Haskins View - East Leverett Rd

Barry Roberts

10/4/05 CALLED LEFT MSG. INVOICE INCORRECT STILL OWES $100.

JTRue
FSI Appraisal
#586-5252

Haskins View · East Leverett Rd
Barry Roberts

Town of AMHERST Massachusetts

COPY

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002

(413) 256-4077
FAX (413) 256-4053
www.amherstma.gov

Environmental Health Services
(413) 256-4033

To: Board of Health Members
From: David E. Zarozinski, Town Sanitarian
Re: Preliminary Subdivision Plan - Haskins View
Date: August 25, 2005

I have reviewed the preliminary subdivision-plan for Haskins View, located on East Leverett Road near the Shutesbury/Amherst line. The subdivision is owned by Mr. Barry Roberts and was prepared by Garrity and Tripp Landscape Architecture Land Planning Civil Engineering and Environmental Services.

The parcel number of this subdivision is Cadastre Map 3B, Parcels 20 and 80 plus a portion of Map 3A, Parcel 78. The acreage for this property is 52.58 $\pm$ and is zoned R-O (Outlying Residence). The lot sizes are from 43,700 $\pm$ to 97,950 square feet.

There will be twenty-six (26) single family homes served by D.E.P. Title V standard requirements for septic systems and the water supply distribution will be individual wells. Garrity & Tripp has scheduled September 20, 2005 with the Health Department to conduct percolation tests for some of these lots.

We have been informed the septic systems will be drawn by Mr. William Sieruta, Engineer. When the percolation tests are completed the engineer will draw a septic system design for each lot and will submit the plan to me for approval.

Cc: Garrity & Tripp
Planning Board
Barry Roberts

Town of

AMHERST Massachusetts

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002

(413) 256-4077
FAX (413) 256-4053
www.amherstma.gov

Environmental Health Services
(413) 256-4033

September 21, 2005

Mr. Barry Roberts
C/O Roberts Builder Inc.
646 West Street
Amherst, MA 01002

Dear Mr. Roberts,

On Tuesday, September 20, 2005 Mr. Tom Dion and I, Dave Zarozinski, Town Sanitarian witnessed percolation test done by Mr. William Sieruta, Engineer at the location known as Haskins View, Leverett Road, Amherst, MA.

The tests done on the following lots (9, 11, 18, 23, 26) meet the requirement of Title V regulation.

If you should have any questions on this matter please feel free to call us (413) 256-4033.

Sincerely,

David Zarozinski
Town Sanitarian

AMHERST HEALTH DEPARTMENT

70 BOLTWOOD WALK • AMHERST • MA • 01002
Office (413) 256-4077 Fax (413) 256-4053
Environmental Health (413) 256-4033
www.amherstma.gov

September 21, 2005

Mr. Barry Roberts
C/O Roberts Builders Inc.
646 West Street
Amherst, MA 01002

Dear Mr. Roberts,

This is a friendly reminder to please send payment for the percolation tests conducted on September 20, 2005 for Haskins View.

- Percolation test (Lot: 9,11,18,23,26)
  $250 per lot *Total* *$1150.00*

Balance Due: $1150.00

Please make check payable to the Town of Amherst and mail to: Environmental Health Services, 70 Boltwood Walk, Amherst, MA 01002.

We truly appreciate your cooperation. If you should have any questions please do not hesitate to call.

Sincerely,

Ruth Loredo Taylor
Administrative Assistant

AMHERST HEALTH DEPT.
TOWN OF AMHERST
HEALTH PERMITS

1641

Received of Barry Roberts (Name) of P.O. Box 678, Amherst (Address)

For Property Located at: 1 Leverett Rd. (Street Address) Same (Owner)

HEA009	Bakery R6510 443509		HEA016	Septic Tank Permit-Installers R6510 443511	
HEA001	Bed & Breakfast R6510 443516		HEA017	Septic Tank Permit-Private R6510 443510	
HEA002	Catering License R6510 443507		HEA018	Septic Tank Reinspection Fee R6510 432301	
HEA003	Food Handler R6510 443515		HEA019	Sub-Division Review Fee R6510 432306	#250-
HEA004	Frozen Deserts R6510 443501		HEA012	Swimming Pool Permits R6510 443512	
HEA005	Health Dept. Housing Isp. R6510 432302		HEA020	Tanning License R6510 443509	
HEA006	Massage Therapy License R6510 443504		HEA034	Immunization Clinic R6510 432307	
HEA008	Motel License R6510 443506		HEA026	Smoking & Tobacco Reg. Violations R6510 443518	
HEA010	Removal of Offal R6510 443513		HEA022	Tobacco License R6510 443505	
HEA021	Removal of Rubbish R6510 443520		HEA042	Body Arts / Tatoo R6510 443521	
HEA011	Percolation Test Fees R6510 432300		HEA043	Food Service Plan Review R6510 432308	
HEA013	Recreation Camp License R6510 443503		HEA044	Porta Potties R6510 432309	
HEA014	Retail Store Permit R6510 443514		HEA045	Ice Rinks R6510 443522	
HEA015	Sanitary Code Booklets R6510 432305		HEA046	Rental Registration R6510 432310	
			HEA047	Fines R6510 48200	
			HEA		
			HEA		

TOTAL FEE: #250-

Amherst Health Department

6/23/05
Date

Must be Validated by the Collector's Office to be considered paid

OFFICE USE ONLY

CHECK #	CASH
TOWN OF AMHERST	T1146
MISC CASH RECEIPTS	

Date / Time : 06/23/05 15:02
Payment : $250.00
Receipt # : 17019
Check/Credit Card #: 1641//873
Paid by : BARRY ROBERTS

WHITE – Applicant YELLOW – Collector PINK – Accounting GOLD – Health / Inspections

FORM K

CK# 873
RCT# 1641

RECEIPT FOR SUBDIVISION PLAN

Board of Health
Amherst, Massachusetts

RECEIVED FROM Haskins View, L.L.C.

__X__ One Print of a Preliminary Subdivision Plan Map

_____ One Print of a Definitive Subdivision Plan Map

__X__ One Copy of a Development Impact Statement

__X__ One Copy of SCS Soils Data for Site w/Map

FOR A SUBDIVISION ENTITLED Haskins View

application for approval for which has been made to the Amherst Planning Board, and for which prior approval is required of the Amherst Board of Health.

For Amherst Board of Health

8/23/05
Date

E. Leverett Rd.
POSSIBLE 36 LOTS

Parcel 03B000080

Amherst Planning Board
Form K

AMHERST HEALTH DEPT.
TOWN OF AMHERST
HEALTH PERMITS

1690

Received of Barry Roberts (Name) of P.O Box 678, Amherst (Address)

For Property Located at: Hopkins View (Street Address) Condo (Owner)

HEA009	Bakery R6510 443509		HEA016	Septic Tank Permit-Installers R6510 443511	
HEA001	Bed & Breakfast R6510 443516		HEA017	Septic Tank Permit-Private R6510 443510	
HEA002	Catering License R6510 443507		HEA018	Septic Tank Reinspection Fee R6510 432301	
HEA003	Food Handler R6510 443515		HEA019	Sub-Division Review Fee R6510 432306	
HEA004	Frozen Deserts R6510 443501		HEA012	Swimming Pool Permits R6510 443512	
HEA005	Health Dept. Housing Isp. R6510 432302		HEA020	Tanning License R6510 443509	
HEA006	Massage Therapy License R6510 443504		HEA034	Immunization Clinic R6510 432307	
HEA008	Motel License R6510 443506		HEA026	Smoking & Tobacco Reg. Violations R6510 443518	
HEA010	Removal of Offal R6510 443513		HEA022	Tobacco License R6510 443505	
HEA021	Removal of Rubbish R6510 443520		HEA042	Body Arts / Tatoo R6510 443521	
HEA011	Percolation Test Fees R6510 432300	$1,150-	HEA043	Food Service Plan Review R6510 432308	
HEA013	Recreation Camp License R6510 443503		HEA044	Porta Potties R6510 432309	
HEA014	Retail Store Permit R6510 443514		HEA045	Ice Rinks R6510 443522	
HEA015	Sanitary Code Booklets R6510 432305		HEA046	Rental Registration R6510 432310	
			HEA047	Fines R6510 48200	
			HEA		
			HEA		

TOTAL FEE: $1,150-

Peter Taylor
Amherst Health Department

9/28/05
Date

Must be Validated by the Collector's Office to be considered paid

OFFICE USE ONLY

CHECK #	CASH
TOWN OF AMHERST MISC CASH RECEIPTS	

T1146

Date / Time : 09/29/05 15:36
Payment : $1,150.00
Receipt # : 23573
Check/Credit Card #: 896
Paid by : BARRY ROBERTS

WHITE – Applicant YELLOW – Collector PINK – Accounting GOLD – Health / Inspections

RUTH #1690
CK# 896

AMHERST HEALTH DEPARTMENT

70 BOLTWOOD WALK • AMHERST • MA • 01002
Office (413) 256-4077 Fax (413) 256-4053
Environmental Health (413) 256-4033
www.amherstma.gov

RECEIVED 9/23/05

September 21, 2005

Mr. Barry Roberts
C/O Roberts Builders Inc.
646 West Street
Amherst, MA 01002

Dear Mr. Roberts,

This is a friendly reminder to please send payment for the percolation tests conducted on September 20, 2005 for Haskins View.

- Percolation test (Lot: 9,11,18,23,26)
  $250 per lot *Total* *$1150.00*

#896 9/27/05 $1150

Balance Due: $1150.00

Please make check payable to the Town of Amherst and mail to: Environmental Health Services, 70 Boltwood Walk, Amherst, MA 01002.

We truly appreciate your cooperation. If you should have any questions please do not hesitate to call.

Sincerely,

Ruth Loredo Taylor
Administrative Assistant

received
7-31-07

FORM 11 - SOIL EVALUATOR FORM

No. _____ Date: 7/25/07

Commonwealth of Massachusetts
, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM J SIENUTA PE REVA Date: 7/25/07
Witnessed By: DAVID ZANAZIWSKI BOH

Location Address or Lot #	Owner's Name, Address, and Telephone #
BARRY ROBERTS LOT 1 HASKINS FLATS PROJECT EAST UNNUMBERED	BARRY ROBERTS PO BOX 678 AMHERST MASS

New Construction ☐ Repair ☐

Office Review AMHERST MA Cell 537-4737

Published Soil Survey Available: No ☐ Yes ☐

Year Published ..... Publication Scale ..... Soil Map Unit

Drainage Class ..... Soil Limitations Telephone

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: _____

Haskins Flats project

FORM 11 - SOIL EVALUATOR FORM

Page 2 of 3

Location Address or Lot No. EAST CHERRETT RD. Amherst Mass

On-site Review

Deep Hole Number TP-1 Date 7/25/07 Time 900 Weather sunny.

Location (identify on site plan)

Land Use Reside Slope (%) 5 Surface Stones some rocks

Vegetation Field

Landform plain

Position on landscape (sketch on the back)

Distances from:

Open Water Body 500 feet Drainage way DNA feet

Possible Wet Area 500 feet Property Line feet see sketch

Drinking Water Well feet Other

NO wells WITHIN 200'

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	Ap	s/l	10yr 3-2		
10-20	Bw	s/l	10yr 6-6	10yr 6-1	20% gravel
20-100	C1	s/l	2.5y 6-3	10yr 5-8	10% cobbles few stones
100	R1	Rock	10 yr 4-2		massive friable slightly firm

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Till Depth to Bedrock 100

Depth to Groundwater Standing Water in the Hole DNE Weeping from Pit Face DNE

Estimated Seasonal High Ground Water

EHWT 40

DEP APPROVED FORM - 11/97/05

Page 2 o

Location Address or Lot No. EAST CHERRETT RD Amherst MA

On-site Review

Deep Hole Number TP-2 Date 7/25/07 Time 900 Weather

Location (identify on site plan)

Land Use Reside Slope (%) Surface Stones

Vegetation Field

Landform plain

Position on landscape (sketch on the back)

Distances from:

Open Water Body 500 feet Drainage way DNA feet

Possible Wet Area 500 feet Property Line 200 feet see sketch

Drinking Water Well feet Other

NO wells WITHIN 200'

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-9	Ap	s/l	10yr 3-2		
9-20	Bw	s/l	10yr 6-6	10yr 6-1	20% Gravel
20-94	C1	s/l	2.5 y 6-3	10yr 5-8	10% cobb massive friable
94	R1	Rock	10yr 4-2		structure slightly firm

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Till Depth to Bedrock 94

Depth to Groundwater Standing Water in the Hole DNE Weeping from Pit Face Dry

Estimated Seasonal High Ground Water

EHWT 40

DEP APPROVED FORM - 11/97/05

FORM 11 - SOIL EVALUATOR FORM

Page 2 of 3

Location Address or Lot No. LOT 1 EAST LAWRENCE RD Amherst

On-site Review

Deep Hole Number TP-3 Date 7/25/07 Time 900 Weather sunny HOT

Location (identify on site plan)

Land Use RESIDEN Slope (%) 4 Surface Stones SOME NONE

Vegetation FIELD

Landform DRUMLIN

Position on landscape (sketch on the back)

Distances from:

Open Water Body 500 feet Drainage way DNA feet

Possible Wet Area 500 feet Property Line feet see sht 1

Drinking Water Well feet Other

NO WELLS WITHIN 200

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	Ap	S/L	10YR 3/2		
10-20	Bw	S/L	10YR 6-6	10YR 5-8	20% gravel
20-108	C1	S/L	2.5Y 6-3	10YR 6-1	10% cobbles MASSIVE FIRM
108	R	Rock	10YR 4-2		STRUCTURELESS SLIGHTLY FIRM

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) TILL Depth to Bedrock: 108

Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY

Estimated Seasonal High Ground Water:

RMWT

40

DEP APPROVED FORM - 12/97/95

Page 2 o

Location Address or Lot No. LOT 1 EAST LAWRENCE RD Amherst

On-site Review

Deep Hole Number TP-4 Date 7/25/07 Time 900 Weather

Location (identify on site plan)

Land Use DRUMLIN Slope (%) 4 Surface Stones SOME NONE

Vegetation FIELD

Landform DRUMLIN

Position on landscape (sketch on the back)

Distances from:

Open Water Body 500 feet Drainage way DNA feet

Possible Wet Area 500 feet Property Line feet SEE SHT 1

Drinking Water Well feet Other

NO WELLS WITHIN 200

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	Ap	S/L	10YR 3-2	10YR 5-8	
10-20	Bw	S/L	10YR 6-6	10YR 6-1	
20	C1	S/L	4.5Y 6-3	10YR 6-1 40%	
120					

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) TILL Depth to Bedrock:

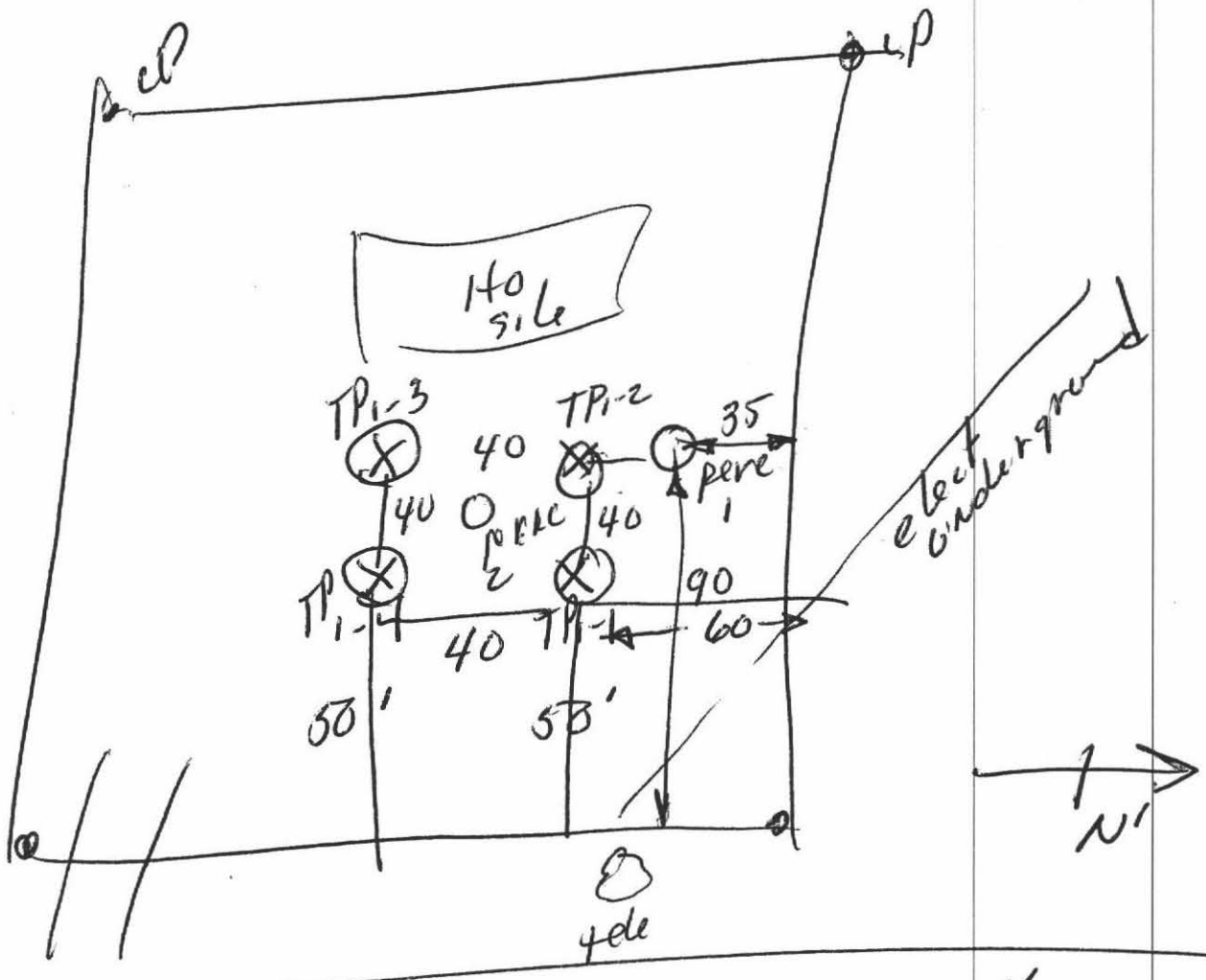
Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY

Estimated Seasonal High Ground Water:

RMWT

40

DEP APPROVED FORM - 12/97/95


cP
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Ho
sile
TP1-3
TP1-2
40
35
pere
40
40
perc
elect
underground
90
TP1-4
TP1-4
40
60
50'
50'
N
4de
WEST LEVEE RD

Percolation Test

Test No. perc1
Reading Time 900 - 915
Saturation (15 min)

12
11 — 8/3 = 2.66
10
9
8
7 — 14/3 = 4.66
6

~~915~~ 930
933
936
938
947
952

Perc Rate 5.0 Min/inch
Ground Elev.
Depth of Hole 46

Test No. perc2
Reading Time 900 - 915
Saturation (15 min)

12
11
10 — 27/3 = 9.0
9
8
7 — 26/3 = 8.66
6

930
938
947
957
1005
1014
1023

Perc. Rate 10.0 Min/inch
Ground Elev.
Depth of Hole 47

Deep Test Pit/s TP1-3 TP1-4

Test Pit TP1-1 TP1-2
Depth Soil Description
0-20 OTS LOAM
20-20 SILTY SAND SUB
20-108 gravel fill
108 ROCK

Groundwater Depth DNE Elev.
Bedrock Depth 108 Elev.
Ground Elev.

Test Pit
Depth Soil Description
0-10 OTS LOAM
10-20 SILTY SAND SUB
20-108 gravel fill
107 Rock refusal

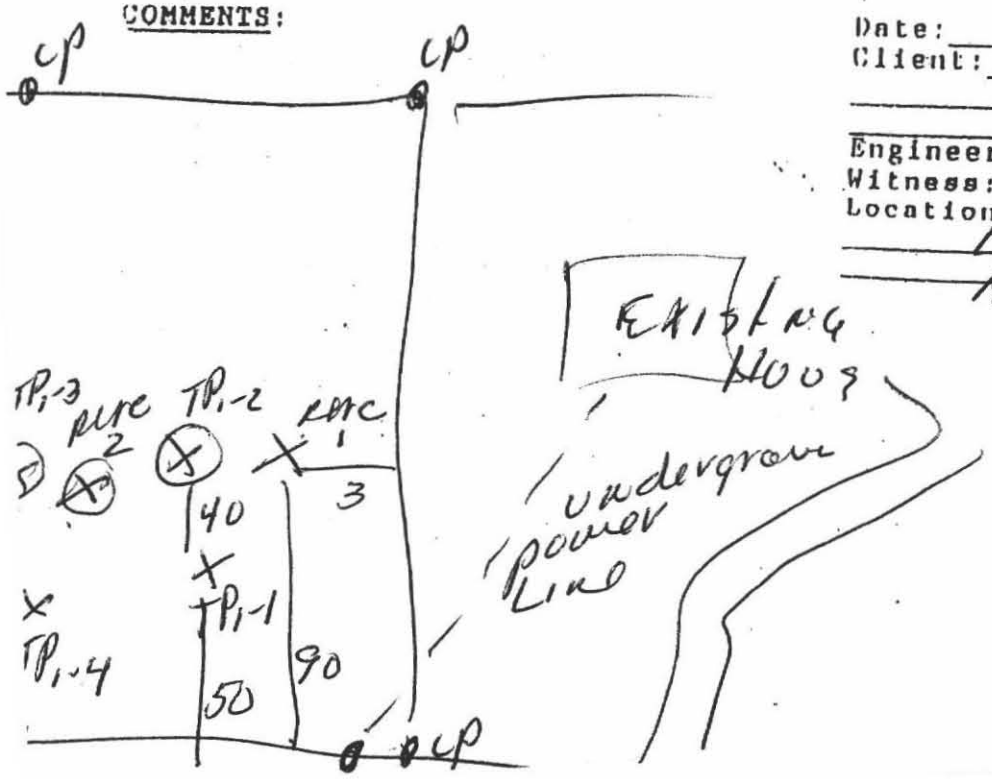
Groundwater Depth DNE Elev.
Bedrock Depth 108 Elev.
Ground Elev.

S.C.S. Soil Description gravel fill Seasonal High Water Table? NO mottles

Bench Mark: Elev. Description

COMMENTS:

Date: 7/25/07
Client: Bobby Roberts
PO BOX
Amherst Mass
Engineer: W J SMITH
Witness: D ZANAZNIEC
Location of Perc:
LOT 1
EAST Leverett Rd
Amherst Mass



FORM 12 - PERCOLATION TEST

Location Address or Lot No. EAST LEVERETT RD
Amherst

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: 7/25/07	Time: 900	
Observation Hole #	TP1-1 TP1-2	TP1-3 TP1-4
Depth of Perc	47	46
Start Pre-soak	900 - 915	900 - 915
End Pre-soak	930	930
Time at 12"	930	930
Time at 9"	938	957
Time at 6"	952	1023
Time (9"-6")	14/3 = 4.66	26/3 = 8.66
Rate Min./Inch	Design rate 10	Design rate 10

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

Site Passed ☑ Site Failed ☐

Performed By: William Signorin PE #9021

Witnessed By: DAVID ZMRAZINSKI

Comments:

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. LOT 1 EAST DEERFIELD RD Amherst MASS

Determination for Seasonal High Water Table

Method Used:

- [x] Depth observed standing in observation hole ..... inches TP-1 TP-2 TP-3
- [x] Depth weeping from side of observation hole ..... inches DRY DRY DRY
- [x] Depth to soil mottles ..... inches DRY DRY DRY
- [ ] Ground water adjustment ..... feet

40' 40' 40'

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 5/95 (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 7/25/07

Drake, Kathryn

From: Bodhi, Epi
Sent: Monday, January 08, 2007 3:00 PM
To: Zarozinski, David
Cc: Drake, Kathryn
Subject: haskins view plans

Ellen would like to come in to see the development plans for Haskins View. All I have is the map. Who has the plans?

Epi Bodhi
Director of Public Health
Amherst, MA
413 259 3077
413 259 2404

GARRITY & TRIPP

Landscape Architecture/Land Planning Civil Engineering/Environmental Services

P.O. Box 610, Hadley, MA 01035
(413) 549-3800

William R. Garrity, L.A. Dennis A. Tripp, P.E.

May 17, 2006

Town of Amherst Planning Board
c/o Mr. Jonathon Tucker
Director, Town of Amherst Planning Department
Town Hall
4 Boltwood Avenue
Amherst, MA 01022

RE : Definitive Subdivision Plan, Haskins View,
East Leverett Road, Amherst

Dear Planning Board Members :

On behalf of the applicants, Haskins View, L.L.C., this letter is to respectfully request a ninety (90) day extension to the definitive plan review process in accordance with MGL, C 41, Sec 81U in order to provide adequate time for engineering adjustments, staff reviews, and the public hearing process.

Sincerely,
Garrity & Tripp

W. R. Garrity

William R. Garrity, L.A.
Principal

Encls.
cc :
Amherst Board of Health
Atty. Peter MacConnell
Haskins View, L.L.C.

AMHERST HEALTH DEPT.
TOWN OF AMHERST
HEALTH PERMITS

1891

Received of Barry L. Roberts of P.O. Box 679 Amherst
Name Address

For Property Located at: Haskins View LLC. Same
Street Address Owner
East Leverett Rd

HEA009	Bakery R6510 443509		HEA016	Septic Tank Permit-Installers R6510 443511	
HEA001	Bed & Breakfast R6510 443516		HEA017	Septic Tank Permit-Private R6510 443510	
HEA002	Catering License R6510 443507		HEA018	Septic Tank Reinspection Fee R6510 432301	
HEA003	Food Handler R6510 443515		HEA019	Sub-Division Review Fee R6510 432306	75 00
HEA004	Frozen Deserts R6510 443501		HEA012	Swimming Pool Permits R6510 443512	
HEA005	Health Dept. Housing Isp. R6510 432302		HEA020	Tanning License R6510 443509	
HEA006	Massage Therapy License R6510 443504		HEA034	Immunization Clinic R6510 432307	
HEA008	Motel License R6510 443506		HEA026	Smoking & Tobacco Reg. Violations R6510 443518	
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HEA021	Removal of Rubbish R6510 443520		HEA042	Body Arts / Tatoo R6510 443521	
HEA011	Percolation Test Fees R6510 432300		HEA043	Food Service Plan Review R6510 432308	
HEA013	Recreation Camp License R6510 443503		HEA044	Porta Potties R6510 432309	
HEA014	Retail Store Permit R6510 443514		HEA045	Ice Rinks R6510 443522	
HEA015	Sanitary Code Booklets R6510 432305		HEA046	Rental Registration R6510 432310	
			HEA047	Fines R6510 48200	
			HEA		
			HEA		

TOTAL FEE: 75 00

Amherst Health Department

3/21/06
Date

OFFICE USE ONLY

CHECK #	CASH
TOWN OF AMHERST MISC CASH RECEIPTS	T1146

Date / Time : 03/21/06 09:44
Payment : $75.00
Receipt # : 70952
Check/Credit Card #: 1891//1047
Paid by : BARRY ROBERTS

Must be Validated by the Collector's Office to be considered paid

WHITE – Applicant YELLOW – Collector PINK – Accounting GOLD – Health / Inspections

FORM 11 - SOIL EVALUATOR FORM
Page 1 of 3

7/6/06

No. _____ DRAINAGE perc tests ONLY Date: 6/7/06

Commonwealth of Massachusetts

, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM SIENKIEWICZ PE Date: 6/7/06

Witnessed By: TOWN OF AMHERST ENGINEERING DEPT.

Location Address or Lot # BARRY ROBERTS 20 LEVERETT ROAD ANSKIAS VIEW SUBDIV	Owner's Name, Address, and Telephone # BARRY ROBERTS BAY ROAD SO AMHERST MASS

New Construction ☐ Repair ☐

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published ..... Publication Scale ..... Soil Map Unit .....

Drainage Class ..... Soil Limitations .....

Surficial Geologic Report Available: No ☐ Yes ☑

Year Published ..... Publication Scale .....

Geologic Material (Map Unit) .....

Landform .....

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☑ Yes ☐

Within 100 year flood boundary No ☑ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit) .....

Wetlands Conservancy Program Map (map unit) .....

Current Water Resource Conditions (USGS): Month _____

Range :Above Normal ☐ Normal ☑ Below Normal ☐

Other References Reviewed: _____

FORM 11 - SOIL EVALUATOR FORM
Page 2 of 3

Location Address or Lot No. HAS/LAWS VIEW
Amherst
On-site Review

Deep Hole Number TP9 Date: 6/7/06 Time: 900 Weather RAIN HEAVY.
Location (identify on site plan)
Land Use RESIDENTIAL Slope (%) 2 Surface Stones SOME NOTED
Vegetation WOODED BNEA
Landform OUTWASH TERRACE
Position on landscape (sketch on the back)
Distances from:
Open Water Body — feet Drainage way DNA feet
Possible Wet Area — feet Property Line — feet
Drinking Water Well — feet Other
40 FT OFF ROAD

DEEP OBSERVATION HOLE LOG

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	AP	SL	10YR 3-2		
8-16	BW	LS	10YR 5-3	10YR 5-8	15% gravel Few cobbles
16-120	C1	SAND COARSE	10YR 5-4		NO BOULDERS MASSIVE

MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic)
Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: NONE
Depth to Bedrock: DNA
Estimated Seasonal High Ground Water: below 100"

DEP APPROVED FORM - 12/07/95

Page 2 o

Location Address or Lot No.

See TP8 On-site Review ATTACHED.

Deep Hole Number Date: Time: Weather
Location (identify on site plan)
Land Use Slope (%) Surface Stones
Vegetation
Landform
Position on landscape (sketch on the back)
Distances from:
Open Water Body feet Drainage way feet
Possible Wet Area feet Property Line feet
Drinking Water Well feet Other

DEEP OBSERVATION HOLE LOG

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)

MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

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

DEP APPROVED FORM - 12/07/95

Percolation Test

Test No. perc test TP9 | Test No. _____

Reading | Time | Saturation (15 min) | Reading | Time | Saturation (15 min)

Reading	Time	Saturation (15 min)	Reading	Time	Saturation (15 min)
	835-840 25 gal soak				
12					
11					
10					
9					
8	840				
7		2/3 = .66			
6	843				
	845				

Perc Rate 5.0 < 2.0 min/inch Min/inch | Perc. Rate _____ Min/inch

Ground Elev. | Ground Elev.

Depth of Hole 50" | Depth of Hole

Deep Test Pit/s

Test Pit TP9

Test Pit Depth	Soil Description
0-8	OTS LOAM
8-16	SILTY SAND SUB SOIL
16-120	well graded sand & gravel

Groundwater Depth _____ Elev. _____

Bedrock Depth _____ Elev. _____

Ground Elev. _____

Test Pit Depth	Soil Description

Groundwater Depth _____ Elev. _____

Bedrock Depth _____ Elev. _____

Ground Elev. _____

S.C.S. Soil Description _____ Seasonal High Water Table? _____

Bench Mark: Elev. _____ Description _____

COMMENTS:

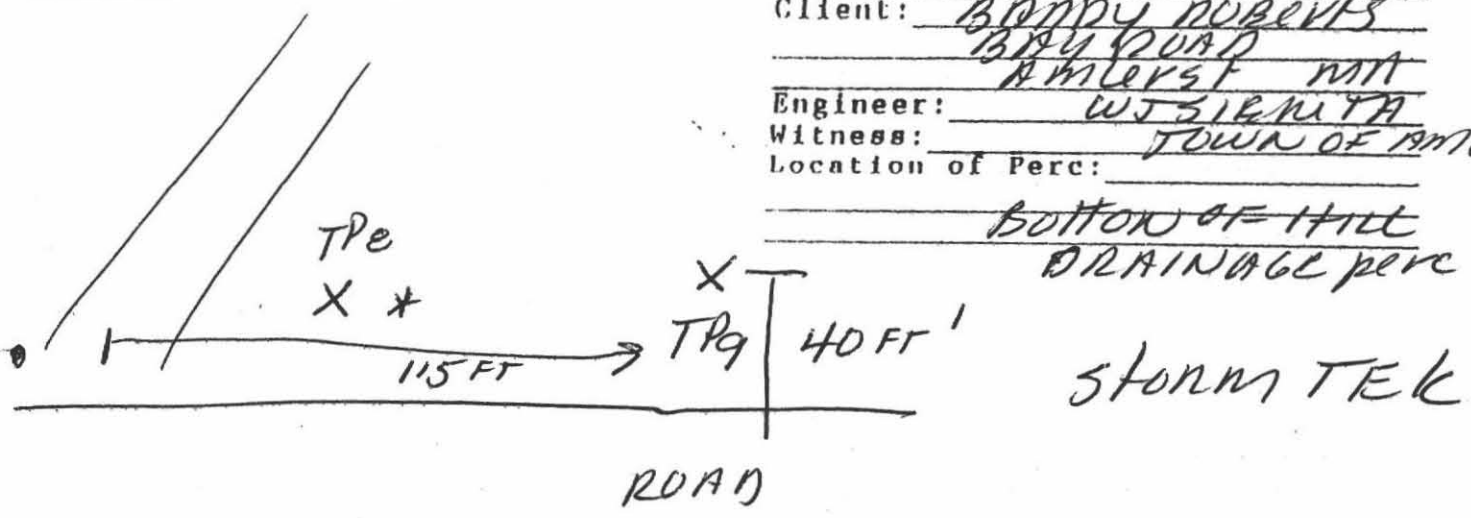
Date: 6/7/06

Client: Bobby Roberts
Bay Road
Amherst NH

Engineer: WJ SIEMIATA

Witness: TOWN OF Amherst

Location of Perc: _____
Bottom of Hill
DRAINAGE perc only



STORMTEK

FORM 12 - PERCOLATION TEST

*Location Address or Lot No. HASKINS VIEW.

COMMONWEALTH OF MASSACHUSETTS

Amherst , Massachusetts

Percolation Test*		
Date:	6/7/06 Time:	
Observation Hole #	TP9	
Depth of Perc	50"	
Start Pre-soak	25 gals 835-840	
End Pre-soak	840	
Time at 12"	840	
Time at 9"	843	
Time at 6"	845	
Time (9"-6")	2/3 = .66	
Rate Min./Inch	<2.0 MIN/INCH	

HIGHLY PERMEABLE SANDE GRAVEL

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

Site Passed ☑ Site Failed ☐

Performed By: WILLIAM SIENKIEWICZ PE

Witnessed By: TOWN ENGINEERING DEPT.

Comments:

DEP APPROVED FORM - 12/07/95

FORM 11 - SOIL EVALUATOR FORM
Page 2 of 3

Location Address or Lot No. EAST CHURCHETT RD
COLCHESTER

On-site Review

Deep Hole Number DTH7 Date 9/19/05 Time: Weather SUNNY COOL
Location (identify on site plan)
Land Use RESIDENTIAL Slope (%) 3 Surface Stones MANY ROCKS
Vegetation WOODED
Landform DRUMLIN
Position on landscape (sketch on the back)
Distances from:
Open Water Body 200'+ feet Drainage way DNA feet
Possible Wet Area 200'+ feet Property Line feet
Drinking Water Well feet Other
NONE WITHIN 200' NONE OBSVD

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	A1	SL	10YR 4-2		
12-18	Bw	SL	10YR 5-3	10YR 6-8	
18-130	C1	SL	10YR 6-4	40" 10YR 5-8 10YR 6-1 30"	VERY COMPACT FILL POOR DRAINAGE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH TILL Depth to Bedrock: DNA
Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY
Estimated Seasonal High Ground Water: ENTIRE 30"

AREA NOT SUITABLE FOR LEACHING BASIN
Cemented Soils

DEP APPROVED FORM - 12/97/95

Page 2 o

Location Address or Lot No. EAST CHURCHETT RD
base of Hill @ two Entrances

On-site Review

DTH8 Date 9/19/05 Time: — Weather SUNNY COOL
Deep Hole Number
Location (identify on site plan)
Land Use RESIDENTIAL Slope (%) 4 Surface Stones MANY ROCKS
Vegetation
Landform
Position on landscape (sketch on the back)
Distances from:
Open Water Body 200' feet Drainage way DNA feet
Possible Wet Area 200 feet Property Line 25 feet FRONT LOT
Drinking Water Well feet Other
NONE WITHIN 200'

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	Ap	SL	10YR 4-3		
8-22	Bw	LS	10YR 5-4	Many	Well Graded Gravel Course
22-120	C1	SAND GRVL	10YR 4-4	None	

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH GRAVEL Depth to Bedrock: DNA
Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY
Estimated Seasonal High Ground Water: ENTIRE BELOW 120

DEP APPROVED FORM - 12/97/95

FORM 12 - PERCOLATION TEST

Location Address or Lot No. Barry Roberts East Leverett Rd

COMMONWEALTH OF MASSACHUSETTS

Amherst , Massachusetts

Percolation Test*		
Date:	Time:	
Observation Hole #	DTH 7	DTH 8
Depth of Perc	46	48"
Start Pre-soak	150 NO SOAK	237 NO SOAK
End Pre-soak	150	237
Time at 12" 7	150 220	237 8
Time at 9"	- 30/2	237
Time at 6"	stopped	
Time (9"-6")	= 30 min / 2 inches	10/6 = 1.66
Rate Min./Inch	15 MIN	2.0 MIN/INCH

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

Site Passed ☐ Site Failed ☐

Performed By: William Sienkiewicz PE

Witnessed By: PWC Amherst Engineering Dept

Comments:

DEP APPROVED FORM - 12/07/95

FORM 11: Soil Evaluation Form NO: HASKINS View

27
LOT 26 Perc Test Fee 250.00 Per Lot

Commonwealth of Massachusetts
Town of: AMHERST

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: William Stewart Date: 9/20/05
Witnessed By: Tom Dion / Dave Zarozinski

Location Address of: RASHEVITZ. Lot # EAST Leverett Rd SITE
Owner's Name: Barry Roberts
Address of: C/O Roberts Building Inc. 646 West St
Telephone: 253-7772
New Construction ☑ Repair ☐

Office Review

Published Soil Survey Available? No ☐ Yes ☑
Year Published _____ Publication Scale _____ Soil Map Unit _____
Drainage Class _____ Soil Limitations _____

Surficial Geologic Report Available? No ☐ Yes ☐
Year Published _____ Publication Scale _____
Geologic Material (map unit) _____
Landform _____

Flood Insurance Rate Map:
Above 500 year flood boundary? No ☐ Yes ☑
Within 500 year flood boundary? No ☑ Yes ☐
Within 100 year flood boundary? No ☑ Yes ☐

Wetland Area:
National Wetland Inventory Map (map unit) _____
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): month _____
Range: Above Normal ☐ Normal ☑ Below Normal ☐

Other Reference Reviewed:

Determination: Seasonal High Water Table

Methods Used:

☐ Depth observed standing in observation hole NONE inches
☐ Depth weeping from side of observation hole NONE inches
☐ Depth to soil mottles 110 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 feed of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? YES

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

_____

Certification

I certify that on 9/95 *(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 _____
Date 9/20/05

TP-26-1 LOT 26-1 STAKE 1

On-Site Review

Deep Hole Number (1) Date: 9/20/05 Time 8:40
Weather CLOUDY RAIN
Location (identify on site plan)
Land Use RESIDENT Slope (%) 3
Surface Stone SOME
Vegetation: PASTURE FIELD

Landform: ~~PASTURE~~ DRUMLIN

Position on Landscape (sketch on back)
Distances from:
Open Water Body 400' feet Drainageway DNA feet
Possible Wet Ares 400' feet Property Line 1 feet TO BE SET
Drinking Water Well ____ feet Other ____
NONE WITHIN 200'

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-8	AP	S/L	10YR 4-2		FRIABLE
8-18	BW	S/L	10YR 5-3		
18-64	C_1	S/L	2.5Y 6-4	10YR 5-8	10% GRAVEL 10% COBBLES
64-120	C_2	S/L	2.5Y 4-4	10YR 6-1 110"	FEW STONES AND BOULDERS MASSIVE

Parent Material (geologic) GLACIAL TILL
Depth to Bedrock DNA
Depth to Groundwater:
Standing Water in the Hole NONE
Weeping from Pit Face NONE
Estimated Seasonal High Water ____

HASTINGS CREEK EAST LOVELL RD

TP 26-2 STAKE #2

On-Site Review

Deep Hole Number (2) Date: 9/20/05 Time 8:50
Weather CLOUDY RAIN
Location (identify on site plan)
Land Use RESIDENT Slope (%) 3
Surface Stone SOME
Vegetation: GRASSES FIELD + PASTURE

Landform: ~~PASTURE~~ DRUMLIN

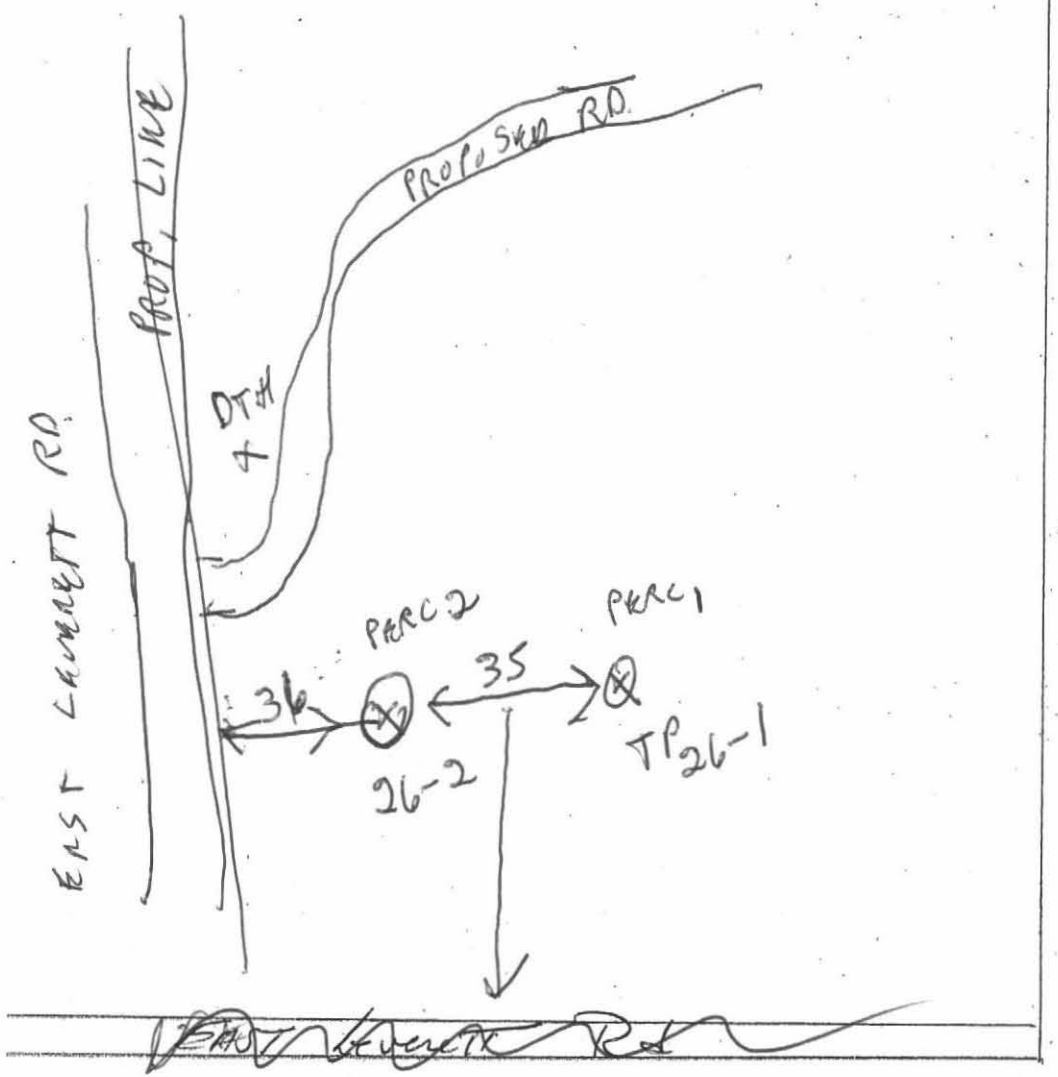
Position on Landscape (sketch on back)
Distances from:
Open Water Body 400' feet Drainageway DNA feet
Possible Wet Ares 400' feet Property Line ____ feet TO BE SET
Drinking Water Well ____ feet Other ____
NONE WITHIN 200'

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-8	AP	10YR 4-2	S/L		FRIABLE
8-18	BW	10YR 5-3	S/L		
18-72	C_1	2.5Y 6-4	S/L	10YR 5-8	10% GRAVEL 10% COBBLES
72-137	C_2	2.5Y 4-4	S/L	10YR 6-1 110"	FEW STONES AND BOULDERS MASSIVE

Parent Material (geologic) GLACIAL TILL
Depth to Bedrock DNA
Depth to Groundwater:
Standing Water in the Hole NONE
Weeping from Pit Face NONE
Estimated Seasonal High Water ____

MAP 3-15 PARCEL 20+80
PLUS MAP 3-A PARCEL 78



FORM 12: Percolation Test
Location Adrress or Lot # HASKINS View
RASKEVITZ SITE E Leverett Rd
Commonwealth of Massachusetts STAUK
Town of AMHERST STAUK TS #1 TS #2

PERCOLATION TEST * DATE: 9/20/05 TIME:		
Observation Hole #	TP 26-1 (1)	(2) TP 26-2
Depth of Perc	57"	48"
Start Pre-soak	8:40 - 8:55	8:50 - 9:05
End Pre-soak	8:55 AM	9:05 AM
Time at 12"	8:55	9:05 AM
Time at 9"	9:08	9:40 AM
Time at 6"	9:28	10:10 AM
Time (9"-6")	~~8~~ 20 MIN.	30 MIN
Rate Min./Inch	6 + DESIGNED FOR 8	10 MIN/INCH

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

Site Passed ☑ Site failed ☐

Performed by WILLIAM SIERUTA

Witnessed by William Sierutа TOM DIBB

Comments:

FORM 11: Soil Evaluation Form NO: HASKINS View

Perc Test Fee 250.00 Per Lot

LOT 9

Commonwealth of Massachusetts
Town of: AMHERST

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: William Sieverts Date: 9/20/05
Witnessed By: TOM DION / DAVE ZAKOZINSKI

Location Address of: RASHEVITZ SITE
Lot # EAST Leverett Rd
Owner's Name: Barry Roberts
Address of: C/O Roberts Builders Inc 646 West St
Telephone: 253-7772

New Construction ☑ Repair ☐

Office Review

Published Soil Survey Available? No ☐ Yes ☑
Year Published _____ Publication Scale _____ Soil Map Unit _____
Drainage Class _____ Soil Limitations _____

Surficial Geologic Report Available? No ☐ Yes ☐
Year Published _____ Publication Scale _____
Geologic Material (map unit) _____
Landform _____

Flood Insurance Rate Map:
Above 500 year flood boundary? No ☐ Yes ☑
Within 500 year flood boundary? No ☑ Yes ☐
Within 100 year flood boundary? No ☑ Yes ☐

Wetland Area:
National Wetland Inventory Map (map unit) _____
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): month _____
Range: Above Normal ☐ Normal ☑ Below Normal ☐

Other Reference Reviewed:

Determination: Seasonal High Water Table

	STAKE #5	STAKE #6
☑ Depth observed standing in observation hole _____ inches	159"	122"
☑ Depth weeping from side of observation hole _____ inches	108"	106"
☑ Depth to soil mottles _____ inches	48"	42"
☐ 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 feed 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 _____

MAP 3-B PARCEL 20+80
PLUS MAP 3-A PARCEL 78

FORM 12: Percolation Test
Location Adrress or Lot # HASKINS VIEW
RASKEVITZ SITE E Leverett Rd
Commonwealth of Massachusetts
Town of AMHERST

STAKE 5 STAKE 6

PERCOLATION TEST *		
DATE: 9/20/05	TIME:	
Observation Hole #	(1)	(2)
Depth of Perc	42"	44"
Start Pre-soak	12:00 PM	12:06 PM
End Pre-soak	12:15 PM	12:21 PM
Time at 12"	12:15 PM	12:21 PM
Time at 9"	12:24 PM	~~12:24~~ 12:32 PM
Time at 6"	12:37 PM	12:50 PM
Time (9"-6")	13 MIN	18 MIN.
Rate Min./Inch	DESIGN TO 5 MIN/IN 4.33	6 DESIGN FOR 8 MIN/INCH

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

Site Passed ☑ Site failed ☐

Performed by WILLIAM SIEKIERKA

Witnessed by William Siekierka TOM DIDIA DAVE ZAROZINSKI

Comments:

EAST Leverett Rd

STAKE #5

On-Site Review

Deep Hole Number (1) Date: 9/20/05 Time 12:00 PM
Weather CLOUDY RAINY
Location (identify on site plan) _____
Land Use FOREST Slope (%) 0
Surface Stone SOME
Vegetation:
WOODED

Landform:
DRUMLIN

Position on Landscape (sketch on back) _____
Distances from:
Open Water Body 100'+ feet Drainageway 100'+ feet
Possible Wet Ares 100'+ feet Property Line _____ feet TO BE SET
Drinking Water Well NO feet Other _____
WELLS ON SITE

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-8"	A	~~10YR 2-2~~ S/L	10YR 2-2		FRIABLE
8-19	Bw	~~10YR 5-6~~ S/L	10YR 5-6		10%
19-159	C1	~~2.5Y 4-4~~ S/L	2.5Y 4-4	MOTTLING AT 48" 10YR 5-8 10YR 6-1	GRAVEL FEW STONES FEW COBBLES MASSIVE

Parent Material (geologic) _____
Depth to Bedrock DNA
Depth to Groundwater :
Standing Water in the Hole 159"
Weeping from Pit Face 108"
Estimated Seasonal High Water 48"

STAKE #6 Hasting Creek E. Everett Rd

On-Site Review

Deep Hole Number (2) Date: 9/20/05 Time 12:06 PM
Weather CLOUDY RAINY
Location (identify on site plan) _____
Land Use FOREST Slope (%) 0
Surface Stone SOME
Vegetation:
WOODED

Landform:
DRUMLIN

Position on Landscape (sketch on back) _____
Distances from:
Open Water Body 100'+ feet Drainageway 100'+ feet
Possible Wet Ares 100'+ feet Property Line _____ feet TO BE SET
Drinking Water Well NO feet Other _____
WELLS ON SITE

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-10"	A	S/L	10YR 2-2		FRIABLE
10-22"	Bw	S/L	10YR 5-6		10% GRAVEL
22-133"	C1	SL	2.5Y 4-4	MOTTLING AT 42" 10YR 5-8 10YR 6-1	FEW STONES FEW COBBLES MASSIVE

Parent Material (geologic) _____
Depth to Bedrock DNA
Depth to Groundwater :
Standing Water in the Hole 122"
Weeping from Pit Face 106"
Estimated Seasonal High Water 42"

FORM 11: Soil Evaluation Form NO: HASKINS View

LOT 11 Perc Test Fee 250.00 ilk Per Lot

Commonwealth of Massachusetts
Town of AMHERST

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: William Sieburth Date: 9/20/05
Witnessed By: _____

Location Address of: RASHEVITZ SITE
Lot # EAST Leverett Rd
Owner's Name: Barry Roberts
Address of: C/O Roberts Builders Inc 646 West St
Telephone: 253-7772
New Construction ☑ Repair ☐

Office Review

Published Soil Survey Available? No ☐ Yes ☑
Year Published _____ Publication Scale _____ Soil Map Unit _____
Drainage Class _____ Soil Limitations _____

Surficial Geologic Report Available? No ☐ Yes ☐
Year Published _____ Publication Scale _____
Geologic Material (map unit) _____
Landform _____

Flood Insurance Rate Map:
Above 500 year flood boundary? No ☐ Yes ☑
Within 500 year flood boundary? No ☑ Yes ☐
Within 100 year flood boundary? No ☑ Yes ☐

Wetland Area:
National Wetland Inventory Map (map unit) _____
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): month _____
Range: Above Normal ☐ Normal ☑ Below Normal ☐

Other Reference Reviewed:

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 feed 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 _____

STAKE #8

On-Site Review

Deep Hole Number (1) Date: 9/20/05 Time _____
Weather CLOUDY RAINY
Location (identify on site plan) _____
Land Use _____ Slope (%) 3%
Surface Stone FEW
Vegetation:
WOODED

Landform:
DRUMLIN

Position on Landscape (sketch on back) _____
Distances from:
Open Water Body 400+ feet Drainageway _____ feet
Possible Wet Ares 400+ feet Property Line _____ feet
Drinking Water Well _____ feet Other _____

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-12	A	S/L	10YR 4-2		FRIABLE
12-18"	Bw	S/L	10YR 5-6		
18-96"	C_1	S/L	10YR 6-3	MOTTLING AT 96"	5% GRAVEL FEW COBBLES FEW STONES
96-154"	C_2	S/L	10YR 6-4		MASSIVE

Parent Material (geologic) GLACIAL TILL
Depth to Bedrock DNA
Depth to Groundwater :
Standing Water in the Hole _____
Weeping from Pit Face _____
Estimated Seasonal High Water 96"

HASKINS Used
STAKE #7 E Everett Rd

On-Site Review

Deep Hole Number (2) Date: 9/20/05 Time _____
Weather CLOUDY RAINY
Location (identify on site plan) _____
Land Use _____ Slope (%) 3%
Surface Stone FEW
Vegetation:
WOODED

Landform:
DRUMLIN

Position on Landscape (sketch on back) _____
Distances from:
Open Water Body 400+ feet Drainageway _____ feet
Possible Wet Ares 400+ feet Property Line _____ feet
Drinking Water Well _____ feet Other _____

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-10	A	S/L	10YR 4-2		FRIABLE
10-21	Bw	S/L	10YR 5-6		5% GRAVEL
21-144"	C_1	S/L	10YR 6-3	MOTTLING AT 110"	FEW COBBLES FEW STONES MASSIVE

Parent Material (geologic) GLACIAL TILL
Depth to Bedrock DNA
Depth to Groundwater :
Standing Water in the Hole _____
Weeping from Pit Face _____
Estimated Seasonal High Water 110"

MAP 3-B PARCEL 20+80
PLUS MAP 3-A PARCEL 78

FORM 12: Percolation Test
Location Adrress or Lot # HASKINS VIEW
RASKEVITZ SITE E Leverett Rd
Commonwealth of Massachusetts
Town of AMHERST

STAKE 8 STAKE 7

PERCOLATION TEST *		
DATE: 9/20/05	TIME:	
Observation Hole #	(1) HOLE 8	(2) HOLE 7
Depth of Perc	46"	46"
Start Pre-soak	12:55	12:58
End Pre-soak	1:10 PM	1:14
Time at 12"	1:10 PM	1:14
Time at 9"	1:23	1:25
Time at 6"	1:42	1:38
Time (9"-6")	19 MIN	13 MIN
Rate Min./Inch	8 MIN/INCH	5 MIN/INCH

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

Site Passed ☑ Site failed ☐

Performed by WILLIAM SIERUTA

Witnessed by WILLIAM SIERUTA TOM DIXON

Comments: DAVE ZAROZINSKI

EAST Leverett Rd

42
23
19

FORM K

RECEIPT FOR SUBDIVISION PLAN

Board of Health
Amherst, Massachusetts

RECEIVED FROM Haskins View L.L.C.

____One Print of a Preliminary Subdivision Plan Map

__x__One Print of a Definitive Subdivision Plan Map

__x__One Copy of a Development Impact Statement

FOR A SUBDIVISION ENTITLED Haskins View

application for approval for which has been made to the Amherst Planning Board, and for which prior approval is required of the Amherst Board of Health.

For Amherst Board of Health

March 20, 2006
Date

Amherst Planning Board
Form K

March 20, 06
549-3800

DEVELOPMENT IMPACT STATEMENT

NAME OF PROJECT : "Haskins View"

TYPE OF PROJECT : Single Family Residential Subdivision

LOCATION : East Leverett Road near the Shutesbury/Amherst Town Line

PARCEL NUMBER : Cadastre Map 3-B, Parcels 20 and 80 plus a portion of Map 3-A, Parcel 78

ZONING DISTRICT : R-O Outlying Residence

ACREAGE : 52.58 ± Acres

OWNERS : Haskins View, L.L.C.
c/o Barry Roberts
P. O. Box 678
Amherst, MA 01004

LAND PLANNERS
CIVIL ENGINEERS : Garrity & Tripp
P. O. Box 610
Hadley, MA 01035

1. PROJECT DESCRIPTION :

A. Number of Units =

Affordable	_____
Single Family	27
Duplex	_____
Apartments	_____
Other	_____
TOTAL	27

B. Ownership =

Condominium	_____
Rental	_____
Private	27
TOTAL	27

C. Number of Bedrooms = Row Houses ____ Apartments ____

D. Approximate Price/Unit = Private _____ Condominium ____
Rental _____

II. CIRCULATION SYSTEMS

A. Street Design :

The subdivision roadways consist of approximately 5505 L.F. of standard 24' and 22' wide roadway including one 650 L.F. cul-de-sac. The roadways will be centered in a 50' right of way; the geometry will be in compliance with the current Town of Amherst Subdivision Regulations.

B. Street Classification :

Minor, in accordance with the Town of Amherst street classification system. The projected vehicle traffic flow is 122 (4.5 VTD x27) vehicle trips per average day with an estimated maximum of 54 vehicle trips at peak hour.

C. Parking and Bus Stops :

Each single family dwelling will include an enclosed garage and driveway storage space. P.V.T.A. bus service is not available on East Leverett Road at this locus.

D. Pedestrian Bicycle Circulation :

Pedestrian and bicycle circulation will be within the roadway right-of-way. A sidewalk is not proposed due to the nature of the area. Off - road walking paths will be possible on the open space parcels.

III. SUPPORTING SYSTEMS

A. Water Distribution :

Municipal water service is not available at this site. Individual private wells will be utilized.

B. Sanitary Sewage Disposal :

Municipal sanitary sewage is not available at this site. Individual private on - site disposal works in accordance with Title 5 of the State Sanitary Code will be utilized.

C. Storm Drainage :

The proposed storm drain system will consist of tandem catch basins placed at 300' spacing in accordance with the Town of Amherst Subdivision Regulations, at low points on the roadway and on the cul-de-sac; and emptying into detention basins pre-cast concrete recharge chambers equipped with "fail safe" overflows to abutting woodlands or wetland areas.

Wetland resource areas exist on this site at the lower elevations on the site adjacent East Leverett Road. A storm water management report with the appropriate drainage calculations will be submitted with the definitive subdivision plan(s) filing.

D. Refuse Disposal :

Solid waste disposal will be by private commercial contractor or Individual collection and transport to the Town of Amherst Solid Waste Transfer Station.

E. Street Lighting :

Lighting will be standard residential street lighting fixtures as utilized and maintained by the Town of Amherst D.P.W.

F. Fire Protection :

No fuel or hazardous substances will be stored on the site or the resulting residential lots. The site is approximately 4.0 miles from the North Amherst Fire Station at the corner of East Pleasant Street and Tillson Farm Road.

G. Recreation :

Public recreation facilities are located at the Mill River Recreation Area. Due to the size and character of the development, no active recreation facilities are proposed except those that will exist on each residential lot. Hiking trails and a modest children's play area are possible.

H. Schools :

The projected student population for the development is :

K - 6 = seventeen (18) students
Grades 7 - 12 = seventeen (18) students

IV. NATURAL CONDITIONS

A. Topography :

Generally, the majority of the site is a moderately high bluff west of East Leverett Road overlooking Cushman Brook. The topography shown was prepared by the Town in 1999 and updated in 2004 using aerial photogrammetric techniques for the GIS system. The datum is N.A.V.D.

B. Soils :

Soils on the site include :

CoE - Charlton and Gloucester Very stony fine sandy loams	steep
GhB - Gloucester stony fine sandy loam	3-8% slopes
GhC - Gloucester stony fine sandy loam	8-15% slopes
GxB - Gloucester very stony fine sandy loam	3-8% slopes
GxC - Gloucester very stony fine sandy loam	8-15% slopes
HfC - Haven very fine sandy loam	8-20% slopes
Rm - Rippowam fine sandy loam Hydric Soil	nearly level

C. Mineral Resources :

None previously reported or observed on site.

D. Surficial Geology :

Fine sand and gravel, no evidence of bedrock or hardpan.

E. Depth to Water Table :

Test holes performed to 10'-12' on the site in January in the apparent buildable areas of the site were not deep enough to determine depth to water table.

F. Aquifer Recharge Areas :

The site is not within a designated recharge protection zone.

G. Wetlands :

Wetland resources have been identified on the site or immediately abutting the site.

H. Water Courses :

Water courses exist on the site or within 200 feet of the site.

I. Flood Prone Areas :

None reported for the site on FEMA flood maps.

J. Vegetative Cover :

The vegetative cover as indicated on the 1971 Land Use and Vegetative Cover Mapping prepared by McConnell et al, indicated the site to have a mixture of softwoods and hardwoods with the hardwoods predominating on the majority of the site.

K. Unique Wildlife Habitats :

No known or observed unique wildlife habitats. No identified unique wildlife habitats in the latest edition of the Massachusetts Natural Heritage Atlas, 2000-2001 Edition.

L. Unique Flora :

No known or observed unique flora.

V. DESIGN FACTORS :

A. Being a predominantly wooded site, the existing visual quality of the site is good. Existing evergreen vegetation will provide screening, and the west edge of the site will afford some long westerly views. Limited views easterly to Cushman Brook may be available during leaf - off periods.

B. Internal views will be to the wooded buffers which will remain between lots and the abutting parcels.

C. Historic Structures - None

D. Architecturally Significant Structures - None

E. The type of architecture anticipated to be built in the development is single family detached homes of contemporary and/or traditional early American design.

VI . ENVIRONMENTAL IMPACT :

A. Measures Taken to Prevent Surface Water Contamination :

The site storm drainage system will not outfall to a surface water source, but will recharge to the site soil system. Catch basins will be equipped with gas trap hoods, four foot sumps and "storm - ceptor" units and detention basins will be utilized throughout the storm water system for silt and debris removal.

B. Measures Taken to Prevent Groundwater Contamination :

As noted, the site is not within a designated aquifer recharge protection zone. The "non peak" site storm water is planned to be fully recharged to the ground water system. The catch basins will have 4' sumps, gas trap hoods and will outfall to recharge chambers which will have overflows to natural filtering systems in the wetland resource areas on site. The method of sanitary sewerage disposal will be via Title 5 compliant private on site waste disposal systems. Ref. also item A, above.

C. Measures Taken to Maximize Groundwater Recharge :

As noted, the storm water runoff from the roadway and those driveways that slope toward the road will be managed in a system that will recharge all that runoff to the groundwater system. In addition, site design will include minimizing impervious surfaces and grading the home sites to provide a maximum of groundwater recharge.

D. Measures Taken to Prevent Air Pollution :

Other than state of the art low emission heating systems, no measures are incorporated in the site planning which can be directly related to a possible reduction in air pollution.

E. Measures Taken to Prevent Erosion and Sedimentation :

During construction, and as final soil stabilization, anti-siltation/erosion techniques will be utilized on all disturbed areas in accordance with the specifications in : "Guidelines for Soil and Water Conservation in Urbanizing Areas of Massachusetts", USDA Soil Conservation Service, Amherst, MA April, 1975. Final treatment will include mulching, rip rap, and loaming and seeding.

F. Measures Taken to Maintain Slope Stability :

Limiting the area to be disturbed during construction will protect slope stability. Temporary measures to protect disturbed slopes will include mulching and temporary netting; permanent stabilization techniques will include loaming and seeding, mulching, wild flower seeding, and shrub/tree planting.

G. Measures Taken to Reduce Noise Levels :

No unusual noise sources will exist on the site.

H. Measures Taken to Preserve Significant Views :

Development of the site will not reduce or obliterate significant views for the surrounding parcels. Within the limitations of the site, the

individual homes will be sited to maximize scenic vistas for the unit and its neighbors.

I. Measures Taken to Conserve Energy :

Energy conserving appliances are anticipated as a cost saving measure. In addition, the shape and position of the parcel provides for optimizing southern solar exposure for both active and passive solar gain.

J. Measures Taken to Preserve Wildlife Habitat :

Although unique wildlife habitats do not exist on site, the creation of large lots with woodland buffers between lots will help preserve habitat.

K. Measures Taken to Ensure Compatibility with Surrounding Land Uses :

The proposed single family, low density development will be compatibile with the surrounding neighborhoods in architectural appearance and land use character.

VII . PLANS :

A. Village Concept and Village Plans :

The proposed development is compatible with the existing zoning by-laws and zoning for the land.

B. Conservation Master Plan :

The proposed development is in compliance with the Conservation Master Plan by conserving wetland and agricultural areas.

C. Regional Plans :

The proposed development is consistent with the regional land use plans of the Pioneer Valley Regional Planning Commission.

VIII . PHASING OF CONSTRUCTION :

Roadway construction phasing is not planned. The phasing of Home construction will be in accordance with the Development Schedule, Section 14 of the Town of Amherst Zoning Regulations.

For a development of 27 lots IAW Sections 14.3 and 14.47

Year one - 10 homes

Year two - 10 homes

Year three - 7 homes

FORM 11: Soil Evaluation Form NO: HASKINS View

LOT 23 Perc Test Fee 250.00 Per Lot #

Commonwealth of Massachusetts
Town of: AMHERST

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: William Stewart Date: 9/20/05
Witnessed By: Tom Dion / Dave Zmarzinski

Location Address of: RASHEVITZ SITE
Lot # EAST Leverett Rd

Owner's Name: Barry Roberts
Address of: C/O Roberts Building Inc
646 West St
Telephone: 253-7772

New Construction ☑ Repair ☐

Office Review

Published Soil Survey Available? No ☐ Yes ☑
Year Published _____ Publication Scale _____ Soil Map Unit _____
Drainage Class _____ Soil Limitations _____

Surficial Geologic Report Available? No ☐ Yes ☐
Year Published _____ Publication Scale _____
Geologic Material (map unit) _____
Landform _____

Flood Insurance Rate Map:
Above 500 year flood boundary? No ☐ Yes ☑
Within 500 year flood boundary? No ☑ Yes ☐
Within 100 year flood boundary? No ☑ Yes ☐

Wetland Area:
National Wetland Inventory Map (map unit) _____
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): month _____
Range: Above Normal ☐ Normal ☑ Below Normal ☐

Other Reference Reviewed:

Determination: Seasonal High Water Table

Methods Used:

	TP3	TP4
☑ Depth observed standing in observation hole NONE inches	DRY	DRY
☑ Depth weeping from side of observation hole NONE inches	DRY	DRY
☑ Depth to soil mottles 108 inches →	98	108
☐ 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 feed of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? YES

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 9/20/05

TP 3
STAKE 3

On-Site Review

Deep Hole Number (1) Date: 9/20/05 Time 10:25
Weather CLOUDY RAINY
Location (identify on site plan) /
Land Use PASTURE Slope (%) 1
Surface Stone ~~NONE~~ SOME
Vegetation: GRASSES / PASTURE

Landform: DRUMLIN

Position on Landscape (sketch on back)
Distances from:
Open Water Body 100+ feet
Possible Wet Ares 100+ feet
Drinking Water Well ~~NONE~~ feet
Drainageway 100+ feet
Property Line 50' feet
Other

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-7	Ap	S/L	10YR 4-4	NONE	FRIABLE
7-19	Bw	S/L	10YR 5-6	NONE	
19-149	C1	~~10YR~~ S/L	2.5Y 4-4	OXIDES AT ~~98~~"	10% GRAVEL FEW COBLES FEW BOLDERS MASSIVE

Parent Material (geologic) GLACIL TILL
Depth to Bedrock ~~149~~" DNA
Depth to Groundwater :
Standing Water in the Hole NONE DRY
Weeping from Pit Face NONE
Estimated Seasonal High Water ~~98~~"

~~OXIDES AT 63"~~

TP 4
STAKE 4

HASKINS VIEW
& Everett Rd.

On-Site Review

Deep Hole Number (2) Date: 9/20/05 Time 10:30
Weather CLOUDY RAINY
Location (identify on site plan)
Land Use PASTURE Slope (%) 1
Surface Stone ~~NONE~~ SOME
Vegetation: GRASSES / PASTURE

Landform: DRUMLIN

Position on Landscape (sketch on back)
Distances from:
Open Water Body 100+ feet
Possible Wet Ares 100+ feet
Drinking Water Well NONE feet
Drainageway 100+ feet
Property Line 50' feet
Other

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-10	Ap	S/L	10YR 4-4		FRIABLE
10-17	Bw	S/L	10YR 5-6	MOTTLES 108" 10YR 5-8 10YR 6-1	10% GRAVEL
17-145	C1	S/L	2.5Y 4-4		FEW COBBLES FEW BOULDERS MASSIVE

Parent Material (geologic) GLACIL TILL
Depth to Bedrock ~~145~~" DNA
Depth to Groundwater :
Standing Water in the Hole NONE DRY
Weeping from Pit Face NONE
Estimated Seasonal High Water 108"

MAP 3-B PARCEL 20+80
PLUS MAP 3-A PARCEL 78

FORM 12: Percolation Test
Location Address or Lot # HASKINS VIEW
RASKEVITZ SITE E Leverett Rd
Commonwealth of Massachusetts
Town of AMHERST

PERCOLATION TEST *	STAKE 3	STAKE 4
DATE: 9/20/05 TIME: 10:25		
Observation Hole # STAKE #3	(1)	(2)
Depth of Perc	42"	42"
Start Pre-soak	10:25	10:30
End Pre-soak	10:42	10:48
Time at 12" 11"	10:42	10:48
Time at 9" 8"	10:49	11:20
Time at 6" 5"	11:19	11:54
Time (9"-6")	30"	34
Rate Min./Inch	~~10~~ N/A MIN/INCH ~~N/A~~	DESIGN FOR 15 MIN/INCH

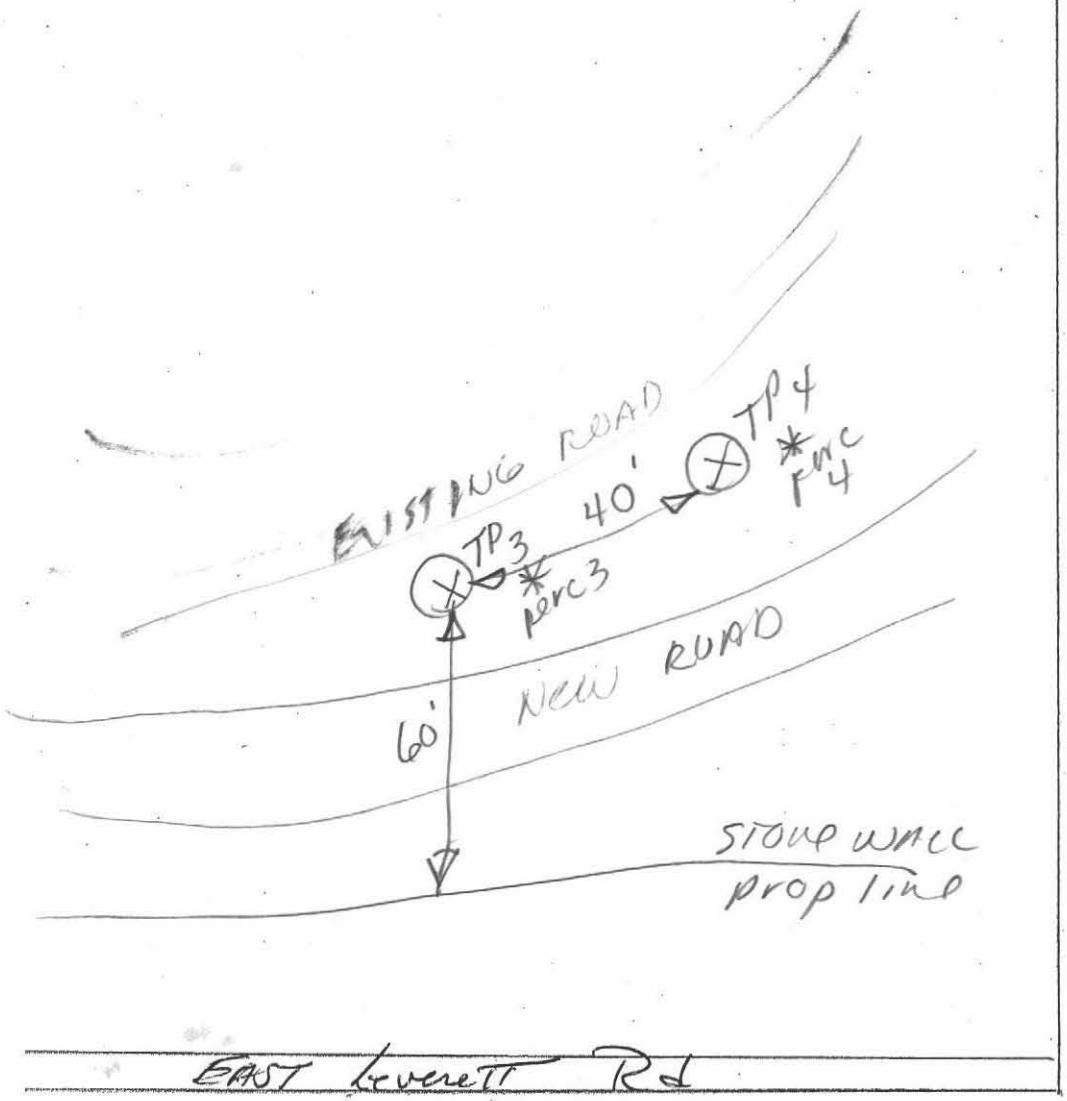
*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed ☑ Site failed ☐

Performed by WILLIAM SIKUTA

Witnessed by ~~William~~ SIKUTA TOM O'Brien

Comments:



LOT 18 Perc Test Fee 250.00 Per Lot

FORM 11: Soil Evaluation Form NO: HASKINS View

Commonwealth of Massachusetts
Town of: AMHERST

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: William Sieburth Date: 9/20/05
Witnessed By: _____

Location Address of: RASHEVITZ SITE
Lot # EAST Leverett Rd
Owner's Name: Barry Roberts
Address of: C/O Roberts Building Inc 646 West St
Telephone: 253-7772
New Construction ☑ Repair ☐

Office Review

Published Soil Survey Available? No ☐ Yes ☑
Year Published _____ Publication Scale _____ Soil Map Unit _____
Drainage Class _____ Soil Limitations _____

Surficial Geologic Report Available? No ☐ Yes ☐
Year Published _____ Publication Scale _____
Geologic Material (map unit) _____
Landform _____

Flood Insurance Rate Map:
Above 500 year flood boundary? No ☐ Yes ☐
Within 500 year flood boundary? No ☐ Yes ☐
Within 100 year flood boundary? No ☐ Yes ☐

Wetland Area:
National Wetland Inventory Map (map unit) _____
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): month _____
Range: Above Normal ☐ Normal ☑ Below Normal ☐

Other Reference Reviewed:

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 feed 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 _____

STAKE 9

On-Site Review

Deep Hole Number (1) Date: 9/20/05 Time 1:52 PM
Weather CLOUDY, RAINY
Location (identify on site plan) _____
Land Use _____ Slope (%) 4
Surface Stone FEW
Vegetation:
WOODED

Landform:

Position on Landscape (sketch on back) _____
Distances from:
Open Water Body 400+ feet Drainageway _____ feet
Possible Wet Ares 400+ feet Property Line _____ feet
Drinking Water Well _____ feet Other _____

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-6	A	~~10YR 4-3~~ S/L	10YR 4-3		FRIABLE
6-21	Bw	10YR ~~5-6~~ S/L	10YR 5-6		20% GRAVEL
21-152"	C1	10YR ~~6-2~~ S/L	10YR 6-2		5% COBBLES MASSIVE FEW STONES

Parent Material (geologic) _____
Depth to Bedrock _____
Depth to Groundwater :
Standing Water in the Hole _____
Weeping from Pit Face _____
Estimated Seasonal High Water _____

STAKE 10 Hosking View & Everett Rd

On-Site Review

Deep Hole Number (2) Date: 9/20/05 Time 1:50
Weather CLOUDY RAINY
Location (identify on site plan) _____
Land Use _____ Slope (%) 4
Surface Stone FEW
Vegetation:
WOODED

Landform:

Position on Landscape (sketch on back) _____
Distances from:
Open Water Body 400+ feet Drainageway _____ feet
Possible Wet Ares 400+ feet Property Line _____ feet
Drinking Water Well _____ feet Other _____

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-8"	A	S/L	10YR 4-3		FRIABLE
8-24"	Bw	S/L	10YR 5-6		20% GRAVEL 5% COBBLES
24-156	C1	S/L	10YR 6-2		MASSIVE FEW STONES

Parent Material (geologic) _____
Depth to Bedrock _____
Depth to Groundwater :
Standing Water in the Hole _____
Weeping from Pit Face _____
Estimated Seasonal High Water _____

MAP 3-B PARCEL 20+80
PLUS MAP 3-A PARCEL 78

FORM 12: Percolation Test
Location Adrress or Lot # HASKINS VIEW
RASKEVITZ SITE E Leverett Rd
Commonwealth of Massachusetts
Town of AMHERST

STAKE 9 STAKE 10

PERCOLATION TEST * DATE: 9/20/05 TIME:		
Observation Hole #	(1)	(2)
Depth of Perc	54" ~~52"~~ *	52"
Start Pre-soak	1:52 *	1:50
End Pre-soak	2:07	2:05
Time at 12"	2:07	2:05
Time at 9"	2:18	2:17
Time at 6"	2:32	2:36
Time (9"-6")	14'	19 MIN
Rate Min./Inch	5.0 MIN/INCH	6.33 8 MIN/INCH

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

Site Passed ☑ Site failed ☐

Performed by WILLIAM SIERVTA

Witnessed by William Sieurta TOM DION

Comments: DAVE BAROZINSKI

EAST Leverett Rd

LOT 23
18

CM
CC

No. _____ DRAINAGE SYSTEM Date: 9/19/05

Commonwealth of Massachusetts
, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM SIEKUTT PE EVAC Date: 9/19/05
Witnessed By: ENGINEERING DEPT

Location Address of Lot: BARRY ROBERTS EAST LEVERETT RD AMHERST MASS	Owner's Name, Address, and Telephone #: BARRY ROBERTS BAY ROAD AMHERST MA

New Construction ☒ Repair ☐

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published ..... Publication Scale ..... Soil Map Unit

Drainage Class ..... Soil Limitations .....

Surficial Geologic Report Available: No ☐ Yes ☑

Year Published ..... Publication Scale .....

Geologic Material (Map Unit) .....

Landform .....

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☑ Yes ☐

Within 100 year flood boundary No ☑ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit) .....

Wetlands Conservancy Program Map (map unit) .....

Current Water Resource Conditions (USGS): Month _____

Range :Above Normal ☐ Normal ☑ Below Normal ☐

Other References Reviewed: _____

FORM 11 - SOIL EVALUATOR FORM
Page 2 of 3

Location Address or Lot No. DRAINAGE SYSTEM
DTH2

On-site Review

TP1-2

Deep Hole Number ___ Date: 9/19/05 Time: 830 Weather SUNNY
Location (identify on site plan) SUBDIVISION COOL
Land Use RESIDENTIAL Slope (%) 3 Surface Stones SOME NOTED
Vegetation PASTURE LAND
Landform DRUMLIN
Position on landscape (sketch on the back)
Distances from:
Open Water Body 300'+ feet Drainage way DNA feet
Possible Wet Area 300'+ feet Property Line ___ feet SEE SUB DIVISION PLAN
Drinking Water Well ___ feet Other ___
NONE WELLS

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	AP	SL	10YR 4-2		
12-21	BW	SL	10YR 5-2		
21-152	C1	SL TO LOAMY SAND	10YR 4-4		10% gravel 10% cobbles Few stones & Boulders LOOSE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH Depth to Bedrock: DRY
Depth to Groundwater: Standing Water in the Hole: NONE Weeping from Pit Face: NONE
Estimated Seasonal High Ground Water: —
EHWT 103

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. DRAINAGE SYSTEM
DTH2

On-site Review

TP1-1

Deep Hole Number ___ Date: 9/19/05 Time: 830 Weather SUNNY COOL
Location (identify on site plan) SUB DIVISION
Land Use RESIDENTIAL Slope (%) 3% Surface Stones SOME NOTED
Vegetation PASTURE
Landform DRUMLIN
Position on landscape (sketch on the back)
Distances from:
Open Water Body 300' feet Drainage way D.NA feet
Possible Wet Area 300' feet Property Line ___ feet
Drinking Water Well ___ feet Other ___
NONE ON SITE

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	AP	SL	10YR 4-2		
12-18	BW	SL	10YR 5-3	NO MOTTLING	10% gravel
18-147	C1	SL	10YR 6-3	EHWT 147 ±	10% cobbles MASSIVE FRIABLE LOOSE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH Depth to Bedrock: DRY
Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: —
Estimated Seasonal High Ground Water: —
EHWT 147"

DEP APPROVED FORM - 12/07/95

X
Cover Berm X

FORM 11 - SOIL EVALUATOR FORM
Page 2 of 3

Location Address or Lot No. DRAINAGE

On-site Review

Deep Hole Number DTH 3 Date: 9/19/05 Time: 900 Weather sunny Cool
Location (identify on site plan)
Land Use Slope (%) Surface Stones some
Vegetation wooded area
Landform drumlin
Position on landscape (sketch on the back)
Distances from:
Open Water Body 200' feet Drainage way DNA feet
Possible Wet Area 100 feet Property Line feet see plans
Drinking Water Well feet Other
DNA

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0 8	Ap	SL	10YR 4-2		
8-14	Bw	SL	10YR 5-2	10YR 5-8	15% gravel 10% cobbles
14-				10YR	Few
14-	C1	L/S	10YR 4-4	6-1 50"	Stones & Boulders
120					

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH till Depth to Bedrock: DNA
Depth to Groundwater: Standing Water in the Hole: 72 Weeping from Pit Face: 72
Estimated Seasonal High Ground Water: 10YR 5-8 50" MOIST

DEP APPROVED FORM - 12/97/95

Page 2 o

Location Address or Lot No. DRAINAGE

On-site Review

Deep Hole Number DTH 4 Date: 9/19/05 Time: 900 Weather sunny Cool
Location (identify on site plan)
Land Use Residential Slope (%) 10 Surface Stones some noted
Vegetation wooded area
Landform drumlin
Position on landscape (sketch on the back)
Distances from:
Open Water Body 200' + feet Drainage way DNA feet
Possible Wet Area 200 feet Property Line feet
Drinking Water Well feet Other
NONE ON LAND NOAD WITHIN 200'

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	Ap	SL	10YR 4-3		
8-15	Bw	SL	10YR 5-3	10YR 5-8	10% gravel 5% cobbles
15-90	C1	SL	10YR 6-3	10YR 6-1 50"	MASSIVE FRIABLE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH till Depth to Bedrock: 90
Depth to Groundwater: Standing Water in the Hole: 88 Weeping from Pit Face: 90
Estimated Seasonal High Ground Water: 2 Holes MOIST 50"

DEP APPROVED FORM - 12/97/95

FORM 11 - SOIL EVALUATOR FORM
Page 2 of 3

Location Address or Lot No. EAST CHESTNUT RD
Amherst MA

On-site Review

Deep Hole Number DTH5B Date: 9/19/05 Time: Weather Sunny Cool
Location (identify on site plan)
Land Use Residential Slope (%) 3 Surface Stones some rocks
Vegetation pasture/wooded
Landform drumlin
Position on landscape (sketch on the back)
Distances from:
Open Water Body 200' + feet Drainage way DNA feet
Possible Wet Area 200' + feet Property Line feet see plan
Drinking Water Well feet Other
200' +

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	AP	S/L	10yr 4-2		
12-22	Bw	S/L	10yr 5-4	10yr 5-8	10% gravel Cobbles & Stone
22-137	C1	S/L	2.5 4 5-2	10yr 10-1 120"	massive FRIABLE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glacial Till Depth to Bedrock: DNA
Depth to Groundwater: Standing Water in the Hole: — Weeping from Pit Face: 137
Estimated Seasonal High Ground Water:
EMET 120

DEP APPROVED FORM - 12/07/95

Page 2 o

Location Address or Lot No. EAST CHESTNUT RD
Amherst MA

On-site Review

Deep Hole Number DTH6 Date: 9/19/05 Time: Weather Sunny Cool
Location (identify on site plan)
Land Use Residential Slope (%) 0 Surface Stones some rocks
Vegetation WOOD
Landform drumlin
Position on landscape (sketch on the back)
Distances from: 200'+
Open Water Body feet Drainage way DNA feet
Possible Wet Area 200'+ feet Property Line feet
Drinking Water Well feet Other
200'+ none on site

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	AP	S/L	10yr 4-2		
12-22	Bw	S/L	10yr 6-6	10yr 5-8	10% gravel
22-140	C1	S/L	2.5 4 5-2	10yr 10-1 80"	cobbles few stone massive FRIABLE Bloc

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Colluvial Till Depth to Bedrock: DNA
Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY
Estimated Seasonal High Ground Water:
80" EMET

DEP APPROVED FORM - 12/07/95

FORM 11 - SOIL EVALUATOR FORM
Page 2 of 3

Location Address or Lot No. EAST CREMORETT RD
COLORADO

On-site Review

DTH7 9/19/05

Deep Hole Number DTH7 Date: 9/19/05 Time: Weather SUNNY COOL
Location (identify on site plan)
Land Use RESIDENTIAL Slope (%) 3 Surface Stones MANY WOLED
Vegetation WOODED
Landform BROWLAND
Position on landscape (sketch on the back)
Distances from:
Open Water Body 200'+ feet Drainage way DNR feet
Possible Wet Area 200'+ feet Property Line feet
Drinking Water Well feet Other
NONE WITHIN 200' NONE ONSITE

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	A1	SL	10YR 4-2		
12-18	BW	SL	10YR 5-3	10YR 5-8	
18-130	C1	SL	10YR 6-4	40" 10YR 5-8 10YR 6-1 30"	VERY COMPACT TILL POOR DRAINAGE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH TERRACE Depth to Bedrock: DNA
Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY
Estimated Seasonal High Ground Water: EXIST 30"

AREA NOT SUITABLE FOR CREMATION BASIN
CEMENTED SOILS

DEP APPROVED FORM - 12/07/95

Page 2 o

Location Address or Lot No. EAST CREMORETT RD
BASE OF HILL @ END OF ENTRANCE

On-site Review

DTH8 9/19/05

Deep Hole Number DTH8 Date: 9/19/05 Time: — Weather SUNNY COOL
Location (identify on site plan)
Land Use RESIDENTIAL Slope (%) 4 Surface Stones MANY WOLED
Vegetation
Landform
Position on landscape (sketch on the back)
Distances from:
Open Water Body 200' feet Drainage way DNA feet
Possible Wet Area 200 feet Property Line 25 feet FRONT LOT
Drinking Water Well feet Other
NONE WITHIN 200'

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	AP	SL	10YR 4-3		
8-22	BW	LS	NA 10YR 5-4	NONE	WELL GRADED GRAVEL COURSE
22-120	C1	SAND GRAVEL	10YR 4-4		

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH TERRACE Depth to Bedrock: DNA
Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY
Estimated Seasonal High Ground Water: EXIST below 120

DEP APPROVED FORM - 12/07/95

FORM 12 - PERCOLATION TEST

Location Address or Lot No. BARRY Roberts EAST CHURCHETT RD

COMMONWEALTH OF MASSACHUSETTS

Amherst , Massachusetts

Percolation Test*		
Date: 9/19/05	Time: 9.30	
Observation Hole #	OTH1	OTH2
Depth of Perc		
Start Pre-soak		
End Pre-soak		
Time at 12"	RATE 3.0	DONE BY OTHERS
Time at 9"	MIN/INCH	
Time at 6"	by OTHERS	
Time (9"-6")	—	
Rate Min./Inch	Design rate 5.0	Design Rate 5.0

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

Site Passed ☐ Site Failed ☐

Performed By: _____

Witnessed By: _____

Comments: _____

DEP APPROVED FORM - 12/07/95

FORM 12 - PERCOLATION TEST

Location Address or Lot No. Barry Roberts EAST LEVERETT RD

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: 9/19/05	Time:	
Observation Hole #	TH04	TH03
Depth of Perc	60	50"
Start Pre-soak	1040 - NO SOAK	NOT DONE
End Pre-soak	1040	Hole Not
Time at 12"	1040	TO BE USED
Time at 9"	1050	move to
Time at 6"	1055 1107	uphill side
Time (9"-6")	17/3 = 5.33	—
Rate Min./Inch	17/6 3.0 min/inch	—

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

Site Passed ☐ Site Failed ☐

Performed By: William Sienuta PE & LSE

Witnessed By: Town Engr. Dept.

Comments:

DEP APPROVED FORM - 12/07/95

FORM 12 - PERCOLATION TEST

BARRY ROBERTS

Location Address or Lot No. EAST LAVERETT RD

15+39 COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: 9/19/05	Time:	
Observation Hole #	DTH 9B	DTH 6A
Depth of Perc	48"	48"
Start Pre-soak	NOT REQD	NOT REQD
End Pre-soak	11 40	12 26
Time at 12" "	11 40	12 26
Time at 9"	11 56	12 49
Time at 6"	12 07	1:18
Time (9"-6")	27/6 = 4.66	29/6 = 8.66
Rate Min./Inch	6.0 MIN/INCH	10.0 MIN/INCH

C

CLEAR TO

23/3 = 7.66

2

C

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

Site Passed ☑ Site Failed ☐

Performed By: WILLIAM SIEMION PE

Witnessed By: AMHERST ENGINEERING DEPT

Comments:

DEP APPROVED FORM - 12/07/95

FORM 12 - PERCOLATION TEST

Location Address or Lot No. Bonny Roberts
EAST LEVERETT RD

COMMONWEALTH OF MASSACHUSETTS

Amherst , Massachusetts

Percolation Test*		
Date:	Time:	
Observation Hole #	DTH 7	DTH 8
Depth of Perc	46	48"
Start Pre-soak	150 NO SOAK	237 NO SOAK
End Pre-soak	150	237
Time at 12"	150 220	237
Time at 9"	- 30/2	237
Time at 6"	stopped	
Time (9"-6")	- 30 MIN / 2 INCHES	10/6 = 1.66
Rate Min./Inch	15 MIN	2.0 MIN/INCH

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

Site Passed ☐ Site Failed ☐

Performed By: WILLIAM SIENKIEWICZ PE

Witnessed By: PWC Amherst Engineering Dept

Comments:

DEP APPROVED FORM - 12/07/95

Percolation Test

Test No. _____
Reading Time
Saturation (15 min)

Perc Rate _____ Min/inch
Ground Elev. _____
Depth of Hole _____

Test No. _____
Reading Time
Saturation (15 min)

Perc. Rate _____ Min/inch
Ground Elev. _____
Depth of Hole _____

Deep Test Pit/s DTH5B upper hole

Test Pit Depth	Soil Description
0-12	OTS CONST top soil
12-22	SILTY SAND SUB
22-137	Gravel fill HIGH % SAND

Groundwater Depth _____ Elev. _____
Bedrock Depth _____ Elev. _____
Ground Elev. EHWT

Deep Test Pit/s DTH6

Test Pit Depth	Soil Description
0-12	OTS TOP SOIL
12-22	SILTY SAND SUB Some GRAVEL fill Slightly M
22-140	FILL fill with Gravel stone & cobbles

Groundwater Depth — Elev. DRY
Bedrock Depth — Elev. DRY
Ground Elev. EHWT 80"

S.C.S. Soil Description _____ Seasonal High Water Table? NS Noted

Bench Mark: Elev. _____ Description mottling

COMMENTS:

Date: _____
Client: _____

Engineer: _____
Witness: _____
Location of Perc: _____

Location Address or Lot No. EAST LEVERETT RD
Amherst, MASS

Determination for Seasonal High Water Table

Method Used:

- ☑ Depth observed standing in observation hole ..... inches TEST PITS
- ☑ Depth weeping from side of observation hole ..... inches ATTACHED
- ☑ Depth to soil mottles ..... inches
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... , Index well level

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

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

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

Certification

I certify that on 5/95 (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 _____ Date 9/19/05

No. _____ Date: 9/20/05

Commonwealth of Massachusetts
, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: William Sinnuta PE Evac Date: 9/20/05
Witnessed By: D ZARRZEWSKI BOH

Location Address or Lot #	Owner's Name, Address, and Telephone #
EAST LEVERETT RD STAKES 5 - STAKE 6 LOT	BARRY ROBERTS BAY ROAD Amherst MASS

New Construction ☒ Repair ☐

Office Review EAST LEVERETT RD

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: _____

FORM 11 - SOIL EVALUATOR FORM
Page 2 of 3

Location Address or Lot No. LOT # EAST LAKEWOOD RD

On-site Review

Deep Hole Number STAKE 5 Date: 9/20 Time: _____ Weather CLOUDY RAIN
Location (identify on site plan) _____
Land Use RESIDENTIAL Slope (%) 3 Surface Stones SOME NOTED
Vegetation WOODED LOT
Landform ENUMUS
Position on landscape (sketch on the back) _____
Distances from:
Open Water Body DNA feet Drainage way DNA feet
Possible Wet Area DNA feet Property Line SEE PLAN feet
Drinking Water Well _____ feet Other _____
NO WELLS WITHIN 200'

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	A	10YR 2-2	S/L	S/L	
8-19	Bw	10YR 5-6	S/L	S/L MOIST	10% gravel
19 133	C1	2.5Y 4-4	S/L	S/L 10YR 5-8 10YR 6-1 EHWT 48	FEW COBBLES STONE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
Parent Material (geologic) TILL OUTWASH Depth to Bedrock: 159
Depth to Groundwater: Standing Water in the Hole: 102 Weeping from Pit Face: 108
Estimated Seasonal High Ground Water: EHWT 48

DEP APPROVED FORM - 12/07/95

Page 2 o

Location Address or Lot No. LOT # EAST LAKEWOOD RD

On-site Review

Deep Hole Number STAKE 6 Date: 9/20/05 Time: _____ Weather CLOUDY RAIN
Location (identify on site plan) _____
Land Use RESIDENTIAL Slope (%) 3 Surface Stones SOME NOTED
Vegetation WOODED LOT
Landform ENUMUS
Position on landscape (sketch on the back) _____
Distances from:
Open Water Body DNA feet Drainage way _____ feet
Possible Wet Area DNA feet Property Line SEE PLAN feet
Drinking Water Well _____ feet Other _____
NO WELLS WITHIN 200'

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	S/L	10YR 2-2		
10-22	Bw	S/L	10YR 5-6	10 5-4 5-8	10% gravel FEW COBBLES
159 22-133	C1	S/L	2.5Y 4-4	10YR 6-1 EHWT 42	

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
Parent Material (geologic) OUTWASH T.I.T Depth to Bedrock: 122
Depth to Groundwater: Standing Water in the Hole: 106 Weeping from Pit Face: 106
Estimated Seasonal High Ground Water: EHWT 42

DEP APPROVED FORM - 12/07/95

FORM 12 - PERCOLATION TEST

Location Address or Lot No. LOT Stakes 5 & Stakes 6

COMMONWEALTH OF MASSACHUSETTS

Amherst , Massachusetts

Percolation Test*		
Date: 9/20 '05	Time: 12 00	
Observation Hole #	TP5	TP6
Depth of Perc	42	44
Start Pre-soak	12 00	1206
End Pre-soak	1215	1221
Time at 12"	1215 9/3	1221
Time at 9"	1224	1232
Time at 6"	1237	1250
Time (9"-6")	13/3 4.33	18/3 6.0
Rate Min./Inch	Design Rate 5.0	Design Rate 6.0

CLASS II 5101

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

Site Passed ☑ Site Failed ☐

Performed By: William Sienuta PE #24

Witnessed By: T. Dion & D. Zmachinski

Comments:

DEP APPROVED FORM - 12/07/95

Percolation Test

Test No.	perc 5		Test No.	perc 6	
Reading	Time		Reading	Time	
Saturation (15 min)	1200	1215	Saturation (15 min)	1206	1221
12		1215	12		1221
11	9/3 = 3.0		11	11/3 = 3.66	
10		1224	10		1232
9			9		
8	13/3 = 4.33		8	18/3 = 6.0	1250
7		1237	7		
6			6		12
Perc Rate	5.0 Min/inch	design rate	Perc. Rate	8.0 Min/inch	design rate
Ground Elev.			Ground Elev.		
Depth of Hole	CLASS 1 SOIL		Depth of Hole	CLASS 2 SOIL	

Deep Test Pit/s TP

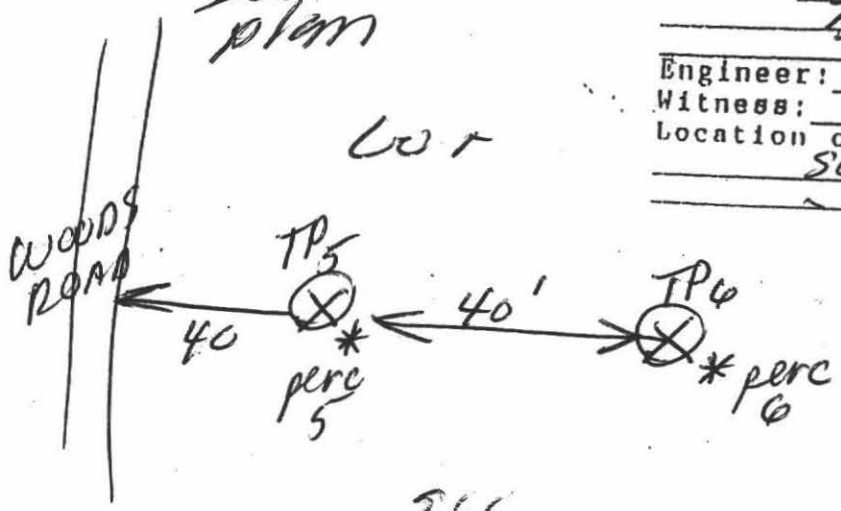
Test Pit	TP5		Test Pit		
Depth	Soil Description		Depth	Soil Description	
0-8	OIS LOAM		0-10	OIS LOAM	
8-19	SICKY SAND SUB		10-22	SICKY SAND SUB	
19-159	gravel till		22-133	gravel till	
Groundwater Depth	108 Elev.		Groundwater Depth	Elev.	
Bedrock Depth	Elev.		Bedrock Depth	Elev.	
Ground Elev.			Ground Elev.		

S.C.S. Soil Description TILL Seasonal High Water Table? As noted

Bench Mark: Elev. Description surveyors to locate

COMMENTS:

Date: 9/20/05
Client: Barry Roberts
BAY ROAD
Amherst NH
Engineer: DJ SIEWERT PE
Witness: D. ZINKIEWICZ
Location of Perc:
SUB DIVISION ROAD



Location Address or Lot No. _____

Determination for Seasonal High Water Table

Method Used:

- ☑ Depth observed standing in observation hole ..... inches TP5-1, TP6
- ☐ Depth weeping from side of observation hole ..... inches
- ☑ Depth to soil mottles ..... inches
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date . . . , Index well level

Adjustment factor ..... Adjusted ground water level ....

Depth of Naturally Occurring Pervious Material

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

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

Certification

I certify that on 5/95 (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 _____ Date 9/20/05

No. _____ Date: 9/20/05

Commonwealth of Massachusetts
, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM SIENUTA Date: 9/20/05
Witnessed By: DAVID ZARAZINSKI TOM DION

Location Address of Lot: BARRY ROBERTS LOT 26 EAST LEVERETT RD Amherst New Construction ☐ Repair ☐	Owner's Name, Address, and Telephone #: BARRY ROBERTS EAST LEVERETT RD Amherst MASS

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: _____

FORM 11 - SOIL EVALUATOR FORM
Page 2 of 3

Location Address or Lot No. LOT #26

STK 1 On-site Review

Deep Hole Number TP26-1 Date: 9/20/05 Time: 830 Weather CLOUDY RAIN

Location (identify on site plan)

Land Use RESIDENTIAL Slope (%) 3 Surface Stones SOME

Vegetation FIELD PASTURE

Landform

Position on landscape (sketch on the back)

Distances from:

Open Water Body 400' feet Drainage way DNA feet

Possible Wet Area 400' feet Property Line — feet TO BE SET

Drinking Water Well — feet Other

NONE WITHIN 200'

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	Ap	S/L	10YR 4-2		FRIABLE
8-18	Bw	S/L	10YR 5-3	10YR 5-8	10% gravel
18-64	C1	S/L	2.5Y 6-4	10YR 6-1	60% cobbles FEW stones & Boulders
64-120	C2	S/L	2.5Y 4-4	10YR 6-1	MASSIVE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH T.11 Depth to Bedrock: DNA

Depth to Groundwater: Standing Water in the Hole: Weeping from Pit Face: DRY

Estimated Seasonal High Ground Water: 110"

REMOVE

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. LOT #26

STK 2 On-site Review

Deep Hole Number TP26-2 Date: 9/20 Time: 830 Weather CLOUDY RAIN

Location (identify on site plan)

Land Use RESIDENTIAL Slope (%) 3 Surface Stones SOME

Vegetation FIELD

Landform DRUMLIN

Position on landscape (sketch on the back)

Distances from:

Open Water Body 400' feet Drainage way DNA feet

Possible Wet Area 400' feet Property Line — feet SEE PLAN

Drinking Water Well — feet Other

NO WELLS WITHIN 200'

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	Ap	10YR 4-2	S/L		
8-18	Bw	10YR 5-3	S/L	10YR 5-8	FRIABLE 10% gravel
18-72	C1	2.5Y 6-4	S/L	10YR 6-1	10% cobbles MASSIVE
72-137	C2	2.5Y 4-4	S/L	10YR 6-1	

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH T.11 Depth to Bedrock: DNA

Depth to Groundwater: Standing Water in the Hole: Weeping from Pit Face: DRY

Estimated Seasonal High Ground Water: 110"

REMOVE

DEP APPROVED FORM - 12/07/95

FORM 12 - PERCOLATION TEST

Location Address or Lot No. LOT #26 EAST LEVERETT RD

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: 9/20/05	Time:	
Observation Hole #	TP26-1	TP26-2
Depth of Perc	57"	48
Start Pre-soak	840 - 855	850 - 905
End Pre-soak	855	905
Time at 12"	4.33 / 13/3 ~~8:40~~ 855	905 ~~9:40~~ 35/3 = 11.66
Time at 9"	908	940
Time at 6"	928	
Time (9"-6")	20/3 = 6.66	1/3
Rate Min./Inch	DESIGN 8.0	DESIGN Pass

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

Site Passed ☑ Site Failed ☐

Performed By: [signature]

Witnessed By: DAVID ZAWADZINSKI BOH

Comments:

DEP APPROVED FORM - 12/07/95

Percolation Test

Test No. perc 1
Reading Time
Saturation (15 min)

12	840
11	855
10	903
9	908
8	915
7	921
6	928

20/3 = 6.66 Design rate

Perc Rate 8.0 Min/inch
Ground Elev. 57"
Depth of Hole

Test No. perc 2
Reading Time
Saturation (15 min)

12	850
11	903
10	913
9	925
8	940
7	950
6	1000

25/3 = 12 10 Design rate

Perc. Rate — Min/inch
Ground Elev.
Depth of Hole 48"

Deep Test Pit/s TP26-1 STK 1

Test Pit

Depth	Soil Description
0-8	OTS LOAM
8-18	SILTY SAND SUB SOIL
18-64	SANDY TILL
64-120	SANDY gravel fill

Groundwater Depth DRY Elev.
Bedrock Depth Elev.
Ground Elev. EXIST 110"

Deep Test Pit/s TP26-2 STK 2

Test Pit

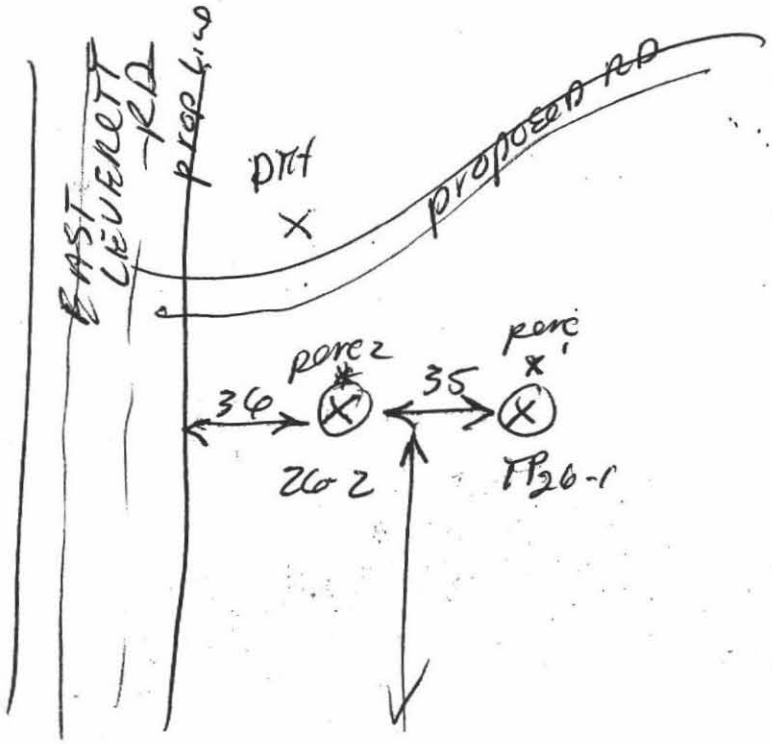
Depth	Soil Description
0-8	OTS LOAM
8-18	SANDY SUB SOIL
18-72	SANDY gravel fill
72 137	SANDY gravel fill

Groundwater Depth Elev.
Bedrock Depth Elev.
Ground Elev. EXIST 110"

S.C.S. Soil Description Seasonal High Water Table? AS NOTED

Bench Mark: Elev. Description

COMMENTS:



Date: 9/30/05
Client: BARRY ROBERTS
BOX 2080
AMHERST MA
Engineer: W J SIENKIEWICZ
Witness: D. ZARZENSKI
Location of Perc:
EAST LEVERETT RD
AMHERST MASS

Location Address or Lot No. LOT #26 EASTCHESTER RD
Amherst, MASS

Determination for Seasonal High Water Table

Method Used:

	TP26-1	TP26-2
☐ Depth observed standing in observation hole ..... inches	DRY	DRY
☐ Depth weeping from side of observation hole ..... inches	DRY	DRY
☐ Depth to soil mottles ..... inches	REFUT	
☐ Ground water adjustment ..... feet	110	110

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 _____ Date 9/00/05

No. _____ Date: 9/20/05

Commonwealth of Massachusetts
, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM SIENUTA PE#6296 Date: 9/20/05
Witnessed By: DAVID ZANAZEWSKI T. DION

Location Address or Lot #	Owner's Name, Address, and Telephone #
BARRY ROBERTS LOT 10 HOLCS 9 10	BARRY ROBERTS BAY ROAD Amherst MASS

New Construction ☒ Repair ☐

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published ..... Publication Scale ..... Soil Map Unit

Drainage Class ..... Soil Limitations .....

Surficial Geologic Report Available: No ☐ Yes ☑

Year Published ..... Publication Scale .....

Geologic Material (Map Unit) .....

Landform .....

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☑ Yes ☐

Within 100 year flood boundary No ☑ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit) .....

Wetlands Conservancy Program Map (map unit) .....

Current Water Resource Conditions (USGS): Month _____

Range :Above Normal ☐ Normal ☑ Below Normal ☐

Other References Reviewed: _____

FORM 12 - PERCOLATION TEST

LOT 18

Location Address or Lot No. _____

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: 9/20/05	Time:	
Observation Hole #	TP #0	TP [illegible]
Depth of Perc	52	54
Start Pre-soak	150	152
End Pre-soak	205	207
Time at 12"	205	207
Time at 9"	217	218
Time at 6"	236	232
Time (9"-6")	19/3 = 6.33	14/3 = 4.66
Rate Min./Inch	Design rate 8.0	Design Rate 5.0

14/3 = 4.66

48" Separation Reqd

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

Site Passed ☑ Site Failed ☐

Performed By: William Sienuth PE #VAC

Witnessed By: D. Zaraeinski T. Dion

Comments: _____

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. _____

Determination for Seasonal High Water Table

Method Used:

TP9 TP10

- [1] Depth observed standing in observation hole ..... inches — only dry
- [2] Depth weeping from side of observation hole ..... inches — dry dry
- [3] Depth to soil mottles ..... inches — no mottle
- [ ] 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 5/95 (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 _____ Date 9/20/05

Percolation Test

Test No. perc 1 @ TP10
Reading / Time
Saturation (15 min) 150 - 205
12
11
10
9
8
7
6
19/3 = 6.33
205
217
236
Perc Rate 8.0 Min/inch
Ground Elev. —
Depth of Hole 52"

Test No. perc 2 @ TP9
Reading / Time
Saturation (15 min) 152 - 207
12
11
10
9
8
7
6
14/3 = 4.66
207
218
232
Perc. Rate 5.0 Min/inch
Ground Elev. —
Depth of Hole 54"

Deep Test Pit/s

Test Pit TP
Depth Soil Description
0-6 TOPSOIL OTS
6-21 SANDY SUB SOIL
21-152 SANDY fill LOOSE

Groundwater Depth DRY Elev. —
Bedrock Depth — Elev. —
Ground Elev. no mottling

Test Pit TP10
Depth Soil Description
0-8 OTS COMM. TOP SOIL
8-24 SANDY SUB SOIL
24-156 SANDY LOOSE I, II

Groundwater Depth DRY Elev. —
Bedrock Depth — Elev. —
Ground Elev. NO MOTTLE

S.C.S. Soil Description SANDY, gravel FILL Seasonal High Water Table? below 156

Bench Mark: Elev. — Description —

COMMENTS:

Date: 9/20/05
Client: BARRY ROBERTS
BRY BOND
Amherst MA
Engineer: W.T. SIEKIERKA
Witness: D. ZINSTER D. ZINSTER
Location of Perc: LOT 18
~~EAST~~ LEVERETT RD
Amherst MASS

Sell SUB DIVISION plan.

Location Address or Lot No. LOT 18 EAST LEVERETT RD
AMHERST MA

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole ..... inches TP9 DRY TP10 DRY
- ☐ Depth weeping from side of observation hole ..... inches
- ☐ Depth to soil mottles ..... inches
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

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

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

Certification

I certify that on 5/95 (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 _____ Date 9/20/05

No. _____ Date: 9/20/05

Commonwealth of Massachusetts
, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM SIENKIEWICZ PE Eval Date: 9/20/05
Witnessed By: D. ZARAZINSKI T. DION

Location Address or Lot #	Owner's Name, Address, and Telephone #
BARRY ROBERTS LOT 11 holes 7 E & EAST LAURETT RD Amherst	BARRY ROBERTS BAY RD Amherst MASS

New Construction ☐ Repair ☐

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published ..... Publication Scale ..... Soil Map Unit .....

Drainage Class ..... Soil Limitations .....

Surficial Geologic Report Available: No ☐ Yes ☑

Year Published ..... Publication Scale .....

Geologic Material (Map Unit) .....

Landform .....

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☐ Yes ☐

Within 100 year flood boundary No ☐ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit) .....

Wetlands Conservancy Program Map (map unit) .....

Current Water Resource Conditions (USGS): Month _____

Range: Above Normal ☐ Normal ☑ Below Normal ☐

Other References Reviewed: _____

FORM 11 - SOIL EVALUATOR FORM

Location Address or Lot No. LOT 11 EAST LAWRENCE RD Amherst

On-site Review

Deep Hole Number TP7 Date: 9/20/05 Time: 1:00 Weather CLOUDY RAIN

Location (identify on site plan)

Land Use RESIDENTIAL Slope (%) 4 Surface Stones SOME ROCKS

Vegetation WOODED

Landform MOUNTAIN

Position on landscape (sketch on the back)

Distances from:

Open Water Body DWA feet Drainage way DWA feet

Possible Wet Area DWA feet Property Line feet

Drinking Water Well feet Other

NO WELLS WITHIN 300'

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	S/L	10YR 4-2		
10-21	Bw	S/L	10YR 5-6	10YR 5-8	5% gravel
21-144	C1	S/L	10YR 6-3	110	Few Cobbles Few Stone MASSIVE FRIABLE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH till Depth to Bedrock: DWA

Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY

Estimated Seasonal High Ground Water: 110"

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. LOT 11 EAST LAWRENCE RD Amherst

On-site Review

Deep Hole Number TP8 Date: 9/20/05 Time: Weather CLOUDY

Location (identify on site plan)

Land Use RESIDENTIAL Slope (%) 4 Surface Stones SOME ROCKS

Vegetation WOODED LOT

Landform MOUNTAIN

Position on landscape (sketch on the back)

Distances from:

Open Water Body DWA feet Drainage way DWA feet

Possible Wet Area DWA feet Property Line feet

Drinking Water Well feet Other

NO WELLS WITHIN 300'

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	S/L	10YR 4-2		
12-18	Bw	S/L	10YR 5-6		
18-96	C1	S/L	10YR 6-3	10YR 5-8	5% gravel
96-154	C2	S/L	10YR 6-4	10YR 6-1	Few Cobbles Few Stone MASSIVE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) gravel fill Depth to Bedrock: DWA

Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: DRY

Estimated Seasonal High Ground Water: 96"

DEP APPROVED FORM - 12/07/95

FORM 12 - PERCOLATION TEST

Location Address or Lot No. LOT 11 EAST LEVERETT RD

COMMONWEALTH OF MASSACHUSETTS

Amherst , Massachusetts

Percolation Test*		
Date: 9/20/05	Time:	
Observation Hole #	TP7	TP8
Depth of Perc	46	46
Start Pre-soak	1259 - 1314	1255 - 110
End Pre-soak	1:14	110
Time at 12"	1:14	110
Time at 9"	125	123
Time at 6"	138	142
Time (9"-6")	13/3 = 4.33	19/3 = 6.33
Rate Min./Inch	DESIGN RAT 5.0	DESIGN RAT 8.0

CLASS II SOIL

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

Site Passed ☑ Site Failed ☐

Performed By: WILLIAM SIENKIEWICZ PE

Witnessed By: D. MARZINSKI BOH

Comments:

DEP APPROVED FORM - 12/07/95

Percolation Test

Test No. perc 7
Reading Time
Saturation (15 min) 1258 - 114
12
11 \ 11/3 = 3.66
10 /
9
8
7 13/3 = 4.33
6

	114
	117
	121
	125
	138

Design rate 5.0 Min/inch

Perc Rate
Ground Elev. 46"
Depth of Hole

Test No. perc 8
Reading Time
Saturation (15 min) 1255 110
12
11
10
9 13/3 = 4.33
8
7
6

	110
	114
	118
	123
	129
	135
	142

Design Rate Min/inch

Perc. Rate
Ground Elev. 46"
Depth of Hole D

Deep Test Pit/s

Test Pit TP7

Depth	Soil Description
0-10	OTS LOAM
10-21	SANDY SUB SOIL
21-144	gravel sand fill

Groundwater Depth DRY Elev.
Bedrock Depth Elev.
Ground Elev. ELEVT 110

Test Pit TP8

Depth	Soil Description
0-12	OTS
12-18	SANDY ~~SUB~~ SOIL
18 96	SAND FILL
96 154	gravel fill

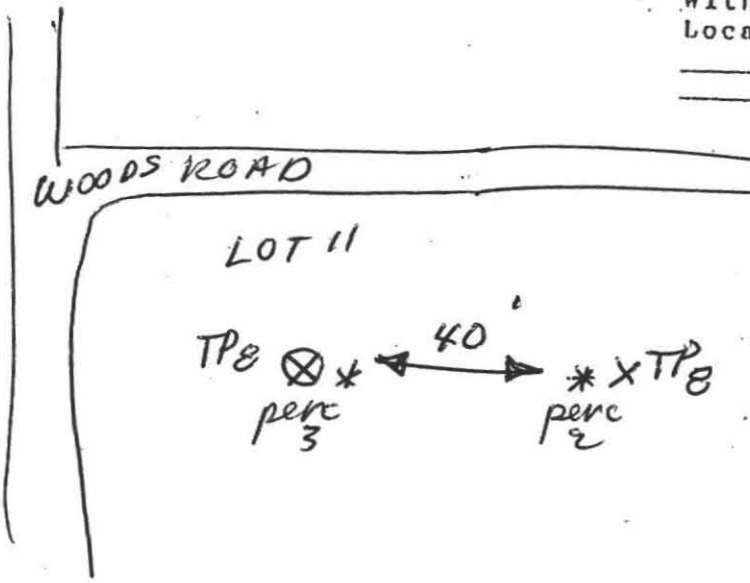
Groundwater Depth DRY Elev.
Bedrock Depth Elev.
Ground Elev. ELEVT 96

S.C.S. Soil Description SANDY FILL Seasonal High Water Table? AS PER

Bench Mark: Elev. Description

COMMENTS:

Date: 9/20/05
Client: BARRY ROBERTS
BAY ROAD
AMHERST MASS
Engineer: WJ STERNITA
Witness: D. ZARAZINSKI
Location of Perc:
LOT 11
EAST HEWLETT RD
AMHERST MA



Location Address or Lot No. LOT P1
Holes 7 & 8.

Determination for Seasonal High Water Table

Method Used:

	TP7	TP8
☑ Depth observed standing in observation hole ..... inches	–	–
☑ Depth weeping from side of observation hole ..... inches	–	–
☑ Depth to soil mottles ..... inches	110"	96
☐ 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? yes

Certification

I certify that on 5/95 (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 9/20/05

Town of AMHERST Massachusetts

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002

(413) 256-4077
FAX (413) 256-4053
www.amherstma.gov

Environmental Health Services
(413) 256-4033

To: Board of Health Members
From: David E. Zarozinski, Town Sanitarian
Re: Preliminary Subdivision Plan - Haskins View - E. Leverett Rd
Date: August 25, 2005

I have reviewed the preliminary subdivision-plan for Haskins View, located on East Leverett Road near the Shutesbury/Amherst line. The subdivision is owned by Mr. Barry Roberts and was prepared by Garrity and Tripp Landscape Architecture Land Planning Civil Engineering and Environmental Services.

The parcel number of this subdivision is Cadastre Map 3B, Parcels 20 and 80 plus a portion of Map 3A, Parcel 78. The acreage for this property is 52.58 ± and is zoned R-O (Outlying Residence). The lot sizes are from 43,700 ± to 97,950 square feet.

There will be twenty-six (26) single family homes served by D.E.P. Title V standard requirements for septic systems and the water supply distribution will be individual wells. Garrity & Tripp has scheduled September 20, 2005 with the Health Department to conduct percolation tests for some of these lots.

We have been informed the septic systems will be drawn by Mr. William Sieruta, Engineer. When the percolation tests are completed the engineer will draw a septic system design for each lot and will submit the plan to me for approval.

Cc: Garrity & Tripp
Planning Board
Barry Roberts

Plans in Closet

FORM K

RECEIPT FOR SUBDIVISION PLAN

Board of Health
Amherst, Massachusetts

RECEIVED FROM Haskins View, L.L.C.

__X__ One Print of a Preliminary Subdivision Plan Map

____ One Print of a Definitive Subdivision Plan Map

__X__ One Copy of a Development Impact Statement

__X__ One Copy of SCS Soils Data for Site w/Map

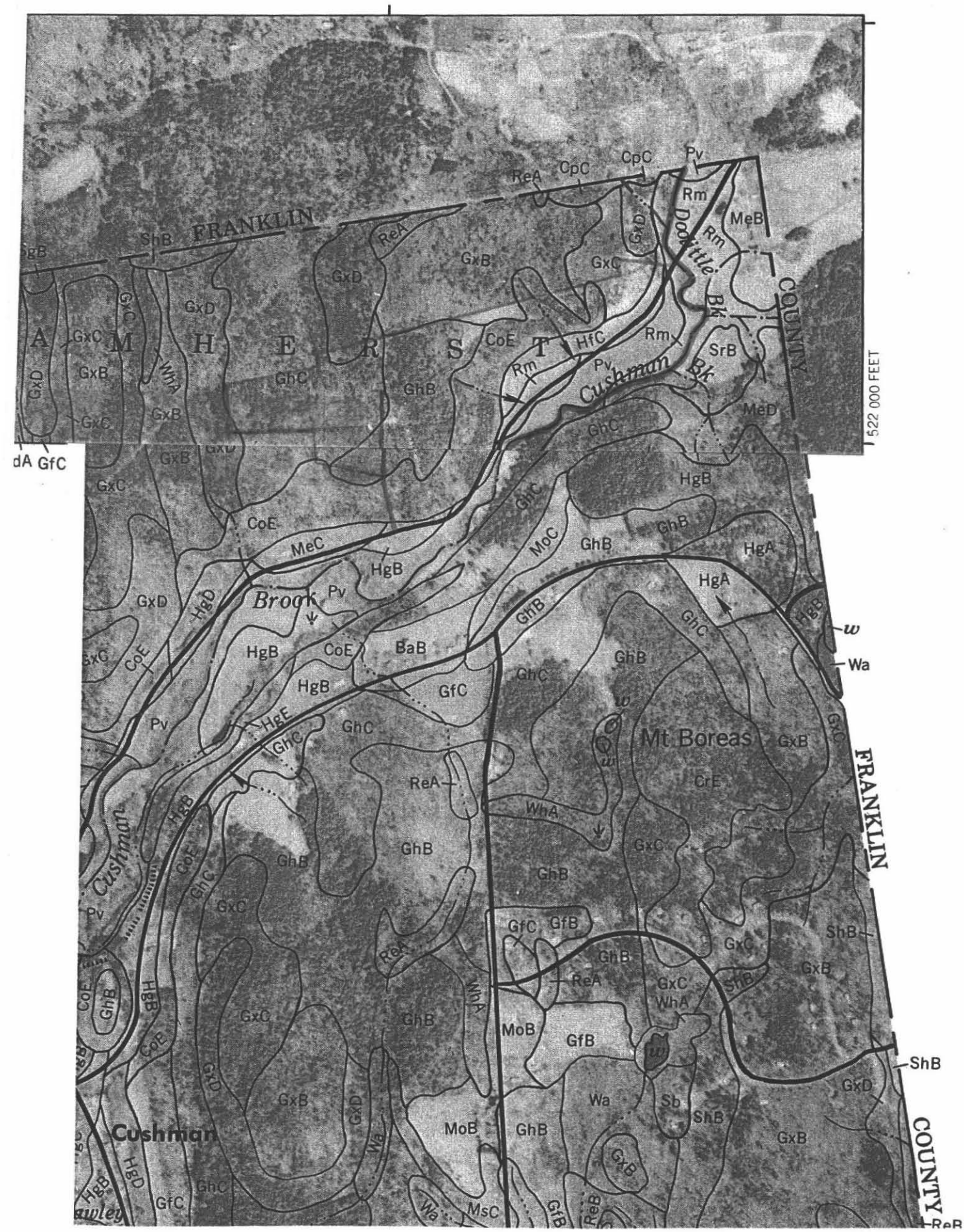
FOR A SUBDIVISION ENTITLED Haskins View

application for approval for which has been made to the Amherst Planning Board, and for which prior approval is required of the Amherst Board of Health.

Karl Raczynski
For Amherst Board of Health

8/23/05
Date

Amherst Planning Board
Form K


FRANKLIN
COUNTY
Cushman
Brook
Mt Boreas
Doolittle Bk
Cushman Bk
522 000 FEET
ReA
CpC
Pv
Rm
MeB
GxD
GxB
GxC
ShB
CoE
HfC
SrB
MeD
HgB
MeC
MoC
HgA
BaB
GfC
HgE
WhA
CrE
GfB
MoB
Wa
Sb
MsC
ReB
GhB
GhC
HgD
GxC

concave areas or in lower positions on slopes are in units CnB and CnC. Included areas make up about 15 percent of the acreage of the three units.

The permeability of these Charlton soils is moderate or moderately rapid. Available water capacity is moderate. The root zone extends into the substratum. Reaction ranges from very strongly acid to medium acid throughout the soils.

Most areas of these soils are in woodland. Some have been developed for homesites.

The stones and boulders on the surface make these soils poorly suited to cultivated crops or hay and pasture. Slope in unit CnD is an additional limitation for the use of equipment. In areas used for pasture, proper stocking rates, deferred grazing, and pasture rotation help to maintain desirable plant species.

These soils are well suited to trees, but stones and boulders on the surface limit the use of harvesting equipment. Slope is an additional limitation for the use of harvesting equipment in unit CnD.

Slope is a limitation of these soils as a site for small commercial buildings and is a limitation for homesites and septic tank absorption fields in units CnC and CnD.

The capability subclass is VIIs.

CoE—Charlton and Gloucester very stony fine sandy loams, steep. This unit consists of deep soils on ridges and on the sides of hills. Areas are irregular in shape and range from 50 to 500 acres. Stones 5 to 20 feet apart are on the surface. Some areas of this unit consist of well drained Charlton soils, some of somewhat excessively drained Gloucester soils, and some of both. The soils were mapped together because there are no major differences in their use and management. About 40 percent of the acreage of this unit is Charlton soils, 40 percent is Gloucester soils, and 20 percent is other soils.

Typically, the Charlton soils have a surface layer of very friable, dark brown fine sandy loam about 5 inches thick. The subsoil is friable and is 15 inches thick. It is yellowish brown fine sandy loam in the upper 6 inches and light olive brown gravelly fine sandy loam in the lower 9 inches. The substratum is firm, olive gravelly sandy loam to a depth of 60 inches or more.

Typically, the Gloucester soils have a surface layer of very friable, dark brown fine sandy loam about 5 inches thick. The subsoil is very friable, yellowish brown, and about 17 inches thick. It is gravelly sandy loam in the upper 9 inches and gravelly loamy sand in the lower 8 inches. The substratum is loose gravelly loamy sand to a depth of 60 inches or more. It is yellowish brown, dark grayish brown, and grayish brown.

Included with this unit in mapping are areas of Paxton and Montauk soils. Also included are small areas of Scituate and Woodbridge soils.

Permeability is moderate or moderately rapid throughout the Charlton soils and rapid throughout the Gloucester soils. Available water capacity is moderate in the Charlton soils and low in the Gloucester soils. The root zone extends into the substratum of both soils. Reaction ranges from very strongly acid to medium acid in the Charlton soils and is strongly acid or very strongly acid in the Gloucester soils.

Slope and the stones on the surface make these soils poorly suited to cultivated crops or to hay and pasture. In areas used for pasture, proper stocking rates, deferred grazing, and pasture rotation help to maintain desirable plant species.

The soils in this unit are suited to trees, and most areas are wooded. However, the slope and the stones and boulders on the surface limit the use of harvesting equipment. Droughtiness in the Gloucester soils causes a high rate of seedling mortality.

Slope is the main limitation of these soils for homesites, small commercial buildings, or septic tank absorption fields. The rapid permeability in the Gloucester soils is also a limitation for septic tank absorption fields and causes a hazard of contamination to ground water and nearby wells.

The capability subclass is VIIs.

CpC—Charlton-Hollis fine sandy loams, rocky, 3 to 15 percent slopes.

CpD—Charlton-Hollis fine sandy loams, rocky, 15 to 25 percent slopes.

These units consist of irregularly shaped areas on hills and ridges. The areas range from 10 to 100 acres. The surface is covered by stones 5 to 20 feet apart and bedrock exposures 100 to 300 feet apart. The areas are about 35 percent deep, well drained Charlton soils; 30 percent shallow, somewhat excessively drained Hollis soils; 5 percent bedrock exposures; and 30 percent other soils. The Charlton soils are between areas of Hollis soils, which are adjacent to the areas of exposed rock. The Charlton and Hollis soils are so intricately mixed that it was not practical to map them separately.

Typically, the Charlton soils have a surface layer of very friable, dark brown fine sandy loam about 5 inches thick. The subsoil is friable and is 15 inches thick. It is yellowish brown fine sandy loam in the upper 6 inches and light olive brown gravelly fine sandy loam in the lower 9 inches. The substratum is firm, olive gravelly sandy loam to a depth of 60 inches or more.

Typically, the Hollis soils have a surface layer of dark brown fine sandy loam about 5 inches thick. The subsoil is brown and is 14 inches thick. It is fine sandy loam in the upper 11 inches and sandy loam in the lower 3 inches. Granite bedrock is at a depth of 19 inches.

Included with these units in mapping are areas, generally smaller than 3 acres, of Woodbridge soils and many small areas of well drained soils with bedrock at a depth of 20 to 60 inches. Small depressional areas of Ridgebury soils are in unit CpC, and a few hilly areas are in unit CpD.

Permeability is moderate or moderately rapid throughout these Charlton and Hollis soils. Available

The seasonal high water table is the main limitation of these soils for homesites and small commercial buildings. The rapid permeability in the upper part of the substratum, the moderately slow permeability in the lower part, and the seasonal high water table limit this soil for septic tank absorption fields.

The capability subclass is IIIw.

Fm—Freetown muck. This soil is deep, nearly level, and very poorly drained. Some areas are in depressions, and some units are on flood plains. The areas of the soil are circular or irregular in shape and range from 10 to 20 acres.

Typically, this soil consists of black, decomposed organic material to a depth of 60 inches or more.

Included with this soil in mapping are a few small areas of Whitman, Scarboro, and Swansea soils. Included areas make up about 20 percent of the unit.

The permeability of this Freetown soil is moderate or moderately rapid. Available water capacity is high. The root zone is restricted by a high water table that is at or near the surface throughout the year. Reaction is extremely acid throughout the soil.

The high water table makes this soil poorly suited to farming. Areas are difficult to drain because of the lack of suitable outlets, and the plant cover is easily cut and dislodged by grazing animals.

Most areas of this soil are wooded, but the soil is poorly suited to the growth of trees. Harvesting is limited by wetness, and unless the soil is frozen, it will not support harvesting equipment. The restricted rooting causes a hazard of uprooting during windy periods, and the rate of seedling mortality is high for trees that are not water tolerant.

The high water table and the low strength of the organic material are the main limitations of this soil as a building site. The high water table is a limitation for septic tank absorption fields.

The capability subclass is Vw.

GfB—Gloucester fine sandy loam, 3 to 8 percent slopes.

GfC—Gloucester fine sandy loam, 8 to 15 percent slopes.

These soils are deep and somewhat excessively drained. They are on ridges and on the sides and lower slopes of hills. The areas of the soils are rectangular or oval or are irregular in shape. They range from 5 to 25 acres.

Typically, the surface layer of these soils is dark brown fine sandy loam about 5 inches thick. The subsoil is yellowish brown and is 17 inches thick. It is gravelly sandy loam in the upper 9 inches and gravelly loamy sand in the lower 8 inches. The substratum is loose gravelly loamy sand to a depth of 60 inches or more. It is yellowish brown, dark grayish brown, and grayish brown.

Included with these soils in mapping are a few small areas of Charlton, Montauk, and Scituate soils. Included areas make up about 20 percent of the acreage of these units.

The permeability of these Gloucester soils is rapid, and available water capacity is low. The root zone extends into the substratum. Reaction in unlimed areas is very strongly acid or strongly acid.

Many areas of these soils are farmed. Many other areas are in woodland, and some have been developed for homesites.

These soils are suited to cultivated crops and to hay or pasture. The low available water capacity makes irrigation necessary in some areas. Where these soils are farmed, minimum tillage and the use of cover crops and grasses and legumes in the cropping system help to reduce runoff and control erosion. Stripcropping is an additional practice that helps to control the moderate hazard of erosion in unit GfC. Mixing crop residue and manure into the surface layer maintains tilth and increases the organic matter content. Proper stocking rates, deferred grazing, and pasture rotation help to maintain desirable pasture plant species.

These soils are suited to the growth and harvesting of trees. Droughtiness causes a high rate of seedling mortality. Reducing plant competition and planting drought-resistant species will help to reduce seedling mortality.

Large stones in the substratum limit these soils as a building site. Slope is an additional limitation for building sites in unit GfC. The rapid permeability limits the soils as a site for septic tank absorption fields and causes a hazard of contamination to ground water and nearby wells.

Unit GfB is in capability subclass IIs, and unit GfC is in capability subclass IIIe.

GhB—Gloucester stony fine sandy loam, 3 to 8 percent slopes.

GhC—Gloucester stony fine sandy loam, 8 to 15 percent slopes.

These soils are deep and somewhat excessively drained. They are in irregularly shaped areas on ridges and on the sides and lower slopes of hills. The areas of unit GhB range from 5 to 20 acres and unit GhC from 10 to 50 acres. Stones 20 to 50 feet apart are on the surface of these units.

Typically, the surface layer of these soils is dark brown fine sandy loam about 5 inches thick. The subsoil is yellowish brown and is 17 inches thick. It is gravelly sandy loam in the upper 9 inches and gravelly loamy sand in the lower 8 inches. The substratum is loose gravelly loamy sand to a depth of 60 inches or more. It is yellowish brown, dark grayish brown, and grayish brown.

Included with these soils in mapping are a few small areas of Charlton, Montauk, and Scituate soils. Included areas make up about 20 percent of the acreage of these units.

The permeability of these Gloucester soils is rapid, and the available water capacity is low. The root zone

extends into the substratum. Reaction in unlimed areas is very strongly acid or strongly acid.

Most areas of these soils are in woodland. Some areas are farmed, and some have been developed for homesites.

The stones on the surface make these soils poorly suited to cultivated crops, but the soils are suited to hay and pasture. The low available water capacity makes irrigation necessary in some areas. Proper stocking rates, deferred grazing, and pasture rotation help maintain desirable plant species. Removal of the surface stones improves the suitability of the soils for cultivation.

These soils are suited to the growth and harvesting of trees. Droughtiness causes a high rate of seedling mortality. Reducing plant competition and planting drought-resistant species will help to reduce seedling mortality.

Large stones in the substratum limit these soils as a building site. Slope is an additional limitation for building sites in unit GhC. The rapid permeability limits this soil as a site for septic tank absorption fields and causes a hazard of contamination to ground water and nearby wells.

The capability subclass is VIs.

GxB—Gloucester very stony fine sandy loam, 3 to 8 percent slopes.

GxC—Gloucester very stony fine sandy loam, 8 to 15 percent slopes.

GxD—Gloucester very stony fine sandy loam, 15 to 25 percent slopes.

These soils are deep and somewhat excessively drained. Map units GxB and GxC consist of soils on ridges and on the sides and lower slopes of hills; map unit GxD consists of a soil on the sides of hills. The areas of these units are irregular in shape and range from 5 to 70 acres. Stones 5 to 20 feet apart are on the surface.

Typically, the surface layer of these soils is dark brown fine sandy loam about 5 inches thick. The subsoil is yellowish brown and is 17 inches thick. It is gravelly sandy loam in the upper 9 inches and gravelly loamy sand in the lower 8 inches. The substratum is loose gravelly loamy sand to a depth of 60 inches or more. It is yellowish brown, dark grayish brown, and grayish brown.

Included with these soils in mapping are a few small areas of Charlton and Montauk soils. Small areas of Scituate soils are in units GxB and GxC and typically are in concave areas or in lower positions on the slope. Included areas make up about 20 percent of the acreage of these units.

The permeability of these Gloucester soils is rapid, and available water capacity is low. The root zone extends into the substratum. Reaction is very strongly acid or strongly acid.

Most areas of these soils are in woodland. Some have been developed for homesites.

The stones on the surface make these soils poorly suited to cultivated crops or to hay and pasture. Slope is an additional limitation for the use of equipment in unit GxD. Proper stocking rates, deferred grazing, and pasture rotation help to maintain desirable pasture plant species.

These soils are suited to trees. Droughtiness causes a high rate of seedling mortality; reducing plant competition and planting drought-resistant species will help to reduce seedling mortality. The stones and boulders on the surface limit the use of harvesting equipment, and its use is further limited by slope in unit GxD.

The stones on the surface are the main limitation to use of these soils as building sites. Slope is also a limitation, especially in units GxC and GxD. The rapid permeability limits the soils as a site for septic tank absorption fields and causes a hazard of contamination to ground water and nearby wells.

The capability subclass is VIIs.

Ha—Hadley silt loam. This soil is deep, nearly level, and well drained. It is on flood plains adjacent to streams and rivers. The areas are irregular in shape and range from 10 to 75 acres.

Typically, the surface layer is very dark grayish brown silt loam about 11 inches thick. The substratum is silt or silt loam to a depth of 72 inches or more. It is olive brown, brown, and light olive brown.

Included with this soil in mapping are a few small areas of Suncook and Winooski soils. The Suncook soils typically are on the streambanks, and the Winooski soils are in lower positions. Included areas make up about 15 percent of the unit.

The permeability of this Hadley soil is moderate or moderately rapid throughout. Available water capacity is high. Root growth extends into the substratum. Flooding for brief periods in winter and spring is common on these soils. Reaction of the soil ranges from very strongly acid to neutral in the upper 40 inches and from medium acid to mildly alkaline at a depth of more than 40 inches.

Most areas of this soil are farmed. Some areas are in woodland, and the soil is well suited to trees. Some areas have been developed for homesites.

This soil is well suited to cultivated crops and to hay and pasture (fig. 7). Good tilth is easily maintained in cultivated areas, and the erosion hazard is slight. In the spring, soil blowing is a hazard on some unprotected fields. The use of cover crops and mixing crop residue and manure into the surface layer help to maintain tilth, minimize soil blowing, and increase the organic matter content in cultivated areas. Proper stocking rates, deferred grazing, and pasture rotation help to maintain desirable pasture plant species.

Flooding in unprotected areas is a limitation of this soil as a building site and as a site for septic tank absorption fields.

The capability class is I.

The lack of open space makes this unit poorly suited or unsuited to farming and woodland, but the soils are well suited to gardens.

Flooding is the main limitation of these soils as a building site or as a site for septic tank absorption fields. The high water table limits the Winooski soils for homesites and septic tank absorption fields.

This unit is not assigned to a capability subclass.

HfB—Haven very fine sandy loam, 3 to 8 percent slopes. This soil is deep, gently sloping, and well drained. It is at the base of steeper hills. The areas are irregular in shape and range from 10 to 75 acres.

Typically, the surface layer is brown very fine sandy loam about 5 inches thick. The subsoil is very fine sandy loam 17 inches thick. It is yellowish brown in the upper 10 inches and brown in the lower 7 inches. The substratum is loose sand or sand and gravel to a depth of 60 inches or more. It is yellowish brown in the upper 8 inches and light brownish gray in the lower part.

Included with this soil in mapping are a few small areas of Holyoke, Hinckley, Merrimac, Sudbury, and Ninigret soils. The Sudbury and Ninigret soils typically are in lower positions, and the Holyoke and Hinckley soils in higher positions. Included areas make up about 15 percent of the unit.

The permeability of this Haven soil is moderate in the subsoil and very rapid in the substratum. Available water capacity is high. The root zone extends into the substratum, but root growth is restricted by loose sand and gravel in the substratum. Reaction in unlimed areas is very strongly acid or strongly acid.

Most areas of this soil are in woodland, and the soil is well suited to trees. Some small areas are farmed, and some have been developed for homesites.

This soil is well suited to cultivated crops and to hay and pasture. Good tilth is easily maintained in cultivated areas, but the erosion hazard is moderate. Minimum tillage, contour tillage, and the use of cover crops and grasses and legumes in the cropping system help to reduce runoff and control erosion in cultivated areas. Mixing crop residue and manure into the surface layer improves tilth and increases the organic matter content. Proper stocking rates, deferred grazing, and pasture rotation help to maintain desirable pasture plant species.

This soil has essentially no limitations for homesites, but slope is a limitation for small commercial buildings. The very rapid permeability in the substratum limits the soil as a site for septic tank absorption fields and causes a hazard of contamination to ground water and nearby wells.

The capability subclass is IIe.

HfC—Haven very fine sandy loam, 8 to 20 percent slopes. This soil is deep, moderately sloping, and well drained. It is at the base of steeper hills. The areas are long and narrow or irregular in shape and range from 20 to 100 acres.

Typically, the surface layer is brown very fine sandy loam about 3 inches thick. The subsoil is very fine sandy loam 17 inches thick. It is yellowish brown in the upper 10 inches and brown in the lower 7 inches. The substratum is loose sand or sand and gravel to a depth of 60 inches or more. It is yellowish brown in the upper 8 inches and light brownish gray in the lower part.

Included with this soil in mapping are a few small areas of Holyoke, Hinckley, Merrimac, Sudbury, and Ninigret soils. The Sudbury and Ninigret soils typically are in lower positions, and the Holyoke and Hinckley soils are in higher positions. Also included are a few areas of Haven soils with slopes of 20 to 25 percent. Included areas make up about 15 percent of the unit.

The permeability of this Haven soil is moderate in the subsoil and very rapid in the substratum. Available water capacity is moderate. The root zone extends into the substratum, but root growth is restricted by the loose sand and gravel in the substratum. Reaction in unlimed areas is very strongly acid or strongly acid.

Most areas of this soil are in woodland, and the soil is well suited to trees. Some small areas are farmed, and some have been developed for homesites.

This soil is suited to cultivated crops and to hay and pasture. Good tilth is easily maintained in cultivated areas, but the erosion hazard is moderate. Minimum tillage, contour tillage, stripcropping, terracing, and using cover crops and grasses and legumes in the cropping system help to reduce runoff and control erosion in cultivated areas. Mixing crop residue and manure into the surface layer improves tilth and increases the organic matter content. Proper stocking rates, deferred grazing, and pasture rotation help to maintain desirable pasture plant species.

Slope is the main limitation of this soil as a building site. The very rapid permeability in the substratum limits this soil as a site for septic tank absorption fields and causes a hazard of contamination to ground water and nearby wells.

The capability subclass is IIIe.

HgA—Hinckley loamy sand, 0 to 3 percent slopes.
HgB—Hinckley loamy sand, 3 to 8 percent slopes.

These soils are deep and excessively drained. The areas are irregular in shape and range from 10 to 100 acres. Map unit HgA consists of a nearly level soil in broad areas; map unit HgB consists of a gently sloping soil on hills and ridges and on side slopes of small drainageways.

Typically, the surface layer is very dark grayish brown loamy sand about 8 inches thick. The subsoil is 21 inches thick. It is loose, brown loamy sand in the upper 5 inches and loose, brown gravelly sand in the lower 16 inches. The substratum extends to a depth of 60 inches or more. It is loose, brownish yellow, stratified sand, coarse sand, gravelly sand, and gravel.

The permeability of these Ridgebury soils is moderate or moderately rapid in the subsoil and slow or very slow in the substratum. Available water capacity is low. The root zone extends to the firm substratum. These soils have a seasonal high water table which is within 18 inches of the surface in late fall, in winter, and in spring and for short periods after prolonged rains. Reaction of the soils in unlimed areas ranges from very strongly acid to medium acid.

Most areas of these soils are in woodland. Some areas are farmed.

These soils are suited to cultivated crops and to hay and pasture. The seasonal high water table keeps the soils saturated through late spring. Thus, the main management needs include installing field drains where feasible, proper timing of farming operations, and using water-tolerant plant species. Use of minimum tillage, contour tillage, and grasses and legumes in the cropping system helps to control a moderate hazard of erosion in unit RdB. Proper stocking rates, deferred grazing, pasture rotation, and restricted grazing when the soil is saturated help to maintain desirable pasture plant species.

The seasonal high water table makes these soils poorly suited to trees. The water table causes a high rate of seedling mortality and restricts rooting, making trees susceptible to uprooting during windy periods. It also limits the use of harvesting equipment to periods when the soils are frozen or dry. Planting water-tolerant species helps to lower the rate of seedling mortality, and establishing dense stands helps to control uprooting.

The seasonal high water table is the main limitation of these soils as a building site and, along with the slow or very slow permeability, limits the soils as a site for septic tank absorption fields.

The capability subclass is IIIw.

ReA—Ridgebury very stony fine sandy loam, 0 to 3 percent slopes.

ReB—Ridgebury very stony fine sandy loam, 3 to 8 percent slopes.

These soils are deep and poorly drained and somewhat poorly drained. The soil in map unit ReA is nearly level or is in slightly depressional areas. The soil in unit ReB is gently sloping and is along drainageways. The areas are long and narrow or irregular in shape and range from 5 to 75 acres. Stones 5 to 20 feet apart are on the surface.

Typically, the surface is very friable, very dark gray fine sandy loam about 2 inches thick. The subsoil is mottled and is 13 inches thick. It is very friable, grayish brown fine sandy loam in the upper 5 inches and friable, gray sandy loam in the lower 8 inches. The substratum is firm, olive, mottled fine sandy loam to a depth of 60 inches or more.

Included with these soils in mapping are a few small areas of Whitman, Woodbridge, and Scituate soils. The Whitman soils are at lower positions, and the Woodbridge and Scituate soils typically are at higher positions. Included areas make up about 15 percent of the acreage of these units.

The permeability of these Ridgebury soils is moderate or moderately rapid in the subsoil and slow or very slow in the substratum. Available water capacity is low. The root zone extends to the firm substratum. These soils have a seasonal high water table which is within 18 inches of the surface in late fall, in winter, and in spring and for short periods after prolonged rains. Reaction of these soils ranges from very strongly acid to medium acid.

The stones on the surface make these soils poorly suited to cultivated crops, but the soils are suited to hay and pasture. In areas used for pasture, proper stocking rates, deferred grazing, and pasture rotation help to maintain desirable plant species.

Most areas of these soils are wooded, but the soils are poorly suited to the growth and harvesting of trees. The seasonal high water table causes a high rate of seedling mortality and restricts rooting, making trees susceptible to uprooting during windy periods. The stones on the surface restrict the use of harvesting equipment, and the water table further limits the use of equipment to periods when the soil is frozen or dry. Planting water-tolerant tree species helps to reduce the rate of seedling mortality, and establishing dense stands protects the trees from uprooting.

The seasonal high water table is the main limitation of these soils as a building site and, along with the slow or very slow permeability, limits the soils as a site for septic tank absorption fields.

The capability subclass is VIIs.

Rm—Rippowam fine sandy loam. This soil is deep, nearly level, and poorly drained. It is in slightly concave areas on flood plains adjacent to streams and rivers. The areas are irregular in shape or crescent-shaped and range from 5 to 30 acres.

Typically, the surface layer is very dark brown fine sandy loam about 5 inches thick. The subsoil is mottled fine sandy loam 19 inches thick. It is dark gray in the upper 4 inches and grayish brown in the lower 15 inches. The substratum is olive gray loamy sand to a depth of 60 inches or more. It is mottled in the upper part.

Included with this soil in mapping are areas, generally smaller than 3 acres, of Pootatuck, Saco, and Limerick soils that make up about 15 percent of the unit.

The permeability of this Rippowam soil is moderate or moderately rapid in the subsoil and rapid or very rapid in the substratum. Available water capacity is high. The root zone is restricted by a seasonal high water table which is within 18 inches of the surface in late fall, in winter, and in spring. Flooding for brief periods is common. Reaction of the soil ranges from very strongly acid to slightly acid.

Most areas of this soil are in woodland. Some areas are farmed.

This soil is suited to cultivated crops and to hay and pasture. The seasonal high water table keeps the soil saturated through late spring. Thus, the main management needs include installing field drains where feasible, proper timing of farming operations, and using water-tolerant plant species. Planting must be done after the spring floods. Mixing crop residue and manure into the surface layer improves tilth and increases the organic matter content. Proper stocking rates, deferred grazing, pasture rotation, and restricted grazing when the soil is saturated help to maintain desirable pasture plant species.

The seasonal high water table makes this soil poorly suited to the growth and harvesting of trees. The water table causes a high rate of seedling mortality and restricts rooting, making trees susceptible to uprooting during windy periods. It also limits the use of harvesting equipment to periods when the soil is frozen or dry. Planting water-tolerant species helps to lower the rate of seedling mortality, and establishing dense stands helps to prevent uprooting.

The seasonal high water table and flooding are limitations of this soil as a building site or as a site for septic tank absorption fields. The rapid and very rapid permeability in the substratum causes a hazard of contamination to ground water and nearby wells in areas used for septic tanks.

The capability subclass is IIIw.

Ro—Rock outcrop. This unit is in irregularly shaped areas on hills and ridges. The areas range from 5 to 30 acres, and about 90 percent of the surface is exposed bedrock.

Included with this unit in mapping are small areas of soils that range widely in drainage and texture and in depth to bedrock.

Most areas of this unit are devoid of vegetation. Some are in sparse brushy woodland. The areas of exposed rock make the unit very poorly suited to most uses.

This unit is not assigned to a capability subclass.

RoC—Rock outcrop-Narragansett-Holyoke complex, sloping.

RoE—Rock outcrop-Narragansett-Holyoke complex, steep.

These map units consist of irregularly shaped areas of soils and areas of exposed bedrock. Unit RoC ranges from 10 to 75 acres and is on sloping hills and ridges. Unit RoE ranges from 20 to 500 acres and is on the sides of steep hills (fig. 9). Both units have stones on the surface 5 to 20 feet apart. The areas of the units are about 40 percent exposed bedrock; 25 percent deep, well drained Narragansett soils; 20 percent shallow, somewhat excessively drained Holyoke soils; and 15 percent other soils. The Narragansett soils are between areas of Holyoke soils, which are adjacent to the areas of exposed rock. The Narragansett and Holyoke soils and the exposed rock are so intricately mixed that it was not practical to map them separately.

Typically, the Narragansett soils have a surface layer of dark grayish brown very fine sandy loam about 1 inch thick. The subsoil is 30 inches thick. It is brown very fine sandy loam in the upper 12 inches and yellowish brown fine sandy loam and sandy loam in the lower 18 inches. The substratum is yellowish brown loamy sand and sand to a depth of 60 inches or more.

Typically, the Holyoke soils have a surface layer of dark brown very fine sandy loam about 1 inch thick. The subsoil is very fine sandy loam about 15 inches thick. It is dark brown in the upper 3 inches and reddish brown in the lower 12 inches. Bedrock is at a depth of 16 inches.

Included with these units in mapping are areas, generally smaller than 3 acres, of Haven and Woodbridge soils. Also included in unit RoC are small depressional areas of Ridgebury soils. Some units consist of up to 15 percent well drained soils that have bedrock at a depth of 20 to 60 inches.

Permeability is moderate throughout the Holyoke soils and in the subsoil of the Narragansett soils. It is moderately rapid or rapid in the substratum of the Narragansett soils. Available water capacity is moderate in the Narragansett soils and low in the Holyoke soils. In the Narragansett soils, the root zone extends into the substratum. It extends to bedrock in the Holyoke soils. Reaction is very strongly acid or strongly acid in these soils.

The areas of exposed bedrock, the slope, and the stones on the surface make these units poorly suited to farming.

Most areas of these units are wooded, and the soils are suited to trees. However, the stones and exposed rock on the surface limit the use of timber harvesting equipment, and equipment use is further limited by slope in unit RoE. The depth to bedrock in the Holyoke soils causes a high rate of seedling mortality and makes trees susceptible to uprooting during windy periods.

Slope and the depth to bedrock in the Holyoke soils limit these units as a building site and as a site for septic tank absorption fields.

The capability subclass is VIIs.

Sa—Saco silt loam. This soil is deep, nearly level, and very poorly drained. It is on flood plains adjacent to streams and rivers. The areas are irregular in shape and crescent-shaped and range from 5 to 30 acres.

Typically, the surface layer is friable, very dark brown silt loam about 12 inches thick. The substratum is dark gray and extends to a depth of 60 inches or more. It is friable silt loam in the upper part and loose fine sand in the lower part.

Included with this soil in mapping are areas, generally smaller than 3 acres, of Limerick and Swansea soils that make up about 15 percent of the unit.

The permeability of this Saco soil is moderate in the upper part of the substratum and rapid or very rapid in

DRAFT
8/24/05

DEVELOPMENT IMPACT STATEMENT

NAME OF PROJECT : "Haskins View"

TYPE OF PROJECT : Single Family Residential Subdivision

LOCATION : East Leverett Road near the Shutesbury/Amherst Town Line

PARCEL NUMBER : Cadastre Map 3-B, Parcels 20 and 80 plus a portion of Map 3-A, Parcel 78

ZONING DISTRICT : R-O Outlying Residence

ACREAGE : 52.58 ± Acres

OWNERS : Haskins View, L.L.C.
c/o Barry Roberts
P. O. Box 678
Amherst, MA 01004

LAND PLANNERS
CIVIL ENGINEERS : Garrity & Tripp
P. O. Box 610
Hadley, MA 01035

1. PROJECT DESCRIPTION :

A. Number of Units = Affordable _____
Single Family 26
Duplex _____
Apartments _____
Other _____
TOTAL 26

B. Ownership = Condominium _____
Rental _____
Private 26
TOTAL 26

C. Number of Bedrooms = Row Houses ____ Apartments ____

D. Approximate Price/Unit = Private _____ Condominium ____
Rental _____

II. CIRCULATION SYSTEMS

A. Street Design :

The subdivision roadways consist of approximately 5300 L.F. of standard 24' wide roadway including one 615 L.F. cul-de-sac. The roadways will be centered in a 50' right of way; the geometry will be in compliance with the current Town of Amherst Subdivision Regulations.

B. Street Classification :

Minor, in accordance with the Town of Amherst street classification system. The projected vehicle traffic flow is 78 vehicle trips per average day with an estimated maximum of 39 vehicle trips at peak hour.

C. Parking and Bus Stops :

Each single family dwelling will include an enclosed garage and driveway storage space. P.V.T.A. bus service is not available on East Leverett Road at this locus.

D. Pedestrian Bicycle Circulation :

Pedestrian and bicycle circulation will be within the roadway right-of-way. A sidewalk is not proposed due to the nature of the area. Off - road walking paths will be possible on the open space parcels.

III. SUPPORTING SYSTEMS

A. Water Distribution :

Municipal water service is not available at this site. Individual private Wells will be utilized.

B. Sanitary Sewage Disposal :

Municipal sanitary sewage is not available at this site. Individual private on - site disposal works in accordance with Title 5 of the state Sanitary code will be utilized.

C. Storm Drainage :

The proposed storm drain system will consist of tandem catch basins placed at the low points on the roadway and on the cul-de-sac and emptying into pre-cast concrete recharge chambers equipped with "fail safe " overflows to abutting woodlands or wetland areas.

Wetland resource areas exist on this site at the lower elevations on the

site adjacent East Leverett Road. A storm water management report with the appropriate drainage calculations will be submitted with the definitive subdivision plan(s) filing.

D. Refuse Disposal :

Solid waste disposal will be by private commercial contractor or Individual collection and transport to the Town of Amherst Solid Waste Transfer Station.

E. Street Lighting :

Lighting will be standard residential street lighting fixtures as utilized and maintained by the Town of Amherst D.P.W.

F. Fire Protection :

No fuel or hazardous substances will be stored on the site or the resulting residential lots. The site is approximately 4.0 miles from the North Amherst Fire Station at the corner of East Pleasant Street and Tillson Farm Road.

G. Recreation :

Public recreation facilities are located at the Mill River Recreation Area. Due to the size and character of the development, no active recreation facilities are proposed except those that will exist on each residential lot.

H. Schools :

The projected student population for the development is :

K - 6 = seventeen (17) students
Grades 7 - 12 = seventeen (17) students

IV. NATURAL CONDITIONS

A. Topography :

Generally, the majority of the site is a moderately high bluff west of East Leverett Road overlooking Cushman Brook. The topography shown was prepared by the Town in 1999 and updated in 2004 using aerial photogrammetric techniques for the GIS system. The datum is U.S.G.S.

B. Soils :

Soils on the site include :

CoE – Charlton and Gloucester Very stony fine sandy loams	steep
GhB – Gloucester stony fine sandy loam	3-8% slopes
GhC – Gloucester stony fine sandy loam	8-15% slopes
GxB – Gloucester very stony fine sandy loam	3-8% slopes
GxC – Gloucester very stony fine sandy loam	8-15% slopes
HfC – Haven very fine sandy loam	8-20% slopes
Rm – Rippowam fine sandy loam Hydric Soil	nearly level

C. Mineral Resources :

None previously reported or observed on site.

D. Surficial Geology :

Fine sand and gravel, no evidence of bedrock or hardpan.

E. Depth to Water Table :

Test holes performed to 10'-12' on the site in January in the apparent buildable areas of the site were not deep enough to determine depth to water table.

F. Aquifer Recharge Areas :

The site is not within a designated recharge protection zone.

G. Wetlands :

Wetland resources have been identified on the site or immediately abutting the site.

H. Water Courses :

Water courses exist on the site or within 200 feet of the site.

I. Flood Prone Areas :

None reported for the site on FEMA flood maps.

J. Vegetative Cover :

The vegetative cover as indicated on the 1971 Land Use and Vegetative Cover Mapping prepared by McConnell et al, indicated the site to have a mixture of softwoods and hardwoods with the hardwoods predominating on the majority of the site.

K. Unique Wildlife Habitats :

No known or observed unique wildlife habitats. No identified unique wildlife habitats in the latest edition of the Massachusetts Natural Heritage Atlas, 2000-2001 Edition.

L. Unique Flora :

No known or observed unique flora.

V. DESIGN FACTORS :

A. Being a predominantly wooded site, the existing visual quality of the site is good. Existing evergreen vegetation will provide screening, and the west edge of the site will afford some long westerly views. Limited views easterly to Cushman Brook may be available during leaf - off periods.

B. Internal views will be to the wooded buffers which will remain between lots and the abutting parcels.

C. Historic Structures - None

D. Architecturally Significant Structures - None

E. The type of architecture anticipated to be built in the development is single family detached homes of contemporary and/or traditional early American design.

VI . ENVIRONMENTAL IMPACT :

A. Measures Taken to Prevent Surface Water Contamination :

The site storm drainage system will not outfall to a surface water source, but will recharged to the site soil system. Catch basins will be equipped with four foot sumps and "storm - ceptor" units will be utilized throughout the storm water system for silt and debris removal.

B. Measures Taken to Prevent Groundwater Contamination :

As noted, the site is not within a designated aquifer recharge protection zone. The site storm water is planned to be fully recharged to the ground water system. The catch basins will have 4' sumps, gas trap hoods and will outfall to recharge chambers which will have overflows to natural filtering systems in the wetland resource areas on site. The method of sanitary sewerage disposal will be via Title 5 compliant private on site waste disposal systems. Ref. also item A, above.

C. Measures Taken to Maximize Groundwater Recharge :

As noted, the storm water runoff from the roadway and those driveways that slope toward the road will be managed in a system that will recharge all that runoff to the groundwater system. In addition, site design will include minimizing impervious surfaces and grading the home sites to provide a maximum of groundwater recharge.

D. Measures Taken to Prevent Air Pollution :

Other than state of the art low emission heating systems, no measures are incorporated in the site planning which can be directly related to a possible reduction in air pollution.

E. Measures Taken to Prevent Erosion and Sedimentation :

During construction, and as final soil stabilization, anti-siltation/erosion techniques will be utilized on all disturbed areas in accordance with the specifications in : "Guidelines for Soil and Water Conservation in Urbanizing Areas of Massachusetts", USDA Soil Conservation Service, Amherst, MA April, 1975. Final treatment will include mulching, rip rap, and loaming and seeding.

F. Measures Taken to Maintain Slope Stability :

Limiting the area to be disturbed during construction will protect slope stability. Temporary measures to protect disturbed slopes will include mulching and temporary netting; permanent stabilization techniques will include loaming and seeding, mulching, wild flower seeding, and shrub/tree planting.

G. Measures Taken to Reduce Noise Levels :

No unusual noise sources will exist on the site.

H. Measures Taken to Preserve Significant Views :

Development of the site will not reduce or obliterate significant views for the surrounding parcels. Within the limitations of the site, the individual homes will be sited to maximize scenic vistas for the unit and its neighbors.

I. Measures Taken to Conserve Energy :

Energy conservative appliances are anticipated as a cost saving measure. In addition, the shape and position of the parcel provides for optimizing southern solar exposure for both active and passive solar gain.

J. Measures Taken to Preserve Wildlife Habitat :

Although unique wildlife habitats do not exist on site, the creation of large lots with woodland buffers between lots will help preserve habitat.

K. Measures Taken to Ensure Compatibility with Surrounding Land Uses :

The proposed single family, low density development will be compatibile with the surrounding neighborhoods in architectural appearance and land use character.

VII . PLANS :

A. Village Concept and Village Plans :

The proposed development is compatible with the existing zoning by-laws and zoning for the land.

B. Conservation Master Plan :

The proposed development is in compliance with the Conservation Master Plan by conserving wetland and agricultural areas.

C. Regional Plans :

The proposed development is consistent with the regional land use plans of the Pioneer Valley Regional Planning Commission.

VIII . PHASING OF CONSTRUCTION :

Roadway construction phasing is not planned. The phasing of Home construction will be in accordance with the Development Schedule, Section 14 of the Town of Amherst Zoning Regulations.

For a development of 26 lots IAW Sections 14.3 and 14.47

Year one - 10 homes

Year two - 10 homes

Year three - 6 homes

OBSERVATION PITS

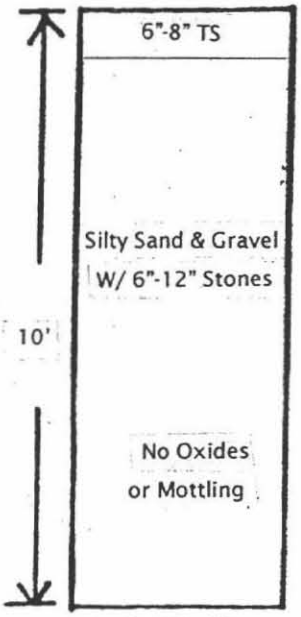
REQUESTED BY: B. Roberts/L. Summerlin

DATE PERFORMED: 1/4/05

LOCATION: Raskevitz Site, E Leverett Rd.

PERFORMED BY: Bill G.

TH #1



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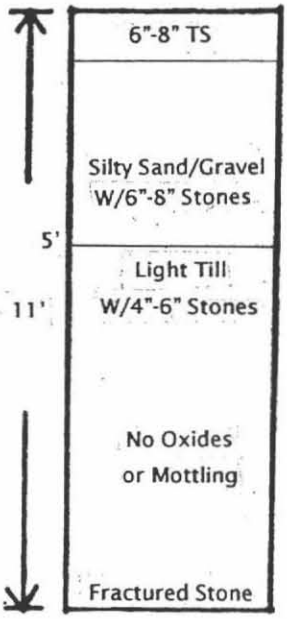
RATE ____ min/in

TH #2



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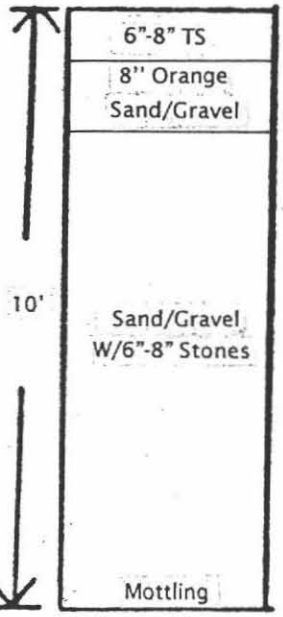
TH #3



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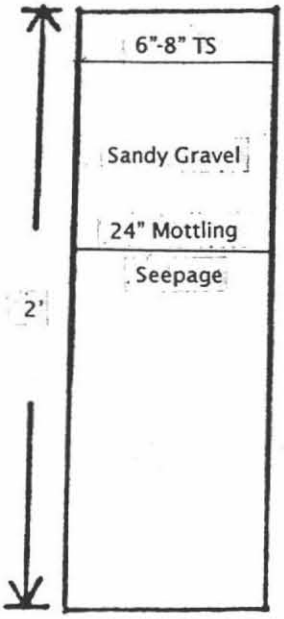
RATE ____ min/in

TH #4



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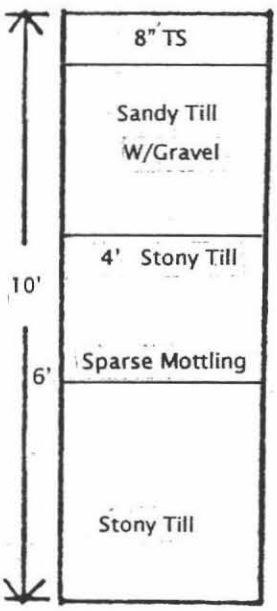
PERC.
RATE ____ min/in

TH #5



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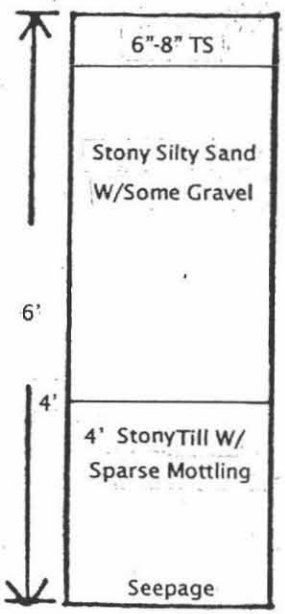
PERC. Not Performed
RATE ____ min/in

TH #6



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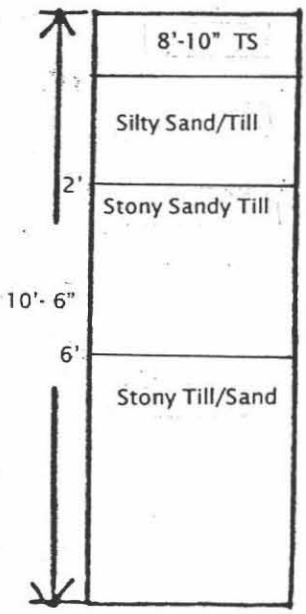
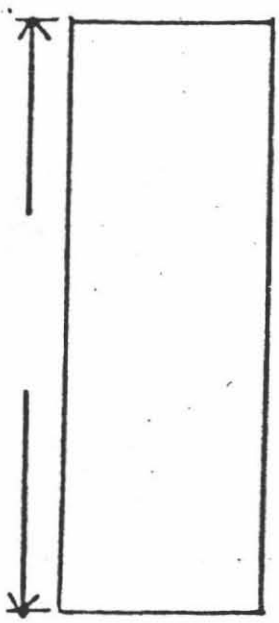
PERC. Not Performed
RATE ____ min/in

TH #7



G.W.@ None @ 10'- 6"
PERC. Not Performed
RATE ____ min/in



G.W.@ ____
PERC.
RATE ____ min/in

OBSERVATION PITS

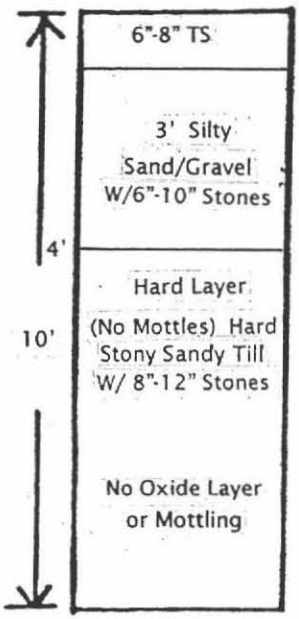
REQUESTED BY: B. Roberts/L. Summerlin

DATE PERFORMED: 1/4/05

LOCATION: Raskevitz Site, E Leverett Rd.

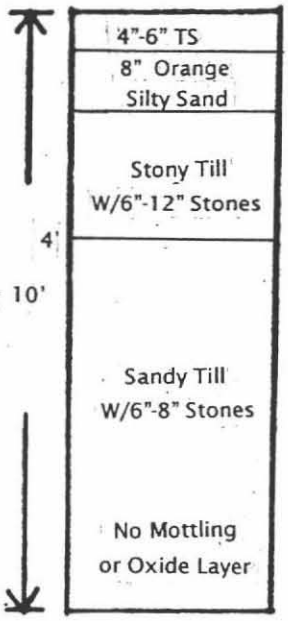
PERFORMED BY: Bill G.

TH #9



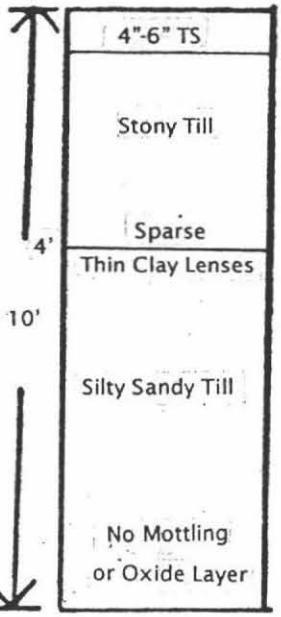
G.W.@ None @ 10'
PERC. Not performed
RATE _____ min/in

TH #10

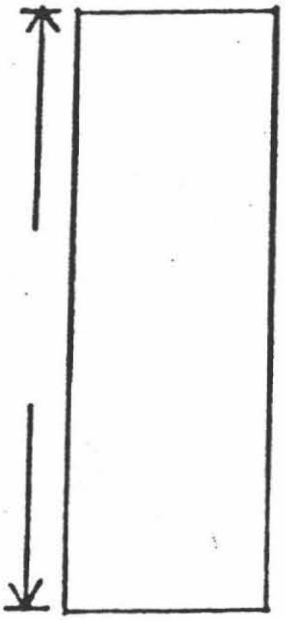


G.W.@ None @ 10'
PERC. Not Performed
RATE _____ min/in

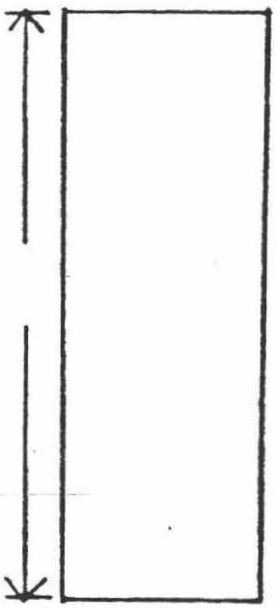
TH #11



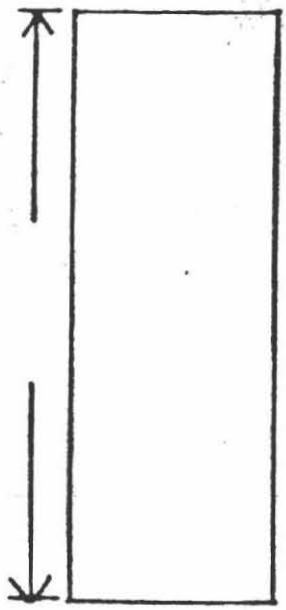
G.W.@ None @ 10'
PERC. Not Performed
RATE _____ min/in



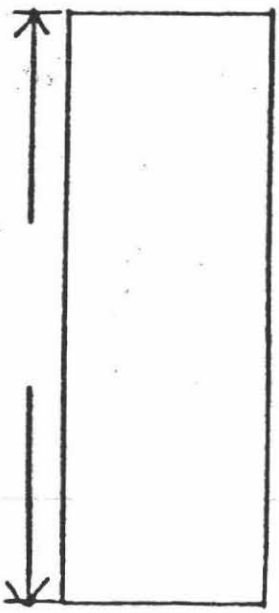
G.W.@ _____
PERC.
RATE _____ min/in



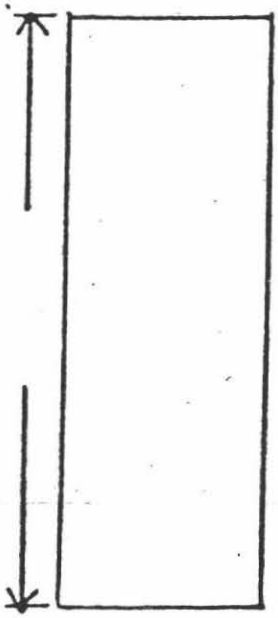
G.W.@ _____
PERC.
RATE _____ min/in



G.W.@ _____
PERC.
RATE _____ min/in



G.W.@ _____
PERC.
RATE _____ min/in



G.W.@ _____
PERC.
RATE _____ min/in

Town of Amherst GIS
Public Map Browser

www.amherstma.gov

- Property Line
- Hydrographic Property Line
- Right of Way Line
- Town Boundary
- Historic
- Subdivision
- Town Boundary
- Fences and Walls
- Easements
- Trails
- Building
- Foundation
- Miscellaneous
- Pier / Dock
- Water Tank
- Sketched Structure
- Tree Cover
- Pavement
- Unpaved Roads
- Streams
- Headwalls, Floodwalls
- Hydro Connector
- Rivers, Ponds, Reservoirs
- Marsh or Swamp
- Retention Basin
- Dam
- Topography 10Ft

N W E S

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet
Vertical Reference Datum: NAVD-88

Planimetric basemap features compiled at 1"=40' and 1"=100' scale from April, 1999 Aerial Photography. 2004 Orthophotos from an April, 2004 flight.

Parcels compiled through a "best-fit" methodology to match the basemap; revisions are ongoing. Property Lines are not represented to meet survey accuracy.

The Town of Amherst and its mapping contractors assume no legal responsibility for the information contained herein.

Public Map Browser Developed by:

Mapwares
www.mapwares.com

3A-1-87
3A-87
345 LEVERETT RD
3B-17
3B-19
3B-14
3B-16
HASKINS FLATS
3B-20
3B-59
3A-3
3A-16
3B-15
3B-22
PARTIAL
3A-78
270 EAST LEVERETT RD
3B-80
3A-61
3B-21
EAST LEVERETT RD
3A-4
207 LEVERETT RD
CUSHMAN BROOK
3A-1-58
3D-81
3D-1-23
3D-63
MARKET HILL RD
3B-79
3D-1-37
475 MARKET HILL RD
3D-68
539 MARKET HILL RD
3D-37
3C-13
330 MARKET HILL RD
3D-20
3D-74
3D-36
405 MARKET HILL RD
3D-38
ATKINS RESERVOIR
3C-66
3C-1-19
3C-19
234 MARKET HILL RD
3D-28
3D-39

1 inch equals 500 feet

0 262.5 525 1,050 1,575 2,100 Feet