



AMHERST Massachusetts

TOWN HALL 4 BOLTWOOD AVENUE AMHERST, MA. 01002-2351 INSPECTION SERVICES DEPARTMENT Fax (413) 256-4041 Phone (413) 256-4030

DATE:

September 24, 1999

TO:

Members of the Board of Health

FROM:

David Zarozinski, Sanitarian

RE:

State definition of naturally occurring pervious material (i.e. soil)

On Thursday, September 23, 1999, I called Mr. Paul Nietupski of the Department of Environment Protection regarding the definition of naturally occurring pervious material (i.e. soil).

Enclosed please find a copy of the fax sent to me by Mr. Robert McCollum, Watershed Chief. The fax states precisely what I presented to the Board at last Wednesday's meeting regarding the Moulton property.

Mr. Nietupski also stated he would call Attorney Michael Pill to explain to him that his interpretation was wrong.

If you have any questions on this matter please feel free to call me at 256-4033.

*				
				,
			in the second se	

00-18

COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMHERST, MA.

FEE _	FOR
	Plans
	04#

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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

Location 30 OUCELOOK DRIVE	Owner's Name DAN MOULTON
Map/Parcel#	Address 34 OVERLOOK DR. AMHERST
Lot# 26	Telephone# 256 6731
Installer's Name RICHARD ROBERTS	Designer's Name R.F. SHEEHAN ASSOC INC
Address NORTH LOWRETT MA	Address
Telephone# 4/3 367 2683	Telephone# 413 467 - 7228
	Lot Size <u>45308</u> sq. f
	No of persons Showers () Cofeterin (
Other Fixtures	No. of persons Showers (), Cafeteria (
	ed design flow 440 Design flow provided 506.16 gp
Plan: Date 8/28/00 Number of sheets	2 Revision Date
Title DW6 # 00152 ODN	
Description of Soil(s) SANDY LOAM	
Soil Evaluator Form No Name of Soil Eva	aluator R F SHECHAN TR Date of Evaluation 7/26/00
9	ROBERT STOVER 5/11/99 4 3/16/00
DESCRIPTION OF REPAIRS OR ALTERATIONS	
Inspections	Ro. 22454 Q
	GISTER
	TOWN TOWN TO THE TOWN TO THE TOWN TOWN TO THE TOWN TOWN TO THE TOWN TOWN TO THE TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN
and the second s	
No. <u>00-18</u> COMMONWEALTH	I OF MASSACHUSETTS
Board of Health, AW	THERS T, MA.
	OF COMPLIANCE
Description of Work: ☐ Individual Component(s) ☐ Complete The undersigned hereby certify that the Sewage Disposal System;	
by: RICHARD ROBERTS	constructed (), repaired (), opgraded (), Abandoned ()
ALLOT 26 OVERLOOK DR	
application No. 0000, dated 8 1000 Approx	
Designer: Inspector:	Vave Squela Date: 9/11/01
The issuance of this permit shall not be construed as a guarantee t	that the system will function as designed.
	ac
No. 00-18	FEE 73
COMMONWEALTH	I OF MASSACHUSETTS
Board of Health Am	HEBST , MA.
DISPUSAL SYSIEM	CONSTRUCTION PERMIT
Permission is hereby granted to; Construct(X) Repair()	Upgrade() Abandon() an individual sewage disposal system
LOT 26) 30 OVECLOOK DR	as described in the application for
Disposal System Construction Permit No. 00-18, day	ted 9/13/00

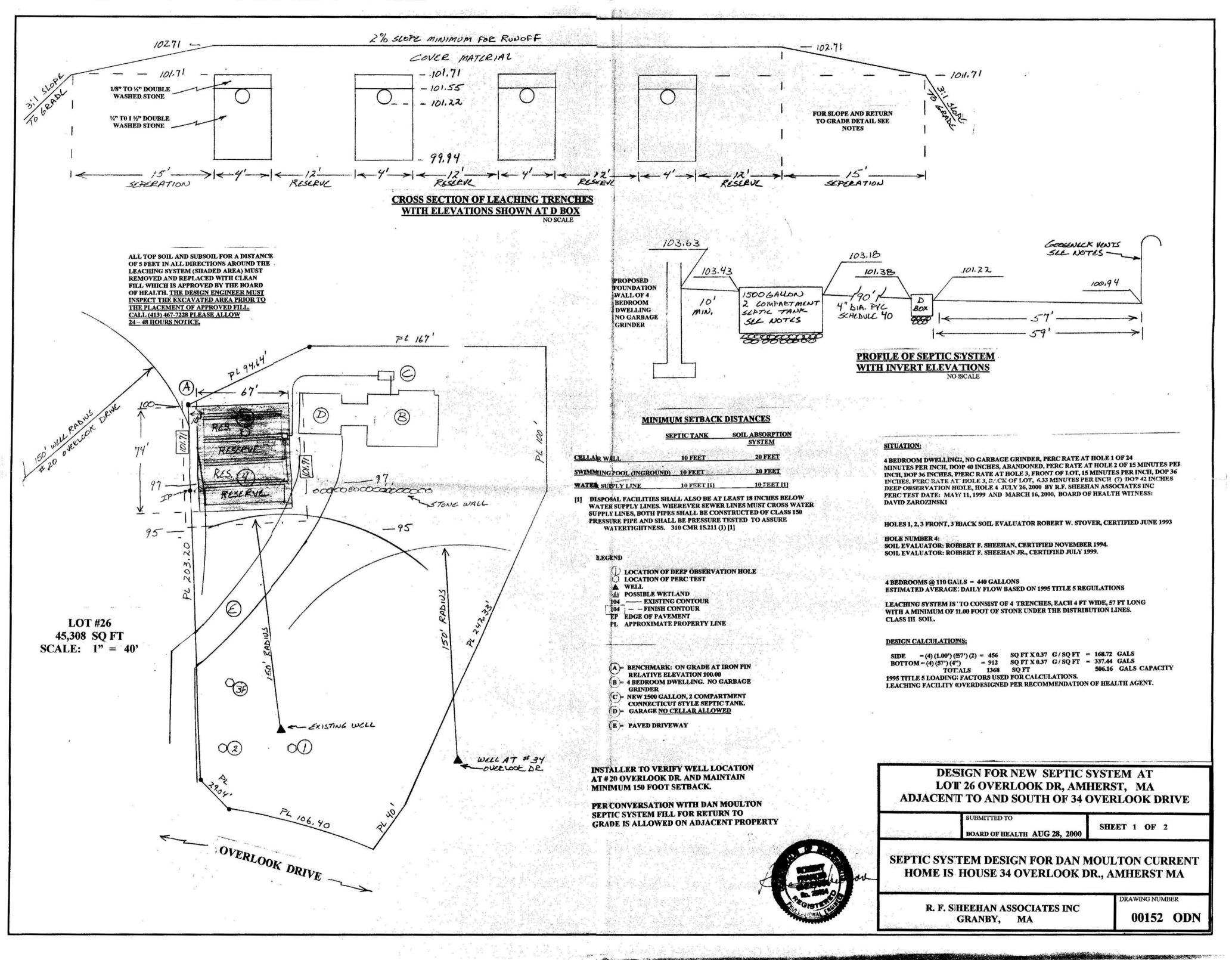
Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.

Date 9/

Form 1255 Rev. 5/96 A.M. Sulkin Co. Boston, MA

3/00 Board of Health





SOIL LOGS

DATE: MA	AY 11, 1999, S	TOVER				
HOLE NUMBER	HORIZON	DEPTH FROM SURFACE INCHES	SOIL TEXTURE	SOIL COLOR MUNSELL	MOTTLIN	G OTHER
1	A	0-4	F SL	7.5YR2.5/3	NONE	SLIGHTLY FRIABL
	Bw	4 -24	FSL	10YR4/6	NONE	FRIABLE, MASSIV
	C	24-96	FSL GRAVELY	2.5¥5/4	@ 36" 2.5Y6/2 COMMON 7.5YR5/8 COMMON	COMPACT WITH STONES AND COBBLES

WEEPING = 65"; ESTIMATED GROUND WATER = 36" LEDGE => 96" NOT IN FLOOD PLAIN

DATE: MAY 11, 1999, STOVER

HOLE NUMBER	HORIZON	DEPTH FROM SURFACE INCHES	SOIL TEXTURE	SOIL COLOR MUNSELL	MOTTLIN	IG OTHER
2	A	0-6	F SL	7.5YR2.5/3	NONE	SLIGHTLY FRIABLE
	Bw	6 -22	FSL	10YR4/6	NONE	FRIABLE, MASSIVE
	C	22-92	FSL GRAVELY	2.5Y5/4	@ 36" 2.5Y6/2 COMMON 7.5YR5/8 COMMON	COMPACT WITH STONES AND COBBLES

WEEPING = 64"; ESTIMATED GROUND WATER = 36" LEDGE => 96" NOT IN FLOOD PLAIN

P4 4	*	-	-
1.7	\mathbf{OIL}		

		COS CARRO				
HOLE NUMBER	HORIZON	DEPTH FROM SURFACE INCHES	SOIL TEXTURE	SOIL COLOR MUNSELL	MOTTLE	NG OTHER
3 FRONT	A	0-5	F SL	7.5YR2.5/3	NONE	SLIGHTLY FRIABLE
	B₩	5-23	FSL	10YR4/6	NONE	FRIABLE, MASSIVE
	C	23 -96	FSL GRAVELY	10Y5/1	@ 30" 2.5Y6/2 COMMON	COMPACT WITH STONES AND COBBLES
* *		*	*		7.5YR5/8 COMMON	₹

WEEPING = ??"; ESTIMATED GROUND WATER = 30"

LEDGE = ? 96" NOT IN FLOOD PLAIN

DATE: MARCH 16, 2000 STOVER

DATE: MAY 11, 1999, STOVER

HOLE NUMBER	HORIZON	DEPTH FROM SURFACE INCHES	SOIL TEXTURE	SOIL COLOR MUNSELL	MOTTLI	NG OTHER
3 BACK	A	0-8	VFSL	7.5YR2.5/3	NONE	SLIGHTLY FRIABLE
	Bw	8-32	FSL	5YR4/6	NONE	FRIABLE, MASSIVE MANY STONES & COBBLES
	С	32 -96	FSL GRAVELY	2.5Y5/3	@ 36° 7.5Y5/8 COMMON 10YR6/6 10YR3/1	FIRM WITH GRAVEL STONES AND COBBLES
ELEVATIO	N AT CRADE	7 - 98 94				

ELEVATION AT GRADE: 98.94
ELEVATION BOTTOM H3 BACK: 90.94
ESTIMATED GROUND WATER = 32". ELEVATION 95.94
WEEPING = 32"; LEDGE = 96" NOT IN FLOOD PLAIN

DATE: JULY 26, 2000 R.F.SHEEHAN ASSOCIATES INC.

HOLE NUMBER	HORIZON	DEPTH FROM SURFACE INCHES	SOIL TEXTURE	SOIL COLOR MUNSELL	MOTTLING	G OTHER
4	A	0-7	SL	10YR3/2		
	Bw	7-21	SL	10YR4/6		WAVY INTERFACE
*	C	21-122	SL	2.5Y4/4	5%+ @ 17" 5YR4/6	CEMENTED FRIABLE STONES AND COBBLES WITH

POCKETS OF SILT

TOO WET TO PERC. HEALTH AGENT RECOMMENDED 15 M/IN

ELEVATION AT GRADE: 97.10 ELEVATION BOTTOM H4: 86.93 ESTIMATED GROUND WATER = 17". ELEVATION 95.68 LEDGE = >122" NOT IN FLOOD PLAIN

NOTES:

FIRST 2 FEET OUT OF D BOX TO BE LEVEL.
ENDS OF DISTRIBUTION LINES TO BE VENTED
BOTTOM OF TRENCHES TO BE LEVEL.
ALL STONE MUST BE DOUBLE WASHED.
SEWER PIPE FROM HOUSE TO SEPTIC TANK MUST
HAVE A SLOPE OF 0.02 AND MUST BE 4 INCH
CAST IRON OR SOLID WALL PVC. SCHEDULE 40.
PIPE BETWEEN SEPTIC TANK AND DISTRIBUTION
BOX IS TO BE 4 " SOLID WALL PVC SCHEDULE 40.

ELEVATION OF GARAGE FLOOR MUST BE HIGH ENOUGH
TO ALLOW FOR A MINIMUM OF 24 INCHES OF
COVER OVER PIPE RUNNING UNDER DRIVEWAY

SEPTIC TANK AND DISTRIBUTION BOX MUST BE SET LEVEL AND TRUE TO GRADE ON A STABLE BASE OF STONE 6" THICK WHICH HAS BEEN MECHANICALLY COMPACTED.

1500 GALLON 2 COMPARTMENT (CONNECTICUT STYLE) SEPTIC TANK MUST HAVE 3 ACCESS MANHOLES WITH A MINIMUM DIAMETER OF 20" AND BE NO MORE THAN 12" BELOW GRADE. ONE MANHOLE OVER INLET BAFFLE, OUTLET BAFFLE THE THIRD MANHOLE MUST BE LOCATED OVER THE CONCRETE DIVIDER BETWEEN THE FIRST COMPARTMENT AND THE SECOND COMPARTMENT. WHEN THIS COVER IS REMOVED EASY ACCESS TO BOTH COMPARTMENTS MUST BE AVAILABLE FOR PUMPING. LE., ADEQUATE ROOM TO INSERT A CONVENTIONAL PUMP HOSE AND FOR VISUAL INSPECTION. DO NOT USE ANY TANK WITH AN OPENING TOO SMALL TO PERMIT THE HOSE TO BE INSERTED. IF THE TOP OF THE SEPTIC TANK IS MORE THAN 12" BELOW GRADE, CHIMNEYS MUST BE PROVIDED.

THE TOP OF ALL SEPTIC SYSTEM COMPONENTS SHALL BE NO MORE THAN 36" BELOW FINISHED GRADE.

IF THE TOP OF THE SEPTIC TANK IS MORE THAN 12" BELOW GRADE THE SEPTIC TANK MUST HAVE 3 ACCESS MANHOLES WITH A MINIMUM DIAMETER OF 20" AND BE FLUSH WITH GRADE. ONE MANHOLE OVER EACH BAFFLE AND ONE OVER THE CENTER.

INLET AND OUTLET TEES SHALL BE CAST IRON,
SCHEDULE 40 PVC OR CAST IN PLACE CONCRETE
AND BE ON THE CENTER LINE OF THE SEPTIC
TANK. CROSS SECTIONAL FLOW BAFFLES
SHALL NOT BE USED AS SUBSTITUTES PER
15.227(1). INLET AND OUTLET TEES MUST BE
LOCATED AT CENTER OF TANK, EVEN IF ENTRY
IS THROUGH THE SIDE OF THE TANK.
SEPTIC TANK OUTLET TEE MUST BE EQUIPPED

SEPTIC TANK OUTLET TEE MUST BE EQUIPPED WITH GAS BAFFLE WHICH SHALL BE CONSTRUCTED FROM SCHEDULE 40 PVC 4" DIAMETER PIPE GLUED JOINTS. GAS BAFFLE SHALL BE INSTALLED SO THAT BOTTOM IS 14" BELOW LIQUID LINE FOR A 48" DEEP TANK 19" FOR A 60" DEEP TANK. A 90 DEGREE ELBOW IS TO BE GLUED IN PLACE POINTING TOWARD THE CENTER OF THE SEPTIC TANK. A TEE MAY BE SUBSTITUTED FOR THE ELBOW.

DO NOT USE ANY SEPTIC TANK THAT HAS
A HOLE IN THE BOTTOM OR IN THE SIDE.
DISTRIBUTION BOX MUST HAVE A MINIMUM
INSIDE DIMENSION OF 12" WITH A 6" SUMP.
ALL DISTRIBUTION LINES MUST HAVE
ADJUSTABLE FLOW LEVELERS TO PROVIDE

FOR EQUAL DISTRIBUTION OF LEACHATE.
A MINIMUM OF 9" OF COVER, EXCLUDING TOP
SOIL MUST BE PLACED AS BACKFILL OVER
THE SEPTIC SYSTEM.

DISTRIBUTION LINES SHALL BE SCHEDULE 40
IF NO VEHICULAR TRAFFIC IS ANTICIPATED
SDR 35 MAY BE USED.

ALL SEPTIC TANKS, PUMP CHAMBERS AND DISTRIBUTION BOXES MUST BE WATER TIGHT.

TRENCHES THAT ARE MORE THAN 50 FEET
OR TRENCHES THAT ARE IN WHOLE
OR IN PART UNDER A DRIVEWAY
MUST BE VENTED. THE VENT PIPE SHALL
BE LOCATED BEYOND THE IMPERVIOUS
AREA NOT SUBJECT TO VEHICULAR
TRAFFIC AND MUST HAVE A CAP GLUED
IN PLACE WITH A MINIMUM OF EIGHT
'2" DIAMETER HOLES GLUED IN PLACE.
BACKFILLING AROUND THE PIPE MUST
BE TIGHT TO PREVENT SEEPAGE OF
SURFACE WATER INTO THE SYSTEM (15.241).
THE VENT PIPE MUST BE THE SAME DIAMETER

AS THE DISTRIBUTION LINE.

A MINIMUM 15' HORIZONTAL SEPARATION
DISTANCE MUST BE PROVIDED BETWEEN
THE TOP OF THE PEA STONE AND THE
ADJACENT DOWNHILL SLOPE. FOR
DETAIL REGARDING SLOPE AND RETURN
TO GRADE SEE "CROSS SECTION OF
LEACHING TRENCHES (BED)" DETAIL.

EXCAVATOR MUST PROVIDE A SWALE 5 FEET WIDE AROUND SAS TO PREVENT SURFACE WATER RUNOFF FROM DRAINING ON TO NEIGHBORING PROPERTY.

IF LEDGE IS ENCOUNTERED HIGHER THAN
ANTICIPATED OR HIGHER THAN OBSERVED
DURING THE EVALUATION OF DEEP
OBSERVATION HOLES (PERC TEST), FILL
MUST BE ADDED TO RAISE THE BOTTOM
OF THE LEACHING SYSTEM AT LEAST 4 FEET
ABOVE THE HIGHEST ELEVATION OF LEDGE
FOUND.

ANY PART OF THE SEPTIC SYSTEM THAT WILL BE SUBJECT TO VEHICULAR TRAFFIC MUST HAVE AN H 20 WHEEL LOAD RATING. NO WELLS OBSERVED WITHIN 150' OF PROPOSED

LEACHING SYSTEM OTHER THAN SHOWN.
THE LOCATION AND ELEVATIONS OF THE LEACHING
SYSTEM CANNOT BE CHANGED. THE LOCATION
OF THE HOUSE MAY BE CHANGED AT THE
OWNER'S OPTION, PROVIDED ALL REQUIRED
SETBACKS ARE MAINTAINED.

PROPERTY OWNER IS RESPONSIBLE FOR COMPLIANCE
WITH ALL LOCAL ZONING REGULATIONS,
CONSERVATION COMMISSION REGULATINGS AND
MASSACHUSETTS WETLAND PROTECTION ACT..

BBECAUSE OF SMEARING IN THE "C" HORIZON INSTALLATION OF THE LEACHING SYSTEM CANNOT TAKE PLACE DURING THE WET SEASON WHEN THE EXCAVATION CAN BE SMEARED.

THE STONE CANNOT BE PUT INTO THE TRENCHES OR INTO THE BED UNTIL THE SIDE WALLS AND THE BOTTOM HAVE BEEN RAKED AND ROUGHENED UP.

PROPERTY LINES MUST BE ESTABLISHED BY A REGISTERED LAND SURVEYOR IN ORDER TO MAINTAIN PROPER SETBACK.

NO DRIVEWAY, PARKING AREA OR OTHER IMPERVIOUS SURFACE SHALL BE LOCATED ABOVE THE LEACHING SYSTEM

ANY WORK DONE BY THE PROPERTY OWNER LESS
THAN 100' FROM A WETLAND WILL REQUIRE
THAT HE FILE A NOTICE OF INTENT WITH THE
LOCAL CONSERVATION COMMISSION.

WETLANDS MUST BE DELINEATED.
NO SEPTIC SYSTEM ADDITIVES MAY BE PLACED IN
A SEPTIC TANK.

NO PART OF A LEACHING SYSTEM MAY BE LOCATED LESS THAN 150 FEET FROM ANY WELL OR 100 FEET FROM THE EDGE OF A WETLAND OR LESS THAN 10 FEET FROM ANY PROPERTY LINE.

ANY PROPERTY LINE.
PROPERTY OWNER IS RESPONSIBLE FOR FINISH
GRADING AND SEEDING. EXCAVATOR IS
RESPONSIBLE FOR BACKFILLING AND
ROUGH GRADING UNLESS OTHERWISE
NECOTIATED WITH PROPERTY OWNER

NEGOTIATED WITH PROPERTY OWNER.
THIS SEPTIC SYSTEM DESIGN IS NOT INTENDED
TO BE A SITE PLAN.

EXCAVATOR MUST CALL DIG SAFE FOR CLEARANCE BEFORE STARTING WORK. TEL: 1 888 344-7233. DO NOT SCALE DRAWING.

TITHE DESIGN ENGINEER MUST INSPECT ALL COMPONENTS OF THE SUBSURFACE ABSORPTION SYSTEM PRIOR TO BACKFILLING. 15.021(3) TEL: 413 467-7228 PLEASE ALLOW 24 – 48 HOURS NOTICE

WAISHED STONE — CLEAN STONE
THE MASSACHIUSETTS DEP HAS ESTABLISHED A TEST TO DETERMINE
THE CLEANLINESS OF "WASHED STONE" USED IN THE LEACHING SYSTEM.

MARK A 5 GALLON WHITE PLASTIC BUCKET AT THE 1 GALLON HEIGHT AND THE 4 GAILLON HEIGHT. PLACE STONE FROM THE PILE OR TRUCK IN THE BUCKET UP TO THE 1 GALLON MARK. MAKE SURE THAT STONE COMES FROM: SEVERAL DIFFERENT PLACES IN THE TRUCK OR PILE. FILL THE BUCKET TO THE 4 GALLON MARK WITH CLEAN WATER, AGITATE THE: STONE — WATER MIXTURE TO SUSPEND ANY FINE PARTICLES. WAIT 60 SECONDS. AFTER 60 SECONDS IF THE OUTLINES OF THE INDIVIDUAL PIECES OF STONE ARE CLEARLY VISIBLE THE STONE CAN BE ASSUMED TO BE REASONABLY: FREE OF FINES. IF THE INDIVIDUAL STONE PIECES CANNOT BE CLEARLY SEEN THE STONE IS PROBABLY TOO "DIRTY" AND SHOULD NOT BE USED IN A TITLE 5 SOIL ABSORPTION SYSTEM. IF SUCH STONE IS USED THE SYSTEM WILL BE REJECTED.



DESIGN FOR NEW SEPTIC SYSTEM AT LOT 26 OVERLOOK DR, AMHERST, MA ADJACENT TO AND SOUTH OF 34 OVERLOOK DRIVE

SUBMITTED TO

BOARD OF HEALTH AUG 28, 2000

SHEET 2 OF 2

SEPTIC SYSTEM DESIGN FOR DAN MOULTON CURRENT HOME IS HOUSE 34 OVERLOOK DR., AMHERST MA

C

R. F. SHIEEHAN ASSOCIATES INC GRANBY, MA

00152 ODN