

561 Flat Hills SEPTIC-

SETER DHAL

LOT 41



Smith, Edmund

From: Alan Weiss [aeweiss@charter.net]
Sent: Wednesday, December 07, 2011 5:55 PM
To: Smith, Edmund
Subject: FW: 561 Flat hills Road studio addition. (Seterdahl)
Attachments: Scan_Doc1025.pdf; Scan_Doc1026a.pdf

Follow Up Flag: Flag for follow up
Flag Status: Completed

Corrected sketch

From: Alan Weiss [mailto:aeweiss@charter.net]
Sent: Wednesday, December 07, 2011 5:49 PM
To: 'Smith, Edmund'
Subject: 561 Flat hills Road studio addition. (Seterdahl)

Ed,

I inspected the additional installation from a studio at the above property yesterday, as we discussed and found it installed property to the plan submitted to your office in 2009.

With the proper burial (freeze protection) **and outlet filter installed** on the septic tank by Buzzy Booth as requested, the installation is considered complete.

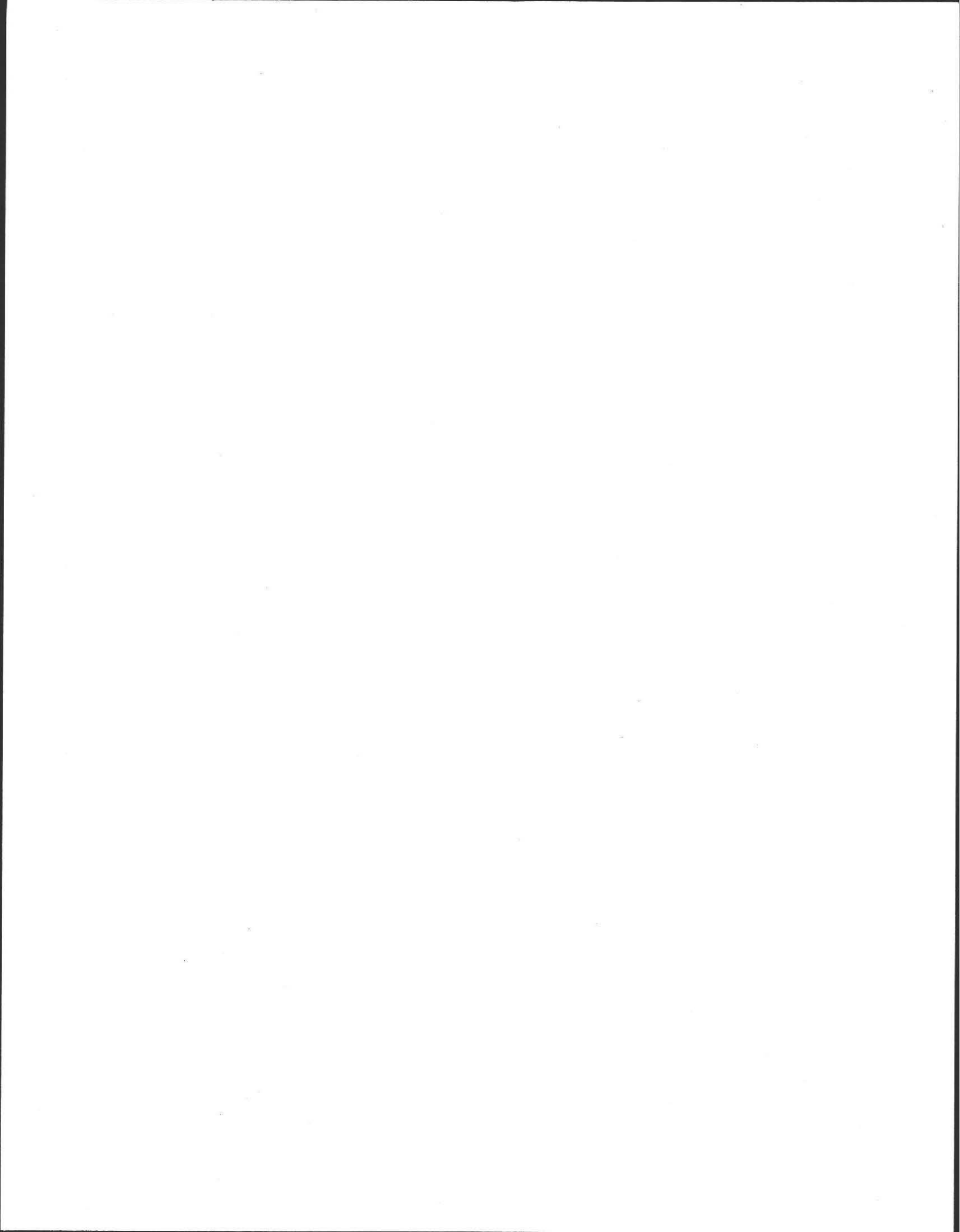
The owner has also been advised to pump the septic tank every 2 years.

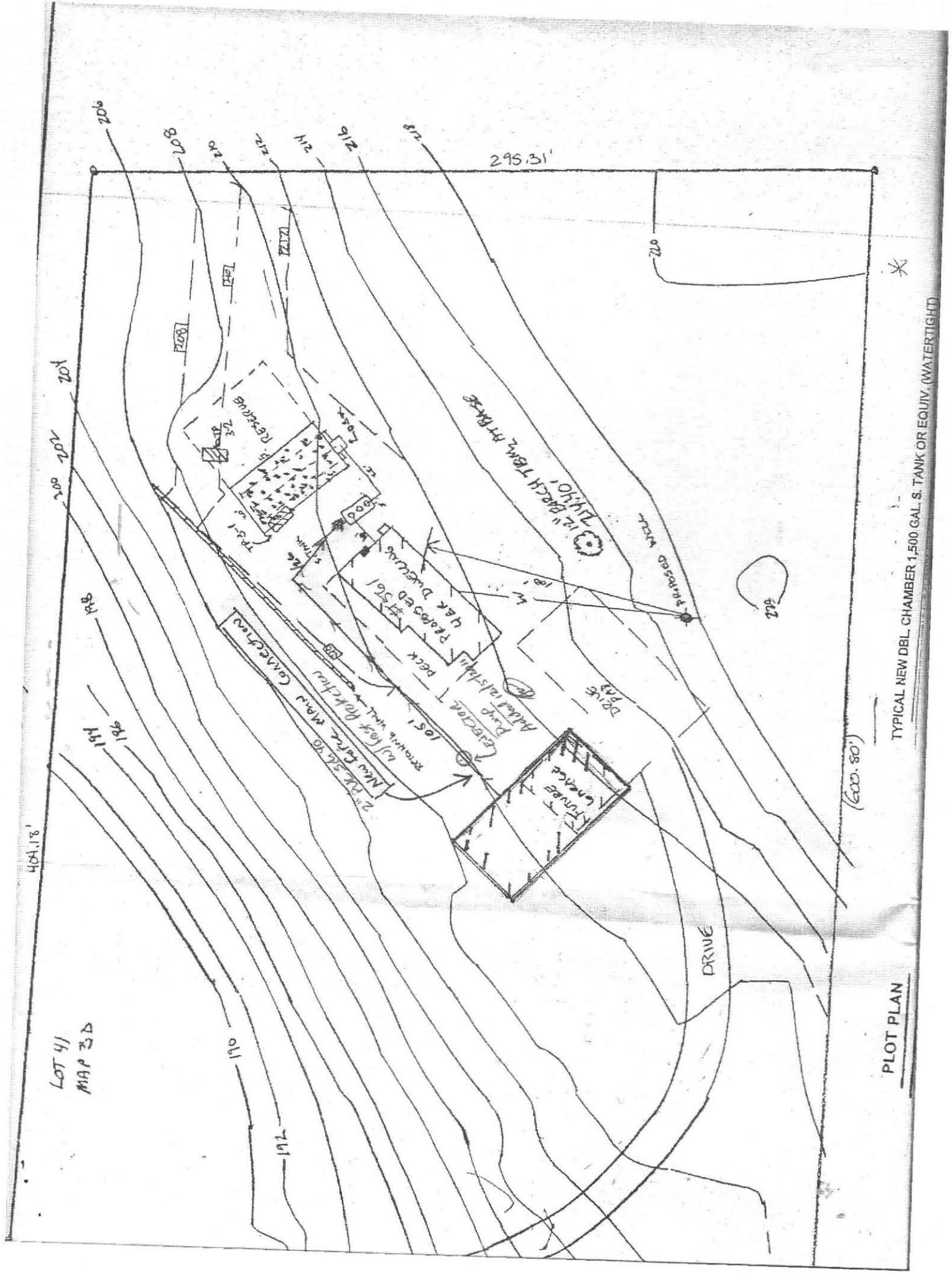
Best,

(Sketch and photos Attached).

Alan
Cold Spring Environmental Consultants Inc.

www.coldspringenvironmental.com





404.13'

LOT 41
MAP 3D

194
195
196
197

190

191

207

208

212

212

216

212

295.31'

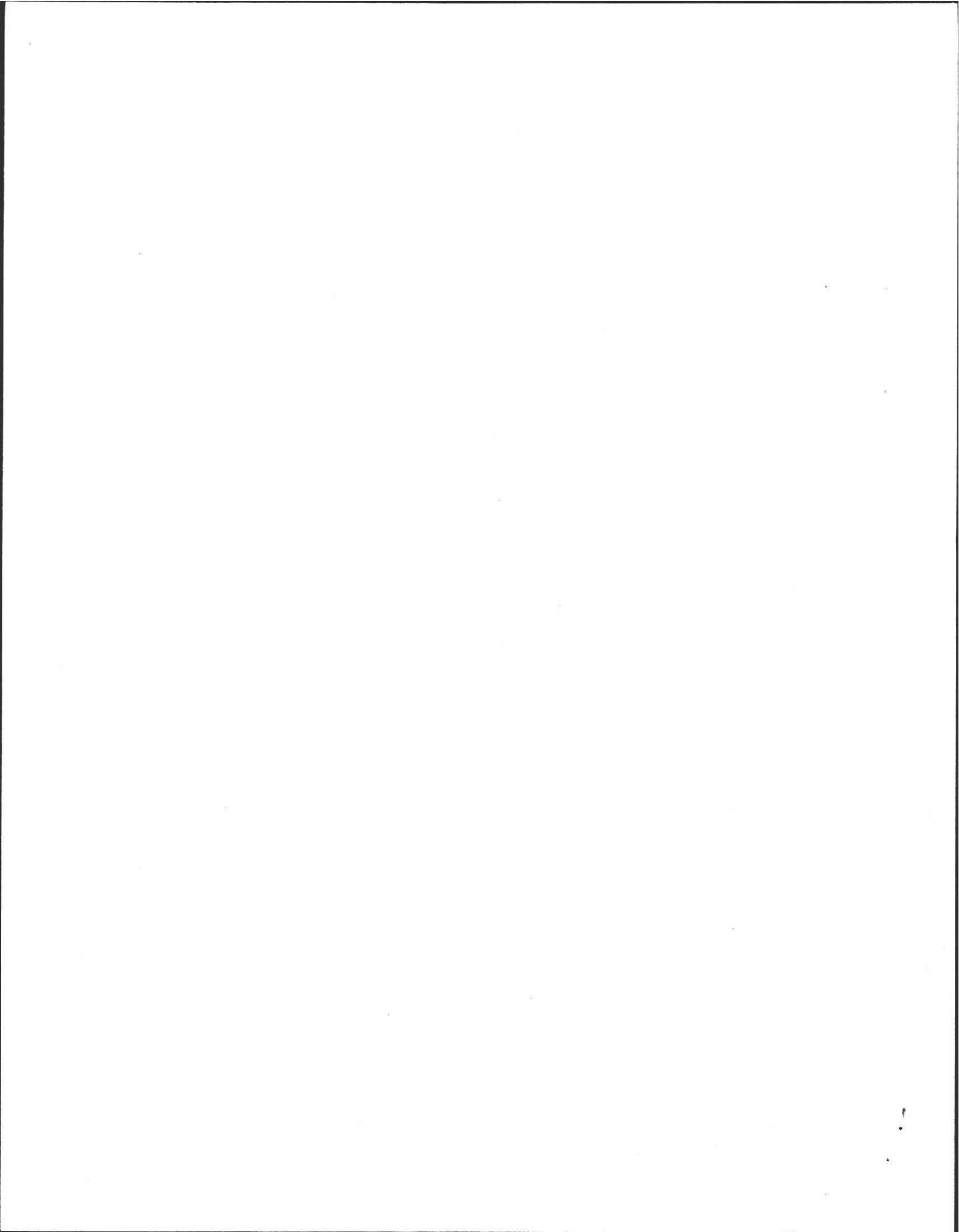
202

202

(600.80')

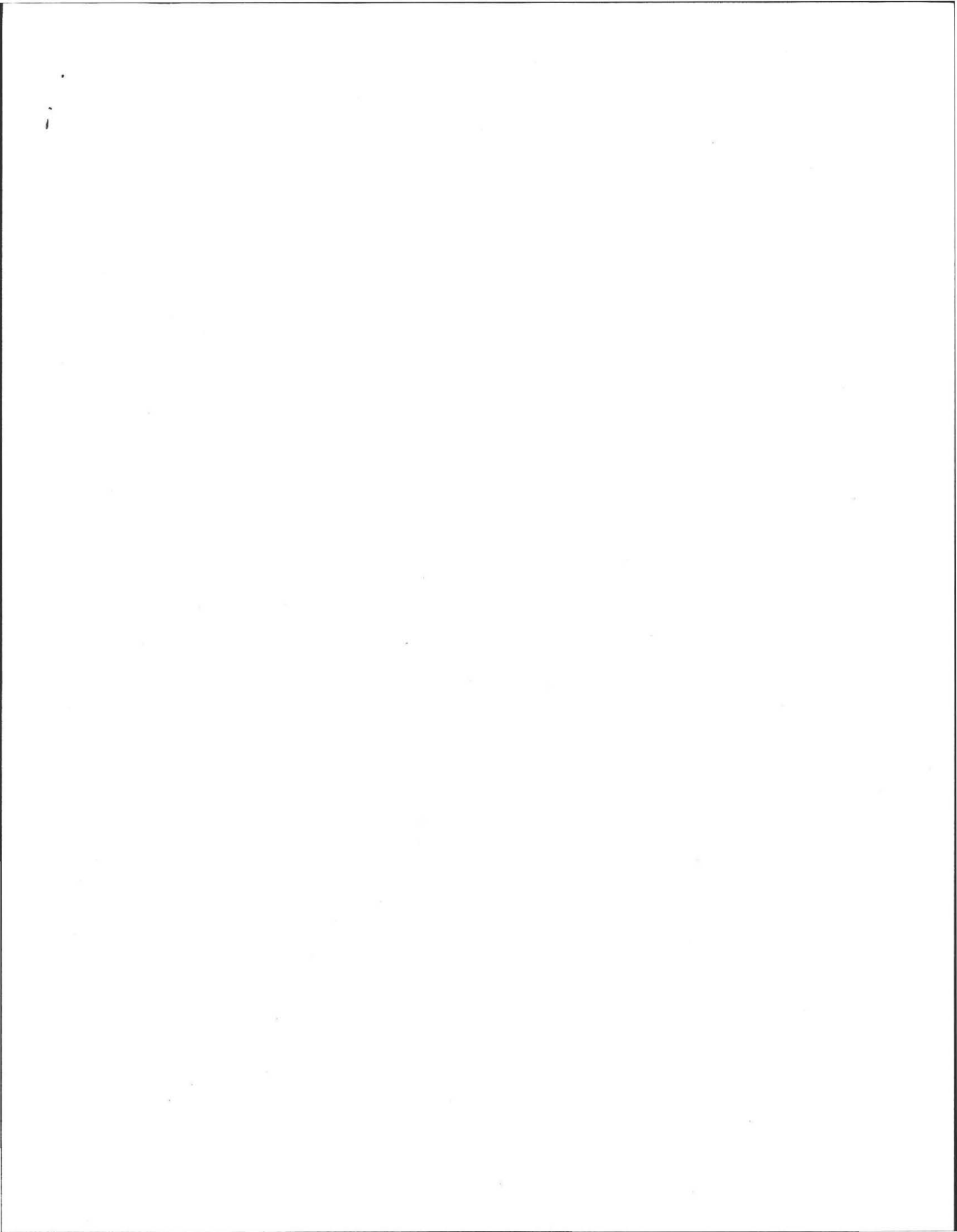
PLOT PLAN

TYPICAL NEW DBL CHAMBER 1,500 GAL. S. TANK OR EQUIV. (WATERTIGHT)



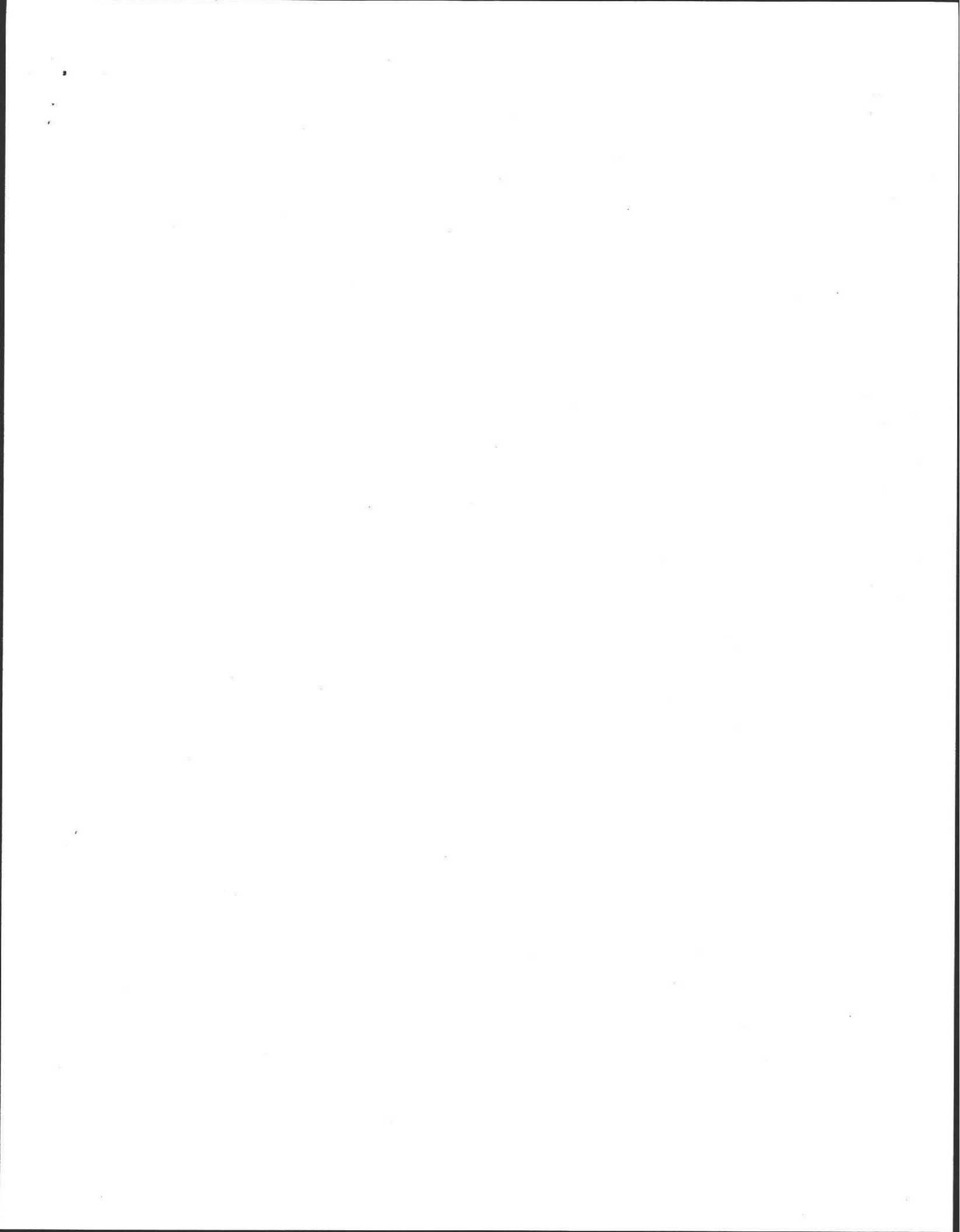


Ejector Pump inlet tee
Seterdahl Property
AMherst, MA
12.06.2011





Ejector Pump
Seterdahl Property
AMherst, MA
12.06.2011



Memo

Gary Courtemanche

To: ~~Ellen Bokina~~, Amherst Sanitarian

CC: Peter Seterdahl, Owner

From: Alan E. Weiss, M.S. R.S.

Date: 6/22/2009

Re: Additional connection to system at 561 Flat Hills Road:

This home was built with a septic system in full compliance in 2001. The system was over designed at that time (4 BR home built with no grinder) using a design flow of 571 GPD. Mr. Seterdahl want to add a garage with a room over and connect the sewer by 2" force main ejector pump enlarge to a 4" prior to a separate 4" "tee" inlet to the existing 1500 gallon two chambered septic tank.

This additional flow meets the Sanitary code in that the system is fully compliant, has pre-existent sufficient design capacity. I show on the plan how the connection is to be run and feel a DEP approved outlet filter with riser to surface should be added to the septic tank outlet tee. This filter should be checked/cleaned by the owner annually. Other than an inspection of the new connection when complete and burial of sch 40 line >36" (where possible with freeze protection elsewhere (1 inch rigid foam or 3" sch 40 sleeve pipe,) , I have no other design recommendations.

Please feel free to contact us with any questions.

Thank You, Alan E. Weiss, M.S.
Phone: 413- 323 -5957

Fax: 323-4916,

aeweiss@charter.net

www.coldspringenvironmental.com

*Thanks Gary,
Peter Seterdahl
home owner
ph 413 222 1519*

1911

Date: 5-6-98

Commonwealth of Massachusetts
Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM SIERUTA ^{PR} EVAR
Witnessed By: DAVID ZARAZINSKI ^{PR} BWH
Date: 5-6-98

Location Address or Lot #
FLAT HILLS ROAD
LOT # 31 NTF RUDERS
DISTRICT PROP
F. RUDER
MARKET HALL ROAD
NORTH ANDOVER, MASS

New Construction Repair

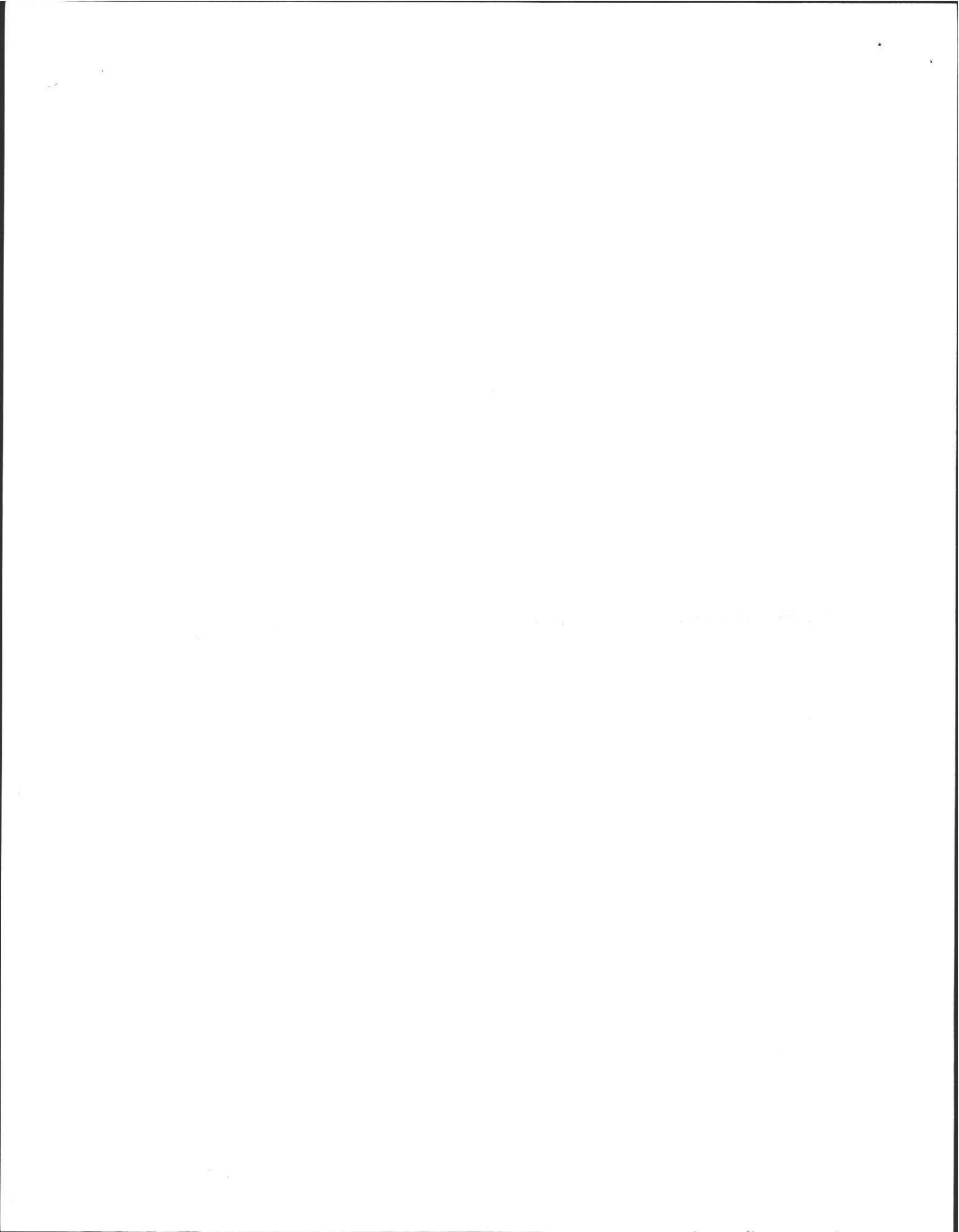
Office Report
Published Soil Survey Available: No Yes
Year Published
Drainage Class
Soil Limitations
Soil Map Unit
Sufficial Geologic Report Available: No Yes
Year Published
Publication Scale

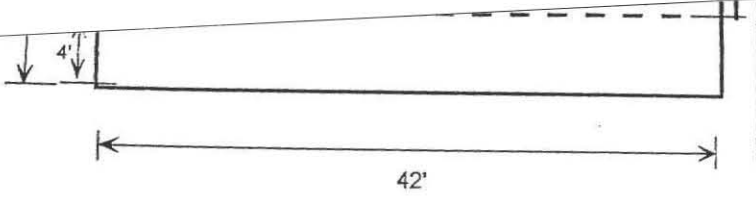
Geologic Material (Map Unit)
Landform
Flood Insurance Rate Map:
Above 500 year flood boundary No Yes
Within 500 year flood boundary No Yes
Within 100 year flood boundary No Yes

Wetland Area:
National Wetland Inventory Map (map unit)
Wetlands Conservancy Program Map (map unit)
Current Water Resource Conditions (USOS): Month
Range Above Normal Normal Below Normal

Other References Reviewed:





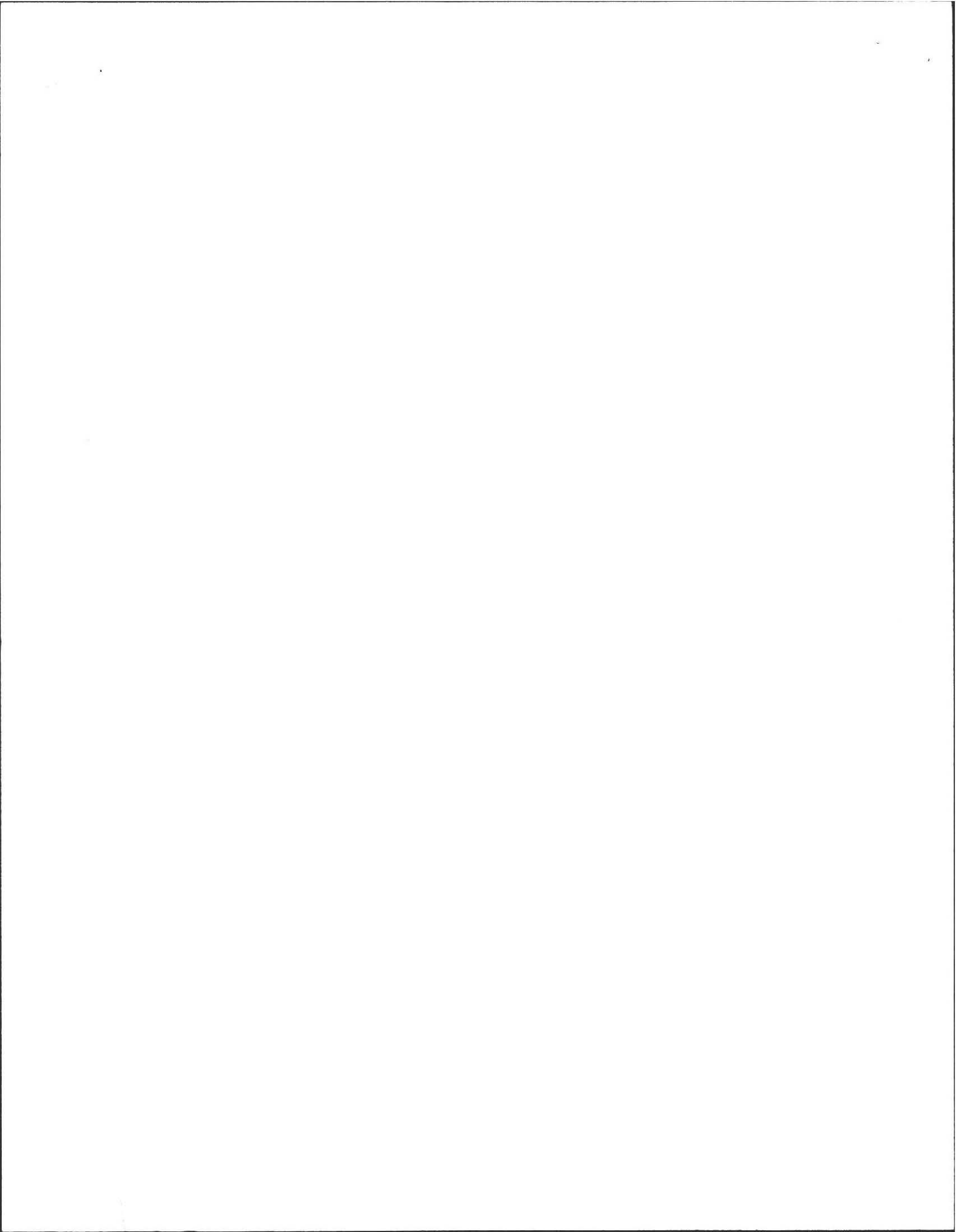


DESIGN NOTES:

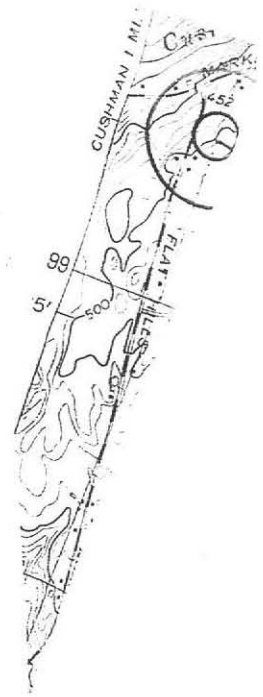
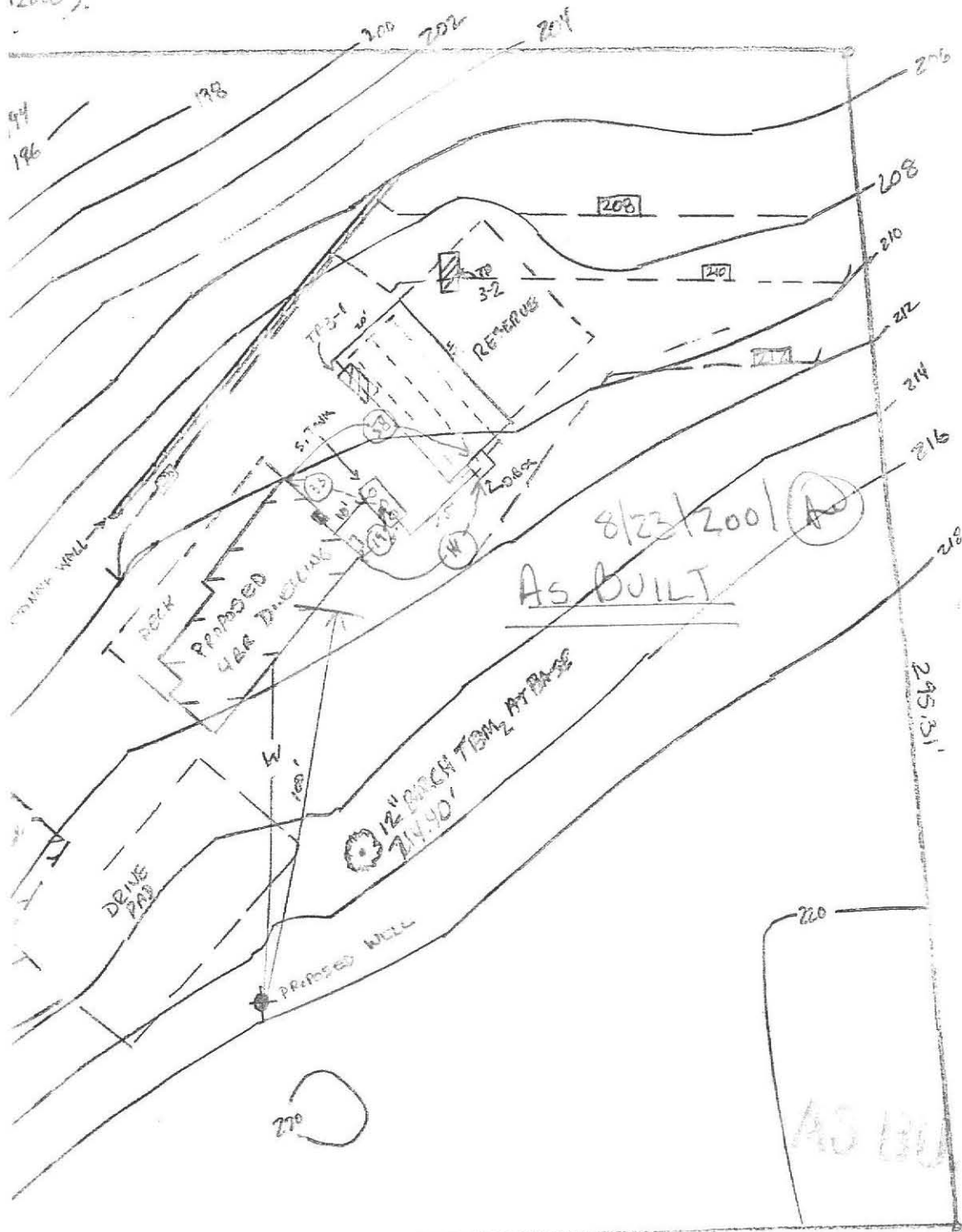
1. 4BR X 110 GAL/PERSONS/DAY = 440 GAL/DAY X 1.25% = 550 GAL/DAY
 -Use ONE Leachfield 20' wide x 42' LONG W/6" of .5' of DBL washed stone below invert.
 Bot. Area: 20' wide x 42' long = 840sf.
 Side Area: N.A.
 Tot. Area: 840 sf x 0.68 gal.sf. = 571 GAL./day.
3. GARBAGE DISPOSAL NOT ALLOWED
4. ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'
5. NO PRIVATE WELLS WITHIN 150 FEET OF SAS, UNLESS NOTED
6. NO WETLANDS WITHIN 150 FEET OF SAS,
7. PRE & POST CONTOURS NOTED AS NECESSARY.
8. RESERVE AREA NOTED
 (NEW S. TANK 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 21" MIN. AS NEEDED.
 CLEAR BEYOND BASE OF B (MIN. 21") UNDER BED PRIOR TO TITLE V SAND PLACEMENT.
11. SOIL EVALUATION BY B. SIRUTA, PE. 05/06/1998.
12. DEPTH OF PERCS. 57" & 54" BY R. SURUTA, PE. 05/06/1998
13. PERC RATE = 6 & 6.3 MIN/IN (7 MIN/IN DESIGN), CLASS I SOIL (LOAMY SAND)
14. INSTALL/INSPECT TEES (10" INLET, 14" OUTLET) ON 1,500 GAL. S. TANK AS NEEDED.
15. USE NEW, 2 CHAMBER 1,500 GAL S. TANK WITH PROPER TEES IN PLACE (w/gas baffle).
16. 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.
17. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD.
18. ENGINEER TO INSPECT SUBGRADE, .
19. T.B.M. 200.00 AT CONCRETE BOUND (TOP) AT ROAD (AS NOTED).
20. GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.

SEPTIC SYSTEM DESIGN PLAN FOR PETER SETERDAHL LOT 41 FLAT HILLS ROAD AMHERST, MA		
SCALE: NOTED	APPROVED BY: <i>AS</i>	DRAWN BY AW
DATE: 4/23/01		REVISED <i>5/5/01</i>
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">8-23-01</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block; margin-left: 20px;">AS BUILT</div>		
COLD SPRING ENVIRONMENTAL INC.		DRAWING NUMBER 101-1298-0122

209.10'

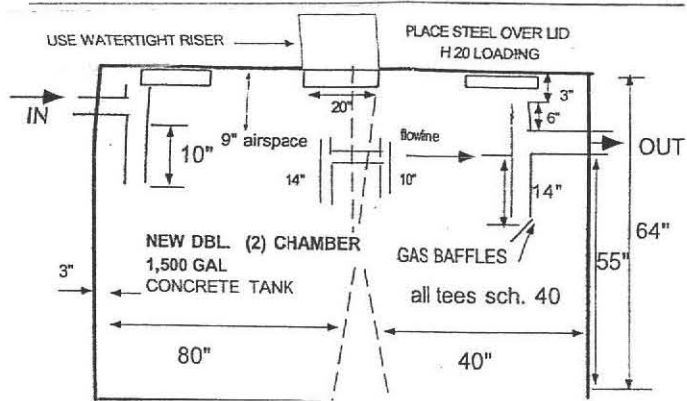


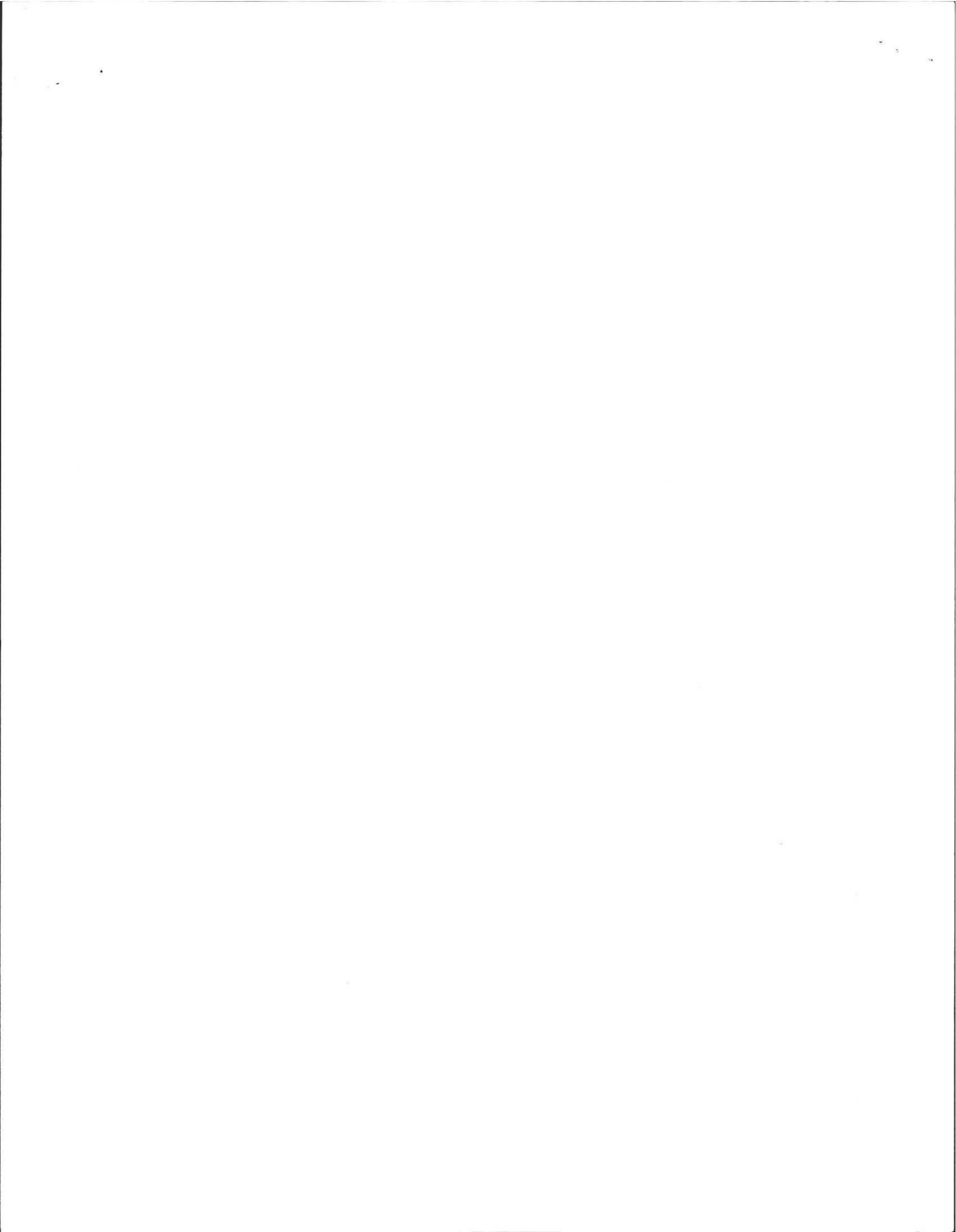
12000



600.50'

TYPICAL NEW DBL. CHAMBER 1,500 GAL. S. TANK OR EQUIV. (WATERTIGHT)





COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMHERST, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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



361

Location	<u>LOT 41 FLAT HILLS RD</u>	Owner's Name	<u>PETER SETERDAHL</u>
Map/Parcel#	<u>MAP 3D / LOT 41</u>	Address	<u>23 FOREST EDGE RD, AMHERST</u>
Lot#	<u>41</u>	Telephone#	<u>549-5427</u>
Installer's Name		Designer's Name	<u>A. Weiss</u>
Address		Address	<u>Beldertown, MA.</u>
Telephone#		Telephone#	<u>413-323-5957</u>

Type of Building Res Lot Size 162,900⁺¹ sq. ft.
 Dwelling - No. of Bedrooms 4 Garbage grinder
 Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other Fixtures _____
 Design Flow (min. required) 440 gpd Calculated design flow 571 Design flow provided _____ gpd
 Plan: Date 4/23/2001 Number of sheets _____ Revision Date _____
 Title SEPTIC SYSTEM DESIGN PLAN FOR PETER SETERDAHL
 Description of Soil(s) CLASS I
 Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 5/6/98

DESCRIPTION OF REPAIRS OR ALTERATIONS NEW, COMPLETE SYSTEM

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

Signed _____ Date _____

Inspections _____

No. _____ FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, MA.

CERTIFICATE OF COMPLIANCE

Description of Work: Individual Component(s) Complete System

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

by: _____

at _____

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

Installer _____

Designer: _____ Inspector: _____ Date: _____

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

No. _____ FEE _____

COMMONWEALTH OF MASSACHUSETTS

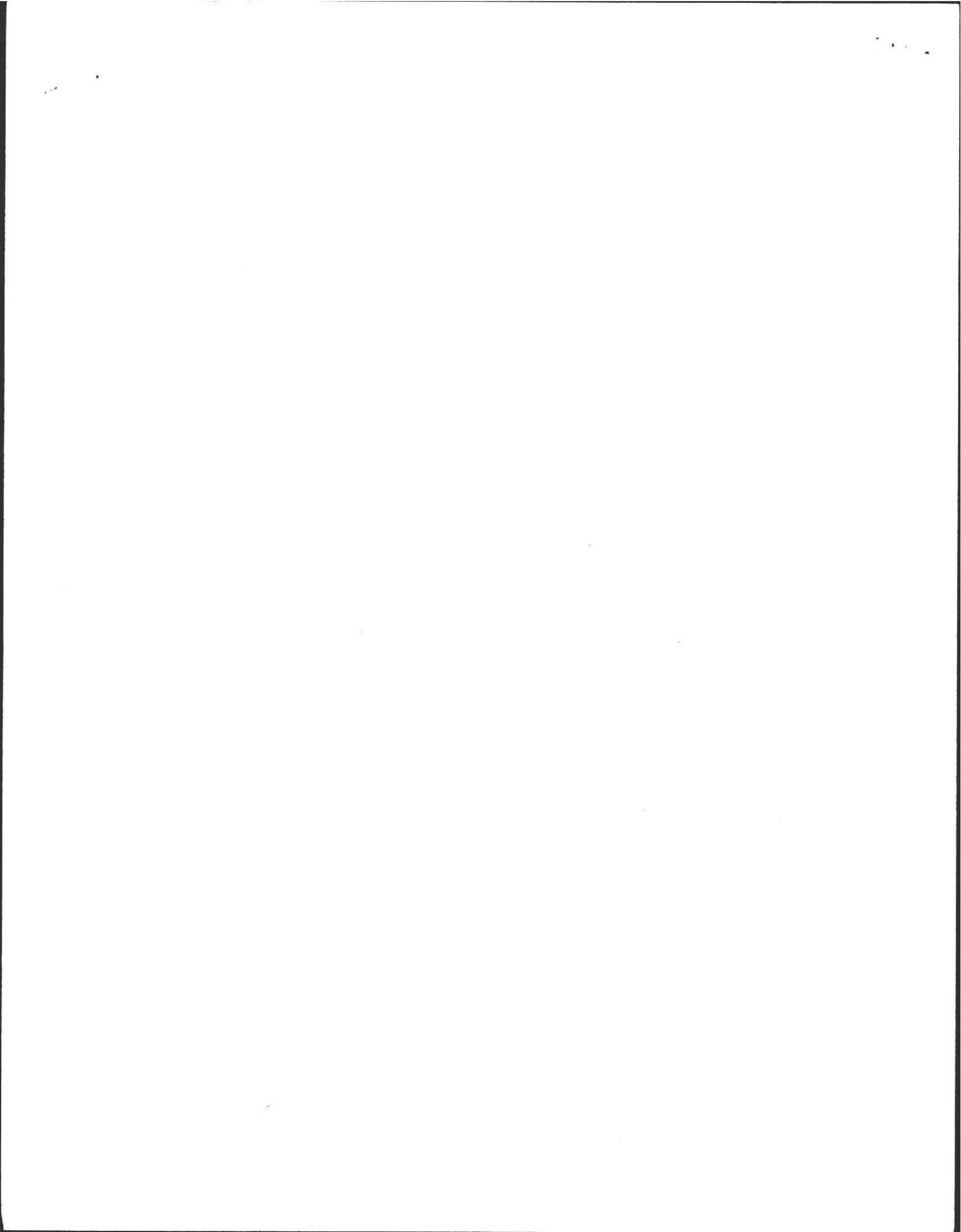
Board of Health, _____, MA.

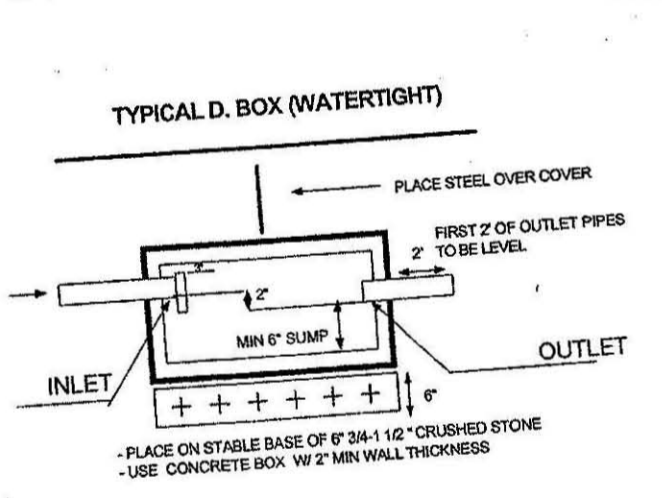
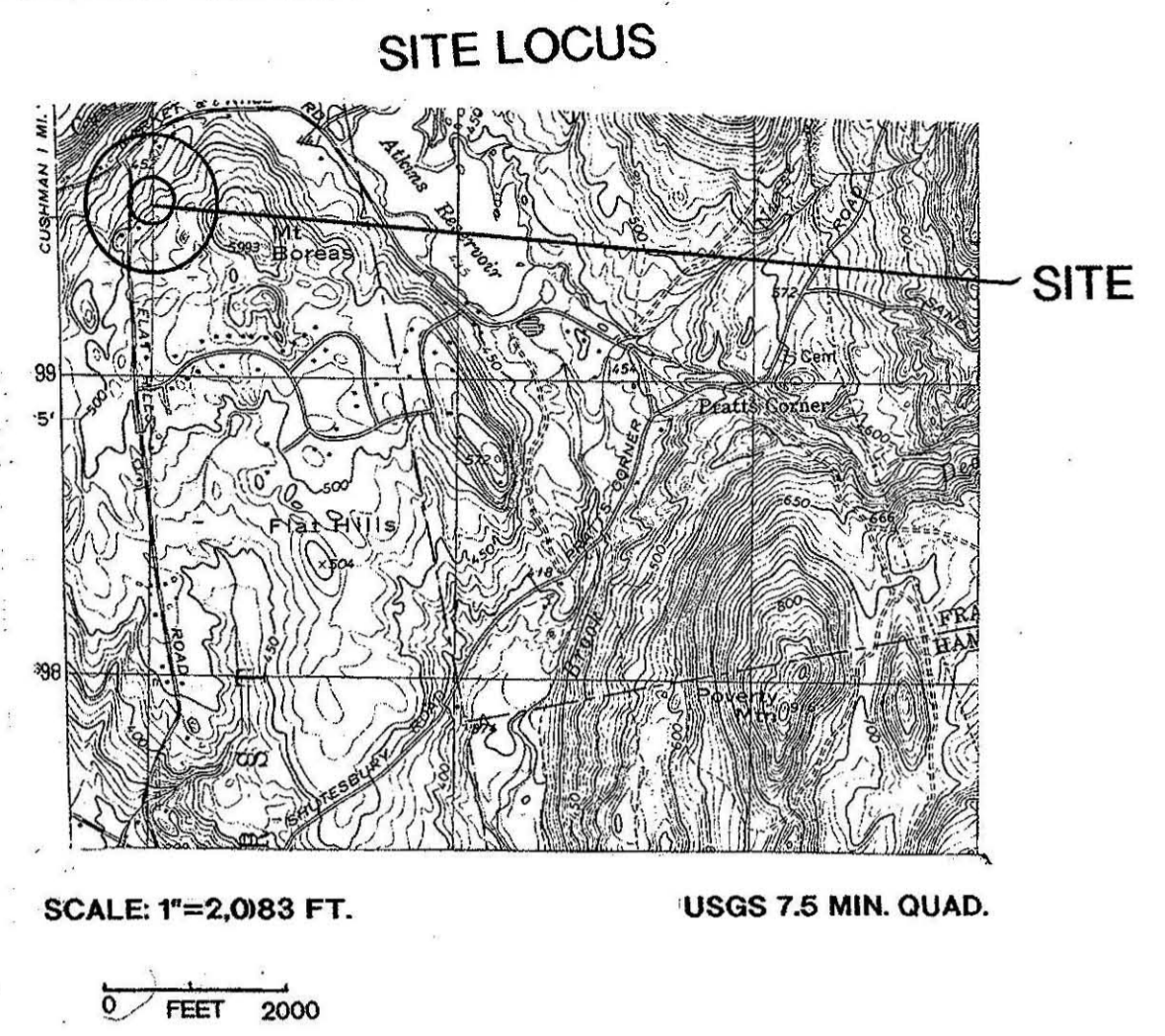
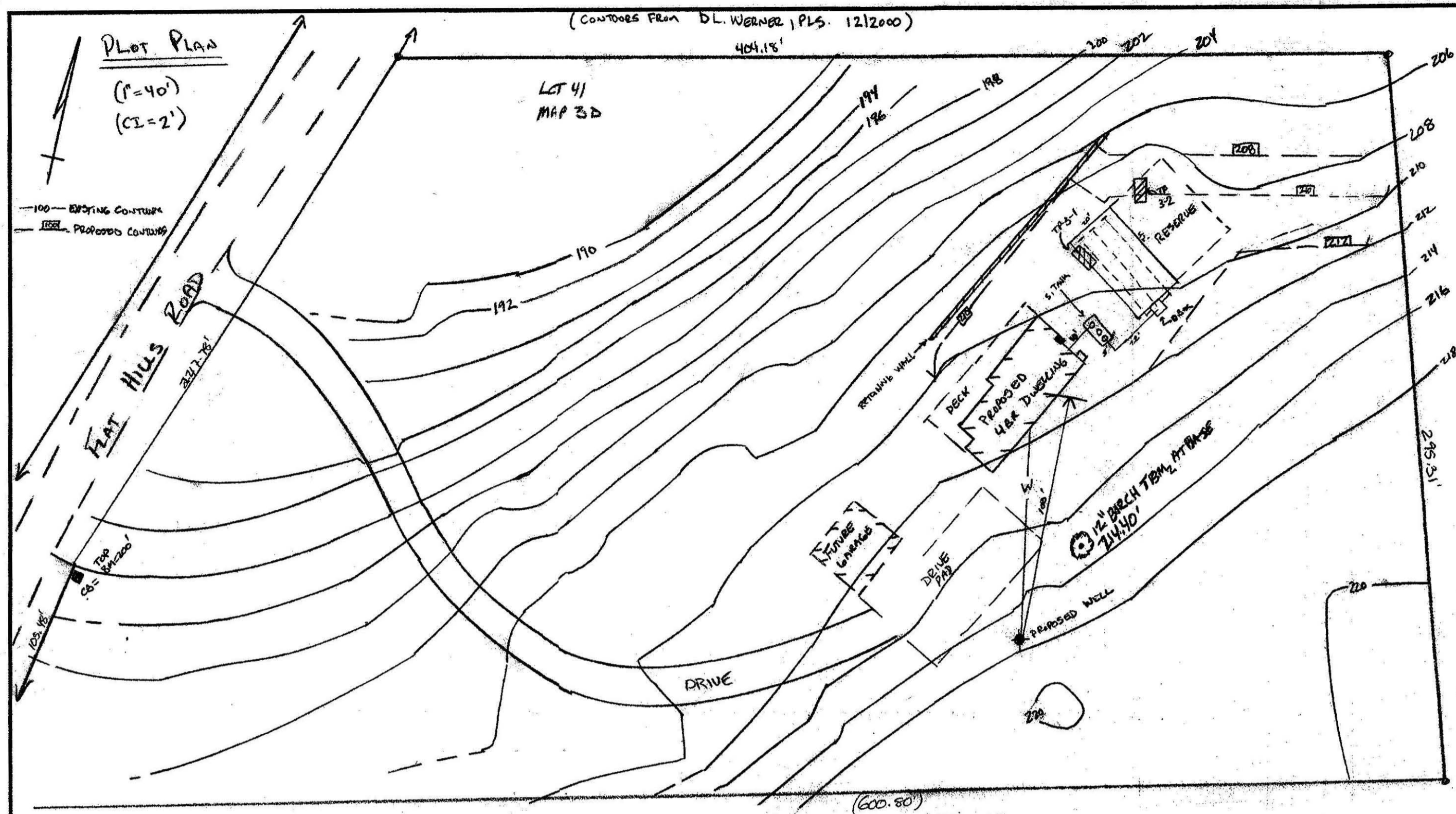
DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system at _____ as described in the application for

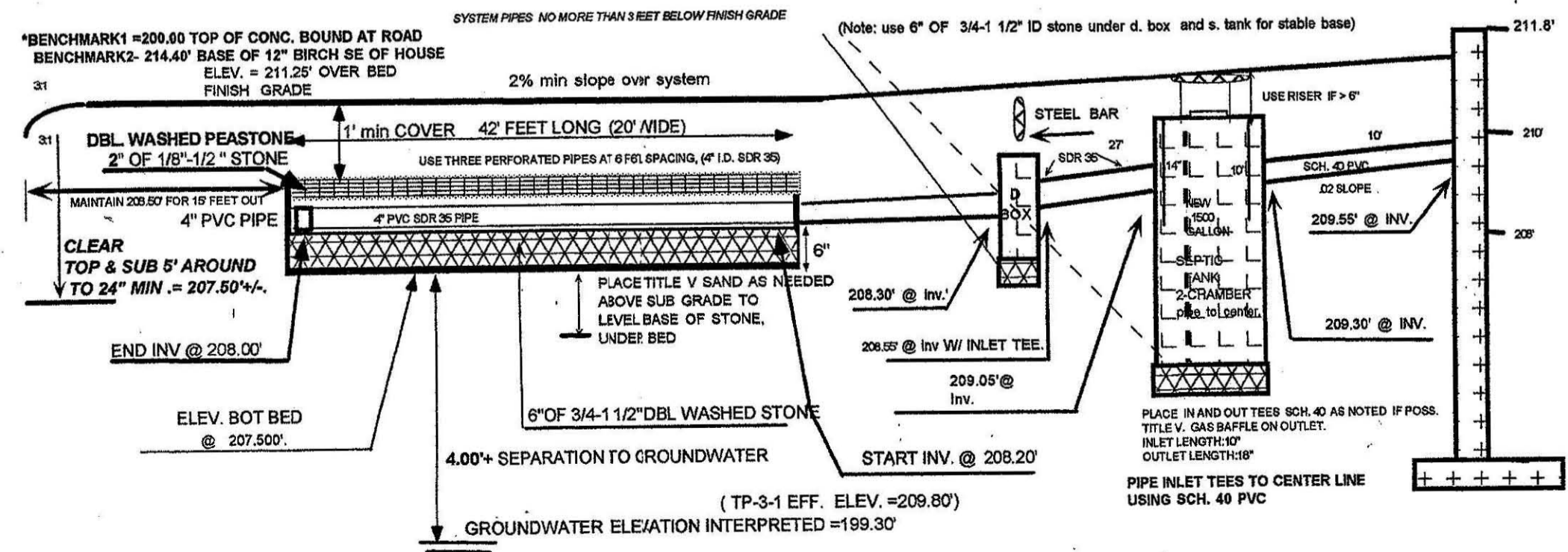
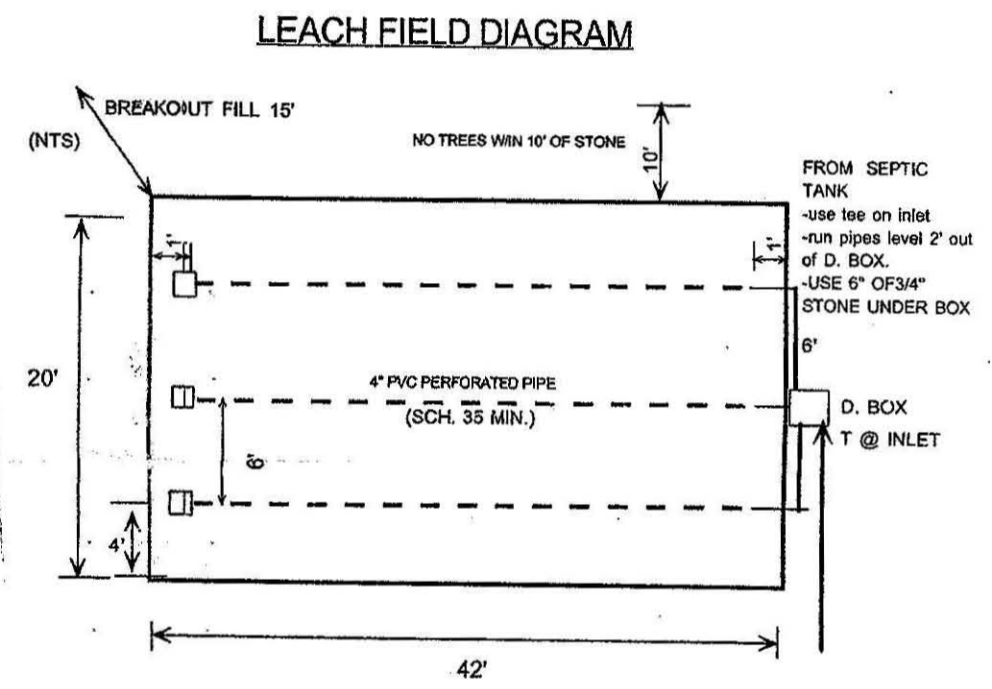
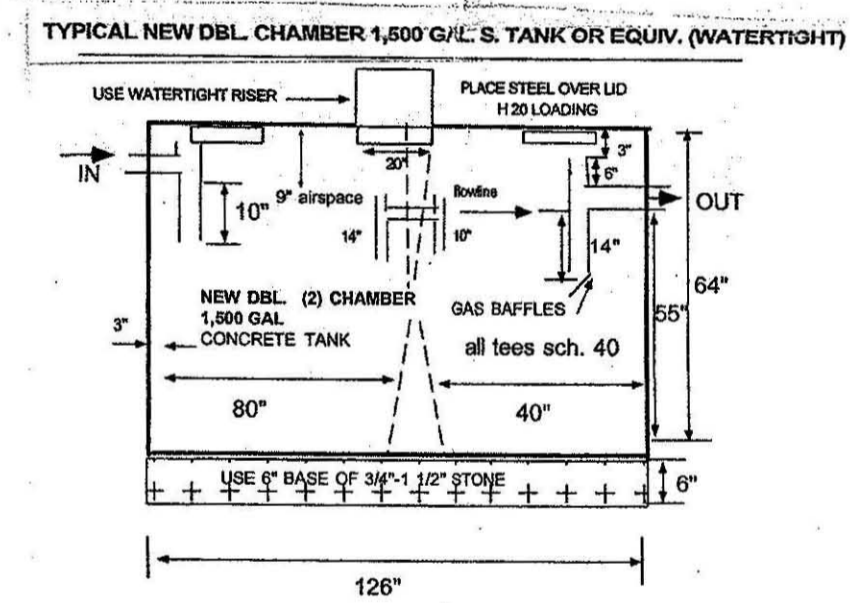
Disposal System Construction Permit No. _____, dated _____.

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





PLOT PLAN
SCALE: 1"=40'



TEST PIT LOG

TP 3-1 EFF. EL. 209.80'		TP 3-2 EL. 209.10'
0-9"	Ap: SANDY LOAM, FRIBLE-LOOSE (10YR 4/2)	0-9"
9-21"	Bw: SANDY LOAM, MASSIVE FRIBLE (10 YR 5/8)	9-21"
21-130"	C1: MASSIVE FRIBLE STRUCTURELESS, LOAMY SAND 15% GRAVEL, 5% BOULDERS, 5% COBBLES (10YR 6/1) (CUTWASH)	21-130"

OXIDES NOT OBS.
ESHWY: 130"=TP 3-1 EFF. 199.30' FOR DESIGN (4" SEPARATION PROVIDED)

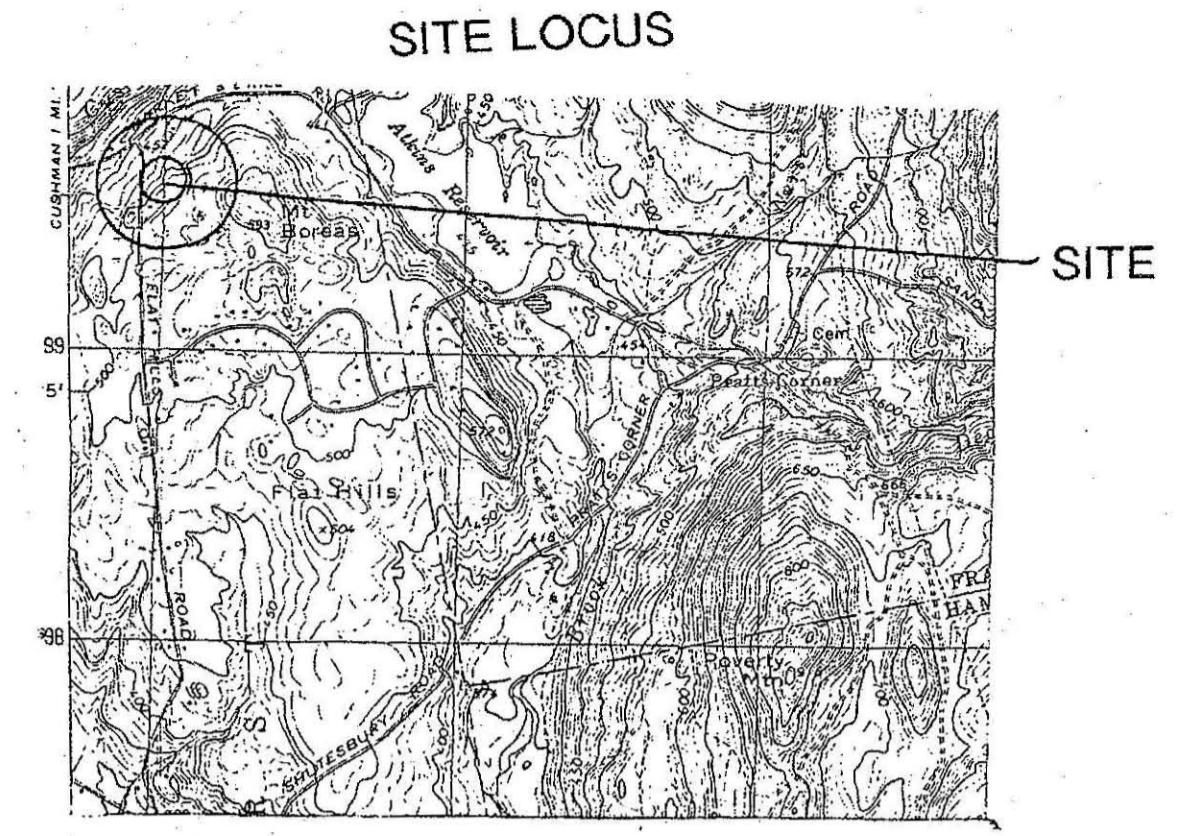
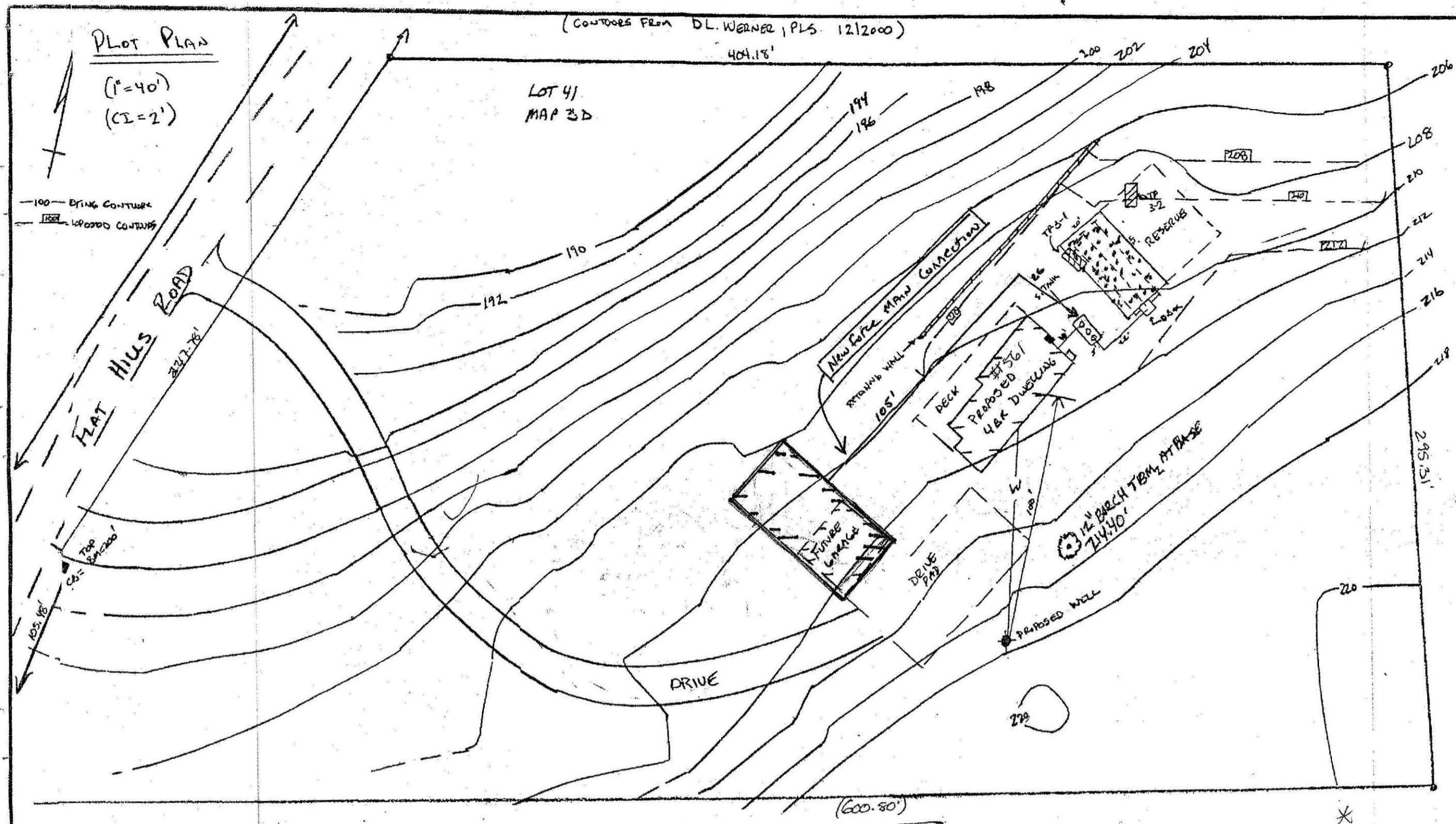
OXIDES @ NOT OBS.
NOT OBSERVED*
130"*

- DESIGN NOTES:**
- 4BR X 110 GAL/PERSONS/DAY = 440 GAL/DAY X 1.25% = 550 GAL/DAY
 - Use ONE Leachfield 20' wide x 42' LONG W/6' of .5' of DBL washed stone below invert.
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 - NO PRIVATE WELLS WITHIN 150 FEET OF SAS, UNLESS NOTED
 - NO WETLANDS WITHIN 150 FEET OF SAS,
 - PRE & IPOST CONTOURS NOTED AS NECESSARY.
 - RESERVE AREA NOTED
(NEW S. TANK MAINTAIN 0.02 PITCH FROM SILL TO S. TANK,
 - SLOPE CALCS (SEE CONTOURS), SUBGRADE INSP. REQ'D.
 - 2% MIN. SLOPE OVER SAS, CLEAR TOP AND SUB TO 21" MIN. AS NEEDED.
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 - SOIL EVALUATION BY B. SIRUTA, PE. 05/06/1998.
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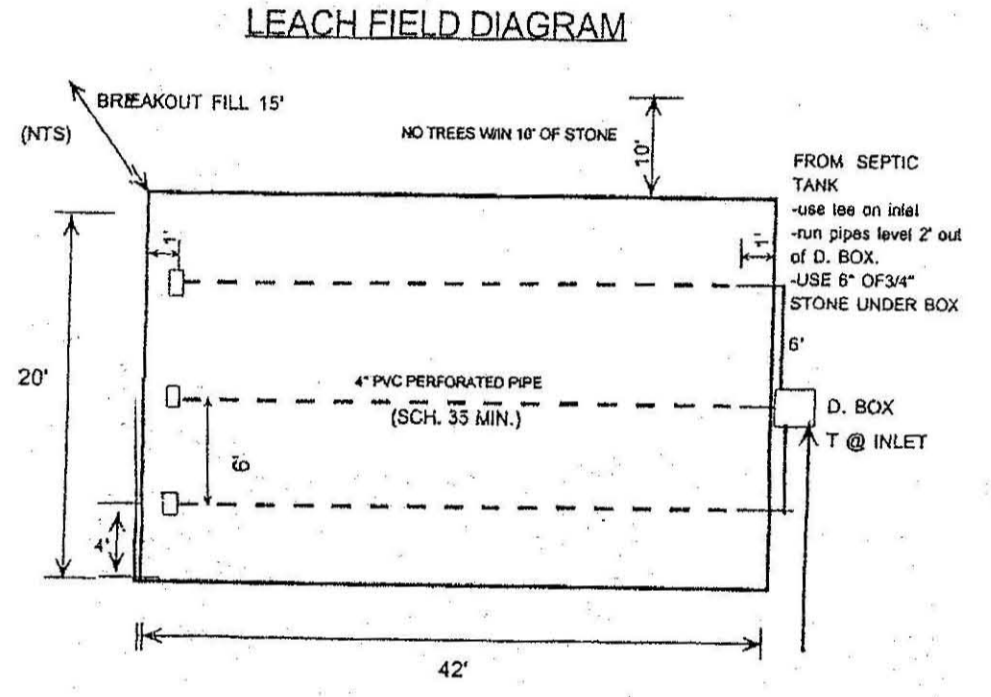
CROSS SECTION OF SEPTIC SYSTEM
NOTE: USE TITLE V FILL ONLY UNDER AND AROUND FIELD TO MEET DESIGN ELEVATIONS AS NOTED ON PLAN AND AS PER 310 15.255 (clear all top and sub prior to fill placement) (EXCAVATE TO STONE ELEVATION) NOTE REGRADING IF SHOWN



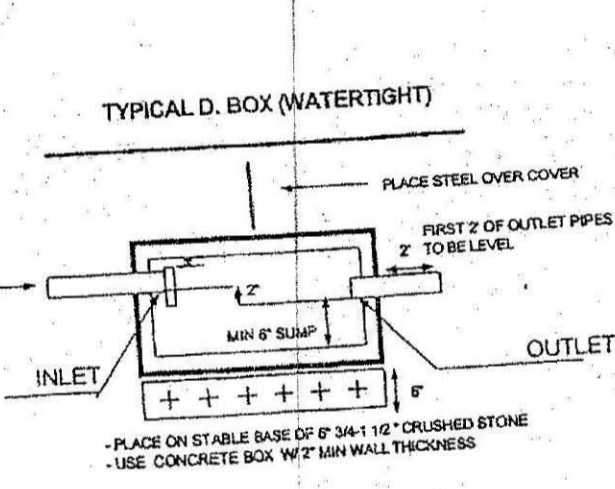
SEPTIC SYSTEM DESIGN PLAN FOR PETER SETERDAHL LOT 41 FLAT HILLS ROAD AMHERST, MA		
SCALE: NOTED	APPROVED BY:	DRAWN BY AW
DATE: 4/23/01		REVISED: 5/16
COLD SPRING ENVIRONMENTAL INC.		DRAWING NUMBER 101-1298-0122



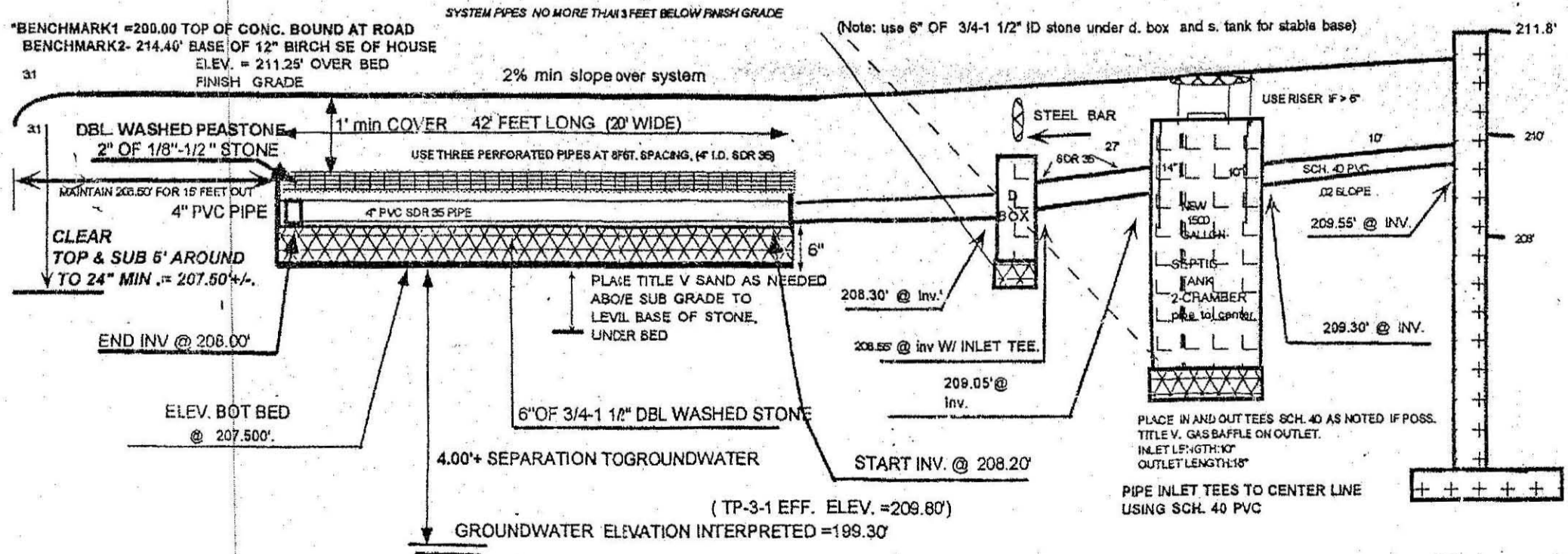
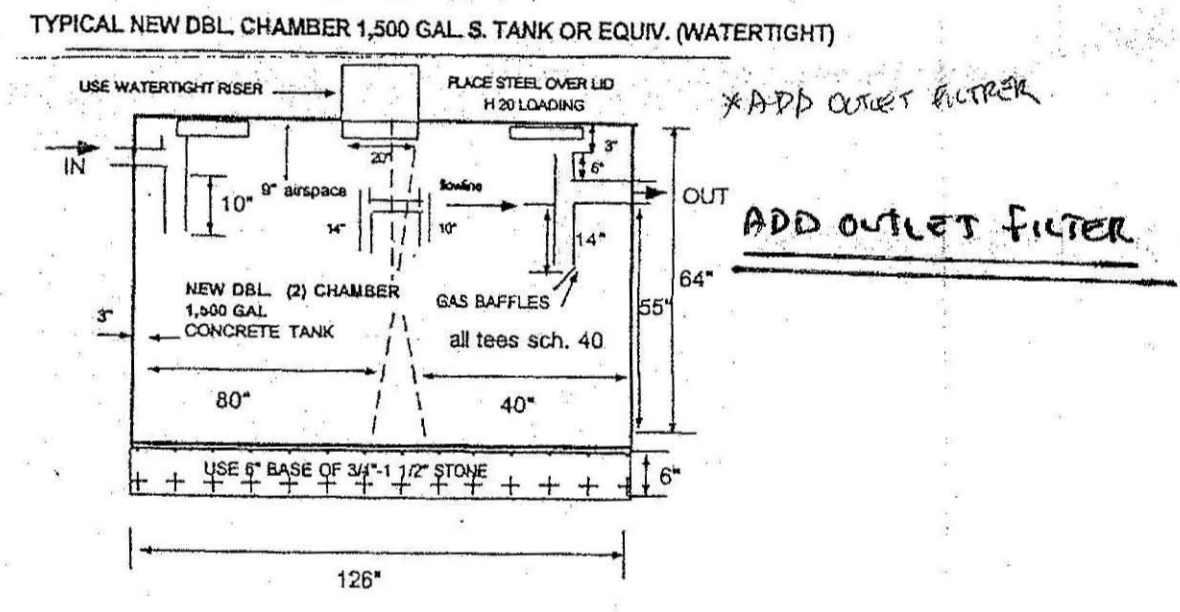
SCALE: 1"=2,083 FT. USGS 7.5 MIN. QUAD.
0 FEET 2000



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PLOT PLAN
SCALE: 1"=40'



TEST PIT LOG

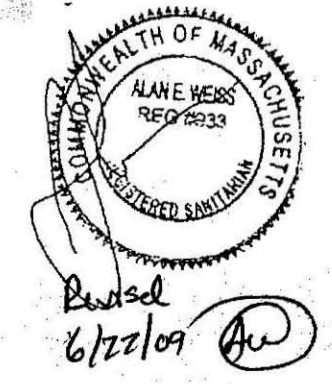
TP 3-1 EFF. EL. 209.80'		TP 3-2 EL. 209.10'
0-4"	A1 SANDY LOAM, FRABLE/LOOSE (10YR 4G)	0-9"
4-21"	B2C SANDY LOAM, MASSIVE FRABLE (10 YR 5B)	9-21"
21-130"	C1 MASSIVE FRABLE STRUCTURELESS, LOAMY SAND (10YR 6Y1) (OUTWASH)	21-130"

OXIDES NOT OBS. OXIDES @ NOT OBS.
ESHWT: 137°-N TP-3-1 EFF. 199.30' FOR DESIGN (4' SEPARATION PROVIDED)
NA* STANDING H2O WEPPING FROM FACE NOT OBSERVED*
130° REDDICK 130°

NOTE: USE TITLE V FILL ONLY UNDER AND AROUND FIELD TO MEET DESIGN ELEVATIONS AS NOTED ON PLAN AND AS PER 310 15.265 (clear all top and sub prior to fill placement) (EXC. VATE TO STONE ELVATION) NOTE REGRADING IF SHOWN

OWNER _____
CONTRACTOR _____
DATE 6/3/01

CONTRACT SET



SEPTIC SYSTEM DESIGN PLAN FOR PETER SETERDAHL LOT 41 FLAT HILLS ROAD AMHERST, MA.		
SCALE: NOTED	APPROVED BY: <i>[Signature]</i>	DRAWN BY: AW
DATE: 4/23/01		
DRAWING NUMBER		
COLD SPRING ENVIRONMENTAL INC.		101-1298-0122