CK# 192 - Pd 275.00

Pre Done

Plan Done

Tom 7 Final Done

Jeff Weeks
330 Harkness Rd

Department of Environmental Management/Division of Water Resources

WELL COMPLETION REPORT

RECEIVED FEB - 8 1999

WELL LOCATION

Address: New lot 330 HARKNESS Rd

City/Town: Amherst

Well owner: William TOBEY

Address: 31 ELM ST; SUITE 522 Springfield, MA

Board of Health permit obtained: yes ☑ no ☐

GEOGRAPHIC DESCRIPTION

290 (feet) N S E (W) (circle) of Harkness Rd (road)

.8 (mi. in tenths) (N) S E W (circle) of intersect. w/ Rte 9 (road)

WELL USE

Domestic ☑ Public ☐ Industrial ☐

Monitoring ☐ Other

Method drilled: ROTARY

Date drilled: 12-1-98

CASING

Type: Steel

Length: 80 ft. Dia(I.D.): 6 in.

Length into bedrock: 13 ft.

Protective well seal:

Grout ☐ Other: Drive Shoe

WELL DATA

Total well depth: 500 ft.

Depth to bedrock: 67 ft.

Water-bearing rock/unconsolidated material:

Description: N/A GREY

Water-bearing zones:

1) From ____ To ____

2) From ____ To ____

3) From ____ To ____

Gravel pack well: dia. ____

dia. ____

Screen:

Slot# ____ length ____ from ____ to ____

STATIC WATER LEVEL (all wells)

Static water level below land surface: 200 ft. Date: 12-2-98

WELL TEST (production wells)

Drawdown: 500 ft. after pumping: 1 hr. 30 min. at 1/3 gpm

How measured: Rig Air Recovery: 300 ft. after 24 hr. - min.

LOG of FORMATIONS

Materials	From	To
Sand	0	67

COMMENTS Well to be HYDROFRACKED

Driller: Mike BREWER

Firm: Brewer Well

Address: P.O. Box 535

City/Town: So BARRE MA

Supervising Driller Reg.#: 700

Michael S Brewer

Signature of supervising registered well driller

Office use only

Please print firmly

BOARD OF HEALTH COPY

No. 04-10 Repair

FEE 275 ~~00~~ Pd
CK# 192

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

COMMONWEALTH OF MASSACHUSETTS LANE WEISS REG #933 REGISTERED SANITARIAN

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

Location	330 Harkness Rd.	Owner's Name	Jeff Weeks
Map/Parcel#		Address	330 Harkness Rd
Lot#		Telephone#	253-4867
Installer's Name	Rob Adair	Designer's Name	Alan Weiss
Address		Address	Belchertown, MA
Telephone#	253-0339	Telephone#	323-5957

Type of Building Retail Lot Size 56,568 sq. ft.

Dwelling - No. of Bedrooms 6000 SF x 50 GPD / 1000 SF Garbage grinder (N)

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

Other Fixtures _____

Design Flow (min. required) 50 gpd Calculated design flow 300 Design flow provided ~~300~~ 391 gpd

Plan: Date 8/6/2004 Number of sheets 1 Revision Date _____

Title SEPTIC System Repair Plan

Description of Soil(s) Class 1: SAND

Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation _____

DESCRIPTION OF REPAIRS OR ALTERATIONS New S Tank + L. Tanks

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

* Signed [signature] Date 8-12-04 *

Inspections _____

No. 04-10 FEE 275 ~~00~~ Pd

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

CERTIFICATE OF COMPLIANCE

Description of Work: ☐ **Individual Component(s)** ☑ **Complete System**

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

by: _____

at 330 Harkness Road

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 04-10, dated _____. Approved Design Flow _____ (gpd)

Installer [signature]

Designer: [signature] Inspector: Thomas Stein Date: 11/30/04

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

No. 04-10 FEE 275 ~~00~~ Pd
CK# 192

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct( ) Repair(✓) Upgrade( ) Abandon( ) an individual sewage disposal system at 330 Harkness Road as described in the application for Disposal System Construction Permit No. 04-10, dated 8/6/04. Received 8/13/04

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

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

Date 8/16/04 Board of Health [signature] for Central Health

CH # 192
275.00
Pd

FORM 11: Soil Evaluation Form NO: _____

Commonwealth of Massachusetts
Town of Amherst

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: AL Weiss Date: 8/5/04
Witnessed By: David Tarozzi

Location Address of:	Owner's Name: Jeff Weeks
Lot #	Address of: 330 Hawkness
	Telephone:
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 _____

330 Hawthorne Rd.

On-Site Review

Deep Hole Number (1) Date: 8/5/04 Time 9:—
Weather Cloudy Rain 60
Location (identify on site plan) _____
Land Use Commercial Slope (%) 2
Surface Stone _____
Vegetation: gravel / grass

Landform:
Terrace / Mark Delta

Position on Landscape (sketch on back) _____
Distances from:

Open Water Body	100+ feet	Drainageway	100+ feet
Possible Wet Ares	100+ feet	Property Line	20 feet
Drinking Water Well	100+ feet	Other	

House on Town water garage well

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
10	A	FSL	10YR 3/3		Friable
16	Bw	FSL	2.5Y 5/6	None	Loose Friable
132	C1	S	2.5Y 5/4		C Sand — gravel 20% Cobbles

Parent Material (geologic) Mark Delta outwash
Depth to Bedrock 132 ±
Depth to Groundwater :
Standing Water in the Hole —
Weeping from Pit Face —
Estimated Seasonal High Water —

Pere

On-Site Review

Deep Hole Number (2) Date: 8/5/04 Time _____
Weather _____
Location (identify on site plan) _____
Land Use _____ Slope (%) _____
Surface Stone _____
Vegetation:

Landform:
Same

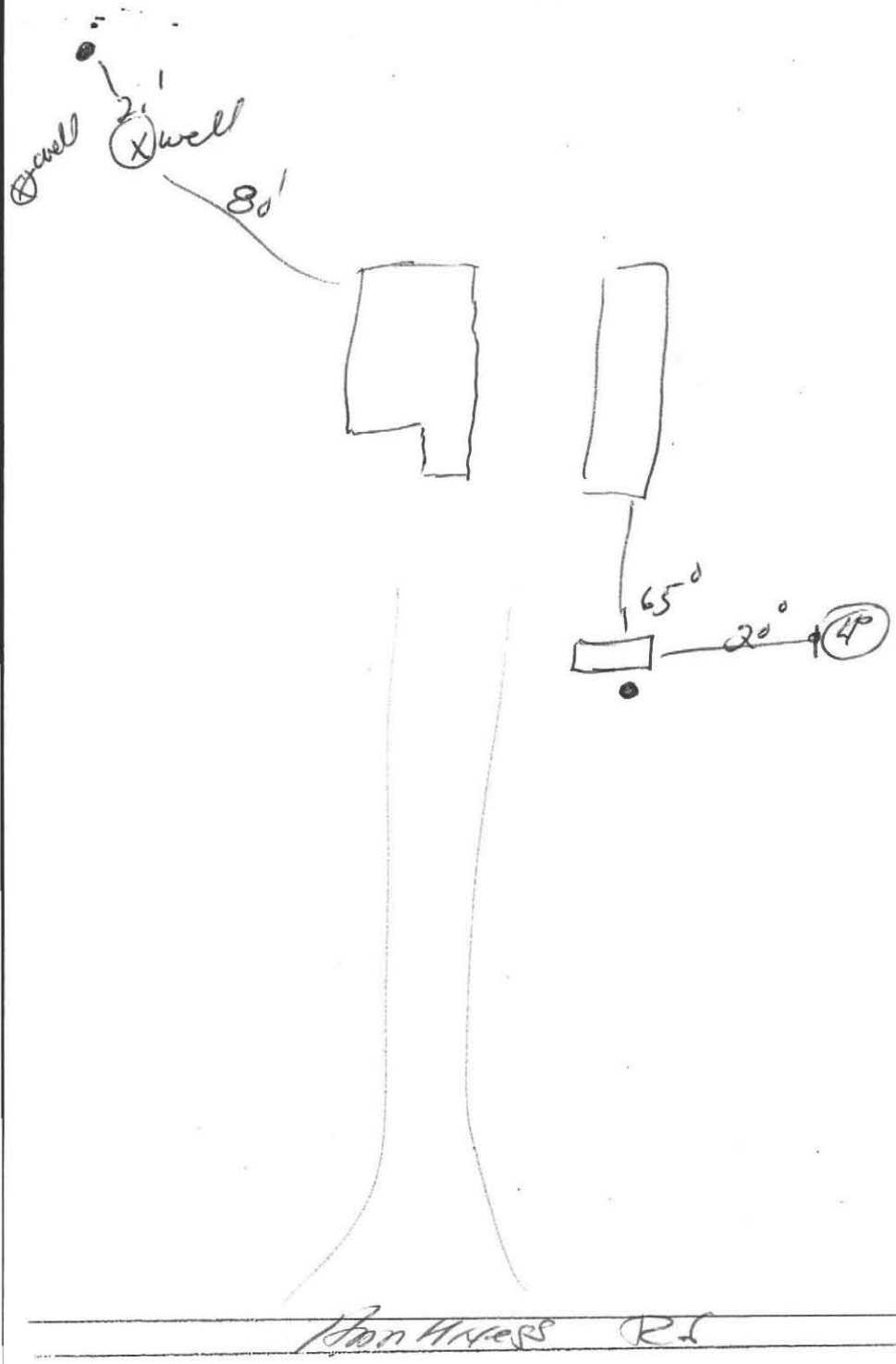
Position on Landscape (sketch on back) _____
Distances from:

Open Water Body	____ feet	Drainageway	____ feet
Possible Wet Ares	____ 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
10	A	FSL	10YR 3/3		
16	Bw	FSL	2.5Y 5/6	Mottle	C Sand + gravel 20%
72	C1	S	2.5Y 5/4		

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



FORM 12: Percolation Test
Location Address or Lot # 330 Harkness Rd

Commonwealth of Massachusetts
Town of Amherst

PERCOLATION TEST *		
DATE: 8/3/04		TIME:
Observation Hole #		
Depth of Perc	46"	
Start Pre-soak	9:00	
End Pre-soak	9:05	
Time at 12"	Cont	Hold
Time at 9"	9:06	
Time at 6"	9:07	
Time (9"-6")	<2	
Rate Min./Inch	<2	

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

Site Passed ☐ Site failed ☐

Performed by AL WEISS

Witnessed by David Zarozinski

Comments:

COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

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

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

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

Date: 8/5/04

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Date: 8/5/04

Witnessed By: D. Zarozinski

Location Address or Lot # — New Construction ☐ Repair ☑	Owner's Name, Address, and Telephone # Pam + Jeff Weeks 330 Harkness Rd. Amherst, MA. 253-4862

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published 1981 Publication Scale 1:15,840 Soil Map Unit MeB

Drainage Class MOD WD Soil Limitations

Surficial Geologic Report Available: No ☑ Yes ☐

Year Published Publication Scale

Geologic Material (Map Unit)

Landform

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☑ Yes ☐

Within 100 year flood boundary No ☑ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range :Above Normal ☑ Normal ☐ Below Normal ☐

Other References Reviewed: _____

Location Address or Lot No. 330 Harkness RD.

On-site Review

Deep Hole Number 1+2 Date: 8/5/04 Time: 8:30 Weather CLOUDS 60 °F

Location (identify on site plan)

Land Use Commercial Slope (%) 2 Surface Stones Many

Vegetation gravel / grass

Landform Terrace / Kame Delta

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100'+ feet Drainage way 100'+ feet

Possible Wet Area 100'+ feet Property Line 20' feet

Drinking Water Well 100'+ feet Other

houses on town water, see plan for garage well.

DEEP OBSERVATION HOLE LOG*

	Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
TP-1	0-10"	A	FSC	10yR3/3		Friable, loose
	10-16"	Bw	FSC	2.5y 5/6		Friable, C. SAND + GRAVEL
	16"-132"	C1	S	2.5y 5/4	Not obs	20% cobbles, rounded
TP-2	0-10"	A	FSC	10yR3/3		
	10-16"	Bw	FSC	2.5y 5/6	Not obs.	
	16"-72"	C1	S	2.5y 5/4		C Sand + gravel 20% cobbles

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Kame Delta / outwash Depth to Bedrock: 132"+

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

Estimated Seasonal High Ground Water: Not

Location Address or Lot No. 330 Harkness

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*

Date: 8/5/04	Time:	
Observation Hole #	P_1	
Depth of Perc	46"	
Start Pre-soak	9:00	
End Pre-soak	9:05	
Time at 12"	CANT	
Time at 9"	9:06 HOLD	
Time at 6"	9:07 SOAK	
Time (9"-6")	<2	
Rate Min./Inch	<2	

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

Site Passed ☑ Site Failed ☐

Performed By: A. WEISS

Witnessed By: D. ZAROWSKI

Comments: 5' offset. to G.W.

Location Address or Lot No. 330 Harkness Rd.

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole ..... inches
- ☐ Depth weeping from side of observation hole ..... inches
- ☑ Depth to soil mottles 132" inches
- ☐ Ground water adjustment ..... feet

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

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

Depth of Naturally Occurring Pervious Material

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

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

Certification

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

Signature _____ Date 8/5/04

COMMONWEALTH OF MASSACHUSETTS
ALAN C. WEISS
REG. #933
REGISTERED SANITARIAN

Town of

AMHERST Massachusetts

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002
(413) 256-4077

(413) 256-4033 ENVIRONMENTAL HEALTH SERVICES
(413) 256-4053 (FAX)

SUB-GRADE INSPECTION

Location: 330 Amherst RD

Property Owner: J. Weeks

I certify that I have inspected the excavation to sub-grade of the proposed septic system leaching area prior placement of any fill of stone, or construction of any portion of the system.

I further certify that:

1. All 'A' and 'B' horizon soils (topsoils and subsoils) were removed in the area of the system.
2. There was no evidence of ground water in the excavation.
3. There was no evidence of "mottles" that would be in conflict with the findings of the deep hole soil profile.
4. That the excavation was accomplished to the proper depth and in conformance with the approved plans.

Ala Weiss
Designers Name

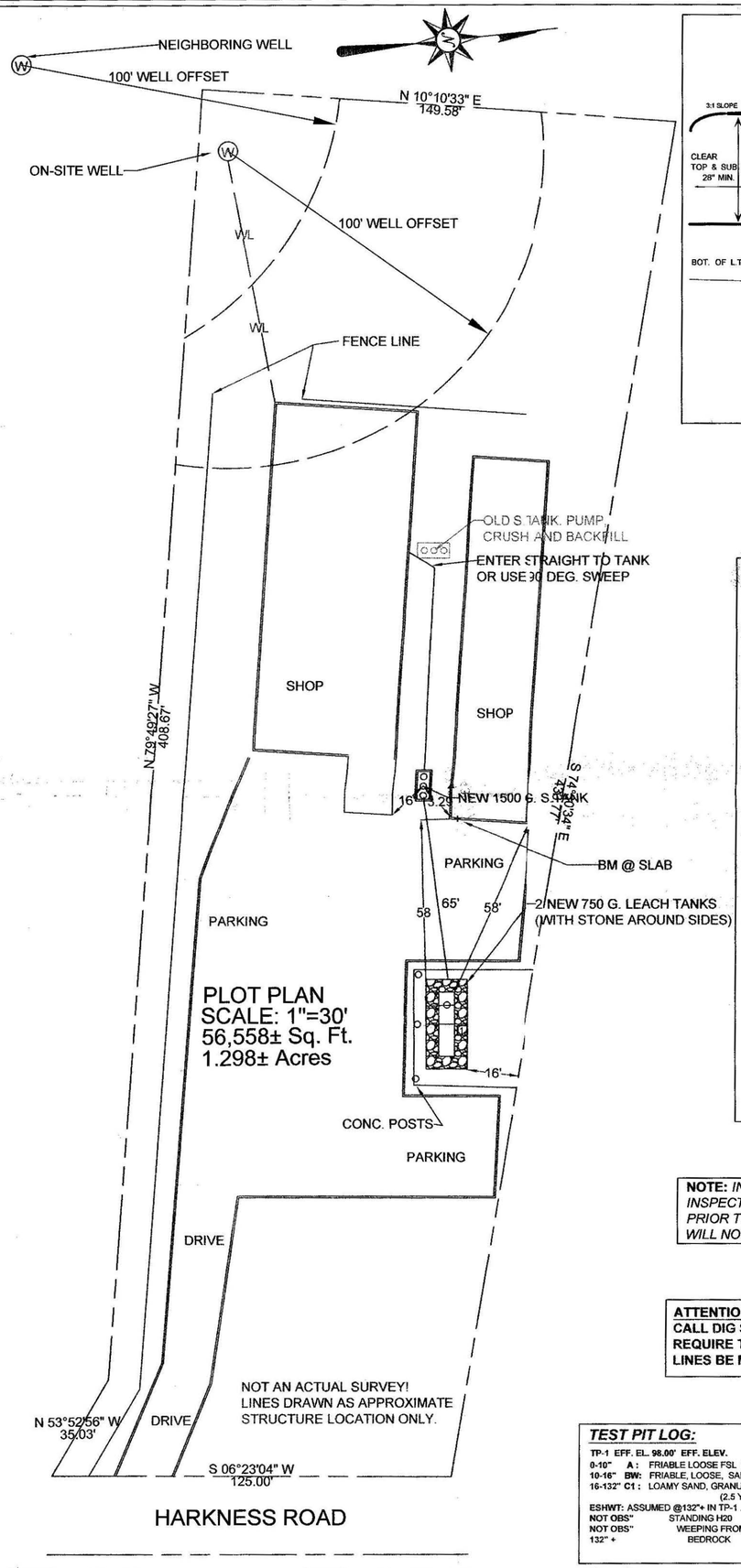
Designers Signature

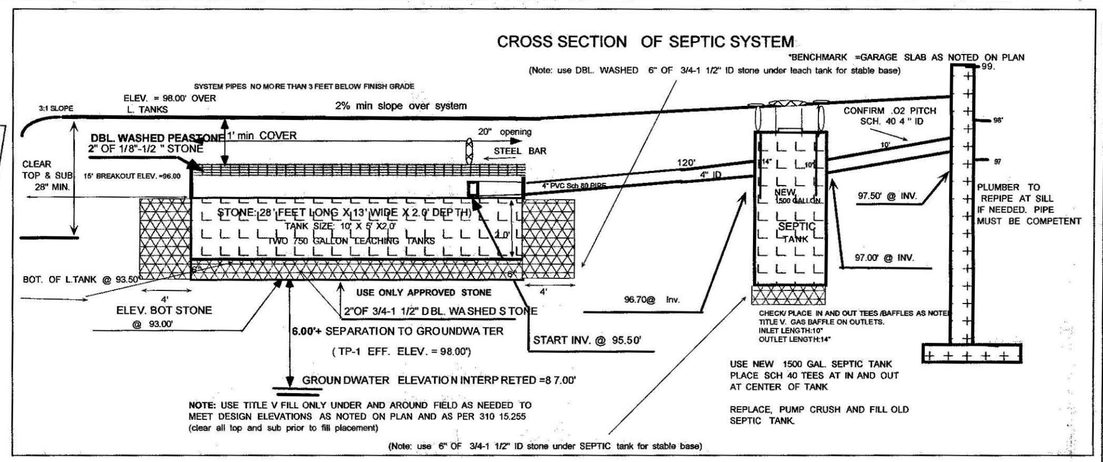
Street Address

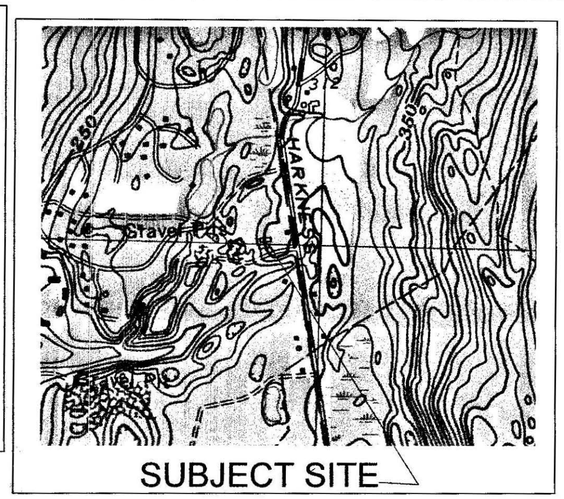
Town, State, Zip Code

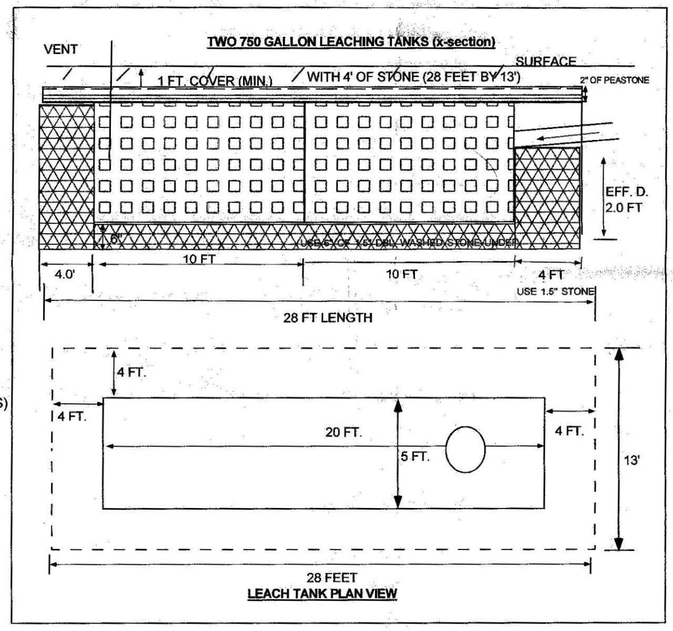
323-5957
Telephone Number

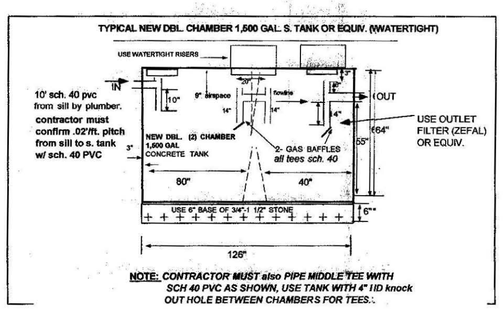
COLD SPRING
ENVIRONMENTAL, INC.
350 OLD ENFIELD RD.
BELCHERTOWN, MA 01007











DESIGN NOTES:

1. 50 GALS / 1000 SF X 6000 SF = 300 GAL/DAY
2. -Use TWO L. TANKS 5' wide x 10' LONG
   -PLACE END ON END WITH 4 of 0.75"-1.5" of DBL washed stone AROUND TANKS & 24" below invert.
   Bot. Area: 13' wide x 28' long = 364 SF.
   Side Area:(13' X 2 X 2 SIDES) + (28' X2 'X 2 SIDES)=164 SF
   Side End Area:
   Tot. Area: 528 sf x 0.74 gal/sf. = 391 GAL./DAY.
3. GARBAGE DISPOSAL NOT ALLOWED
4. ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2' ,
5. NO other PRIVATE WELLS WITHIN 150 FEET OF SAS.
6 NO WETLAND WITHIN 150 FEET OF SAS (SEE PLAN)
7. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE NOTED.
8. SUBGRADE & FINAL INSPESCTION REEQUIRED
8A USE NEW 1500 GAL WATERTIGHT S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK.
9 . SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
10. 2% MIN. SLOPE OVER SAS, CLEAR TOP AND SUB TO 20" MIN. AS NEEDED.
    CLEAR TO BASE OF B (MIN. 20") & SCARIFY SOIL UNDER BED PRIOR TO TITLE V SAND PLACEMENT (if needed).
11. SOIL EVALUATION BY A. WEISS , RS. 8/05/2004 (D. ZAROZINSKI, BOH, AGENT).
12. DEPTH OF PERC. 46 " BY A. WEISS 8/05/2004, " " , HEALTH AGENT
13. PERC RATE = <2 MIN/IN, CLASS 1 SOIL RATING (SAND)
14. INSTALL/INSPECT SCH. 40 TEES/BAFFLES (10" INLET, 14" OUTLET),
15. USE APPROVED (1 1/2") DBL. WASHED STONE UNDER BED & D. BOX FOR 6".
    CONFIRM STONE PROPERLY WASHED (WITH BUCKET /H2O TEST) PRIOR TO PLACEMENT.
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD. USE TITLE V FILL 5' OUT.
17 ENGINEER TO INSPECT SUBGRADE, STUMPS AND BOULDERS WHERE INTERFIERES WITH NEW SAS.
18. T.B.M1. 100.00 AT SLAB (AS NOTED), CONFIRM PROPER PIPE SLOPES
    USE/INSPECT SCH. 40 PIPE FOR PIPE FROM BLDG. TO NEW OR EXISTING TANK
20. GRADE: MULCH AND SEED OVER LEACHFIELD AS NOTED.
21. USE LEACHING TANKS DUE TO TOPOGRAPHY, USE OF PROP. AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240).
22. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

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

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

11/30/04
AS BUILT

COMMONWEALTH OF MASSACHUSETTS
ALAN E. WEISS
#1933
REGISTERED SANITARIAN

TEST PIT LOG:

TP-1 EFF. EL. 98.00' EFF. ELEV. (TP-2 BY PERC)

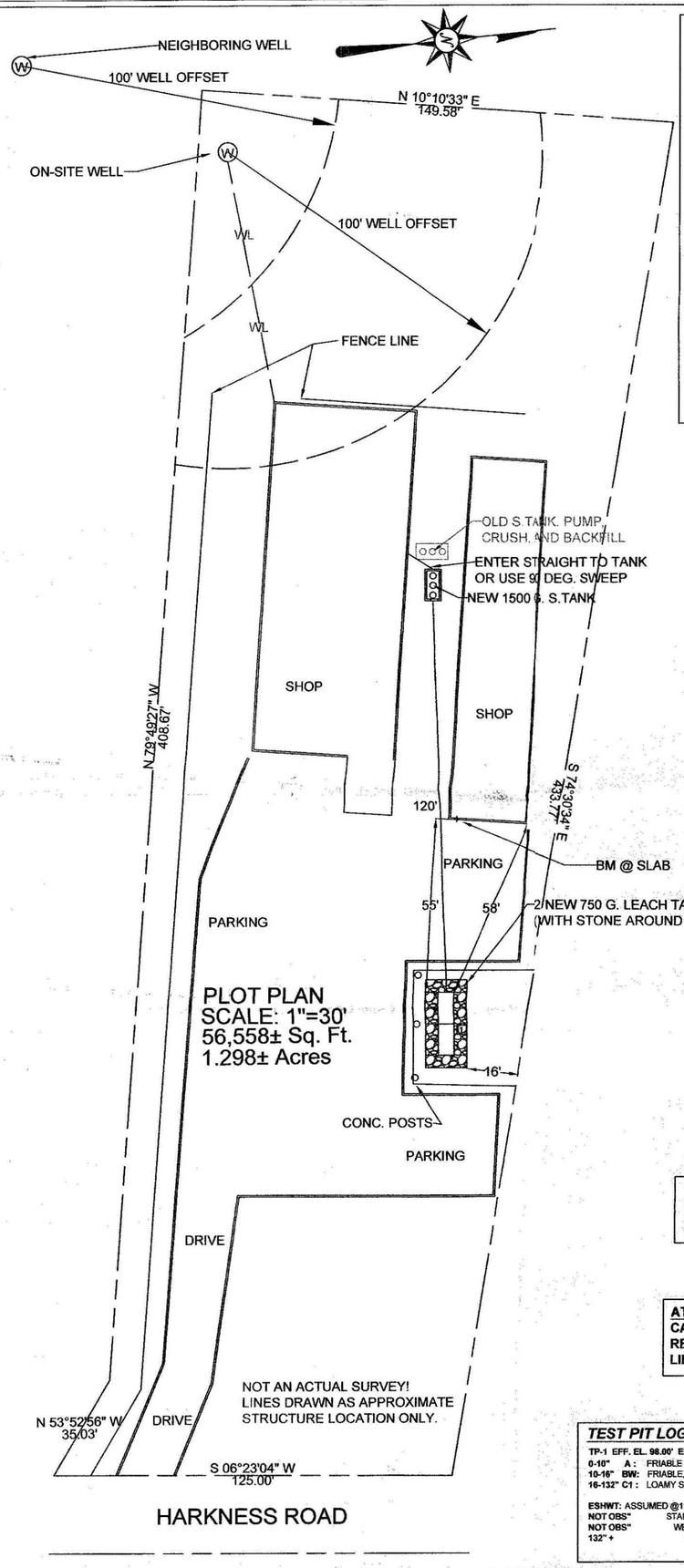
0-10"	A :	FRIABLE LOOSE FSL (10 YR 3/3)	0-10"
10-16"	BW:	FRIABLE, LOOSE, SANDY LOAM (2.5 Y 5/6)	10-16"
16-132"	C1 :	LOAMY SAND, GRANULAR MED-CRSE SAND & GRAVEL, (2.5 YR 4/4) "	16-76"

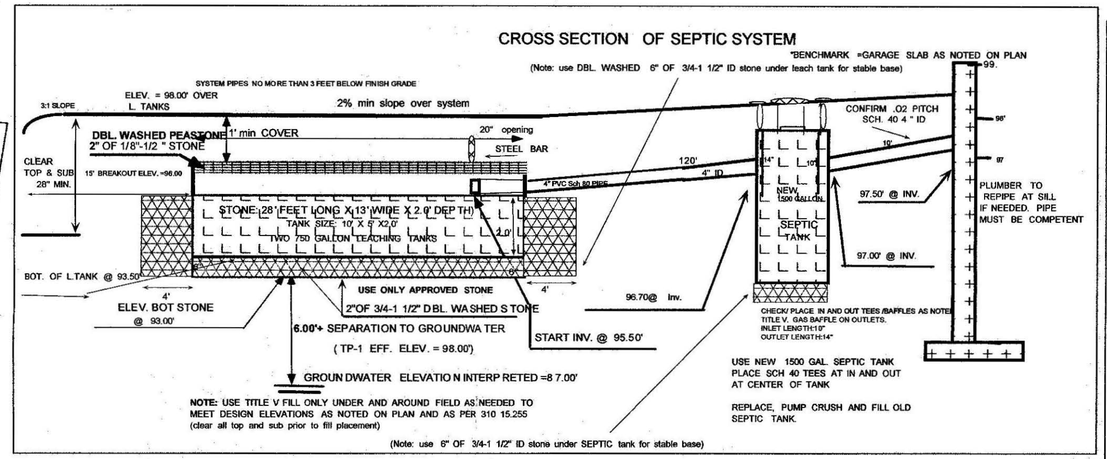
ESHWT: ASSUMED @132"+ IN TP-1 . FOR DESIGN, (5'+ SEPARATION PROVIDED) =87.00'=
NOT OBS" STANDING H20
NOT OBS" WEEPING FROM FACE
132" + BEDROCK

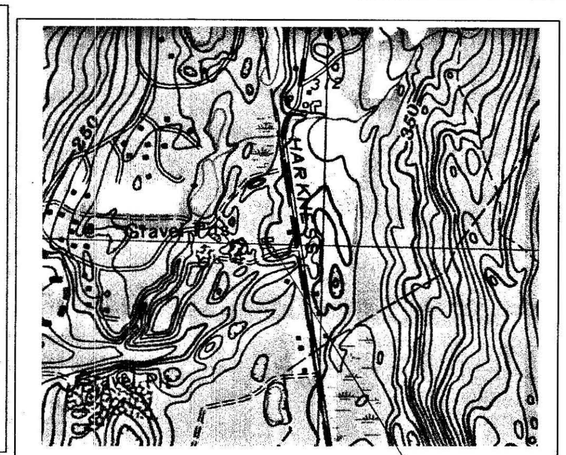
SEPTIC SYSTEM AND WELL LOCATION DESIGN PLAN
JEFF WEEKS (AMHERST WELDING)
330 HARKNESS ROAD
AMHERST, MA

COLD SPRING ENVIRONMENTAL CONSULTANTS INC.
BELCHERTOWN, MA.
PHONE: (413) 323-5957
FAX: (413) 323-4916
EMAIL: AEWEISS@CHARTER.NET

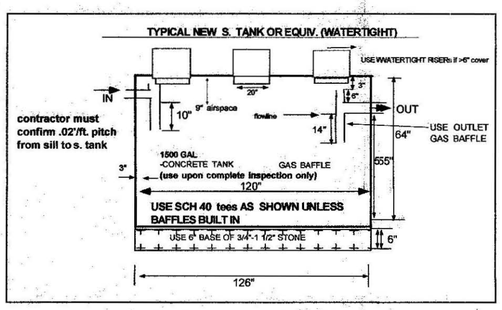
DATE: 08/06/2004	DRAWN BY: ALAN WEISS	REVISED: 11/30/04 as Built
SCALE: 1"=30'		DRAWING NUMBER: 104-2004-0805

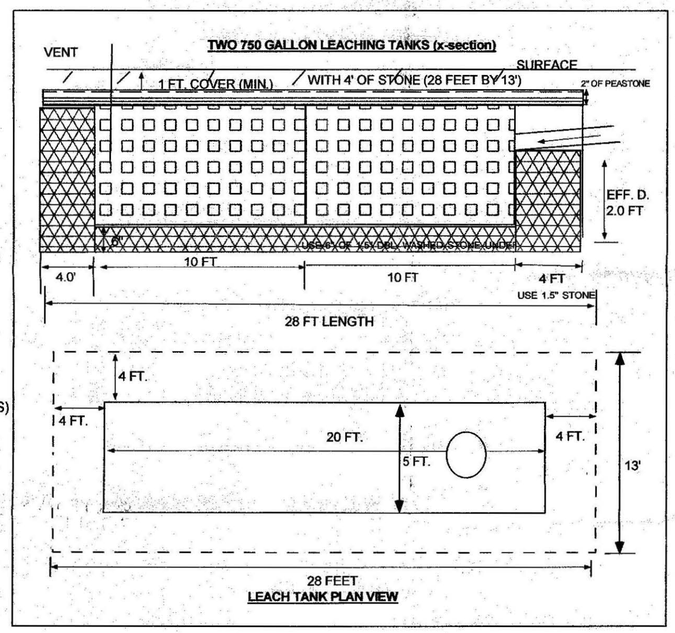






SUBJECT SITE





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    CONFIRM STONE PROPERLY WASHED (WITH BUCKET /H2O TEST) PRIOR TO PLACEMENT.
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD. USE TITLE V FILL 5' OUT.
17 ENGINEER TO INSPECT SUBGRADE, STUMPS AND BOULDERS WHERE INTERFERES WITH NEW SAS.
18. T.B.M1. 100.00 AT SLAB (AS NOTED), CONFIRM PROPER PIPE SLOPES
    USE/INSPECT SCH. 40 PIPE FOR PIPE FROM BLDG. TO NEW OR EXISTING TANK
20. GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.
21. USE LEACHING TANKS DUE TO TOPOGRAPHY, USE OF PROP. AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240).
22. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

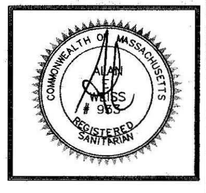
NOTE: *INSTALLER MUST CONTACT ENGINEER 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.*

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

TEST PIT LOG:

TP-1 EFF. EL. 98.00' EFF. ELEV.		(TP-2 BY PERC)
0-10"	A : FRIABLE LOOSE FSL (10 YR 3/3)	0-10"
10-16"	BW: FRIABLE, LOOSE, SANDY LOAM (2.5 Y 5/6)	10-16"
16-132"	C1 : LOAMY SAND, GRANULAR MED-CRSE SAND & GRAVEL, (2.5 YR 4/4) "	16-76"

ESHWT: ASSUMED @132"+ IN TP-1 . FOR DESIGN, (5'+ SEPARATION PROVIDED) =87.00'=
NOT OBS" STANDING H20
NOT OBS" WEEPING FROM FACE
132" + BEDROCK



SEPTIC SYSTEM AND WELL LOCATION DESIGN PLAN
JEFF WEEKS (AMHERST WELDING)
330 HARKNESS ROAD
AMHERST, MA

COLD SPRING ENVIRONMENTAL CONSULTANTS INC.
BELCHERTOWN, MA.
PHONE: (413) 323-5957
FAX: (413) 323-4916
EMAIL: AEWEISS@CHARTER.NET

DATE: 08/06/2004	DRAWN BY: ALAN WEISS	REVISED:
SCALE: 1"=30'		DRAWING NUMBER: 104-2004-0805

Harkness Road - ~~Completed~~

No. 95-6

FEE 160.00
3/06/95
ck # 5777
Jeff Weeks

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

CHECK OR FILL IN WHERE APPLICABLE

Application is hereby made for a Permit to Construct (X) or Repair ( ) an Individual Sewage Disposal System at:

330 HARKNESS ROAD — Location - Address
LOT NO. 2 — or Lot No.
JEFFREY AND PAMELA WEEKS — Owner
25 OLD AMHERST RD., BELCHERTOWN, MA 01007 — Address
Installer
Address

Type of Building — Size Lot 5,406 ~~Sq. feet~~ Acres

Dwelling — No. of Bedrooms FOUR Expansion Attic ( ) Garbage Grinder (NO)

Other — Type of Building ..... No. of persons ..... Showers (✓) — Cafeteria (NA)

Other fixtures NONE

Design Flow 110 gallons per person per day. Total daily flow 440 gallons.

Septic Tank — Liquid capacity 1500 gallons Length 10.5 Width 5.67 Diameter — Depth 60"

Disposal Trench — No. 4 Width 2.5 Total Length 28 Total leaching area 762 sq. ft.

Seepage Pit No. ..... Diameter ..... Depth below inlet ..... Total leaching area ..... sq. ft.

Other Distribution box (X) Dosing tank ( )

Percolation Test Results Performed by Harold L. Stiles, P.E. Date 3/6/95

Test Pit No. 1 2 minutes per inch Depth of Test Pit ..... Depth to ground water .....

Test Pit No. 2 2 minutes per inch Depth of Test Pit ..... Depth to ground water .....

Description of Soil TP#1: 0"-8" Sandy loam, topsoil; 8"-26" Sandy loam; 26"-126" Loamy sand Class I soil TP#2 0"-8" Sandy loam; 8"-21" Sandy loam; 21"-126" Loamy sand Class I soil

Nature of Repairs or Alterations — Answer when applicable NA

COMMONWEALTH OF MASSACHUSETTS HAROLD L. STILES CIVIL No. 2814 REGISTERED PROFESSIONAL ENGINEER

Harold L. Stiles 3/21/95

Agreement:

The undersigned agrees to install the aforedescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Environmental Code — The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Signed * [signature] * 3/21/95 Date

Application Approved By David Zawzinski for A. Id Dept. 03/21/95 Date

Application Disapproved *for the following reasons:* ..... Date

Permit No. 95-6 Issued ..... Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

Certificate of Compliance

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed (✓) or Repaired ( ) by ..... Installer

at Lot #2 (330) Harkness Road

has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 95-6 dated .....

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE ..... Inspector .....

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

ck # 5777

No. 95.6 Town OF Amherst FEE 160.00 pd

Disposal Works Construction Permit

Permission is hereby granted Jeffrey Weeks

to Construct (✓) or Repair ( ) an Individual Sewage Disposal System

at No. Lot #2 Harkness Rd — Street

as shown on the application for Disposal Works Construction Permit No. 95-6 Dated .....

David Zawzinski for A. Id Dept — Board of Health

DATE 03/21/95 90.5

FORM 1255 A.M. SULKIN CO.

TOWN OF AMHERST

PERC TEST DATA SHEET

ck # 5777
Pd 165.00
Jeff Weeks

DATE 03/06/95 LOCATION Harkness Road LOT SIZE _____

OWNER Jeff Weeks ADDRESS 25 Old Amherst Rd Belchertown 01007 TELE # 253-4867

P.E./RS Harold Stiels FIRM same OBSERVED BY David Zargard

BACK HOE OPERATOR Gene Wagner TELE _____ BENCH MARK _____

PERC DEPTH 36" PRE SOAK TIME — PERC DEPTH 62" PRE SOAK TIME _____

TEST			
1" in 42 sec		Can't Hold	
2" in 90" sec.		same	

RATE _____ RATE _____

#1

Sandy Loam TOP 8"	A
Fine Sandy Loam SUB 26"	Bw
Sandy Loam (Gravel) DRY ↓ 10'6"	BC

#2

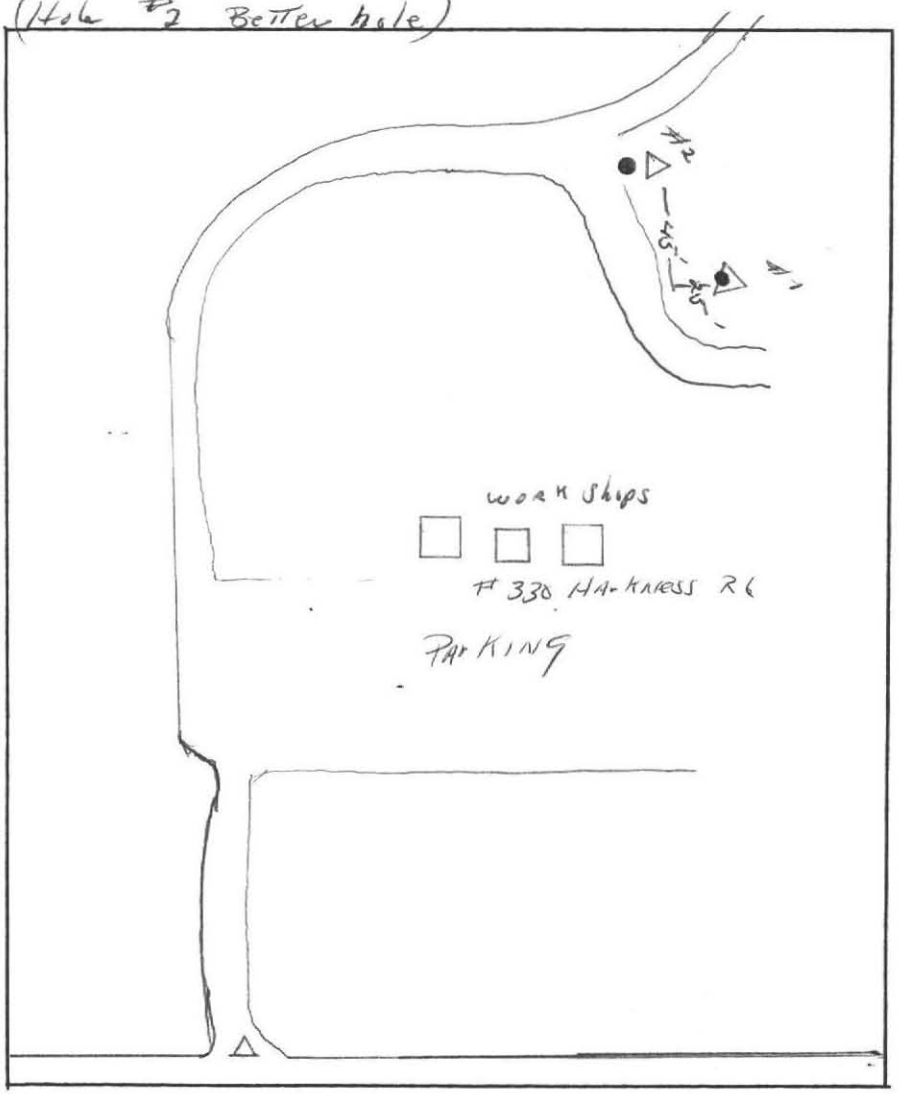
Sand Loam TOP
Bw SUB 21"
Sandy Loam with Stones (Gravel) DRY

10'6"

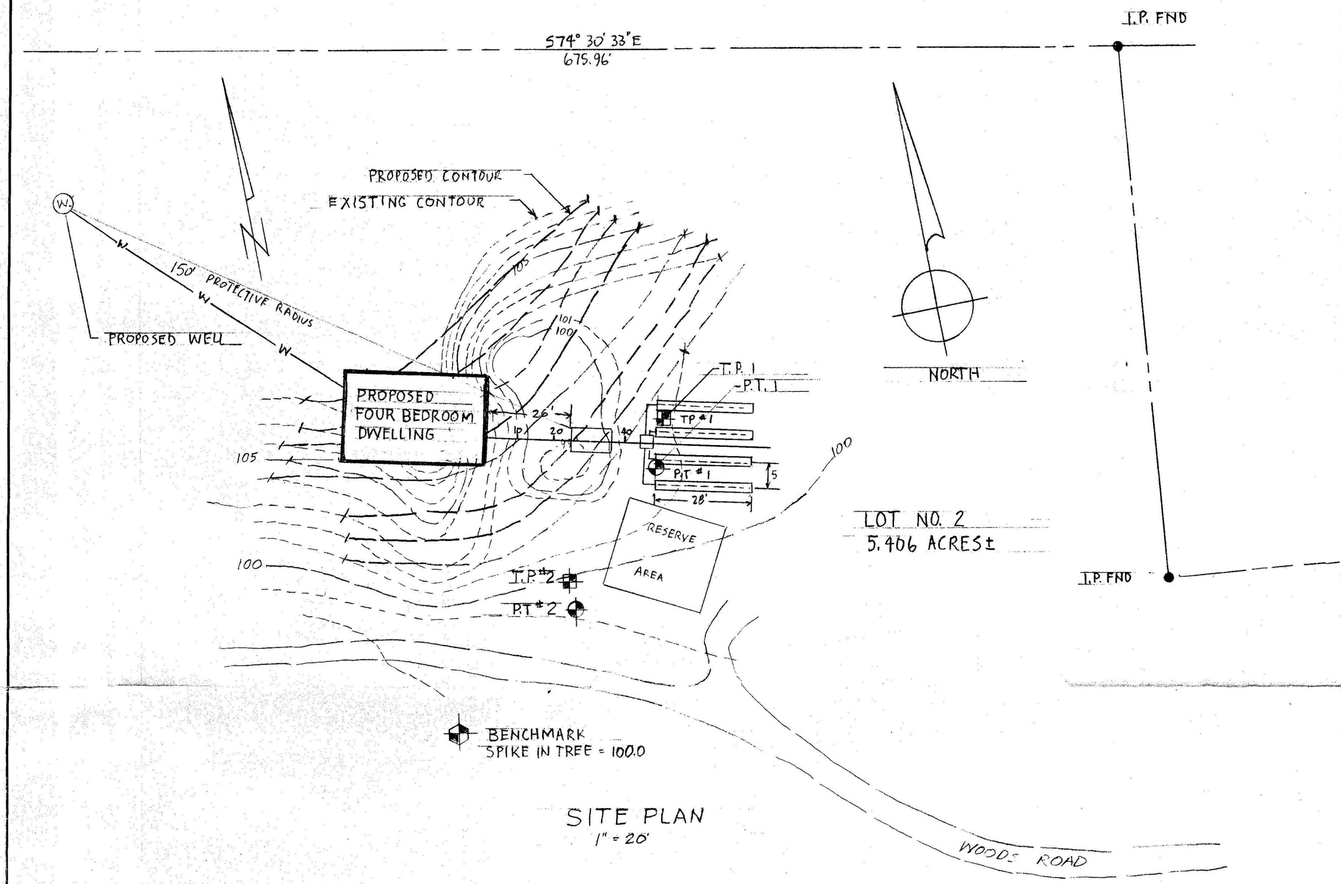
TOP	TOP
SUB	SUB

TOP	TOP
SUB	SUB

(Hole #2 Better hole)



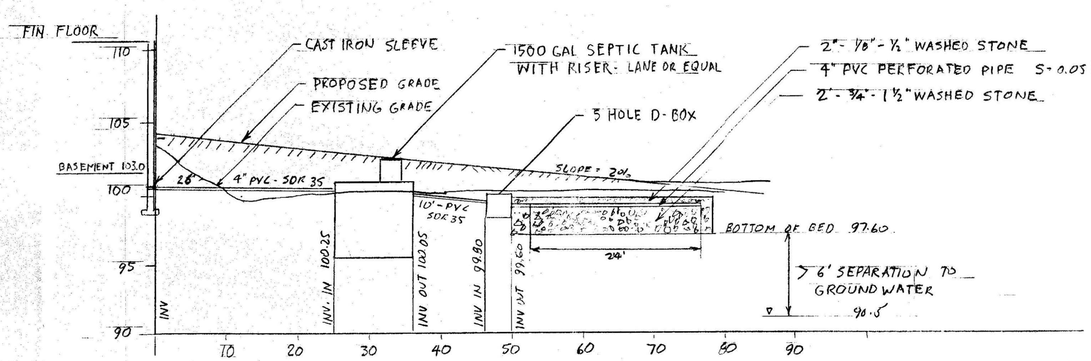
EH1:PERCFORM



SITE PLAN
1" = 20'

BOUNDARY INFORMATION TAKEN FROM PLAN OF LAND PREPARED FOR JEFFREY WEEKS BY ALMER J HUNTLEY ASSOC. DATE 1/20/95

N74° 10' 34" W 1180.23



SYSTEM PROFILE

H: 1" = 10'
V: 1" = 5'

SOIL INVESTIGATION

TEST PIT NO. 1 Elev. 101.2
NO.1

0" - 8" Ap Sandy loam 10YR 3/6
8"- 26" Bw Sandy loam 10YR6/3
26' -126" C Loamy sand 2.5YR6/3

Groundwater Elevation 90.6 or lower
Bedrock Elevation: 90.6 or lower

PERCOLATION TEST

Saturation Period: 25gal/4min

Use 2min/inch

TEST PIT NO. 2

0" - 8" Ap Sandy loam 10YR3/6
8" - 21" Bw Sandy loam 7.5YR5/4
21" - 126" C Loamy sand 7.5YR6/6

Groundwater Elevation 90.5 or less
Bedrock Elevation 90.5 or less

PERCOLATION TEST NO.2

Saturation Period: 25gal/4min

Use 2 min/inch

No wetlands observed with 100 ft of the site..
Soils investigation and percolation testing performed by Harold L. Stiles P.E. on March 6, 1995. Witnessed by David Zarozinski, Amherst Board of Health

DESIGN CRITERIA

Four bedroom house without garbage disposal
Utilize leaching trench system.
Septic tank required = 1500gal.

DESIGN CALCULATION

Design flow: 4 bdrm @ 110gpd/bdrm = 440 gpd
plus 150% (Amherst Board of Health = 660gpd

Leaching Trenches: Percolation rate = 2mpi
Bottom area: 1.0 GPD/SF
Sidewall area: 2.50 GPD/SF

Use 4 trenches 24 ft. long, 2.5 ft wide, 2.0 ft. deep
Bottom area: (24 x 2.5) x 4 x 1.0 = 240 GPD
Sidewall area: (24 x 2.0) x 4 x 2.5 = 480 GPD

TOTAL LEACHING CAPACITY = 720GPD
TOTAL REQUIRED = 660GPD OK

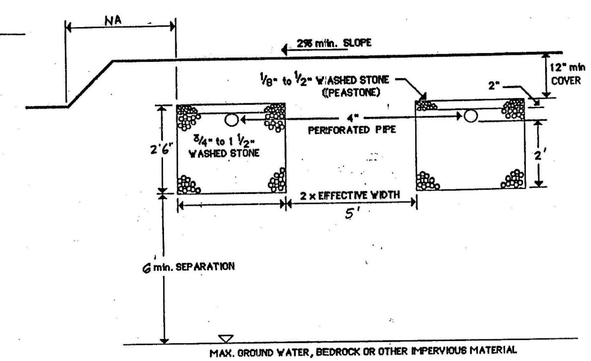
GENERAL CONDITIONS

1. This system is designed in accordance with 310 CMR 15.00 (Title 5) as amended by the Amherst Board of Health. Construction shall conform to same.

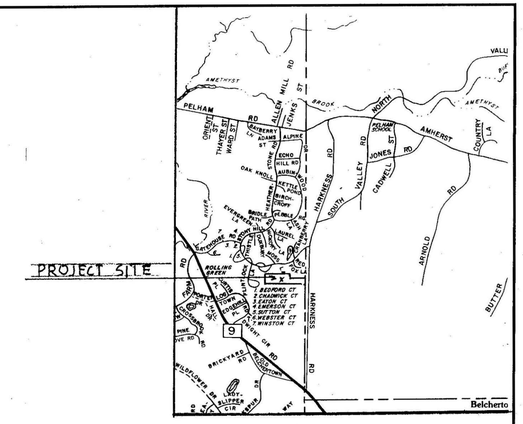
2. Contractor shall notify engineer of any unusual conditions and shall not modify the plan without the written consent of the engineer. All debris in the site area shall be removed and disposed of iin accordance with the law.

3. There is no guarantee express or implied to any user of a system installed pursuant to this plan.

4. The contractor shall notify the Engineer and the Representative of the Amherst Board of Health when the excavation is complete and prior to covering the system. Notification shall be 48 hours prior to the time of inspection.



LEACHING TRENCH CROSS SECTION
(NOT TO SCALE)



VICINITY MAP
Scale: 1" = 2000'

3/21/95
COMMONWEALTH OF MASSACHUSETTS
HAROLD L. STILES
No. 32814
REGISTERED PROFESSIONAL ENGINEER

JEFFREY AND PAMELA WEEKS
25 OLD AMHERST ROAD
BELCHERTOWN, MASSACHUSETTS 01007

ON-SITE SEWAGE DISPOSAL SYSTEM
330 HARKNESS ROAD LOT NO. 2

SCALE: AS SHOWN	APPROVED BY:	DRAWN BY HS
DATE: 3/20/95		REVISED

by: HAROLD L. STILES, P.E.
321 LINCOLN AVE., AMHERST, MA 01002

DRAWING NUMBER

22 X 34 PRINTED ON NO. 1000H CLEARPRINT ®