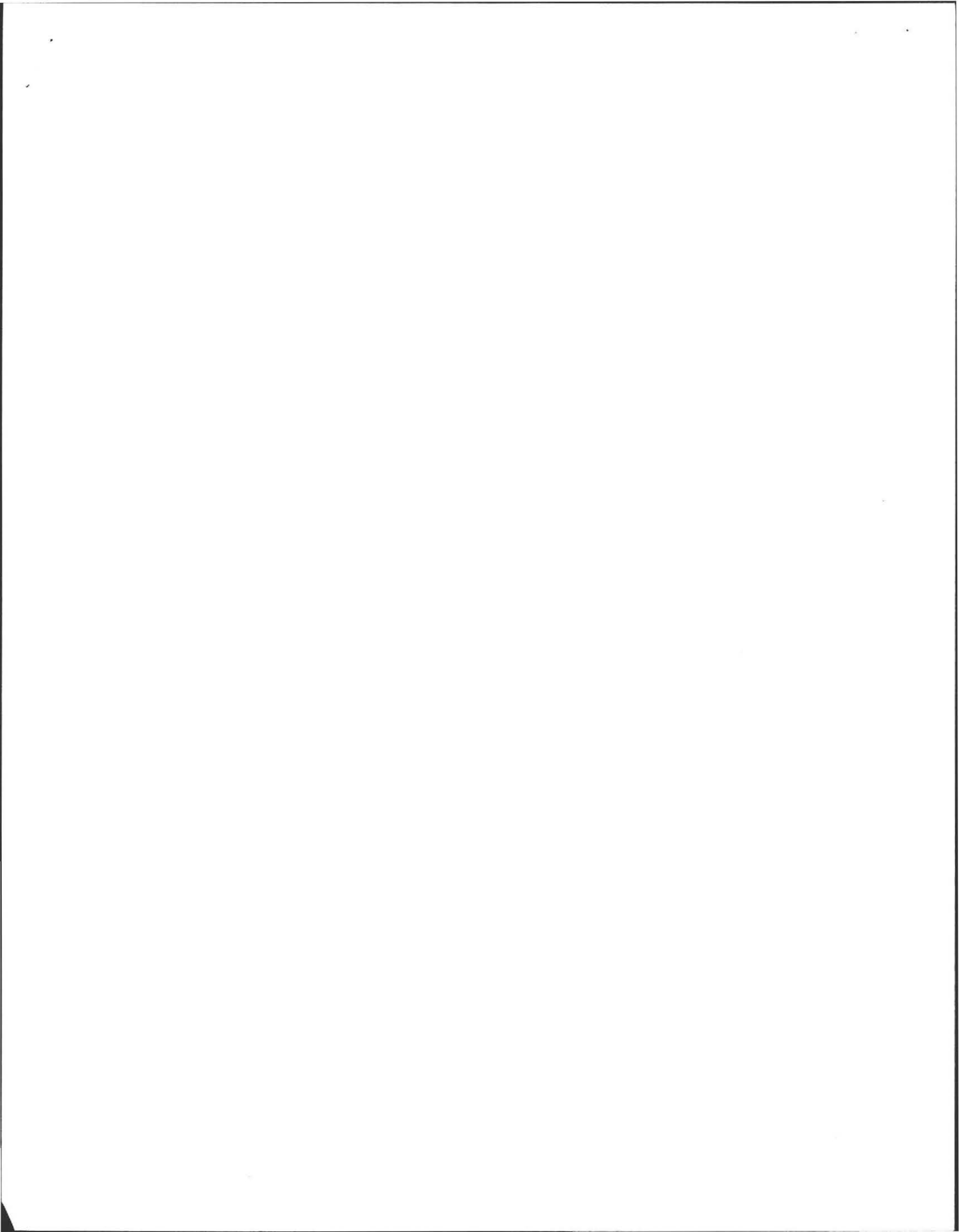
Site Passed  Site Failed

Performed By: A. Weiss

Witnessed By: D. ZARUZINSKI

Comments: DESIGN FOR 4 BR







Location Address or Lot No. 14 Hurst 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 120" ± 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

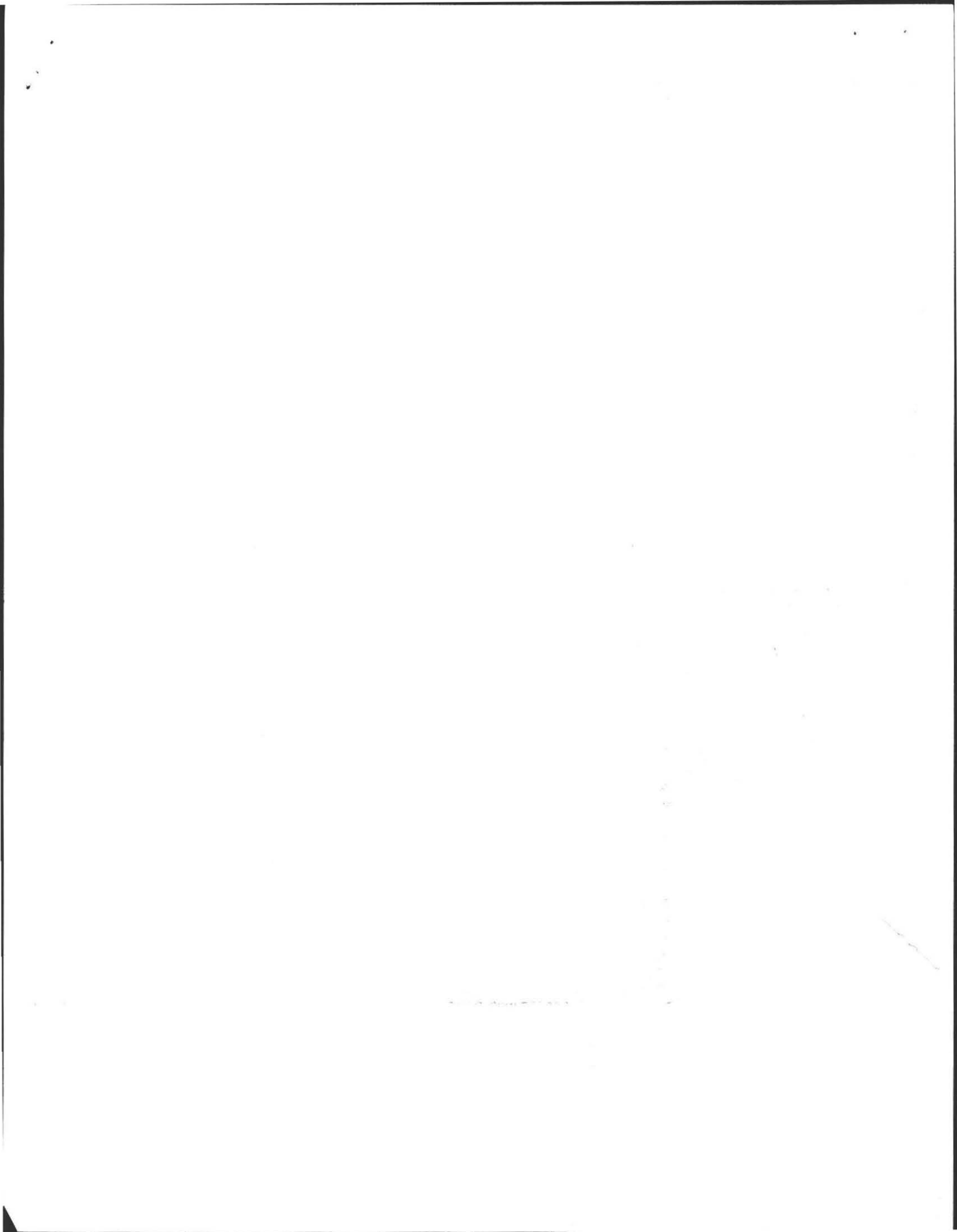
If not, what is the depth of naturally occurring pervious material? \_\_\_\_\_

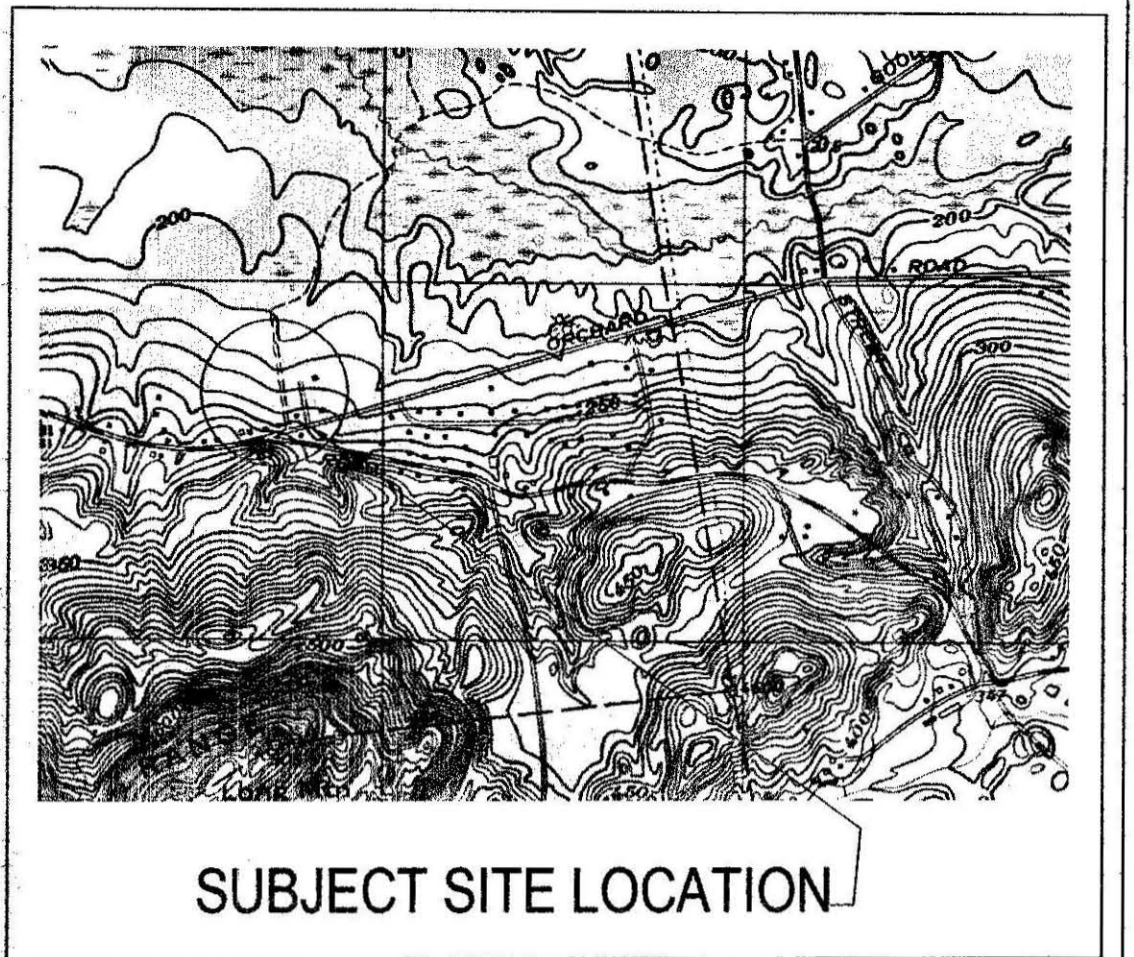
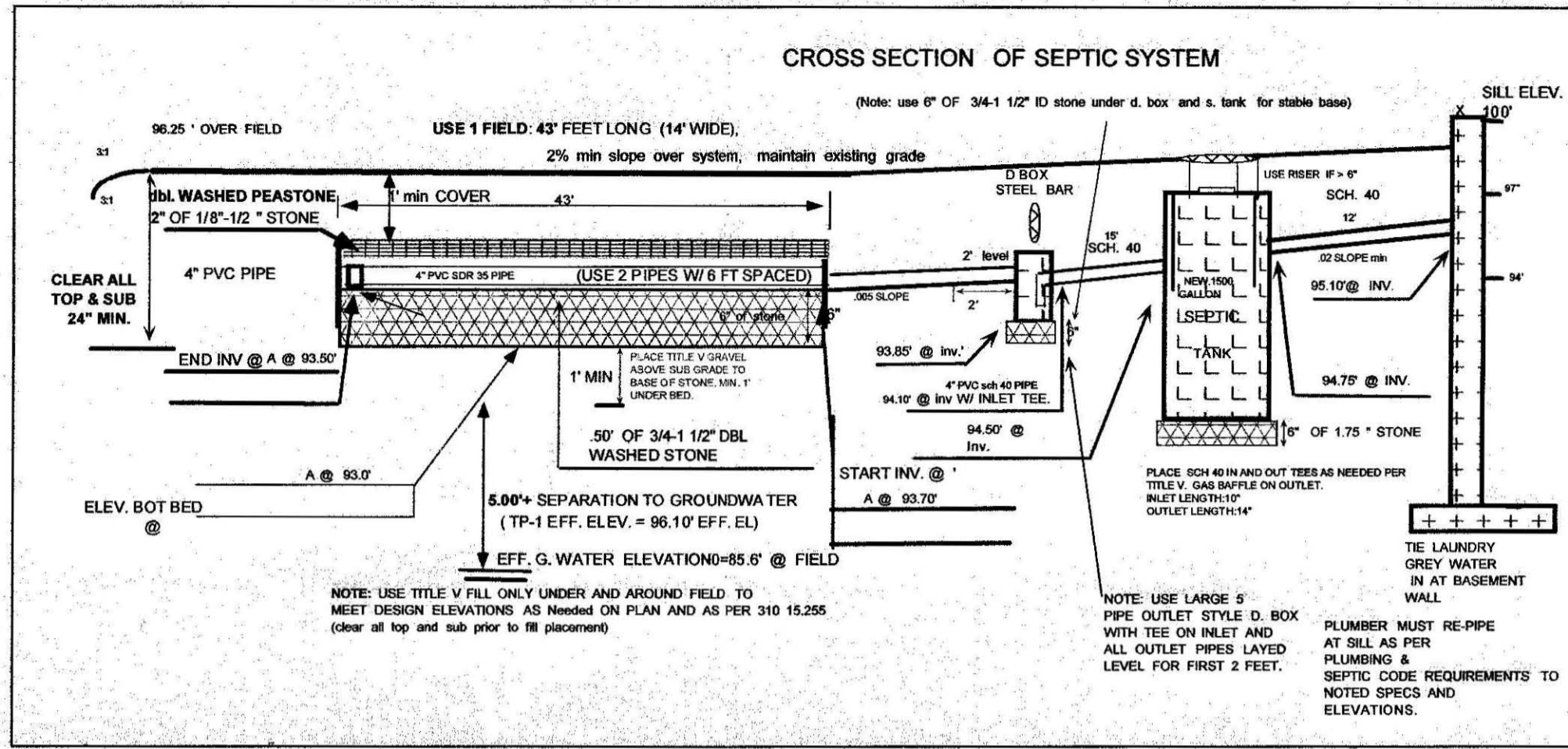
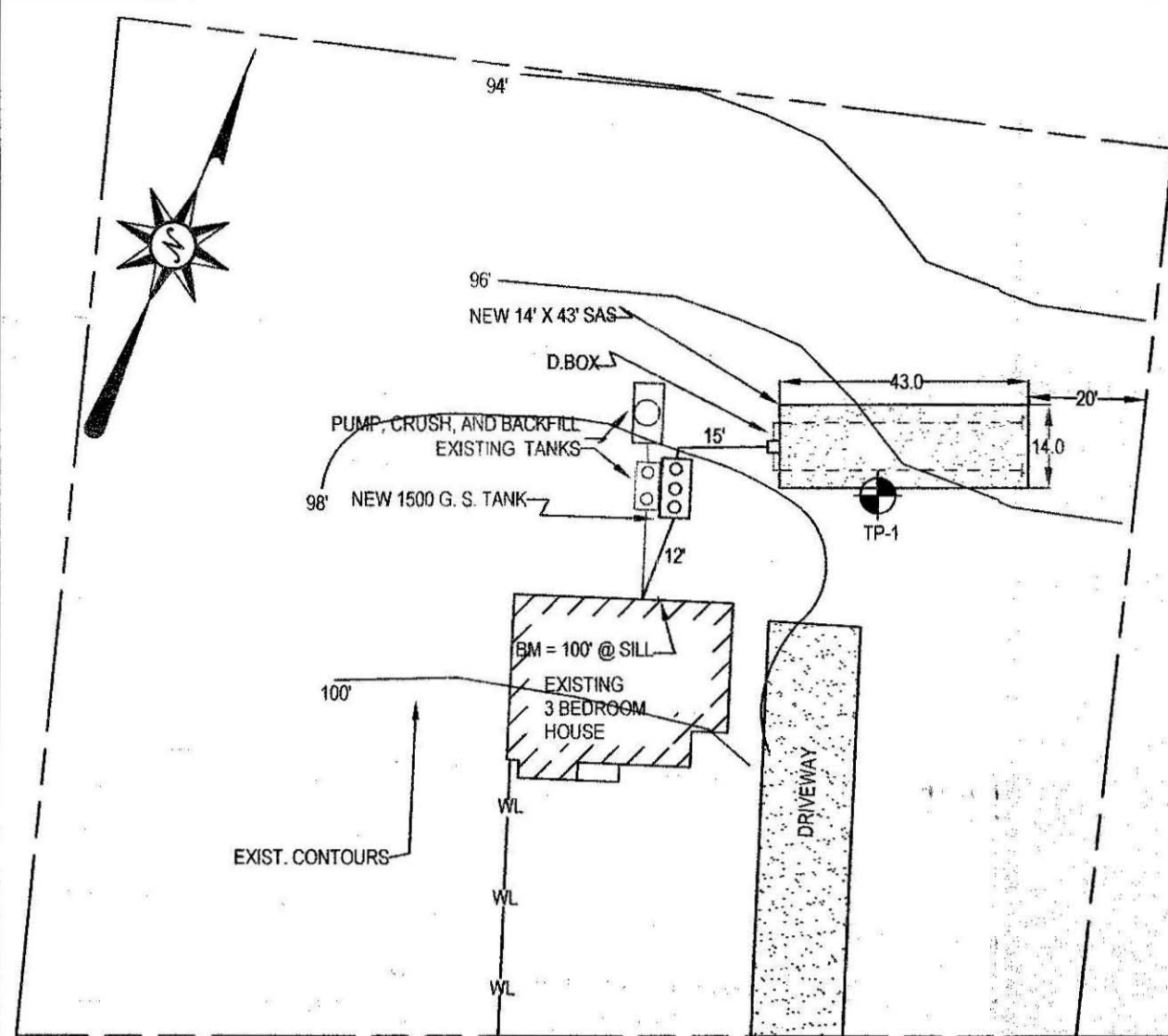
Certification

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 [Signature] Date 7/7/05



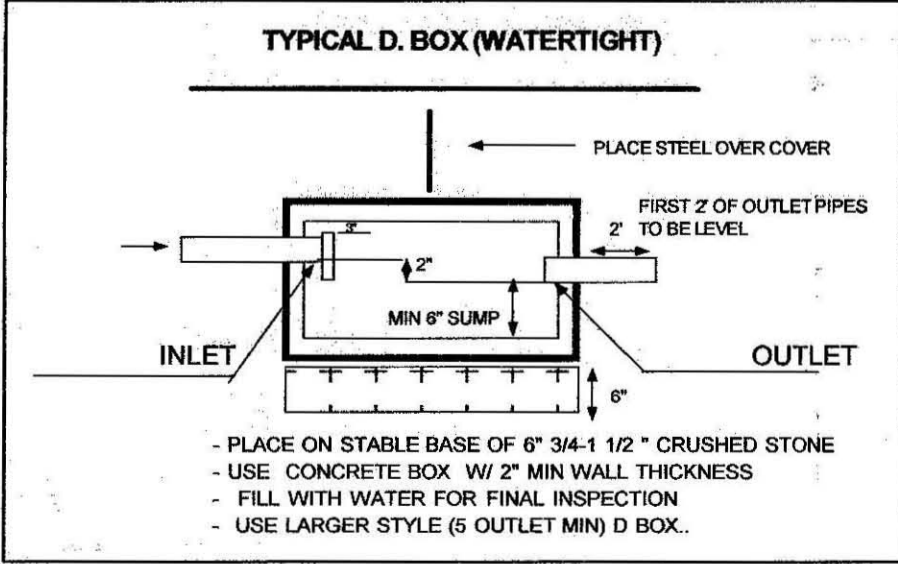
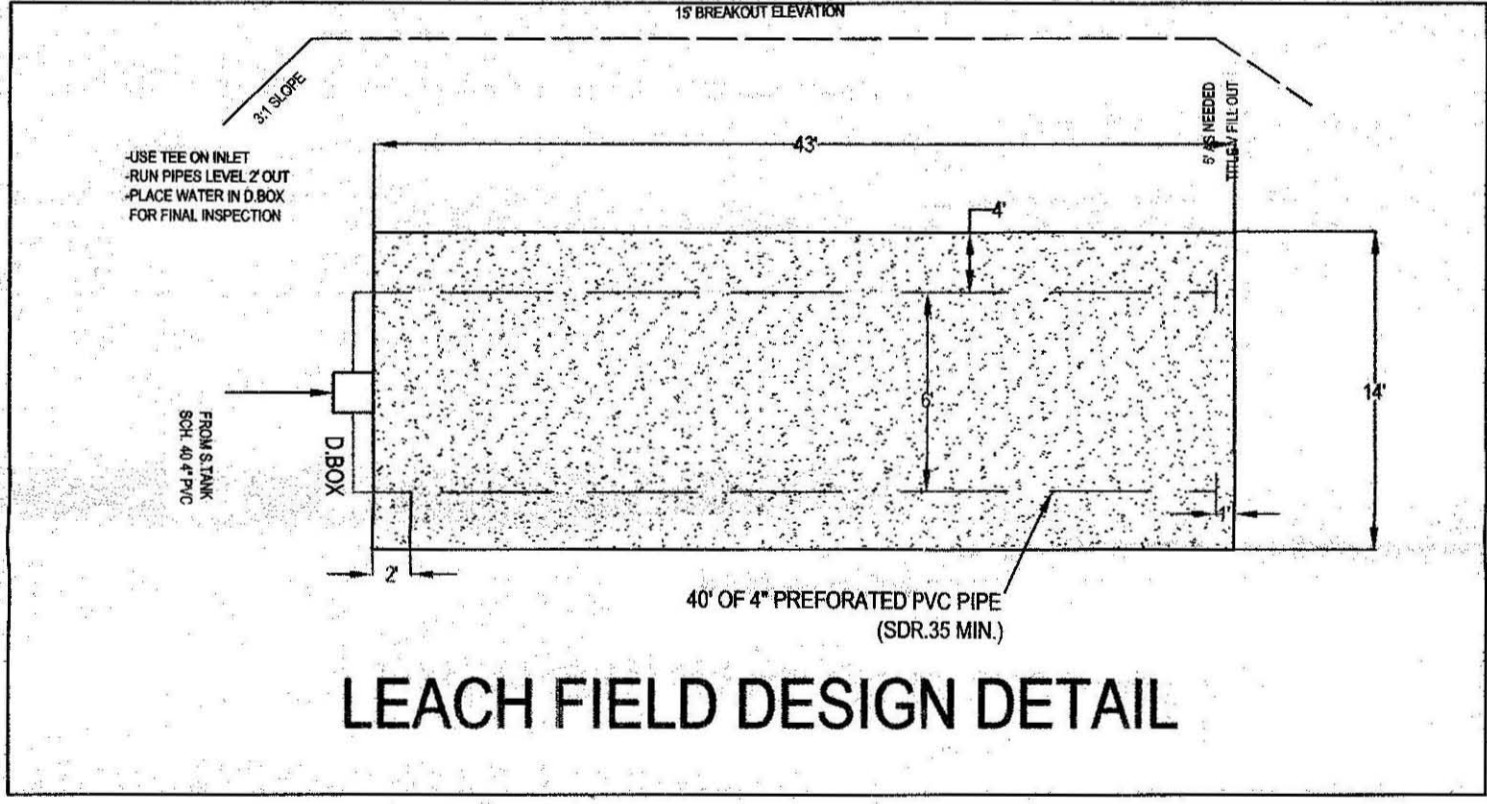
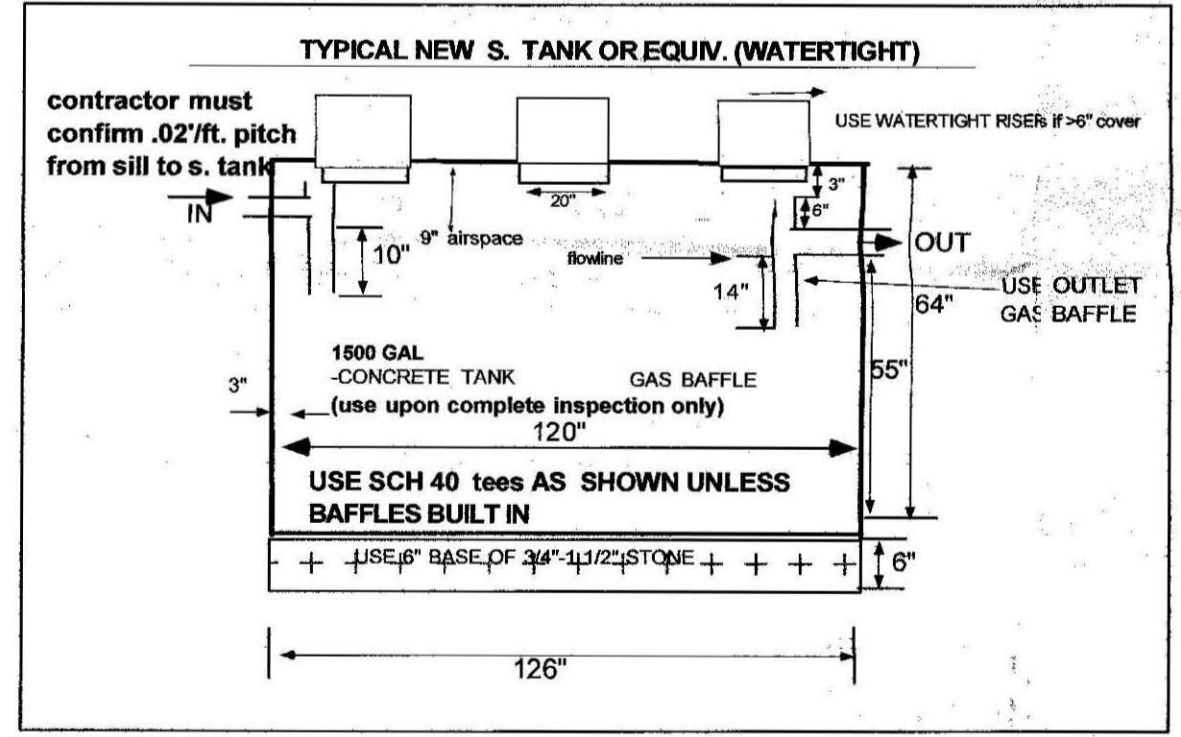




HULST ROAD

NOT AN ACTUAL SURVEY!  
LINES DRAWN FOR SEPTIC  
AND LOCATION ONLY.

**PLOT PLAN**  
SCALE: 1"=30'  
28,898± Sq. Feet  
0.663± Acres



- DESIGN NOTES:**
- 3 BR X 110 GAL/PERSONS/DAY = 330 GAL/DAY (3 BR HOME, DESIGNED FOR 4 BEDROOMS)
  - USE ONE FIELD 14' wide x 43' LONG W/6" OF 0.5" OF DBL WASHED STONE below invert.  
Bot. Area: 14' wide x 43' long = 602 SF.  
Side Area: SF  
Tot. Area: 602 SF x 0.74 gal/sf. = 445 GAL/DAY
  - GARBAGE DISPOSAL NOT ALLOWED
  - ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'
  - NO PRIVATE WELLS WITHIN 100 FEET OF SAS (TOWN WATER)
  - NO WORK WITHIN 150 FEET OF WETLAND
  - PRE & POST CONTOURS NOTED AS NECESSARY.
  - SUBGRADE & FINAL INSPECTION REQUIRED (SUBGRADE SIGN OFF).
  - USE NEW 1500 G.S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK.
  - SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
  - 2% MIN. SLOPE OVER SAS. CLEAR TOP AND SUB TO 8" MIN. AS NEEDED.  
CLEAR TO BASE OF TB (MIN. 24") & SCARIFY SOIL UNDER BED PRIOR TO TITL V SAND PLACEMENT (if needed).
  - SOIL EVALUATION BY A. WEISS 7/7/2005 (D. ZAROZINSKI, BOH AGENT).
  - DEPTH OF PERC. 45" BY A. WEISS 7/7/2005, D. ZAROZINSKI, HEALTH AGENT
  - PERC RATE = <2 MIN/IN, CLASS I SOIL RATING (LS)
  - INSTALL/INSPECT SICH. 40 TEES/BAFFLES (10" INLET, 14" OUTLET).
  - USE APPROVED (1 1/2") DBL. WASHED STONE UNDER BED & D. BOX FOR 6".  
CONFIRM STONE PROPERLY WASHED (WITH BUCKET /H2O TEST) PRIOR TO PLACEMENT.
  - NO TREES WITHIN 110 FT. OF NEW LEACH FIELD. USE TITL V FILL 5' OUT.
  - ENGINEER TO INSPECT SUBGRADE, STUMPS AND BOULDERS WHERE INTERFERES WITH NEW SAS.
  - T.B.M. 1-100.00 @ HOUSE SILL (AS NOTED), CONFIRM PROPER PITCH  
USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
  - GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.
  - USE LEACHING FIELD DUE TO TOPOGRAPHY, ESHGW. AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240)
  - INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

**TEST PIT LOG:**

TP-1 EFF. EL. 96.10 EFF. ELEV.	TP-2 @ PERC:
0-8" Ap: F. SANDY ILOAM (10 YR 32)	0-8"
8-18" Bw: SANDY LOAM (10 YR 36)	8-20"
18-126" C1: MED. SAND WELL SORTED (10 YR 4/6)	20-72"

OXIDES: NOT OBSERVED  
ESHW: ASSUMED @ 126"  
NOT OBS: STANDING H2O  
NOT OBS: WEEPING FROM FACE  
126" + BEDROCK

- GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.**
- HAVE TANK PUMPED EVERY 2 YEARS.
  - MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
  - DO NOT PLANT ANT TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
  - USE ONLY LIQUID DETERGENTS IN WASHERS.

**ATTENTION INSTALLER!**  
CALL DIG SAFE BEFORE YOU DIG! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

NOTE: INSTALLER MUST CONTACT ENGINEER 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.



SEPTIC SYSTEM REPAIR PLAN FOR JEANNE MOORES  
14 HULST ROAD  
AMHERST, MA.

**Cold Spring Environmental Consultants Inc.**  
350 Old Enfield Road  
Belchertown, MA. 01007

PHONE: (413) 323-5957  
FAX: (413) 323-4916  
e-Mail: [ALWEISS@charter.net](mailto:ALWEISS@charter.net)

DATE: 8/2/05	DRAWN BY: ALAN WEISS	REVISED:
SCALE: 1"=30'		DRAWING NUMBER: 105-2272-0707