

222 FUAT HILLS



**William J. Sieruta, P.E.**  
**46 Upland Road**  
**Holyoke, MA. 01040**

RECEIVED  
6/20/06

Board of Health  
Town Hall Annex  
70 Boltwood Walk  
Amherst, MA. 01002

June 20, 2006

Subject: Tom Perron  
222 Flat Hills Road  
Amherst, MA.

An "as built" inspection was completed for the subject septic system. The system is in compliance with 310 CMR 15.0 and local board of health regulations. If you have any questions or need any further information, please do not hesitate to contact me.

Very truly yours,

*William J. Sieruta, P.E.*

William J. Sieruta, P.E.

(MBS)

2 cc: T. Perron

WJS:mbs

10/10/10

10/10/10  
10/10/10  
10/10/10

10/10/10  
10/10/10  
10/10/10

10/10/10

10/10/10  
10/10/10  
10/10/10

10/10/10  
10/10/10  
10/10/10  
10/10/10  
10/10/10

10/10/10

10/10/10  
10/10/10

10/10/10

10/10/10

CHK# 4281 FEE 300



COMMONWEALTH OF MASSACHUSETTS Board of Health, Amherst, MA. 2005 - Rec Fee 175 2006 Plan Fee 125

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

300

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

Location <u>TOM PERRON</u>	Owner's Name <u>TOM PERRON</u>
Map/Parcel# <u>222 FLAT HILLS RD</u>	Address <u>222 FLAT HILLS RD</u>
Lot# <u>AMHERST MASS</u>	Telephone# <u>253 5049</u>
Installer's Name	Designer's Name <u>WILLIAM SIERUTA</u>
Address	Address <u>46 UPLAND RD</u>
Telephone#	Telephone# <u>HOCTON MA 532 8525</u>

Type of Building RESIDENTIAL HOME Lot Size EXIST sq. ft.  
 Dwelling - No. of Bedrooms 4 BED ROOMS NO DISPOSAL Garbage grinder N/C  
 Other - Type of Building SINGLE FAMILY No. of persons 8 Showers (Y), Cafeteria (N)  
 Other Fixtures FULL BMT  
 Design Flow (min. required) 110 x 4 gpd Calculated design flow 440 Design flow provided 448 gpd  
 Plan: Date 11/21/05 Number of sheets - Revision Date -  
 Title SEPTIC SYSTEM DESIGN FOR TOM PERRON 222 FLAT HILLS  
 Description of Soil(s) SEE ATTACHED  
 Soil Evaluator Form No. 11 Name of Soil Evaluator WJ SIERUTA Date of Evaluation 5/4/05

DESCRIPTION OF REPAIRS OR ALTERATIONS complete septic system upgrade to 310 CMR 15.0

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 X Thomas Perron Date 3-14-06

Inspections \_\_\_\_\_

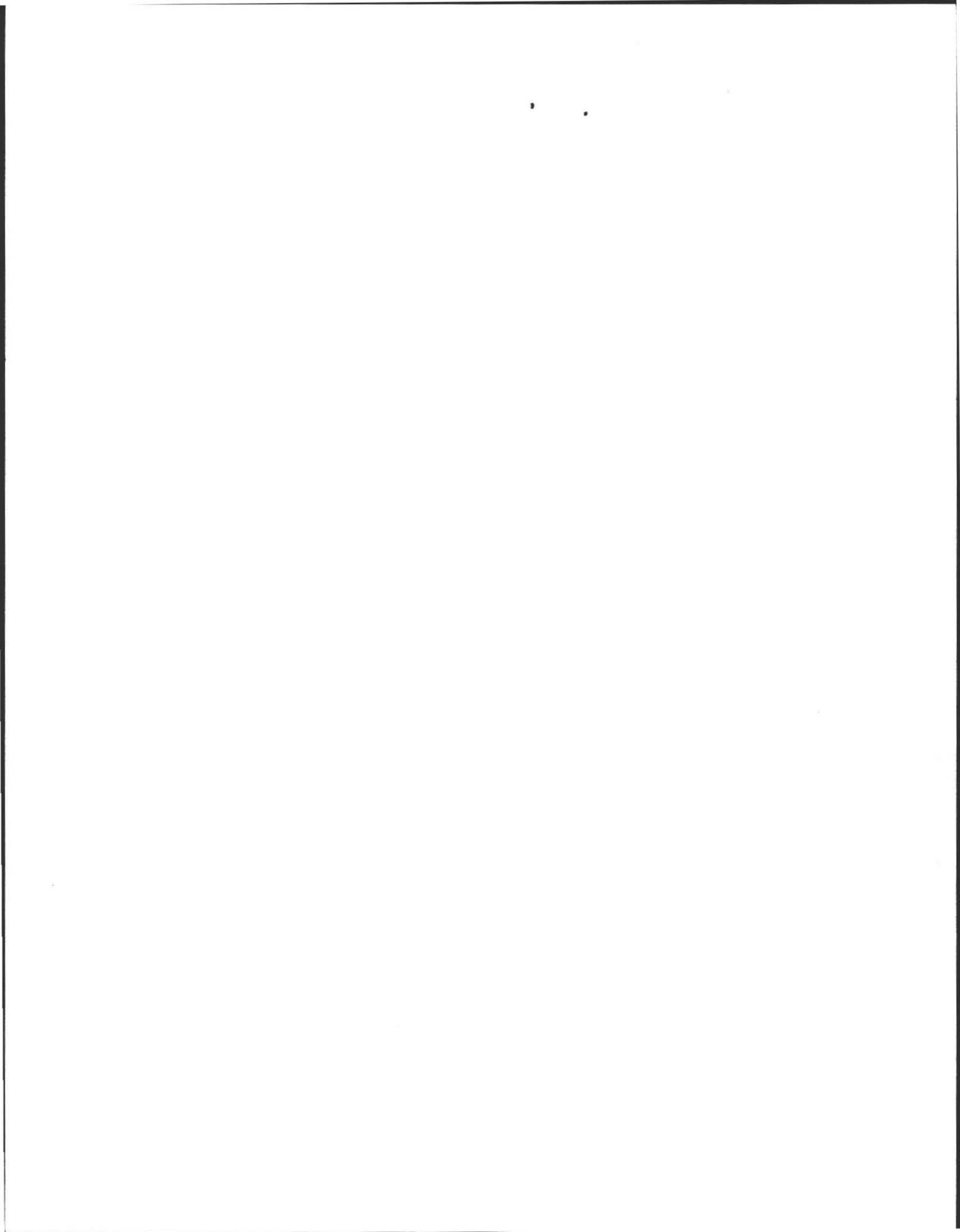
No. 06-04

FEE 300

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 222 Flat Hills 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. 06-04, dated Nov 21, 05. Approved Design Flow \_\_\_\_\_ (gpd) Rec 4/11/06  
 Installer: \_\_\_\_\_  
 Designer: William Sieruta Inspector: Paul Payne Date: 6/12/06



**PERCOLATION TEST INFORMATION**

TEST PIT TPI-1

TEST PIT TPI-2

8	OTS LOAM	A0 SANDY LOAM 104R-2	0-8
9	SANDY SILTY SUB SOIL	B0 SANDY LOAM 104R-3	8-17
68	LIGHT GRAVEL TILL	C1 SANDY LOAM 104R 6-3	17-85
	HIGH % SAND	10% GRAVEL 10% COBBLES	
36	GRAVEL TILL	C2 SANDY LOAM 104R 6-4	85-121

9	OTS LOAM	A0 SANDY LOAM 104R-2	0-9
17	SANDY SILTY SUB SOIL	B0 SANDY LOAM 104R-3	9-17
64	LIGHT GRAVEL TILL	C1 SANDY LOAM 104R 6-3	17-81
	HIGH % SAND	10% GRAVEL 10% COBBLES	
40	GRAVEL TILL	C2 SANDY LOAM 104R 6-4	81-121

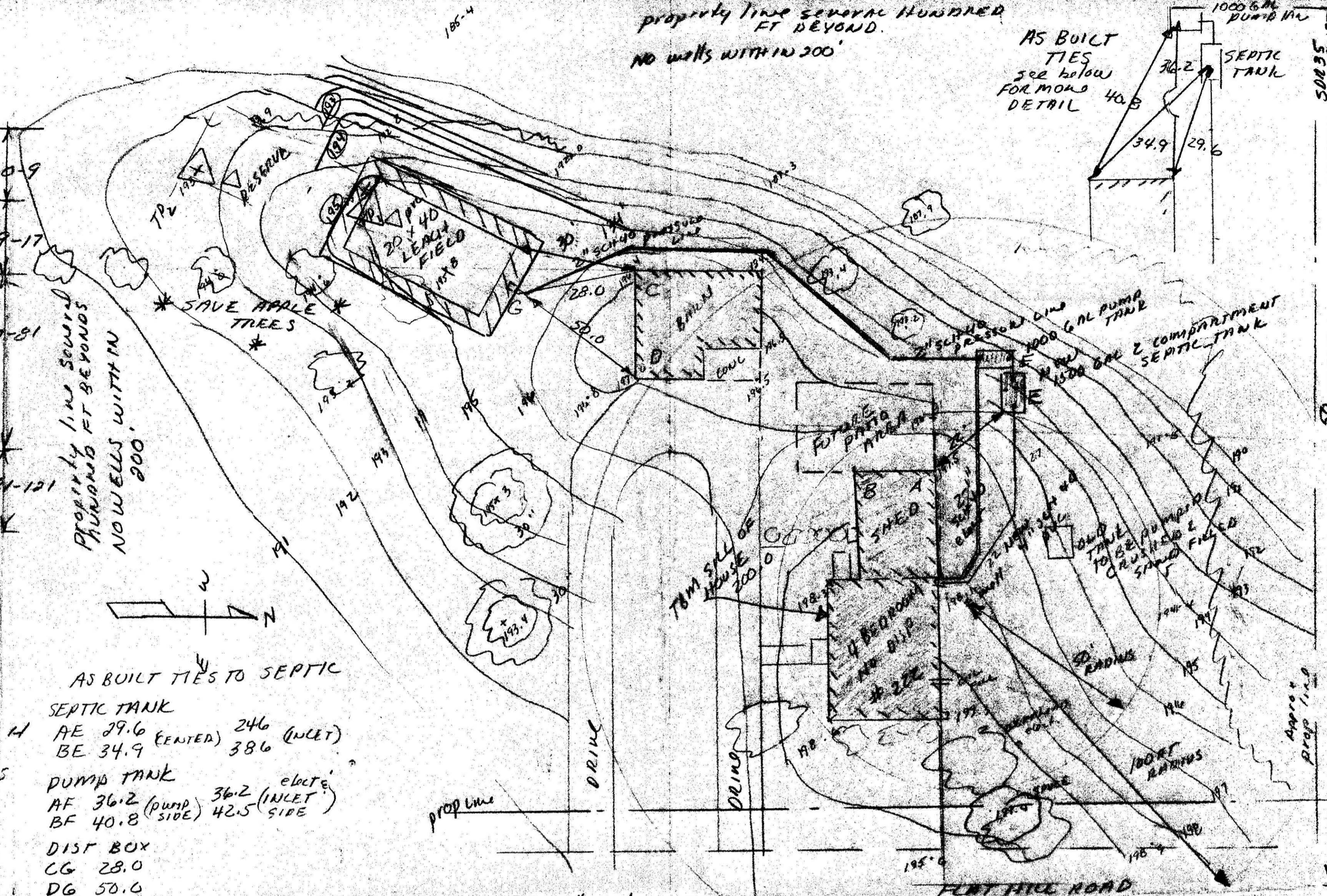
WEeping @ 97"  
WATER @ 97"  
MOTTLING 104R58  
104R6-1  
@ 81"  
ENWT 81"

H2O @ 84"  
WEeping @ 84"  
MOTTLING 104R58  
104R6-1  
@ 72"  
ENWT 72"

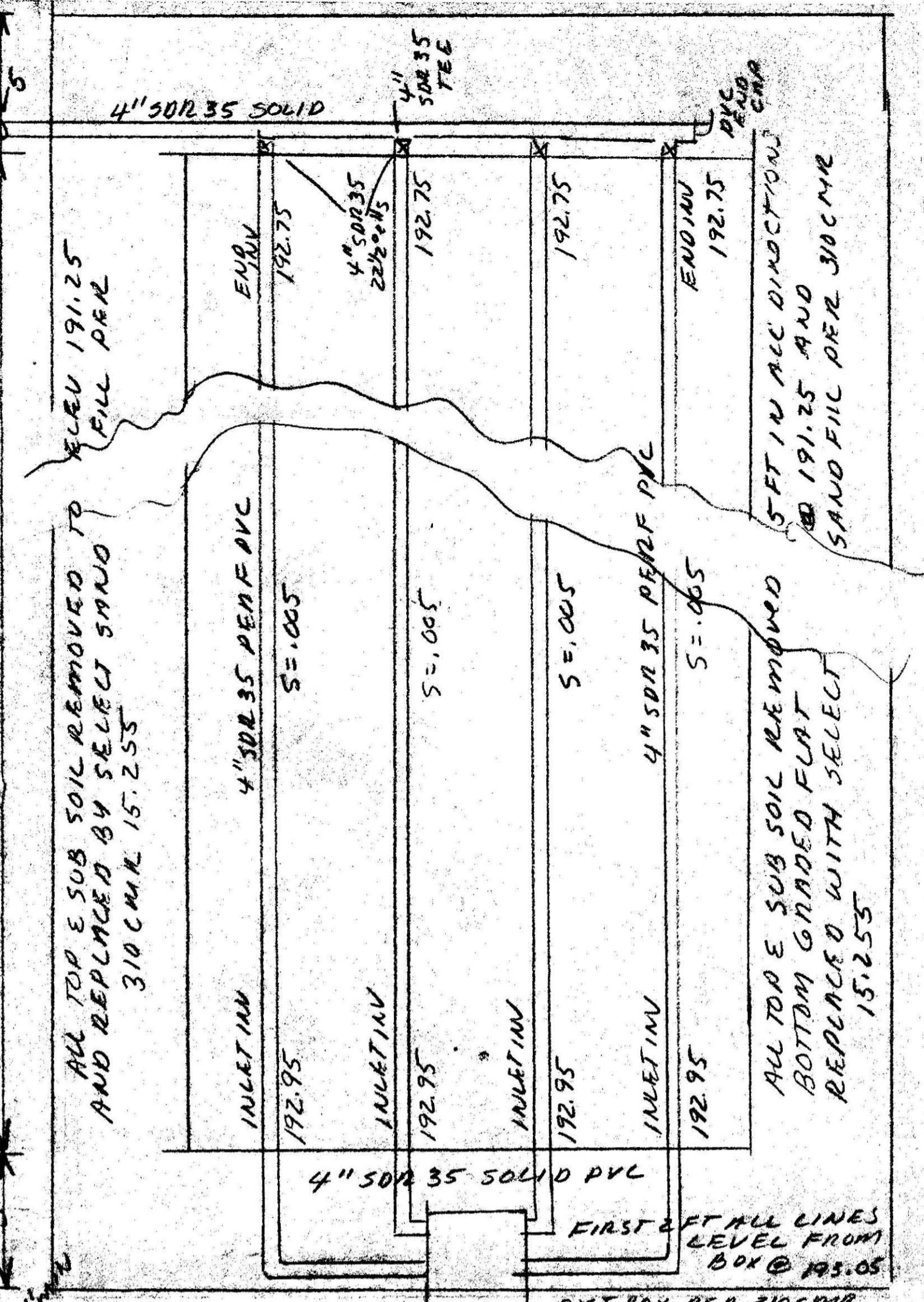
DATE: 5-4-05  
ENGR: WJ SIERUTA PE E EVM  
WITNESS: D. ZARAZINSKI B04  
PERMEABILITY PERC 1 @ TPI-1  
DEPTH 49"  
ACTUAL RATE 10.33 MIN/INCH  
DESIGN RATE 15.0 MIN/INCH  
48" SEPARATION REQD  
PER 310 CMR 15.212

PERC 2 WAIVED BY B04  
REPAIR SYSTEM IN CONSISTENT SOILS

AS BUILT TIES TO SEPTIC  
SEPTIC TANK  
AE 29.6 (INLET) 246  
BE 34.9 (OUTLET) 386  
PUMP TANK  
AF 36.2 (PUMP) 36.2 (INLET) e/c/r  
BF 40.8 (SIDE) 42.5 (SIDE)  
DIST BOX  
CG 28.0  
DG 50.0



PLAN VIEW SCALE 1"=20'



DIST BOX PER 310 CMR 15.232

**DESIGN INFORMATION**  
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.0 TIRE 5 AND ALL LOCAL BOARD OF HEALTH REGULATIONS  
FINISH GRADING TO BE AS SHOWN ON PLAN VIEW. ALL DISTURBED AREAS TO BE LOAMED AND SEEDD

**DESIGN CRITERIA**  
USE: EXISTING SINGLE FAMILY RESIDENTIAL HOME  
4 BEDROOMS NO DISPOSAL UNIT  
FULL BMT

DESIGN FLOW: 310 CMR 15.203  
REQD 110 GALS/BEDROOM x 4 = 440 GALS DAY  
NO DISPOSAL UNIT

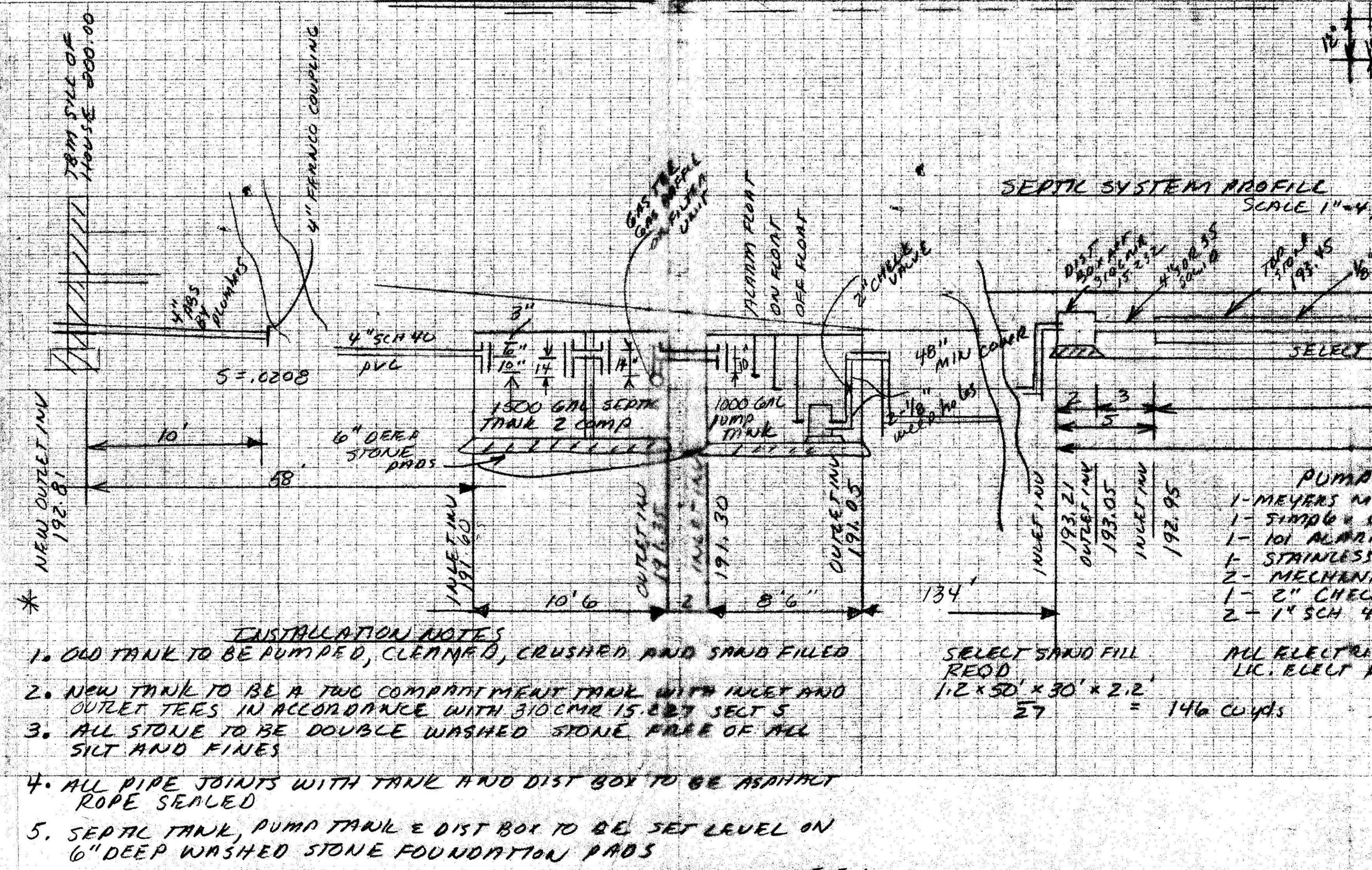
SEPTIC TANK: 310 CMR 15.223  
REQD 440 GALS/DAY x 200% = 880 GALS  
MINIMUM TANK SIZE PERMITTED 1500 GALS  
USE A (2) TWO COMPARTMENT PRECAST CONC TANK 10'6" x 5'16"  
TYPICAL TANK 56" FROM BASE TO INLET INV.

LEACHING SYSTEM: DUE TO SOIL CONDITIONS A LEACHFIELD DESIGN IS TO BE USED PER 310 CMR 15.252

EFFECTIVE DEPTH 6" MIN PERMEABILITY  
EFFECTIVE WIDTH 20'  
EFFECTIVE LENGTH 40'

BOTTOM AREA 20' x 40' = 800 FT<sup>2</sup>  
TOTAL PERMEABILITY 800 FT<sup>2</sup> x .56 = 448 GALS/DAY

TBM SET AT SILL OF HOUSE ELEV 200.00 (BOTTOM OF SIDING)



**SEPTIC SYSTEM PROFILL SCALE 1"=4' HORIZ VERT**

**LEACHFIELD DETAIL SCALE 1"=2' VERT 1"=4' HORIZ**

**PUMP EQUIPMENT**  
1-MEYERS MWSO PUMP OR EQUAL  
1-SAMPLE CONTROLLER  
1-101 ALARM UNIT  
1-STAINLESS STEEL FLOAT SWITCH  
2-MECHANICAL FLOAT CONTROLS  
1-2" CHECK VALVE  
2-1" SCH 40 ELEC CONDUITS

SLOPE OFFSET CALC 310 CMR 15.210  
REQD FOR SLOPES OR 1:3 OR LESS 15 FT  
AVAILABLE AFTER GRADING TO BREAK OUT RAN 193.45 17 FT MEETS CODE

**INSTALLATION NOTES**  
1. OLD TANK TO BE PUMPED, CLEANED, CRUSHED AND SAND FILLED  
2. NEW TANK TO BE A TWO COMPARTMENT TANK WITH INLET AND OUTLET TIES IN ACCORDANCE WITH 310 CMR 15.227 SECT 5  
3. ALL STONE TO BE DOUBLE WASHED STONE FREE OF ALL SILT AND FINES  
4. ALL PIPE JOINTS WITH TANK AND DIST BOX TO BE ASHTRAY ROPE SEALED  
5. SEPTIC TANK, PUMP TANK & DIST BOX TO BE SET LEVEL ON 6" DEEP WASHED STONE FOUNDATION PADS  
6. ALL TOP & SUB SOIL REMOVED 5 FT IN ALL DIRECTIONS TO ELEV 191.25 SAND REPLACED WITH SELECT SAND FILL PER 310 CMR 15.255

SEPTIC SYSTEM DESIGN FOR  
TOM PERRON  
222 FLAT HILLS ROAD  
AMHERST MASS  
ENGR: WJ SIERUTA PE  
DATE: NOV, 21, 2005

