

*16 WINDFLOWER Lot #2

37 BAY ROAD

11-05-08 Called Alan RE: plan

11-07-08 Called Kyle - all set to go ahead

12-23-08 Called Kent - needs to pay for perc test \$300.00 - he will come in.

Fresh Side

256-096

687-8656 (home)
cell

Kent Chu

11-10-08

16 Wildflower Lot #2

On hold per Alan
Kent probably won't
act on it now.

12-23-08 Called Kent - needs to pay for perc \$300, will stop in.
Called back - should owner pay, I don't know
told Kent to call Alan Weiss.

Paid

11/24/09

Perc
PLAN Review

us]

i, Charlie (DPH); tritownhealth03@adelphia.net; Gina
nski (E-mail); Zarozinski, David; 'LisaH (E-mail)

ns

stfield.ma.us]

cki, Charlie (DPH)'; tritownhealth03@adelphia.net;
zinski (E-mail)'; 'Dave Zarozinski (E-mail)'; "LisaH (E-

estions

dated registration list as of this morning.
H Jamaica Plain has notified me that he will
he has been removed from the registration list.

PERMITS/INSP PAYMENT RECPT#: 10046928

TOWN OF AMHERST

TOWN HALL
4 BOLTWOOD AVENUE
AMHERST MA 01002

DATE: 11/25/09 TIME: 10:35
CLERK: mirj DEPT:

PAID BY:
PAYMENT METH: CHECK 1140

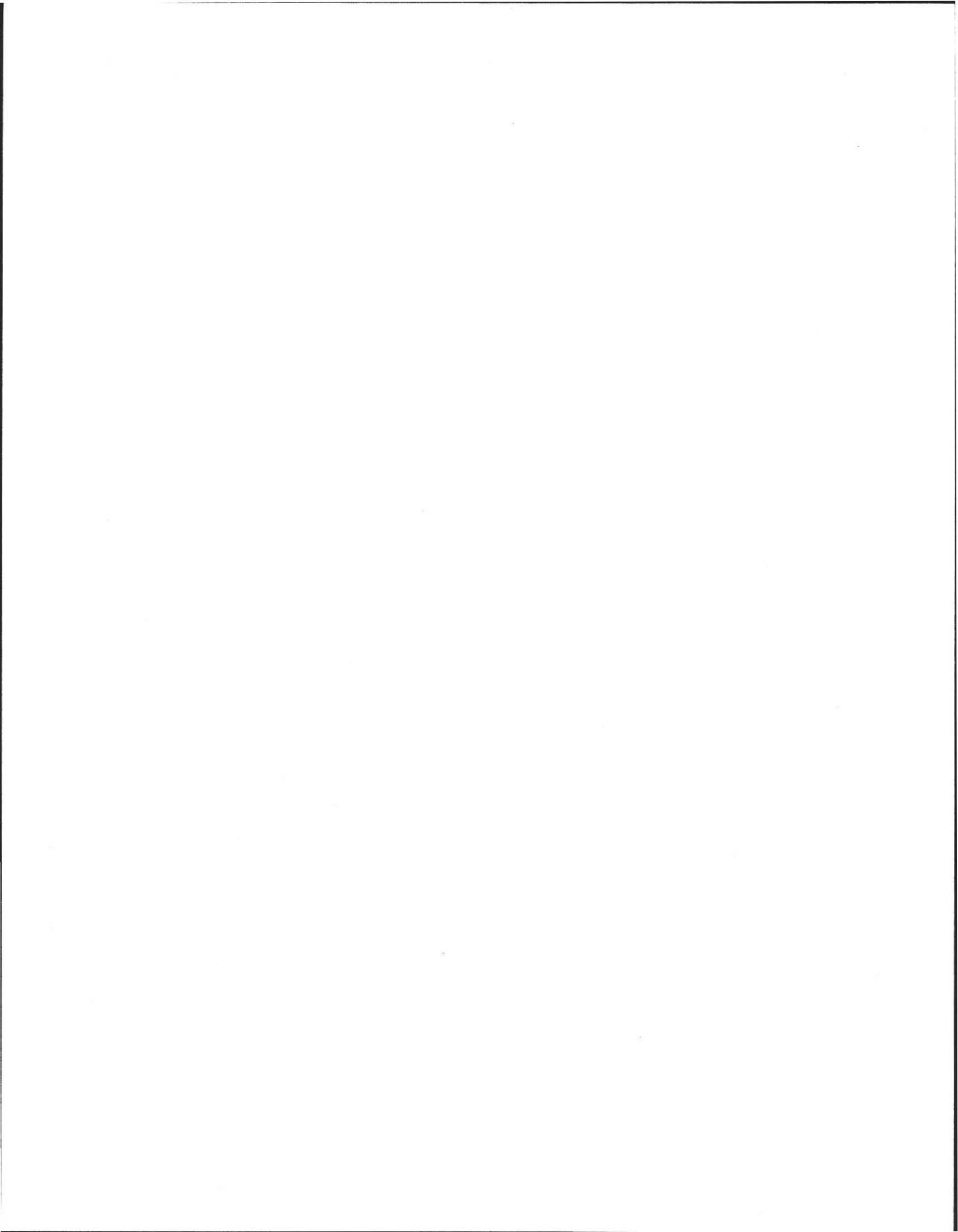
REFERENCE: A

AMT TENDERED: 150.00
AMT APPLIED: 150.00
CHANGE: .00

SITE ADDRESS: 16 WILDFLOWER

FEES:
HEA043 PLAN REVIEW 150.00

TOTAL PAID: 150.00



PERMITS/INSP PAYMENT RECPT#: 10046927
TOWN OF AMHERST
TOWN HALL
4 BOLTWOOD AVENUE
AMHERST MA 01002

DATE: 11/25/09 TIME: 10:32
CLERK: mirj DEPT:

PAID BY:
PAYMENT METH: CHECK 1140

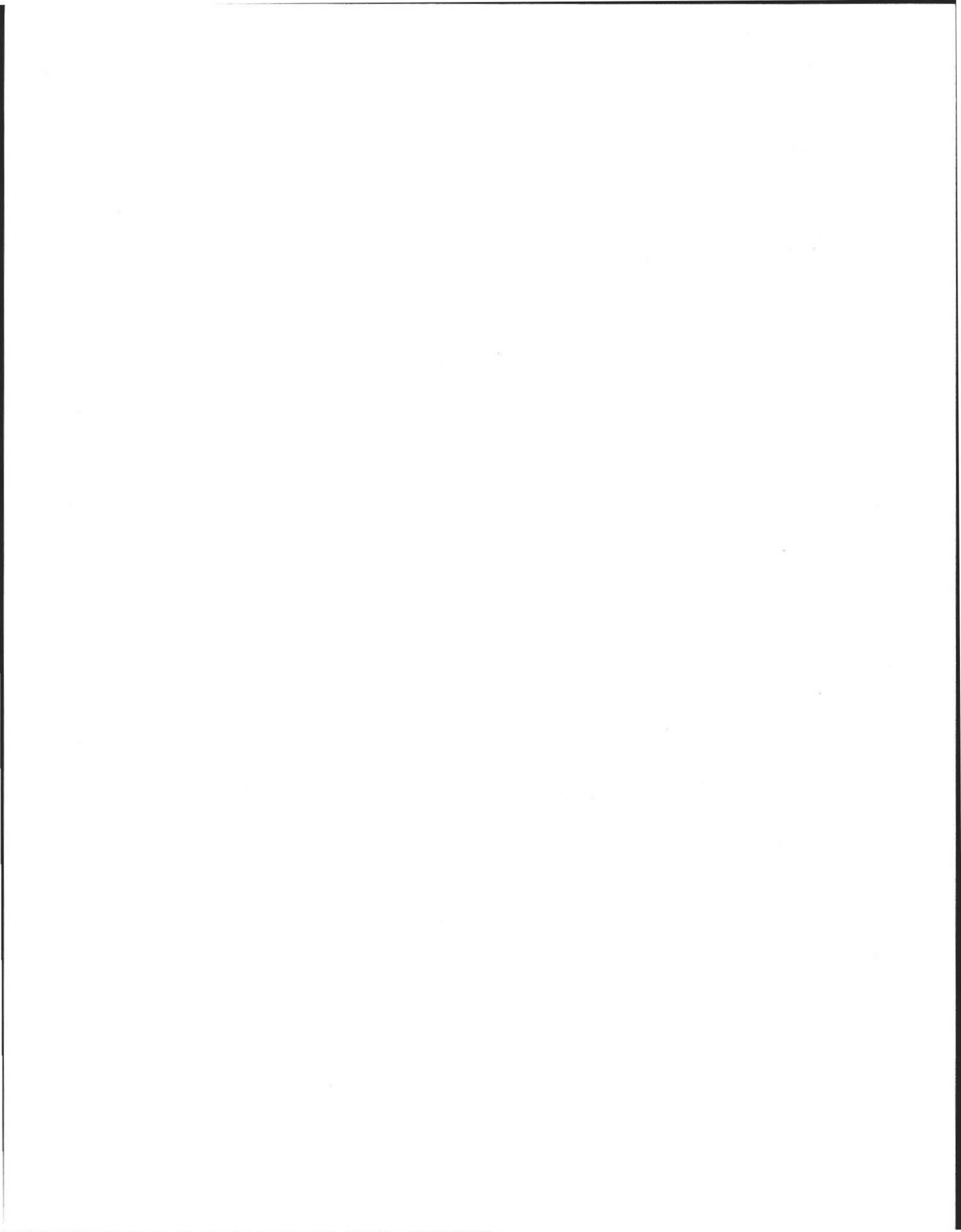
REFERENCE: A

AMT TENDERED: 300.00
AMT APPLIED: 300.00
CHANGE: .00

SITE ADDRESS: 16 WILDFLOWER

FEES:
HEA011 PERCOLATIONS TE 300.00

TOTAL PAID: 300.00



No. _____

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

522-0933 1/0 Kyle Wilson, Integrity Beds

Location <u>Lot 2 Wildflower Dr</u>	Owner's Name <u>Kent Chu</u>
Map/Parcel# <u>#210/F2</u>	Address <u>94 Rambling Rd. Amherst, 01002</u>
Lot# <u>2</u>	Telephone# <u>1/0 Kyle Wilson 522-0933</u>
Installer's Name <u>Karis Excavating</u>	Designer's Name <u>Alan Weiss RS.</u>
Address <u>Hackley</u>	Address <u>Belcher town</u>
Telephone# <u>549-5396</u>	Telephone# <u>413.323.5957</u>

Type of Building Residence Lot Size 60,605L sq. ft.
 Dwelling - No. of Bedrooms 4 Bedrooms Garbage grinder
 Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other Fixtures Garbage Grinder
 Design Flow (min. required) 110 gpd Calculated design flow 660 Design flow provided 686 gpd
 Plan: Date 7/25/08 Number of sheets _____ Revision Date _____
 Title Septic System Design Plan
 Description of Soil(s) Class I (C-Sand)
 Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 7/17/08

DESCRIPTION OF REPAIRS OR ALTERATIONS Install New Septic System

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 [Signature] Date 7-24-2008



Inspections [Signature] Dept. Caute-marche

No. 08-14

FEE _____

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: Integrity Beds
at 16 Wildflower Amherst, MA

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 11/24/09. Approved Design Flow 686 (gpd)

Installer [Signature] Designer: [Signature] Inspector: Dept. Caute-marche Date: 11/24/09

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

No. 08-14

FEE _____

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 16 Wildflower Dr. (Lot 2) as described in the application for Disposal System Construction Permit No. 08-14, dated 10-26-08

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 11-05-08 Board of Health [Signature] DC, MPH, RS



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: 7-17-08

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Date: 7/17/08

Witnessed By:

Ellen Bokuniewicz Amh. Both.
c/o Kyle Wilson, Integrity

Location Address or Lot # <u>LOT 2, Wildflower 1.58 AC.</u> <u>West of #18, <u>New Lot.</u></u>	Owner's Name, Address, and Telephone # <u>MR. Shaw</u> <u>18 Wildflower Dr.</u> <u>Amherst, MA</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)

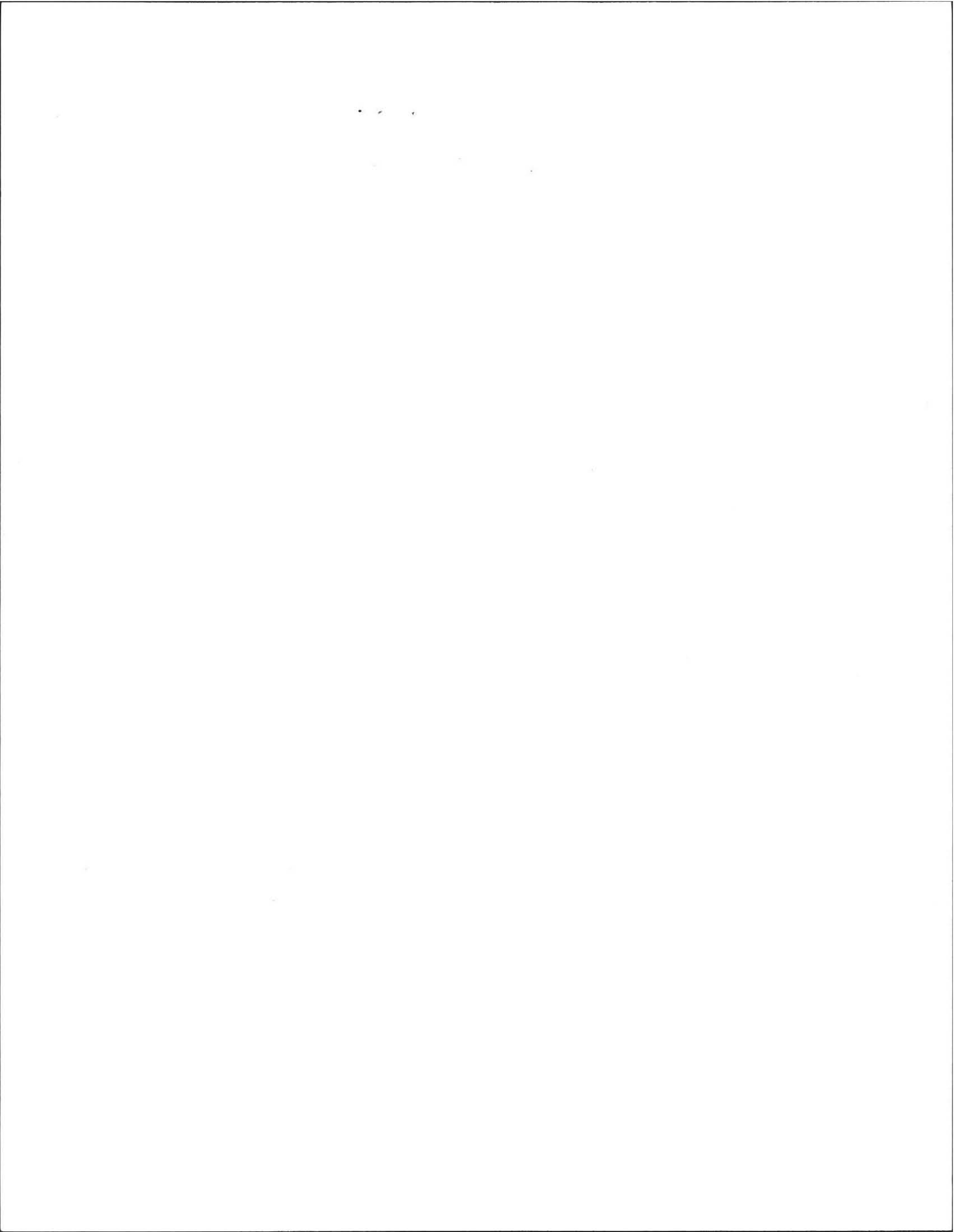
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range : Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. LOT 21A, WILD Flower DR ⁽¹⁸⁾ New Lot to west

On-site Review

Deep Hole Number 1-4 Date: 7/17/08 Time: 9:00 Weather SUN 80°

Location (identify on site plan) _____

Land Use Wooded Slope (%) 1 Surface Stones Not

Vegetation Mixed - Deciduous + Pine

Landform Terrace

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 30' feet
 Drinking Water Well 150' feet Other _____

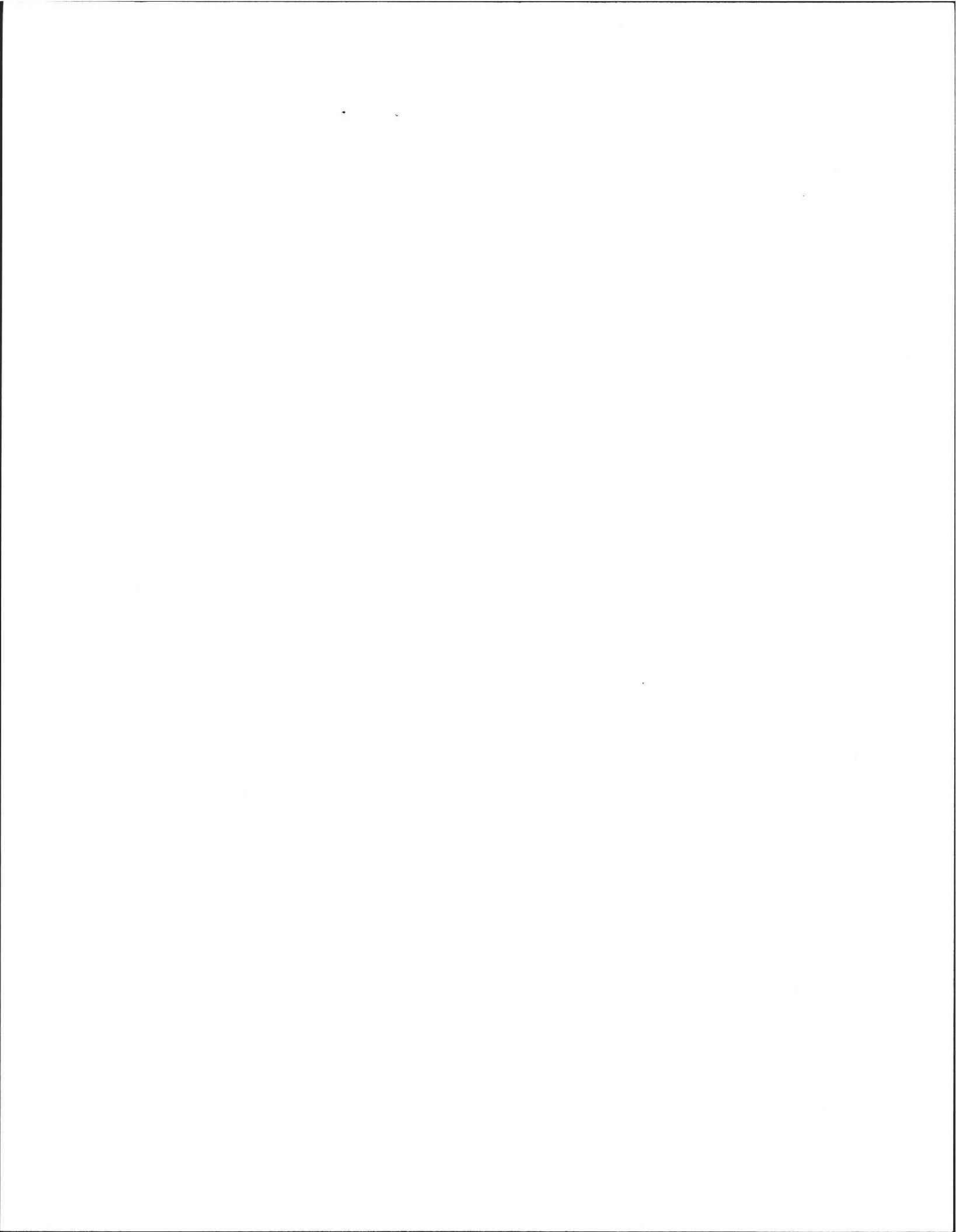
DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-10" 10"-28" 28"-132"	A B _w C ₁	fsl ls s	10YR 3/3 10YR 5/6 10YR 5/4	NOT OBS	Friable friable, granular, f. sand. Coarse sand, well sorted, granular 15% cobbles
0-10" 10"-30" 30"-120"	A B _w C ₁	fsl ls s	10YR 3/3 10YR 5/6 10YR 5/4	NOT OBS	Friable friable, loose. c. sand + gravel, 15% cobbles, granular.
0-10" 10"-28" 28"-132"	A B _w C ₁	fsl ls s	10YR 3/2 10YR 5/6 10YR 5/4	NOT OBS	c. sand + gravel, 15% cobbles, granular.
0-8" 8"-30" 30"-120"	A ₁ B _w C ₁	fsl ls s	10YR 3/2 10YR 5/6 10YR 5/6	NOT OBS	c. sand + gravel, 15% cobbles

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: 132"
 Depth to Groundwater: Standing Water in the Hole: NOT Weeping from Pit Face: NOT
 Estimated Seasonal High Ground Water: 132"





FORM 12 - PERCOLATION TEST

Location Address or Lot No. LOT 21A - Wild Flower
West of #18

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date:	7/17/08	
Time:	9:00	
Observation Hole #	P ₁	P ₂
Depth of Perc	46"	44"
Start Pre-soak	9:15	9:45
End Pre-soak	9:30	10:00
Time at 12"	9:30	10:00
Time at 9"	9:31	10:01
Time at 6"	9:32	10:02
Time (9"-6")	22	22
Rate Min./Inch	22	22

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

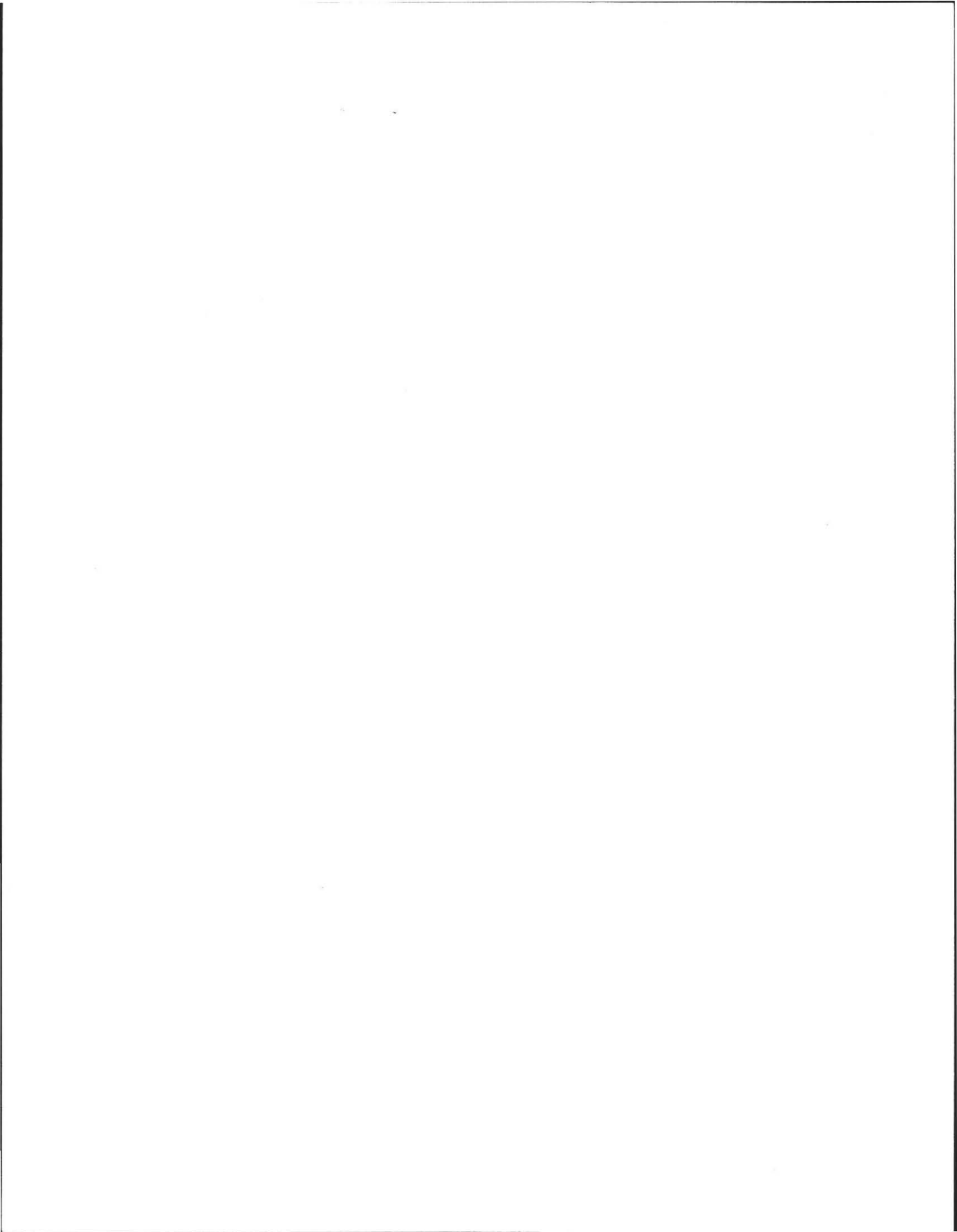
Site Passed Site Failed

Performed By: AWEISS

Witnessed By: E. BOKINA, DOH

Comments: _____





Location Address or Lot No. Lot 21-A, Wildflower Dr.
Upst of #18 Wildflower, New Lot.

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 132 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

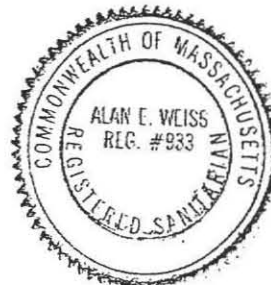
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

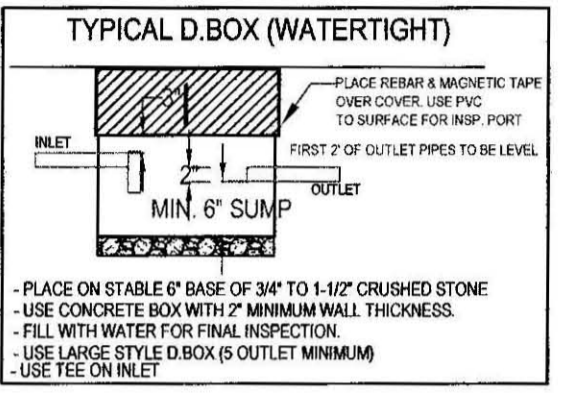
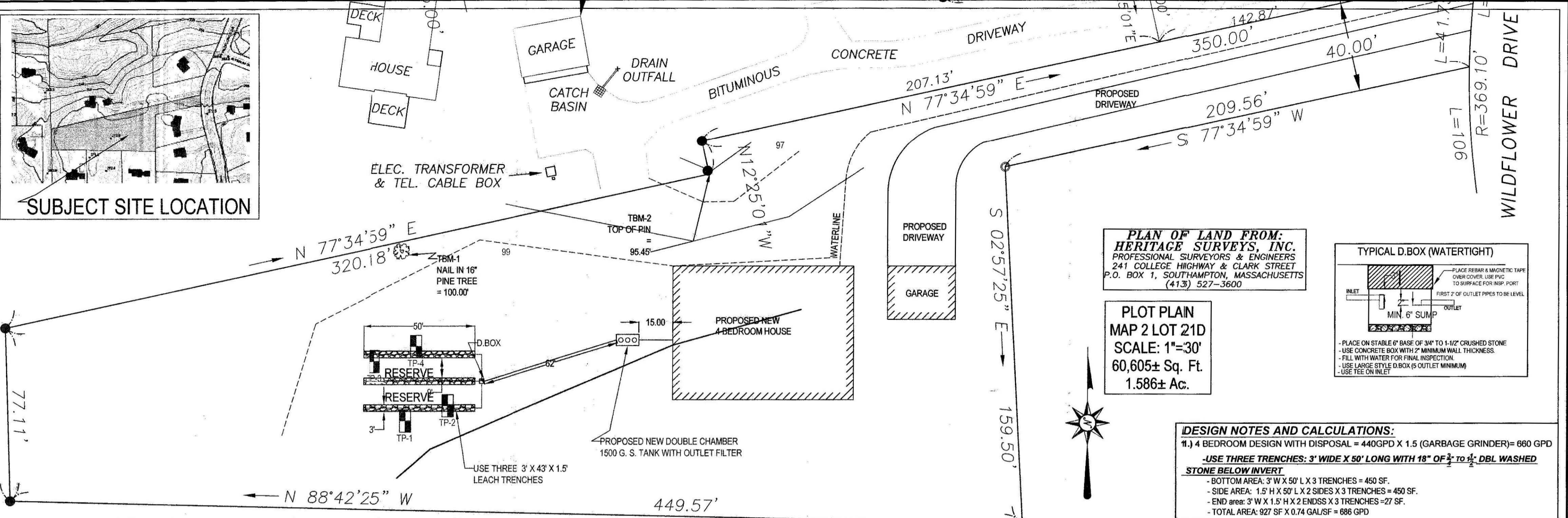
If not, what is the depth of naturally occurring pervious material? —

Certification

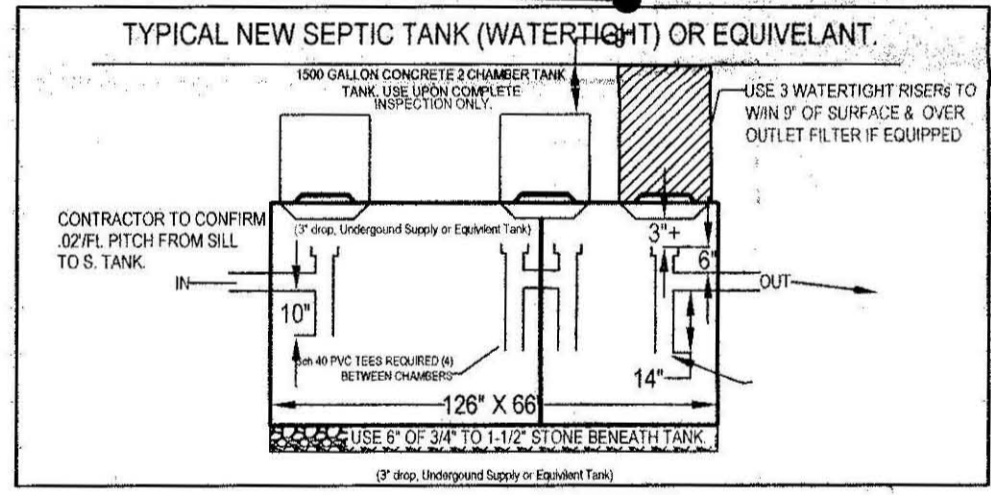
I certify that on 6/95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature [Signature] Date 7/17/08





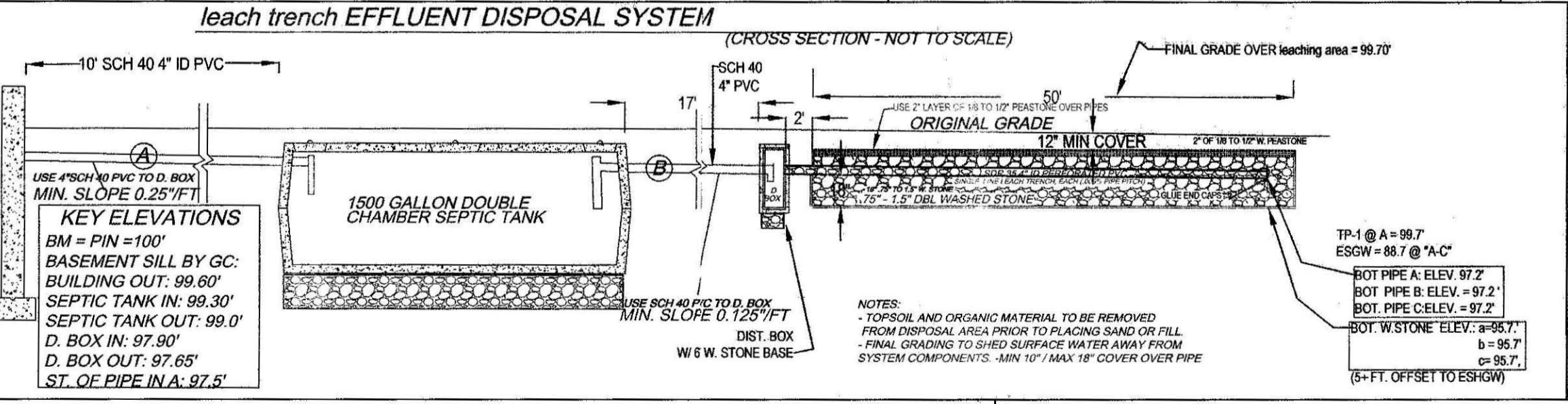
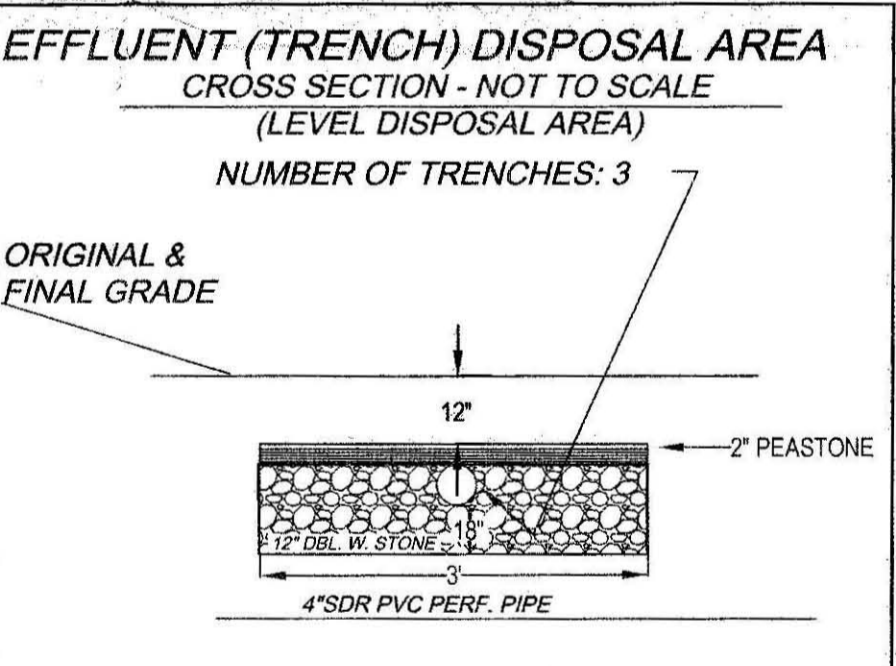
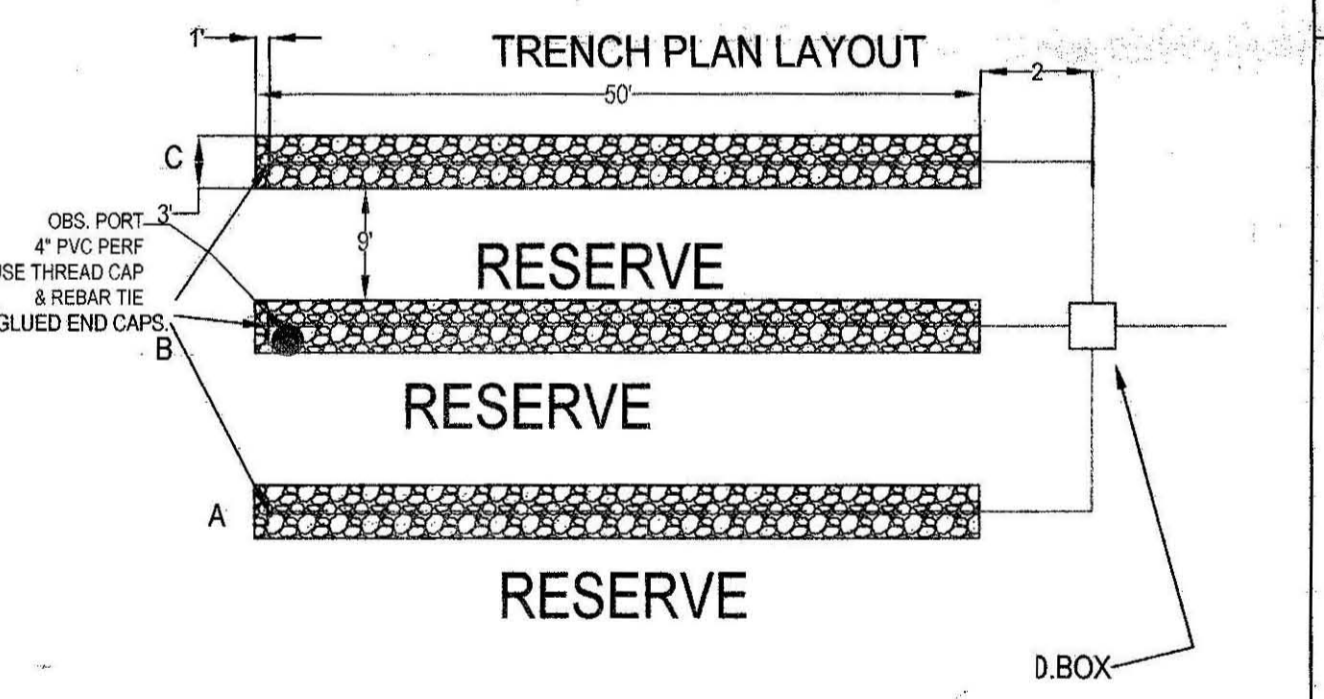
- DESIGN NOTES AND CALCULATIONS:**
- 4 BEDROOM DESIGN WITH DISPOSAL = 440GPD X 1.5 (GARBAGE GRINDER) = 660 GPD
 - USE THREE TRENCHES: 3' WIDE X 50' LONG WITH 18" OF 1/2" DBL WASHED STONE BELOW INVERT
 - BOTTOM AREA: 3' W X 50' L X 3 TRENCHES = 450 SF.
 - SIDE AREA: 1.5' H X 50' L X 2 SIDES X 3 TRENCHES = 450 SF.
 - END AREA: 3' W X 1.5' H X 2 ENDS X 3 TRENCHES = 27 SF.
 - TOTAL AREA: 927 SF X 0.74 GAL/SF = 686 GPD
 - GARBAGE DISPOSAL AS SHOWN ALLOWED
 - NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS (TOWN WATER).
 - NO OTHER WETLANDS WITHIN 150 FEET OF SAS (LOCATION BY OTHERS)
 - USE NEW 1,500 GAL DOUBLE CHAMBER S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
 - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET), INSTALL OUTLET FILTER AND OUTLET RISER
 - NOTE:**
 - SEPTIC TANKS AND PUMP CHAMBERS WITH RECEEDING COVERS ARE NOT ALLOWED. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS.
 - USE LARGE STYLE D.BOX ONLY.
 - ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'
 - NOTE:**
 - D. BOXES WITH COVERS AND WALLS LESS THAN 2" THICK ARE NOT ALLOWED PER DESIGN.
 - USE APPROVED (1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
 - CONFIRM STONE PROPERLY WASHED (WITH BUCKET / H2O TEST) PRIOR TO PLACEMENT.
 - USE PROPER SCH. 40 PVC TEES AS SHOWN.
 - PRE & POST CONTOURS NOTED AS NECESSARY. RESERVE AREA NOTED REQUIRED.
 - SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
 - USE TRENCHES DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240)
 - USE 2% MIN. SLOPE OVER SAS
 - CLEAR TOP AND SUB TO 40" MIN. AS NEEDED (INSPECTION REQUIRED).
 - CLEAR TO BASE OF B (MIN. 40") UNDER BED & SCARIFY PRIOR TO TITLE V SAND PLACEMENT (if needed).
 - EXCAVATE ANY LOAM, SUB OR EXISTING SYSTEMS AND REMOVE.
 - SOIL EVALUATION BY A WEISS, RS. 07/17/08 (E. BOKINA, BOH AGENT).
 - DEPTH OF PERCS. 46" & 44"
 - PERC RATE = <2 MIN / IN
 - CLASS I SOIL RATING (COARSE SAND)
 - NO TREES WITHIN 10 FT. OF NEW LEACH FIELD. USE TITLE V FILL 5' OUT.
 - ENGINEER TO INSPECT SUBGRADE, ENGINEER AND TOWN TO INSPECT AT FINAL.
 - BM=PIN 100.00 @ AS NOTED. CONFIRM PROPER PIPE SLOPES
 - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
 - GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.



- 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 ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
 - USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
 - CLEAN TANK OUTLET FILTER ANNUALLY IF PRESENT

TEST PIT LOG:

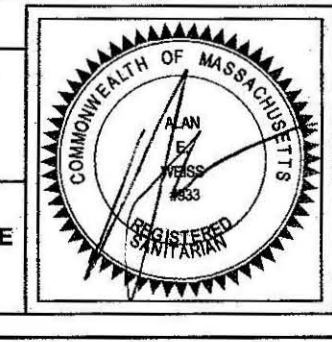
SOIL EVALUATOR: ALAN WEISS				DATE OF EVALUATION: 7/17/08															
TP-1 EFF. ELEV: 99.70'				TP-2 EFF. ELEV:				TP-3 EFF. ELEV:				TP-4 EFF. ELEV:							
DEPTH	HORIZ	TEXTURE	MOISTURE	MATERIAL	DEPTH	HORIZ	TEXTURE	MOISTURE	MATERIAL	DEPTH	HORIZ	TEXTURE	MOISTURE	MATERIAL	DEPTH	HORIZ	TEXTURE	MOISTURE	MATERIAL
0-10	A	FSL	(10 YR 3/3)	FRABLE	0-10	A	FSL	(10 YR 3/3)	FRABLE	0-10	A	FSL	(10 YR 3/3)	FRABLE	0-8	A	FSL	(10 YR 3/3)	FRABLE
10-28	Bw	LS	(10 YR 5/6)	FRABLE, GRANULAR, FS	10-30	Bw	LS	(10 YR 5/6)	FRABLE, GRANULAR, FS	10-28	Bw	LS	(10 YR 5/6)	FRABLE, GRANULAR, FS	8-30	Bw	LS	(10 YR 5/6)	FRABLE, GRANULAR, FS
28-132	C1	SAND	(10 YR 5/4)	C SAND, WELL SORTED	30-120	C1	SAND	(10 YR 5/4)	C SAND, WELL SORTED	28-132	C1	SAND	(10 YR 5/4)	C SAND, WELL SORTED	30-120	C1	SAND	(10 YR 5/4)	C SAND, WELL SORTED
				GRANULAR, 15% COBBLES					GRANULAR, 15% COBBLES					GRANULAR, 15% COBBLES					GRANULAR, 15% COBBLES
OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED							
EHW: 132" = 88.70'				EHW: 120" = 80.00'				EHW: 132" = 88.00'				EHW: 120" = 80.00'							
STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED							
WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED							
BEDROCK: 132" = 88.70'				BEDROCK: 120" = 80.00'				BEDROCK: 132" = 88.00'				BEDROCK: 120" = 80.00'							



NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO INSPECTIONS. 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.

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.



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

P.J.F.D. NO.: (413) 323-5957
 FAX: (413) 323-4916
 e-MAIL: ACWES@charter.net

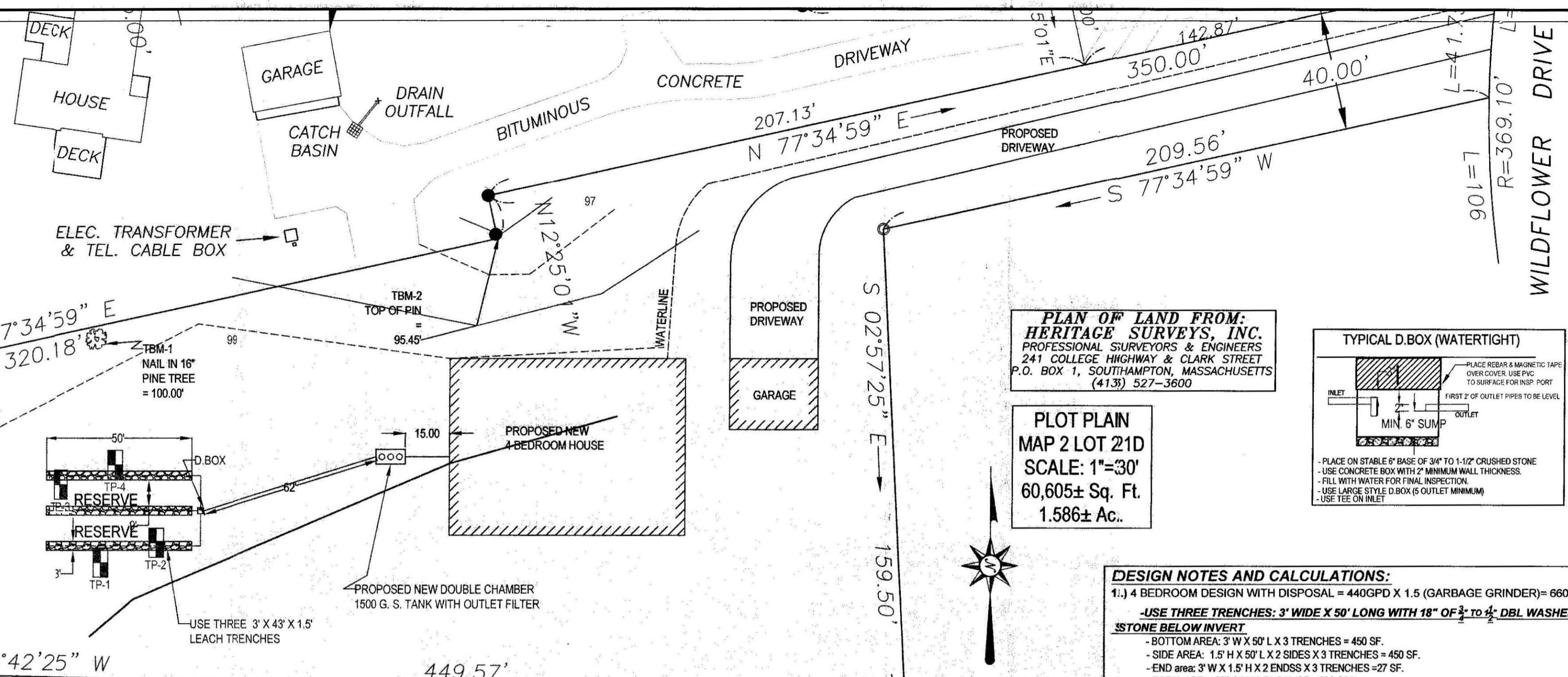
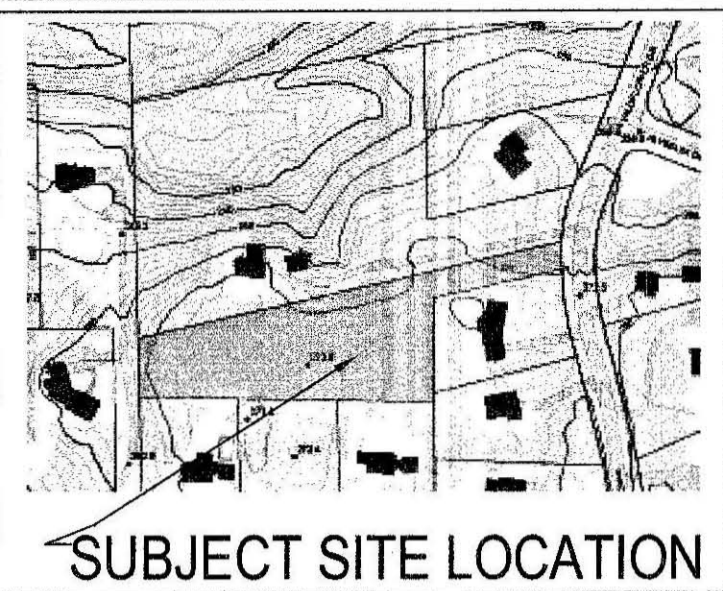
SEPTIC SYSTEM DESIGN PLAN FOR INTEGRITY BUILDERS
 MAP 2 LOT 21D 167 WILDFLOWER DRIVE
 AMHERST, MA.

DATE: 7/25/08
 SCALE: 1"=30'

DESIGNED BY: AEW
 INSPECTED BY: AEW

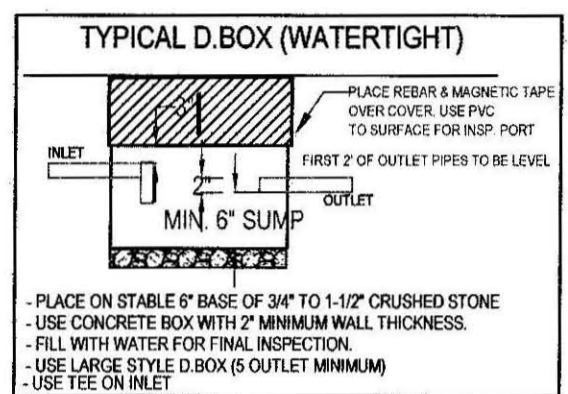
DRAWN BY: ARS
 DRAWING NUMBER: 108-3012-0717

Handwritten signature and date: 11-05-08

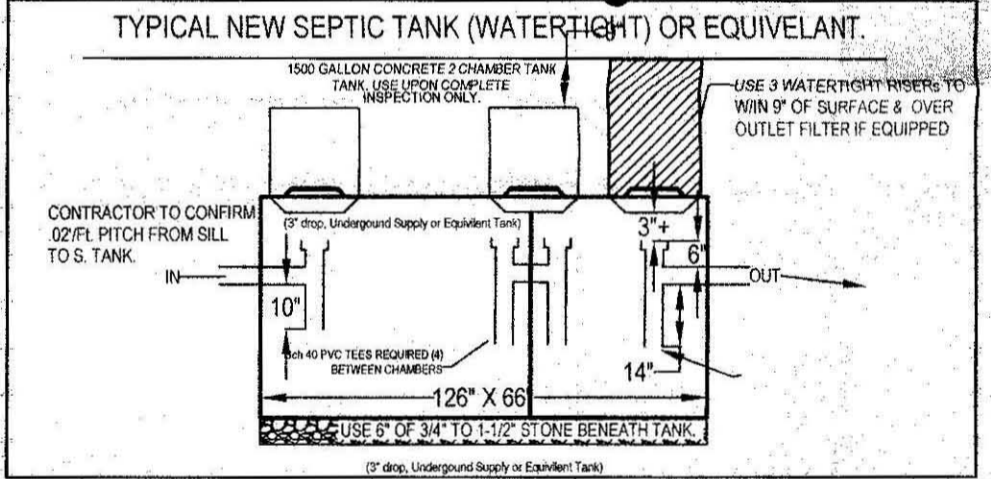
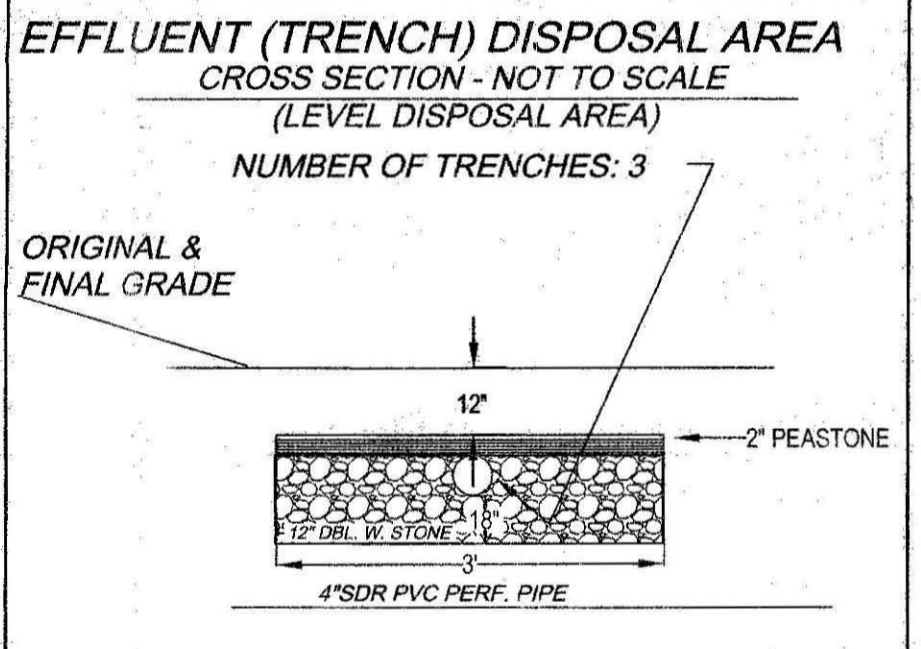
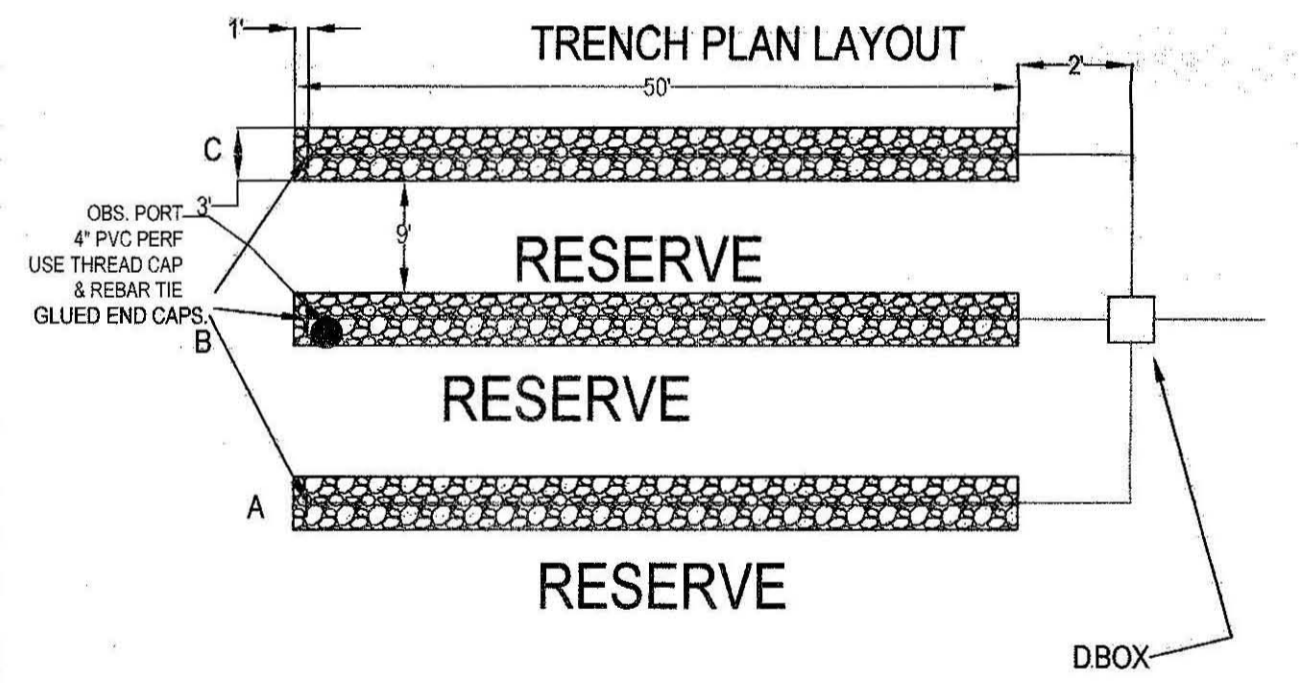


PLAN OF LAND FROM:
HERITAGE SURVEYS, INC.
 PROFESSIONAL SURVEYORS & ENGINEERS
 241 COLLEGE HIGHWAY & CLARK STREET
 P.O. BOX 1, SOUTHAMPTON, MASSACHUSETTS
 (413) 527-3600

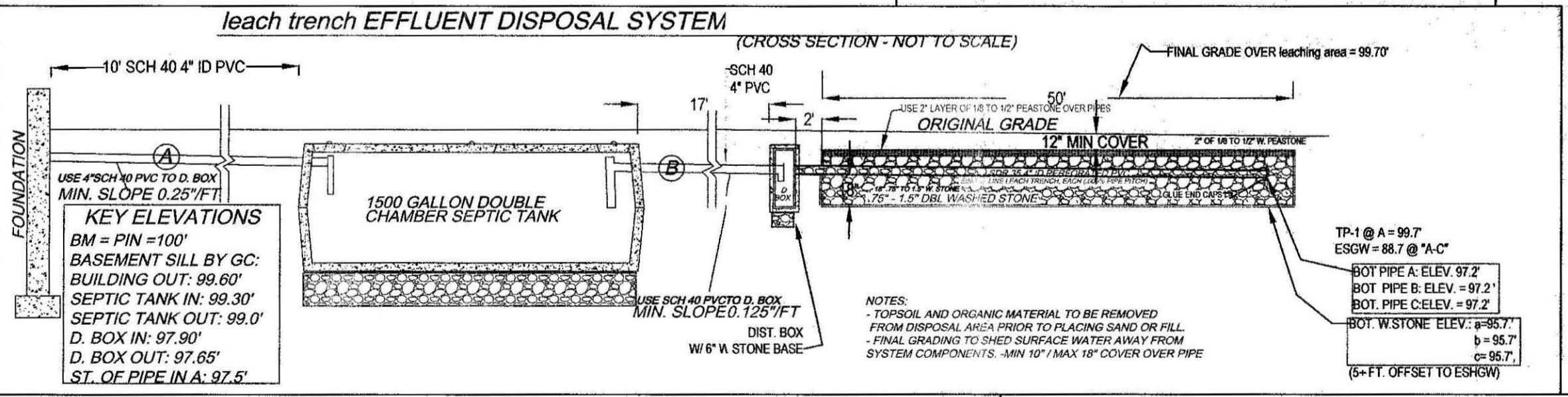
PLOT PLAN
MAP 2 LOT 21D
SCALE: 1"=30'
60,605± Sq. Ft.
1.586± Ac..



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 - USE NEW 1,500 GAL. DOUBLE CHAMBER S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
 -INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET), INSTALL OUTLE FILTER AND OUTLET RISER
NOTE:
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 - MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
 - DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
 - USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
 - CLEAN TANK OUTLET FILTER ANNUALLY IF PRESENT

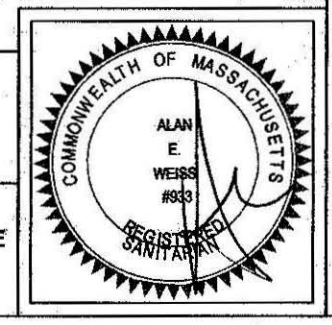


TEST PIT LOG:

TP-1 EFF. ELEV. 99.70'				TP-2 EFF. ELEV. 99.70'				TP-3 EFF. ELEV. 99.70'				TP-4 EFF. ELEV. 99.70'							
DEPTH	HORIZ	TEXTURE	MOISTURE	MATERIAL	DEPTH	HORIZ	TEXTURE	MOISTURE	MATERIAL	DEPTH	HORIZ	TEXTURE	MOISTURE	MATERIAL	DEPTH	HORIZ	TEXTURE	MOISTURE	MATERIAL
0-10	A	FSL	(10 YR 3/3)	FRIABLE	0-10	A	FSL	(10 YR 3/3)	FRIABLE	0-10	A	FSL	(10 YR 3/3)	FRIABLE	0-8	A	FSL	(10 YR 3/3)	FRIABLE
10-28	Bw	LS	(10 YR 5/6)	FRIABLE, GRANULAR, FS	10-30	Bw	LS	(10 YR 5/6)	FRIABLE, GRANULAR, FS	10-28	Bw	LS	(10 YR 5/6)	FRIABLE, GRANULAR, FS	8-30	Bw	LS	(10 YR 5/6)	FRIABLE, GRANULAR, FS
28-132	C1	SAND	(10 YR 5/4)	C SAND, WELL SORTED	30-120	C1	SAND	(10 YR 5/4)	C SAND, WELL SORTED	28-132	C1	SAND	(10 YR 5/4)	C SAND, WELL SORTED	30-120	C1	SAND	(10 YR 5/4)	C SAND, WELL SORTED
				GRANULAR, 15% COBBLES					GRANULAR, 15% COBBLES					GRANULAR, 15% COBBLES					GRANULAR, 15% COBBLES
OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED							
EHWT: 132+ = 88.70'				EHWT: 120+ = 88.70'				EHWT: 132+ = 88.70'				EHWT: 120+ = 88.70'							
STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED							
WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED							
BEDROCK: 132+ = 88.70'				BEDROCK: 120+ = 88.70'				BEDROCK: 132+ = 88.70'				BEDROCK: 120+ = 88.70'							

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/BD OF HEALTH 48 HOURS PRIOR TO INSPECTIONS. 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.



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

PJFD No. (413) 323-5957
 Fax: (413) 323-4916
 e-mail: PJFD@charter.net

SEPTIC SYSTEM DESIGN PLAN FOR INTEGRITY BUILDERS
 MAP 2 LOT 21D 16? WILDFLOWER DRIVE
 AMHERST, MA.

DATE: 7/25/08
 SCALE: 1"=30'

DESIGNED BY: AEW
 INSPECTED BY: AEW

DRAWN BY: ARS
 DRAWING NUMBER: 108-3012-0717

Plan: 16 Wild Flower Dr. Designed by: Alan Weiss

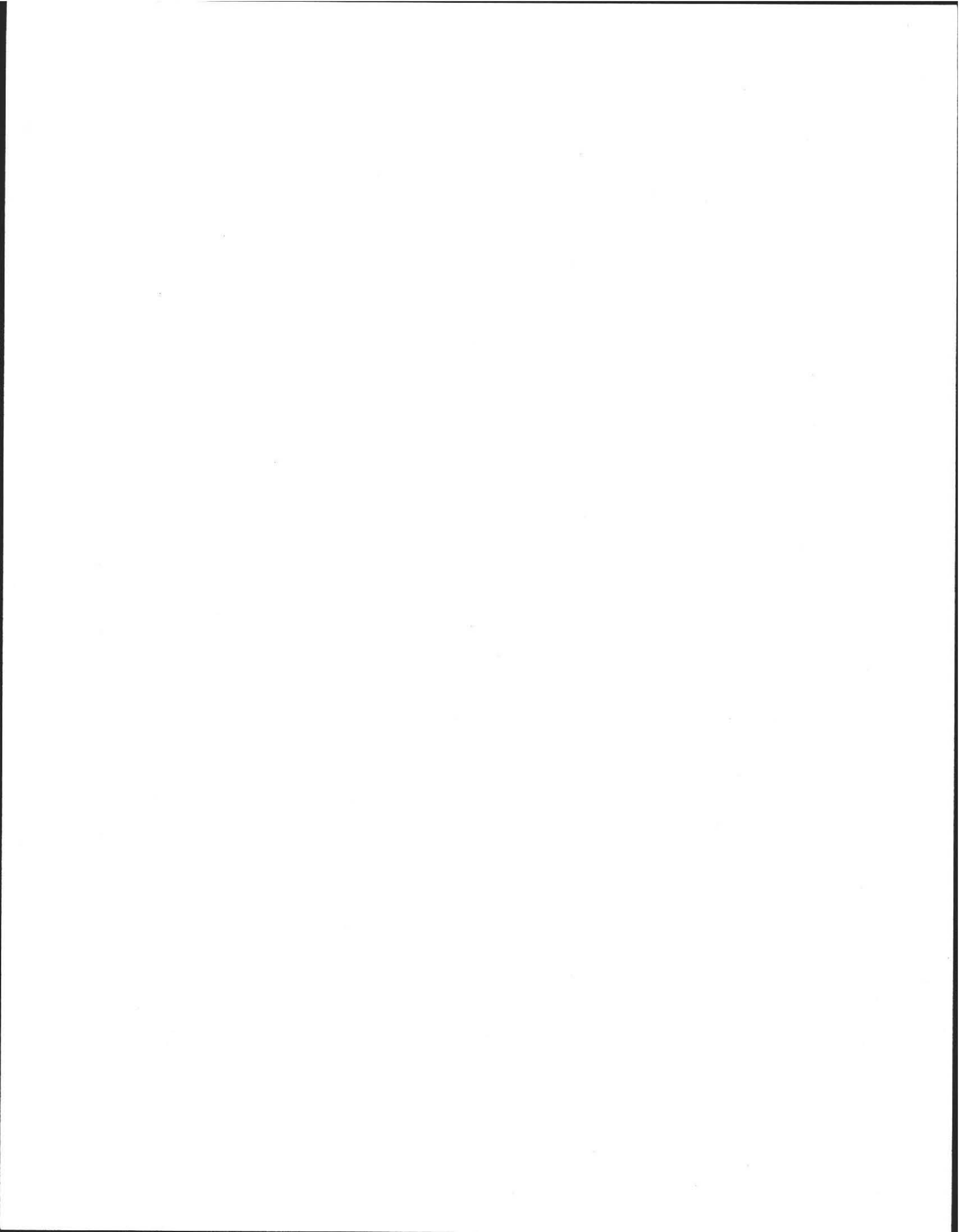
CHECK LIST FOR SEPTIC PLANS

- Application page attached to plan
- PE or RS stamp, date, signature
- Variances to property line setback distances must have Surveyor Stamp 15270 (3)
- Legal boundaries noted
- Easements noted
- Dwellings and buildings existing or proposed noted
- Location of driveway or parking areas, other impervious areas
- Location and dimensions of reserve area (new) CMR 15.248(1), 15.104(4)
- System design calculations
- Garbage grinder Y or N
- Benchmark not disturbed during construction, within 75 feet of facility CMR 15.220 (4)(q)
- North arrow CMR 15.200 (4) (g)
- Contours
- Deep hole location and data
- Perc hole location and data
- Elevations
- Names of approving authority and soil evaluator CMR 15.211 p. 49
- Location of every water supply, public and private CMR 15.220(k):
 - Within 400 feet of system in case of surface water and gravel packed public water supply
 - Within 250 feet of system in case of tubular public water supply
 - Within 150 feet of private supply wells 100' septic sys.; 50' tank
- Well statement if applicable**
- Location of any surface waters, rivers, vegetated wetlands
- Location of water lines and other subsurface utilities
- Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n)
- Profile of system
- Locus plan to show location of facility, including nearest street
- Materials of construction and specs for system
- Gas Baffle 15.227.4
- Pipe in center line of tank 310 CMR 15.227, 15.06(8)
- Double washed stone
- Schedule 40 PVC for trafficked areas, house to tank
- Distances noted from house to tank, etc.
- If dosing is proposed, design and specs of dosing system
- When alternative technology is required, complete plan and specs, including hydraulic profile
- Trenches preferred over beds CMR 15.240 (6)
- Buoyancy calculations for tanks or components partly below H2O table 15.221(8) p. 56
- 3 to 1 slope outside of mound, toe ending 5 feet from property line
- Local upgrade requests on the plan
- Local upgrade forms attached to application
- Note on plan listing all variances sought in conjunction with the plan

NOTES:

Risers 6" of surface on tanks.

Typo 12" of over dist. pipes should be changed
to 18" of double washed stone.Renewed
to
Alan
will be
on
As-built
11-10-08



INTEGRITY

DEVELOPMENT & CONSTRUCTION, INC.
110 PULPIT HILL ROAD, AMHERST, MA 01002

PHONE # (413) 549-7919

FAX # (413) 549-7918

Transmittal

To: Amherst Board of Health

From: Kyle Wilson

Fax:

Date: Sept. 26, 2008

Phone:

Pages: 3 Copies of Application

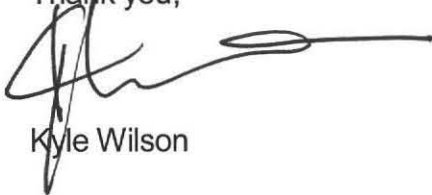
Re: Chu Residence – New Home

Loc: Wildflower Drive, Amherst

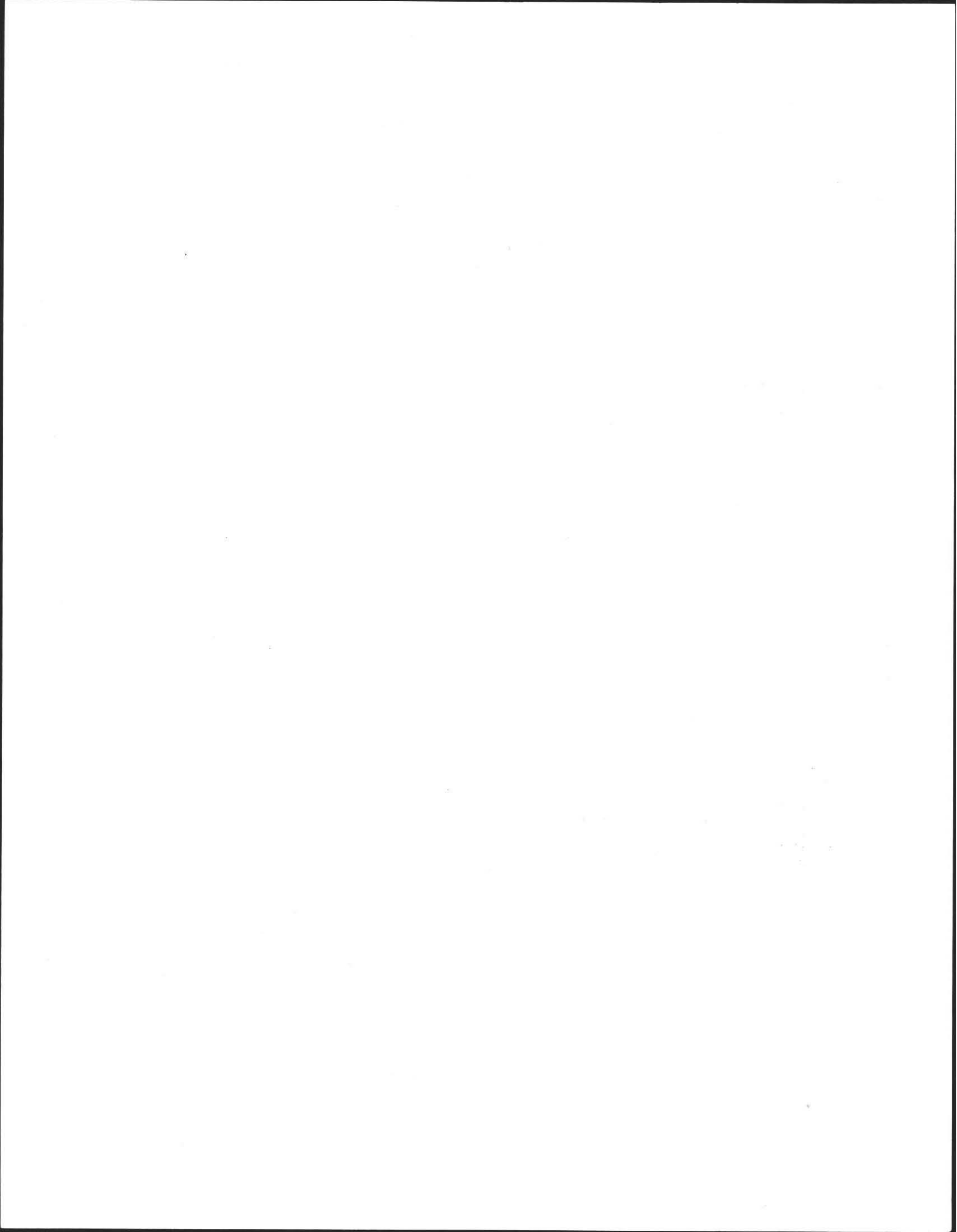
Attached please find (3) copies of an application for a disposal system construction permit for a new home. The new home is proposed for a new lot that has been subdivided from the property at 18 Wildflower Drive.

Please contact our office with any questions.

Thank you,



Kyle Wilson





- Property Map**
- Property Lines
 - Property Line
 - Hydrographic Property Lin
 - Right of Way Line
 - Town Boundary
 - Historic Property Lines
 - Former Property Line
 - Subdivision Lot Line
 - Easements
- Basemap**
- Trails
 - Rail Lines
 - Structures
 - Building
 - Foundation
 - Miscellaneous
 - Pier / Dock
 - Water Tank
 - Sketched Structure
 - Rivers and Streams
 - Streams
 - Headwalls, Floodwalls
 - Hydro Connector
 - Major Culverts
 - Major Drainage Ditches
 - Transportation
 - Pavement
 - Unpaved Road
 - Tree Cover

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet

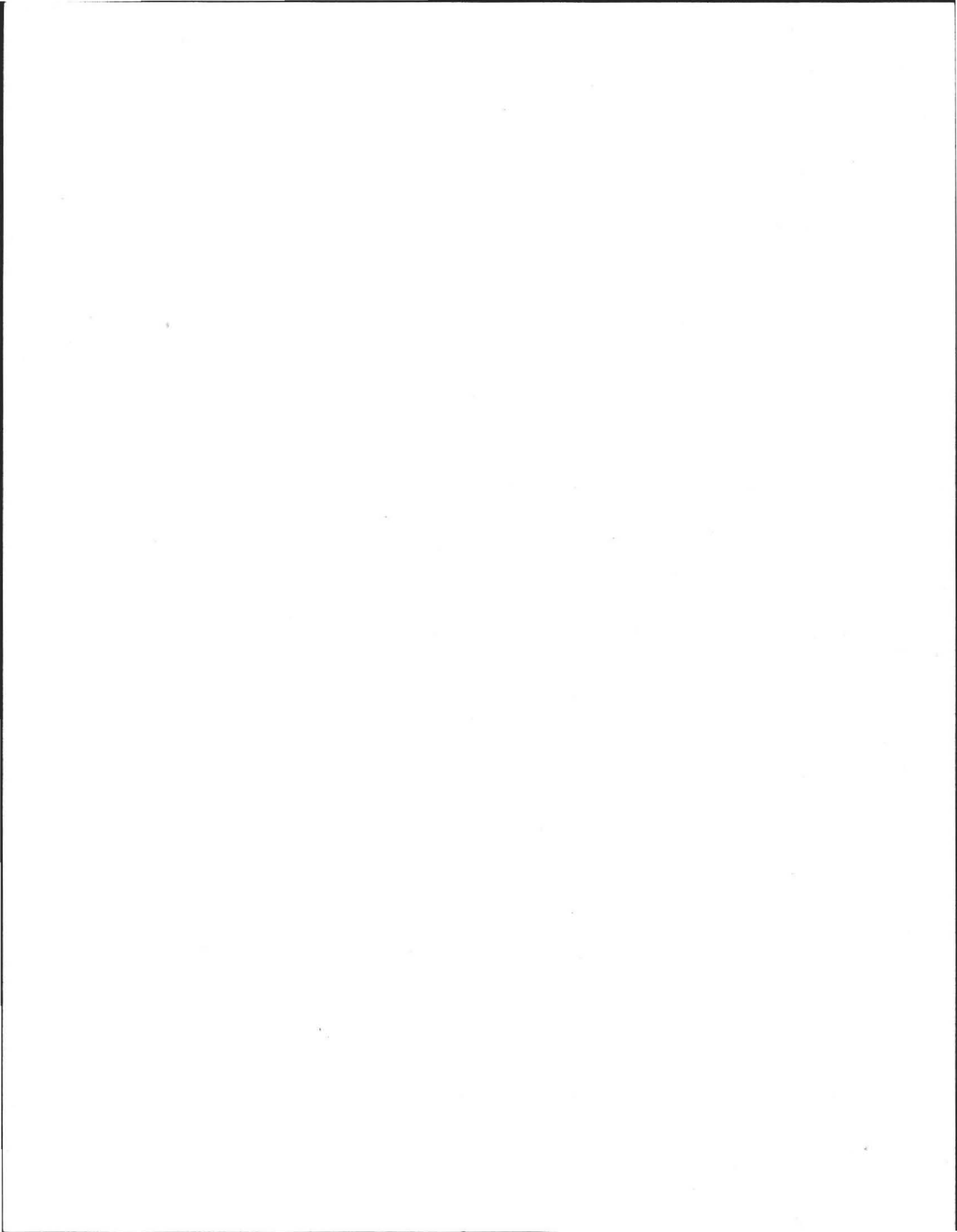
Planimetric basemap features compiled at 1"=40' and 1"=100' scale from April, 1999 Aerial Photography. Aerial Photography: April, 2004. Parcels compiled through a "best-fit" methodology to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures and underground utility locations are approximate and require field verification.

THE TOWN OF AMHERST MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE TOWN OF AMHERST DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.

1" = 100 ft





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

522-0933 1/0 Kyle Wilson, Integrity Blowing

Location <u>Lot 2 Wildflower Dr</u>	Owner's Name <u>Kent Chu.</u>
Map/Parcel# <u>#210/2</u>	Address <u>94 Rambling Rd. Amherst, 01002</u>
Lot# <u>2</u>	Telephone# <u>1/0 Kyle Wilson 522-0933</u>
Installer's Name <u>Karis Excavating</u>	Designer's Name <u>Alan Weiss R.S.</u>
Address <u>Hadley</u>	Address <u>Belchertown</u>
Telephone# <u>542-5396</u>	Telephone# <u>413.323.5957</u>

Type of Building Residence Lot Size 60,605± sq. ft.

Dwelling - No. of Bedrooms 4 Bedrooms Garbage grinder

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

Other Fixtures Garbage Grinder

Design Flow (min. required) 110 gpd Calculated design flow 660 Design flow provided 686 gpd

Plan: Date 7/25/08 Number of sheets _____ Revision Date _____

Title Septic System Design Plan

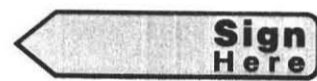
Description of Soil(s) Class I (C-Sand)

Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 7/17/08

DESCRIPTION OF REPAIRS OR ALTERATIONS Install New Septic System

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 [Signature] Date 9.24.2008



Inspections _____

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.

COMMONWEALTH OF MASSACHUSETTS

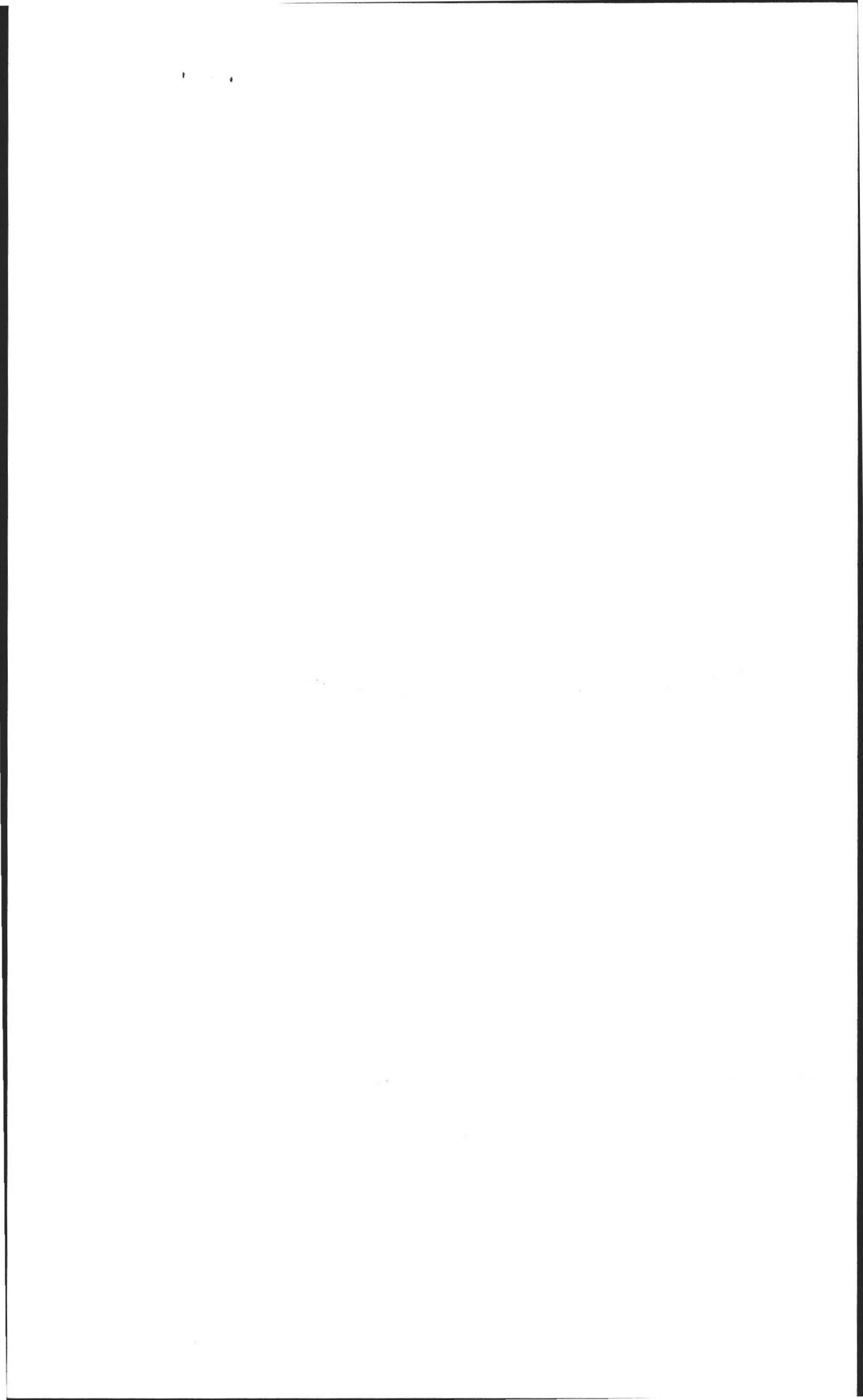
Board of Health, _____, MA.

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: 7-17-08

Commonwealth of Massachusetts

Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Date: 7/17/08

Witnessed By:

Ellen Bokina, Amh. Both.
c/o Kyle Wilson, Integrity

Location Address or Lot # <u>LOT 2 Wildflower 1.58 AC.</u> <u>West of #18, <u>New Lot.</u></u>	Owner's Name, Address, and Telephone # <u>MR. Shaw</u> <u>18 Wildflower Dr.</u> <u>Amherst, MA</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)

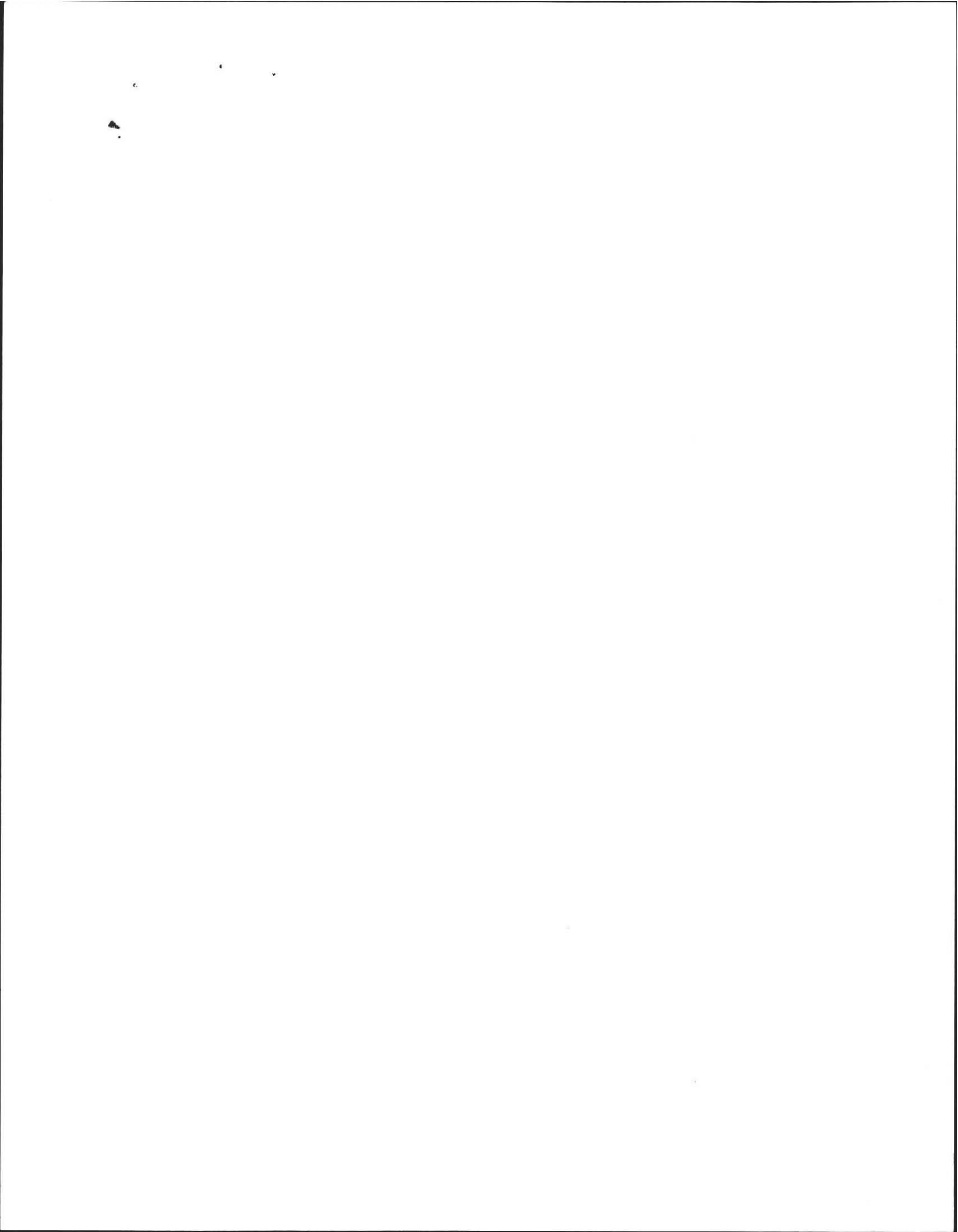
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range :Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. Lot 21A, Wild Flower Dr ⁽¹⁸⁾ New Lot to west

On-site Review

Deep Hole Number 1-4 Date: 7/17/08 Time: 9:00 Weather Sun 80°

Location (identify on site plan) _____

Land Use Wooded Slope (%) 1 Surface Stones Not

Vegetation Mixed - Redwood + Pine

Landform Terrace

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 30'± feet

Drinking Water Well 7-10 feet Other _____
>150' area

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-10" 10"-28" 28"-132"	A B ₀ C ₁	fsl LS S	10YR 3/3 10YR 5/6 10YR 5/4	NOT OBS	Friable friable, granular, f. sand. Coarse sand, well sorted, granular 15% cobbles
0-10" 10"-30" 30"-120"	A B ₀ C ₁	fsl LS S	10YR 3/3 10YR 5/6 10YR 5/4	NOT OBS	Friable friable, loose. c. sand + gravel, 15% cobbles, granular.
0-10" 10"-28" 28"-132"	A B ₀ C ₁	fsl LS S	10YR 3/2 10YR 5/6 10YR 5/4	NOT OBS	c. sand + gravel, 15% cobbles, granular.
0-8" 8"-30" 30"-120"	A ₁ B ₀ C ₁	fsl LS S	10YR 3/2 10YR 5/6 10YR 5/6	NOT OBS	c. sand + gravel, 15% cobbles

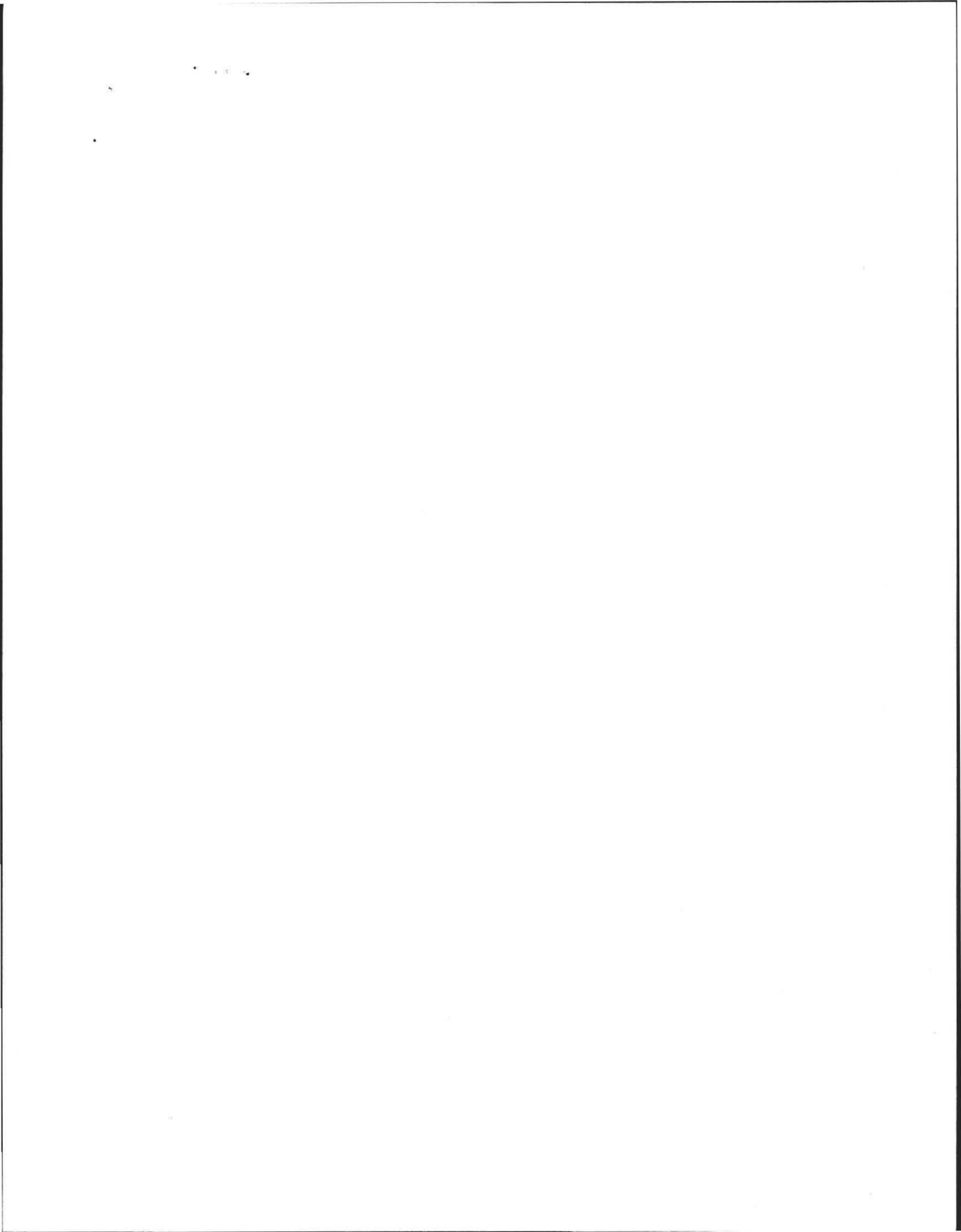
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: 132"±

Depth to Groundwater: Standing Water in the Hole: NOT Weeping from Pit Face: 140"

Estimated Seasonal High Ground Water: 132"±





FORM 12 - PERCOLATION TEST

Location Address or Lot No. LOT 21A - Wild Flower
West of #18

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date:	<u>7/17/08</u>	Time: <u>9:00</u>
Observation Hole #	<u>P₁</u>	<u>P₂</u>
Depth of Perc	<u>46"</u>	<u>44"</u>
Start Pre-soak	<u>9:15</u>	<u>9:45</u>
End Pre-soak	<u>9:30</u> (COULD)	<u>10:00</u>
Time at 12"	<u>9:30</u> NOT	<u>10:00</u>
Time at 9"	<u>9:31</u> HOLD	<u>10:01</u>
Time at 6"	<u>9:32</u> SOAK	<u>10:02</u>
Time (9"-6")	<u>L2</u>	<u>L2</u>
Rate Min./Inch	<u>L2</u>	<u>L2</u>

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

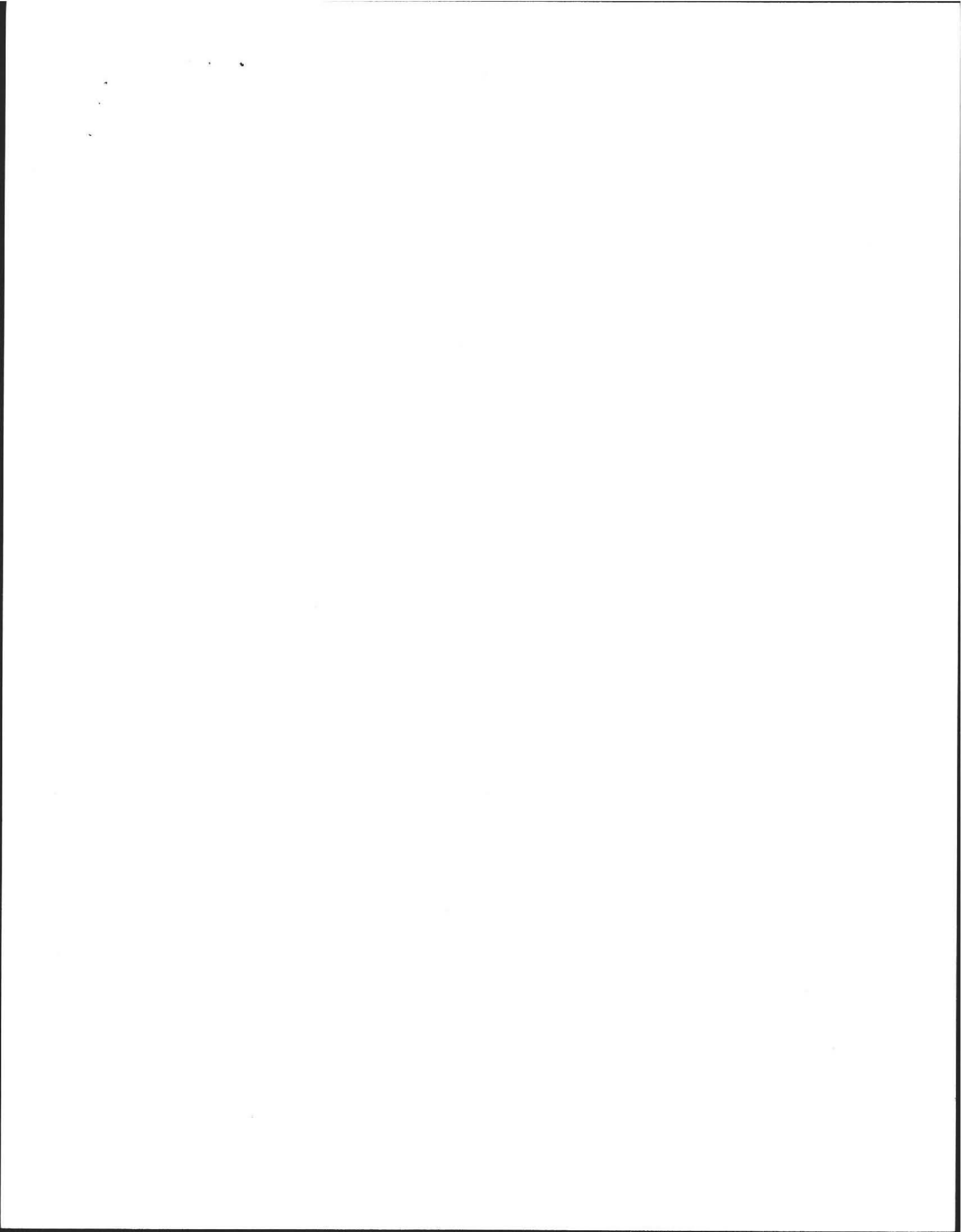
Site Passed Site Failed

Performed By: AWEISS

Witnessed By: E. BOKING, DCH

Comments: _____





Location Address or Lot No. Lot 21-A, Wildflower Dr.
Upst of #18 Wildflower, New Lot.

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 132 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

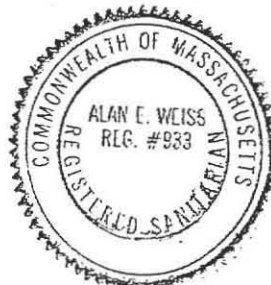
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

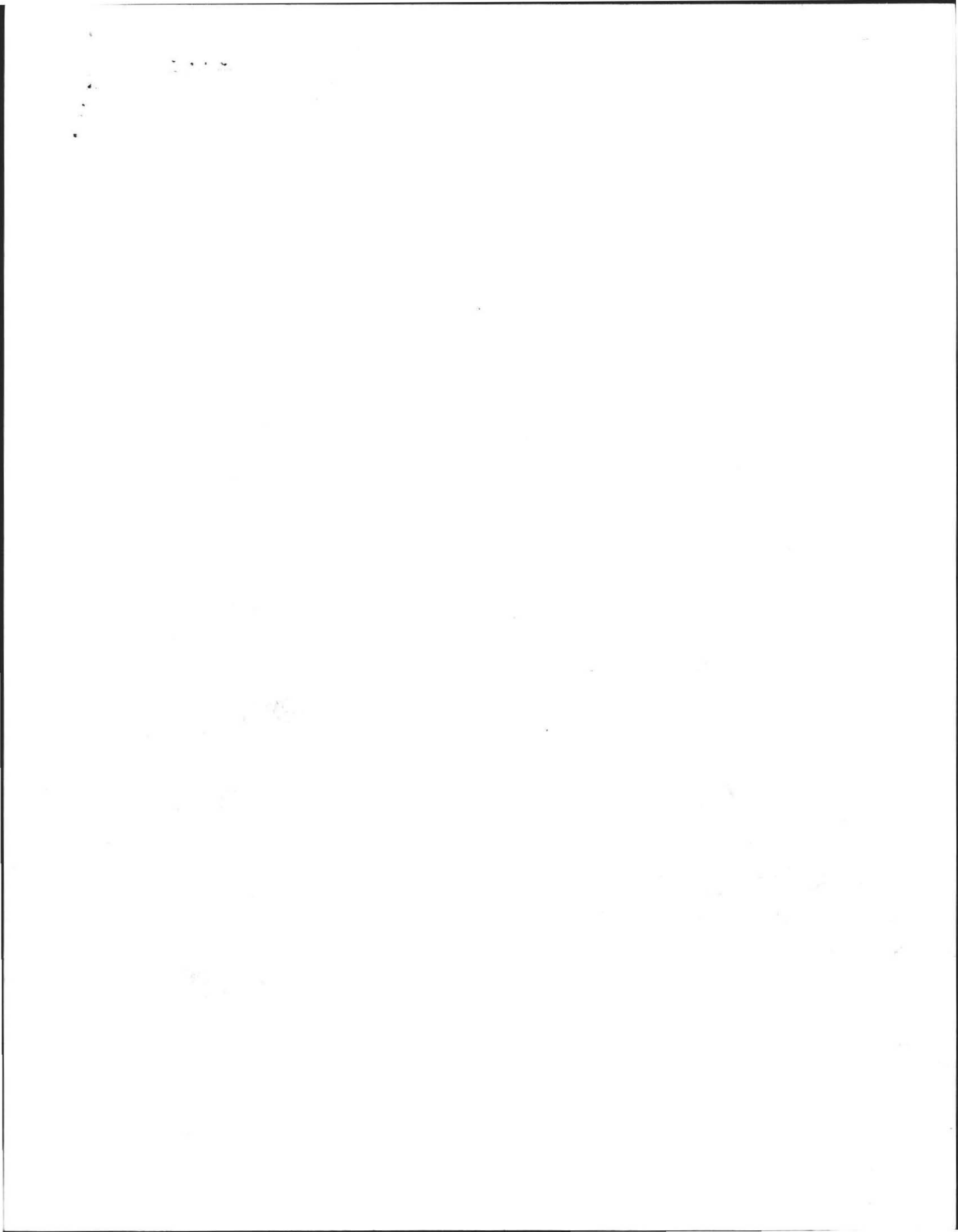
If not, what is the depth of naturally occurring pervious material? —

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 Al Date 7/17/08





No. _____

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

522-0933 1/0 Kyle Wilson, Integrity Blowing

Location <u>Lot 2 Wildflower Dr</u>	Owner's Name <u>Kent Chu.</u>
Map/Parcel# <u>#21D/2</u>	Address <u>94 Rambling Rd. Amherst, 01002</u>
Lot# <u>2</u>	Telephone# <u>1/0 Kyle Wilson 522-0933</u>
Installer's Name <u>Karis Excavating</u>	Designer's Name <u>Alan Weiss RS.</u>
Address <u>Hadley</u>	Address <u>Belchertown</u>
Telephone# <u>542-5396</u>	Telephone# <u>413.323.5957</u>

Type of Building Residence Lot Size 60,605± sq. ft.

Dwelling - No. of Bedrooms 4 Bedrooms Garbage grinder

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

Other Fixtures Garbage Grinder

Design Flow (min. required) 110 gpd Calculated design flow 660 Design flow provided 686 gpd

Plan: Date 7/25/08 Number of sheets _____ Revision Date _____

Title Septic System Design Plan

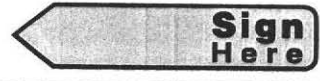
Description of Soil(s) Class I (C-Sand)

Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 7/17/08

DESCRIPTION OF REPAIRS OR ALTERATIONS Install New Septic System

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 [Signature] Date 7-24-2008



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.

Form 1255 Rev. 5/96 A.M. Sulkin Co. Boston, MA Date _____ Board of Health _____





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: 7-17-08

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Date: 7/17/08

Witnessed By:

Ellen Bokken Amh. Booth
c/o Kyle Wilson, Integrity

Location Address or Lot # <u>LOT 2 Wildflower 1.58 AC.</u> <u>West of #18, <u>New Lot.</u></u>	Owner's Name, Address, and Telephone # <u>MR. Shaw</u> <u>18 Wildflower Dr.</u> <u>Amherst, MA</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)

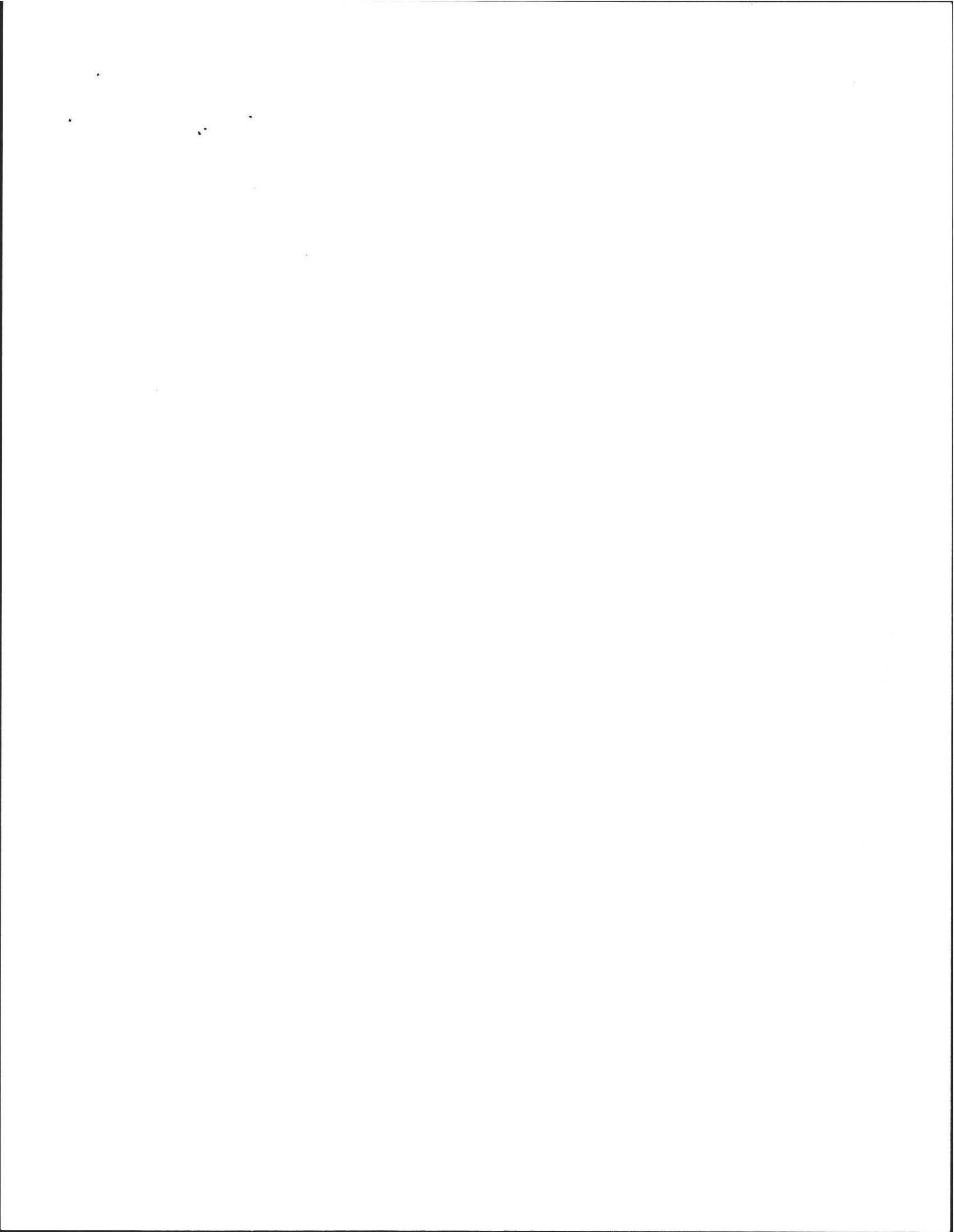
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range : Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. Lot 21A, Wild Flower Dr ⁽¹⁸⁾ New Lot to west

On-site Review

Deep Hole Number 1-4 Date: 7/17/08 Time: 9:00 Weather Sun 80°

Location (identify on site plan) _____

Land Use Wooded Slope (%) 1 Surface Stones Not

Vegetation Mixed - Redwoods + Pine

Landform Terrace

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 30' feet

Drinking Water Well T&W feet Other _____
>150' over

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-10"	A	fsl	10YR 3/3		Fr. cble
10"-28"	B ₀	LS	10YR 5/6	NOT OBS	fr. cble, granular, f. sand.
28"-132"	C ₁	S	10YR 5/4		Coarse sand, well sorted, granular 15% cobbles
0-10"	A	fsl	10YR 3/3		Fr. cble
10"-30"	B ₀	LS	10YR 5/6	NOT OBS	Fr. cble, Loos.
30"-120"	C ₁	S	10YR 5/4		c. sand + gravel, 15% cobbles, granular.
0-10"	A	fsl	10YR 3/2		
10"-28"	B ₀	LS	10YR 5/6	NOT OBS	
28"-132"	C ₁	S	10YR 5/4		c. sand + gravel, 15% cobbles, granular.
0-8"	A ₁	fsl	10YR 3/2		
8"-30"	B ₀	LS	10YR 5/6	NOT OBS	
30"-120"	C ₁	S	10YR 5/6		c. sand. + gravel, 15% cobbles

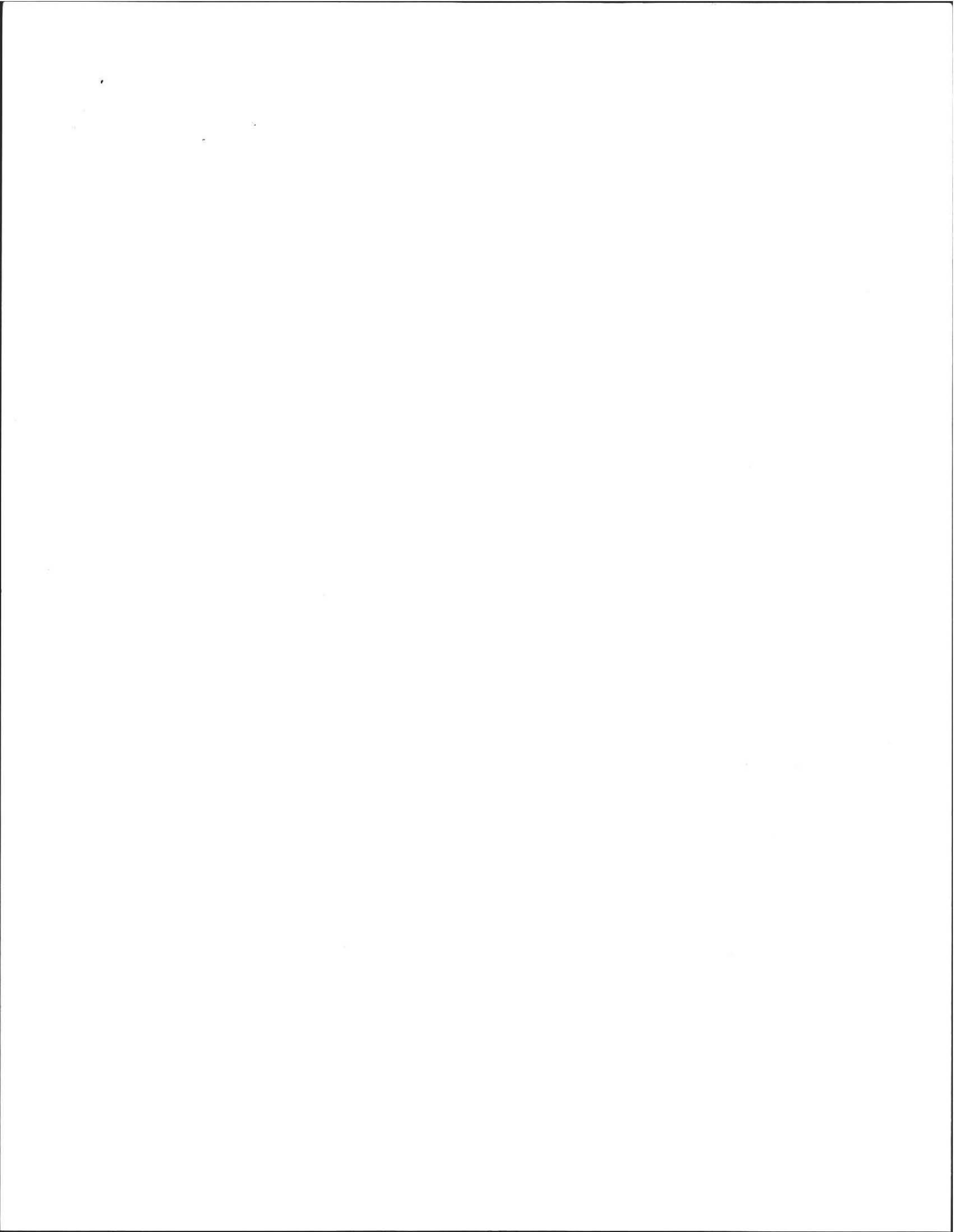
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) DUT wash Depth to Bedrock: 132"

Depth to Groundwater: Standing Water in the Hole: NOT Weeping from Pit Face: NOT

Estimated Seasonal High Ground Water: 132"





Location Address or Lot No. LOT 21A - Wild Flower
West of #18

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date:	7/17/08	
Time:	9:00	
Observation Hole #	P ₁	P ₂
Depth of Perc	46"	44"
Start Pre-soak	9:15	9:45
End Pre-soak	9:30	10:00
Time at 12"	9:30	10:00
Time at 9"	9:31	10:01
Time at 6"	9:32	10:02
Time (9"-6")	22	22
Rate Min./Inch	22	22

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

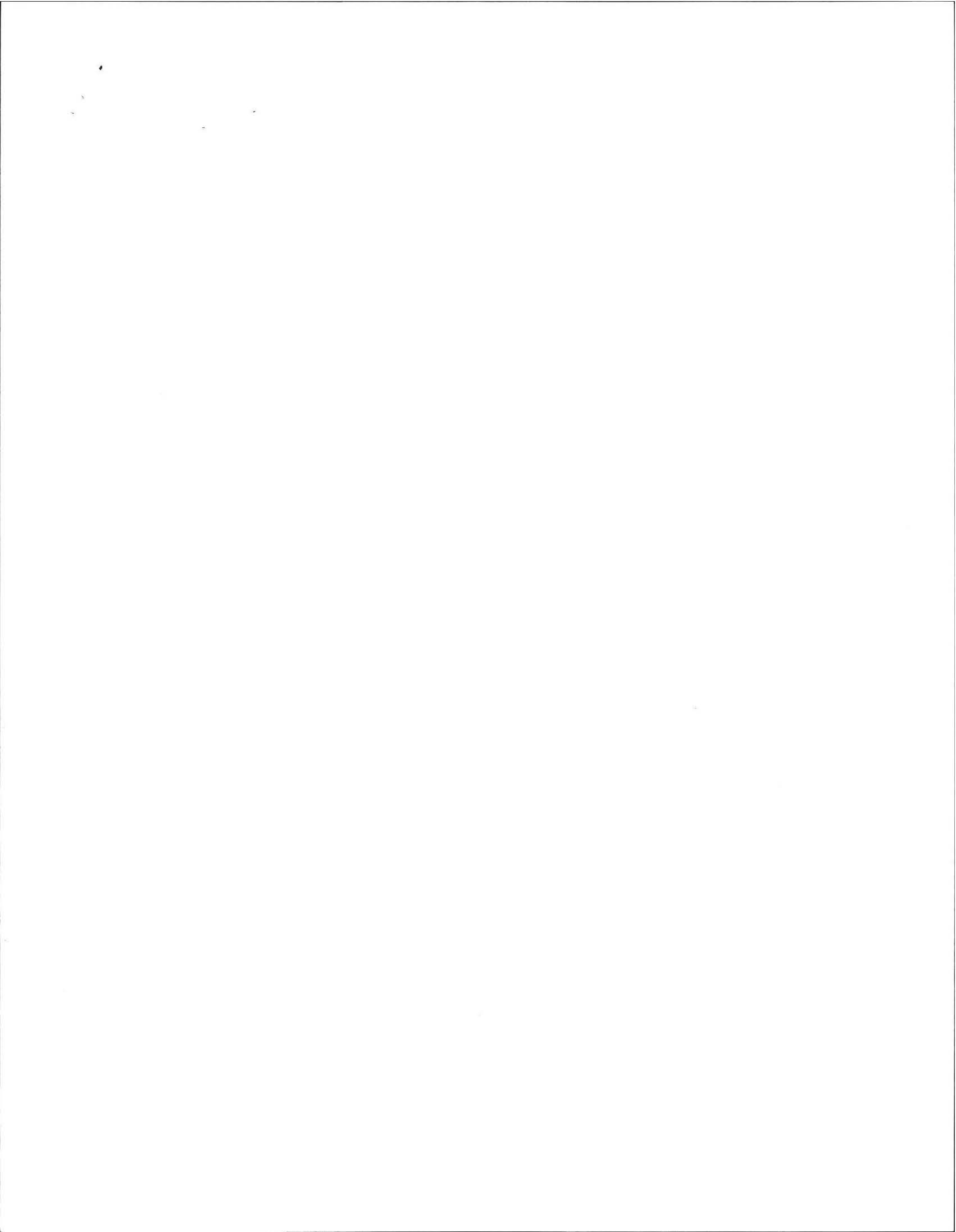
Site Passed Site Failed

Performed By: AWESS

Witnessed By: E. BOKINA, DOK

Comments: _____





Location Address or Lot No. LOT 21-A, Wildflower Dr.
Upst of #18 Wildflower, New Lot.

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 132" ± 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

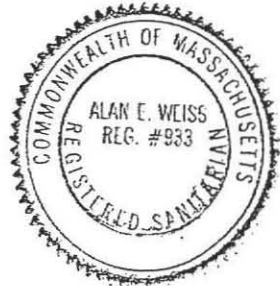
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

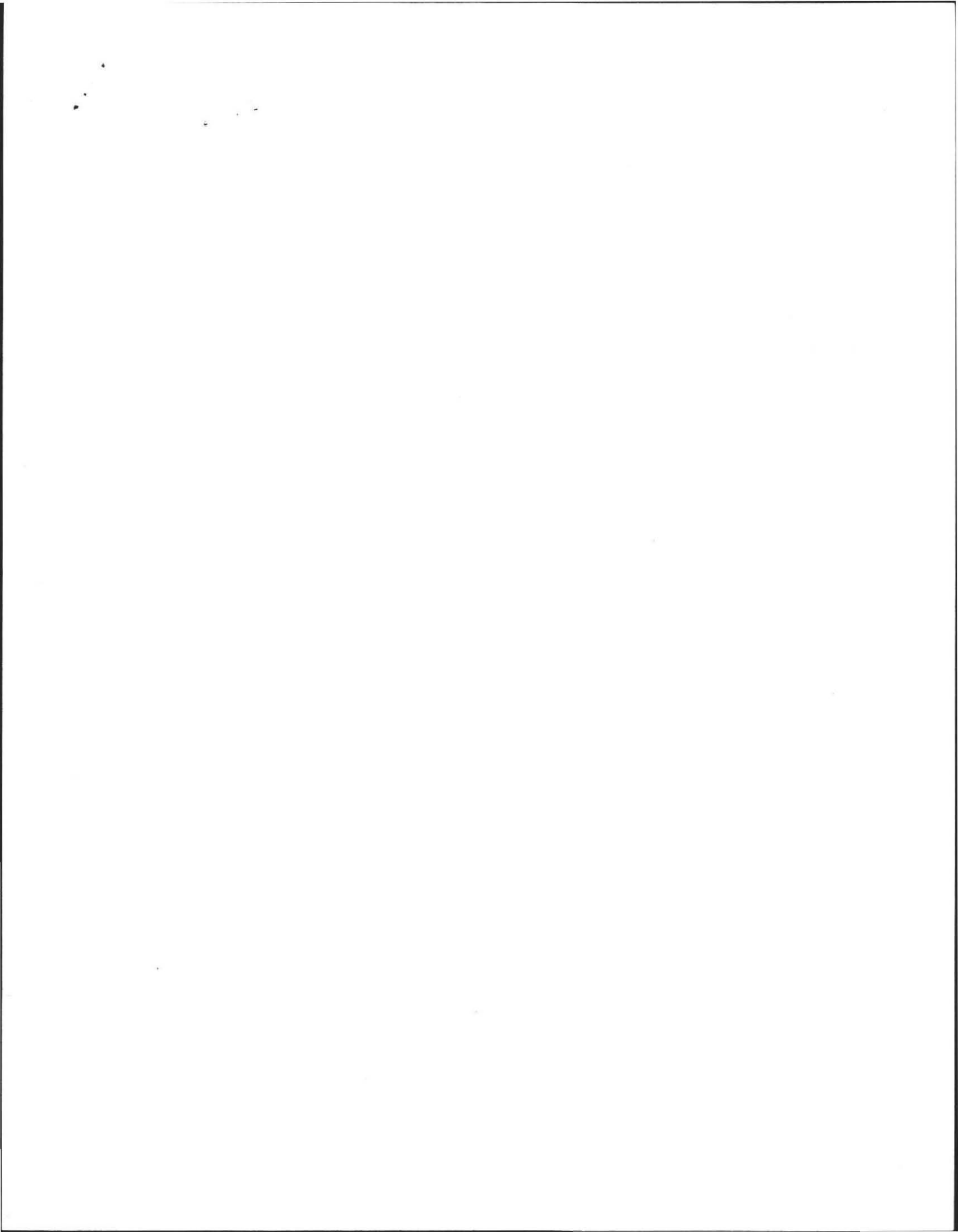
If not, what is the depth of naturally occurring pervious material? —

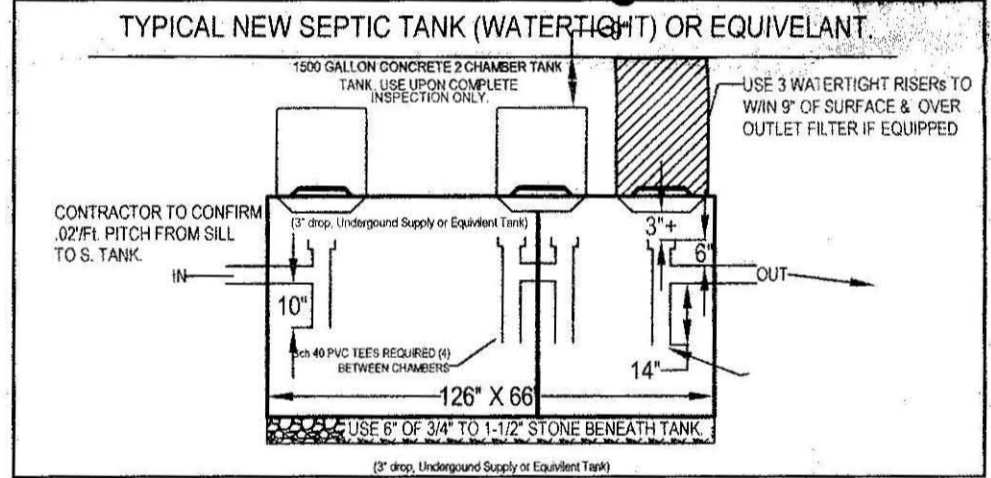
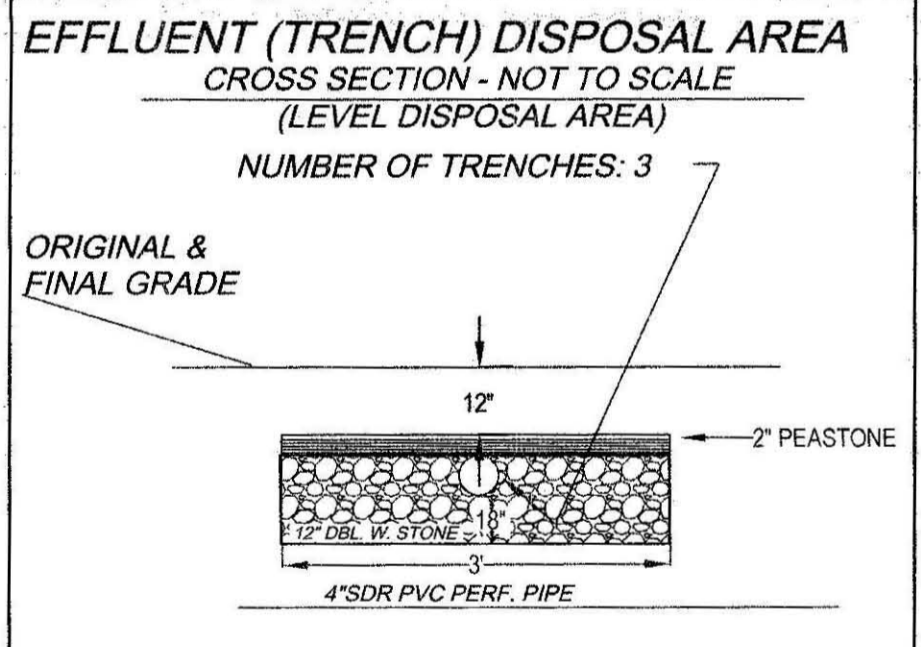
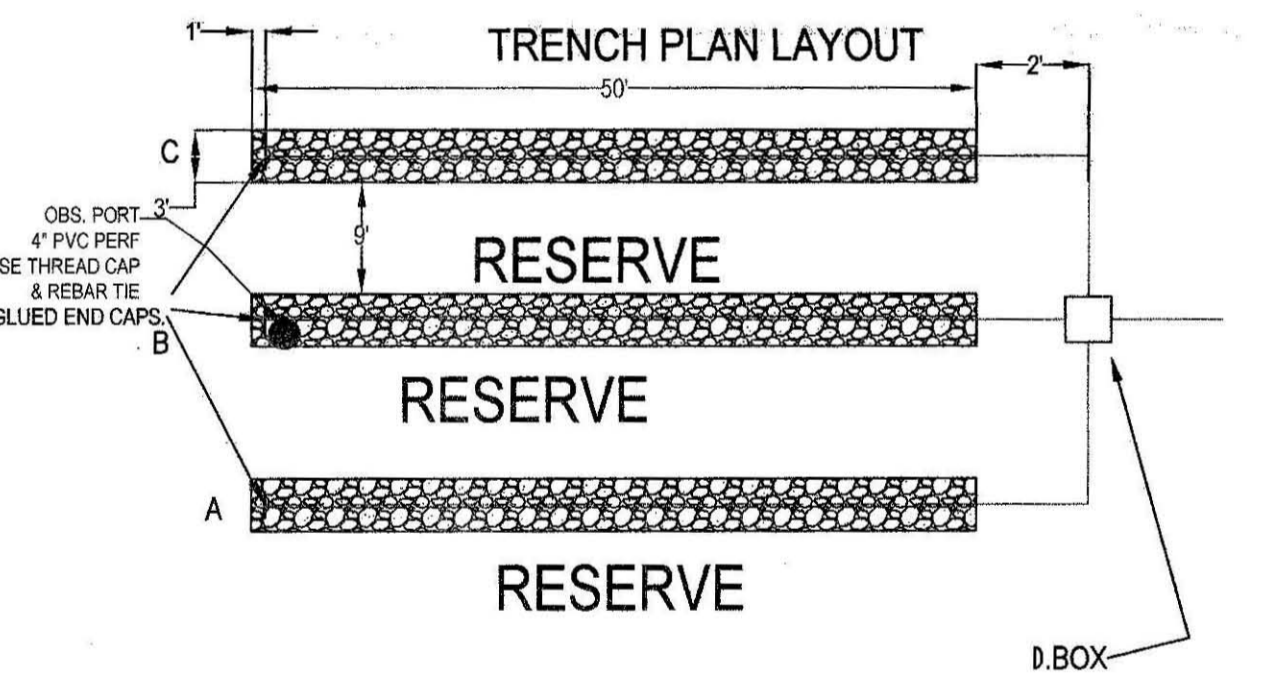
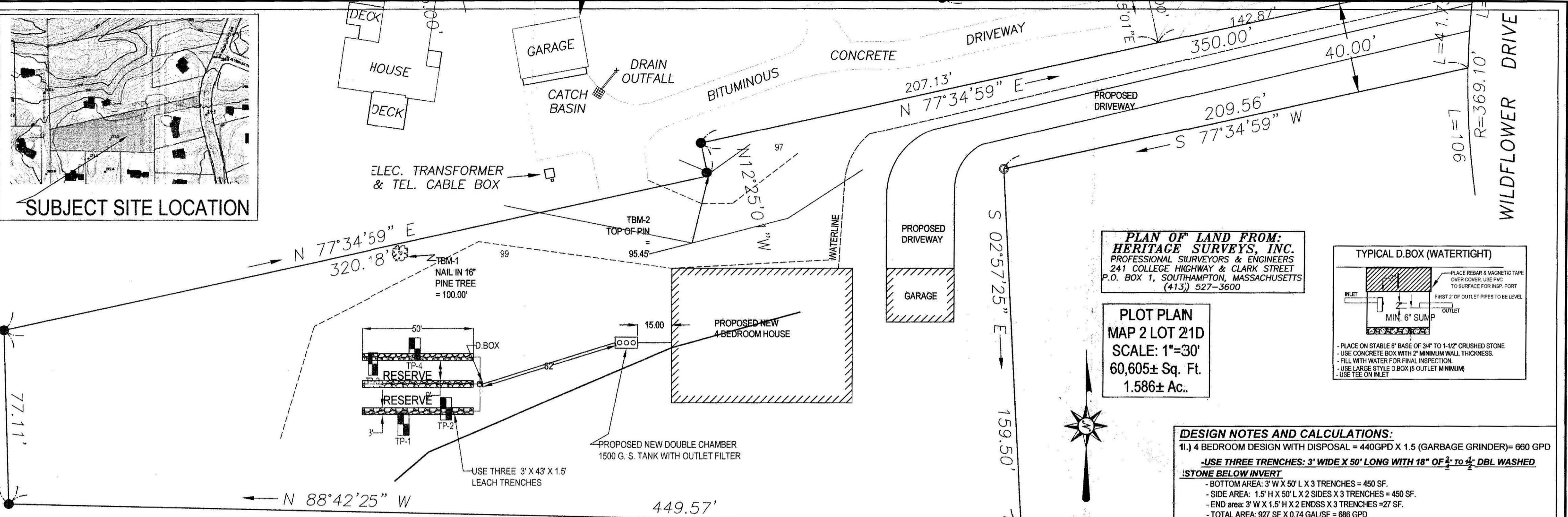
Certification

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 *Al* Date 7/17/08

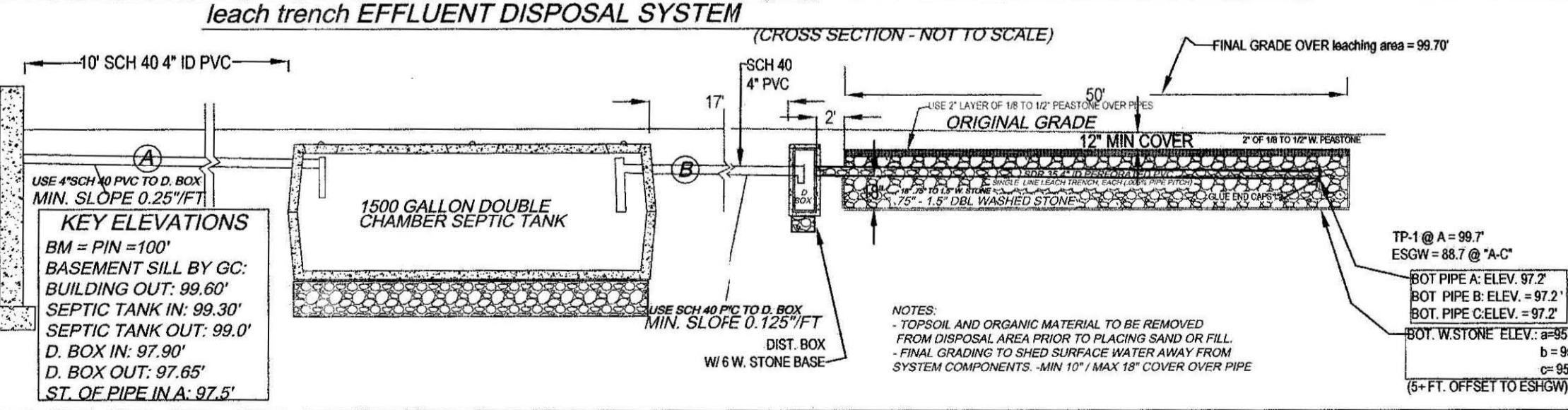






GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.

- 1.) HAVE TANK PUMPED EVERY 2 YEARS.
- 2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
- 3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
- 4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
- 5.) CLEAN TANK OUTLET FILTER ANNUALLY IF PRESENT



TEST PIT LOG:				SOIL EVALUATOR: ALAN WEISS				DATE OF EVALUATION: 7/17/08							
TP-1 EFF. ELEV.: 99.70'				TP-2 EFF. ELEV.:				TP-3 EFF. ELEV.:				TP-4 EFF. ELEV.:			
DEPTH	HORIZ.	TEXTURE	REMARKS	DEPTH	HORIZ.	TEXTURE	REMARKS	DEPTH	HORIZ.	TEXTURE	REMARKS	DEPTH	HORIZ.	TEXTURE	REMARKS
0-10	A	FSL	(10 YR 3/3) FRIABLE	0-10	A	FSL	(10 YR 3/3) FRIABLE	0-10	A	FSL	(10 YR 3/3) FRIABLE	0-8	A	FSL	(10 YR 3/3) FRIABLE
10-28	Bw	LS	(10 YR 5/5) FRIABLE, GRANULAR, FS	10-30	Bw	LS	(10 YR 5/5) FRIABLE, GRANULAR, FS	10-28	Bw	LS	(10 YR 5/5) FRIABLE, GRANULAR, FS	8-30	Bw	LS	(10 YR 5/5) FRIABLE, GRANULAR, FS
28-132	C1	SAND	(10 YR 5/4) C SAND, WELL SORTED	30-120	C1	SAND	(10 YR 5/4) C SAND, WELL SORTED	28-132	C1	SAND	(10 YR 5/4) C SAND, WELL SORTED	30-120	C1	SAND	(10 YR 5/4) C SAND, WELL SORTED
			GRANULAR, 15% COBBLES				GRANULAR, 15% COBBLES				GRANULAR, 15% COBBLES				GRANULAR, 15% COBBLES
OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED				OXIDES: NOT OBSERVED			
EHWT: 132°± = 88.70'				EHWT: 120°±				EHWT: 132°±				EHWT: 120°±			
STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED			
WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED			
BEDROCK: 132°±				BEDROCK: 120°±				BEDROCK: 132°±				BEDROCK: 120°±			

PLAN OF LAND FROM: HERITAGE SURVEYS, INC.
 PROFESSIONAL SURVEYORS & ENGINEERS
 241 COLLEGE HIGHWAY & CLARK STREET
 P.O. BOX 1, SOUTHAMPTON, MASSACHUSETTS
 (413) 527-3600

PLOT PLAN MAP 2 LOT 21D
 SCALE: 1"=30'
 60,605± Sq. Ft.
 1.586± Ac.

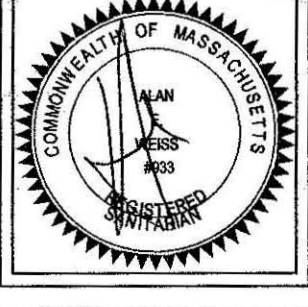
TYPICAL D. BOX (WATERTIGHT)

- PLACE REBAR & MAGNETIC TAPE OVER COVER. USE PVC TO SURFACE FOR INSP. PORT
- FIRST 2' OF OUTLET PIPES TO BE LEVEL.
- PLACE ON STABLE 6" BASE OF 3/4" TO 1-1/2" CRUSHED STONE
- USE CONCRETE BOX WITH 2" MINIMUM WALL THICKNESS.
- FILL WITH WATER FOR FINAL INSPECTION.
- USE LARGE STYLE D. BOX (5 OUTLET MINIMUM)
- USE TEE ON INLET

- DESIGN NOTES AND CALCULATIONS:**
- 1.) 4 BEDROOM DESIGN WITH DISPOSAL = 440GPD X 1.5 (GARBAGE GRINDER)= 660 GPD
 -USE THREE TRENCHES: 3' WIDE X 50' LONG WITH 18" OF 1/2" TO 1/4" DBL WASHED STONE BELOW INVERT
 - BOTTOM AREA: 3' W X 50' L X 3 TRENCHES = 450 SF.
 - SIDE AREA: 1.5' H X 50' L X 2 SIDES X 3 TRENCHES = 450 SF.
 - END AREA: 3' W X 1.5' H X 2 ENDS X 3 TRENCHES = 27 SF.
 - TOTAL AREA: 927 SF X 0.74 GAL/SF = 686 GPD
 3. GARBAGE DISPOSAL AS SHOWN ALLOWED
 4. NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS (TOWN WATER).
 5. NO OTHER WETLANDS WITHIN 150 FEET OF SAS (LOCATION BY OTHERS)
 6. USE NEW 1,500 GAL DOUBLE CHAMBER S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
 - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET), INSTALL OUTLE FILTER AND OUTLET RISER
 NOTE:
 - SEPTIC TANKS AND PUMP CHAMBERS WITH RECEEDING COVERS ARE NOT ALLOWED. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS.
 7. USE LARGE STYLE D. BOX ONLY.
 7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'
 NOTE:
 - D. BOXES WITH COVERS AND WALLS LESS THAN 2" THICK ARE NOT ALLOWED PER DESIGN.
 8. USE APPROVED (1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
 - CONFIRM STONE PROPERLY WASHED (WITH BUCKET / H2O TEST) PRIOR TO PLACEMENT.
 9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
 10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AREA NOTED REQUIRED.
 11. SLOPE CALCS (SEE CONTOURS), SUBGRADE INSP. REQ'D.
 13. USE TRENCHES DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240)
 14. USE 2% MIN. SLOPE OVER SAS
 - CLEAR TOP AND SUB TO 40" MIN. AS NEEDED (INSPECTION REQUIRED).
 - CLEAR TO BASE OF B (MIN. 40") UNDER BED & SCARIFY PRIOR TO TITL V SAND PLACEMENT (if needed).
 - EXCAVATE ANY LOAM, SUB OR EXISTING SYSTEMS AND REMOVE.
 15. SOIL EVALUATION BY A WEISS, RS. 07/17/08 (E. BOKINA, BOH AGENT).
 - DEPTH OF PERCS. 48" & 44"
 - PERC RATE = <2 MIN / IN
 - CLASS I SOIL RATING (COARSE SAND)
 16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD. USE TITL V FILL 5' OUT.
 17. ENGINEER TO INSPECT SUBGRADE, ENGINEER AND TOWN TO INSPECT AT FINAL.
 - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
 19. GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.

NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO INSPECTIONS. 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.

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.



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

PHO. NO.: (413) 323-5957
 FAX: (413) 323-4916
 E-MAIL: acw@csce.com

SEPTIC SYSTEM DESIGN PLAN FOR INTEGRITY BUILDERS
 MAP 2 LOT 21D 167 WILDFLOWER DRIVE
 AMHERST, MA.

DATE: 7/25/08
 SCALE: 1"=30'

DESIGNED BY: AEW
 INSPECTED BY: AEW

DRAWN BY: ARS
 DRAWING NUMBER: 108-3012-0717