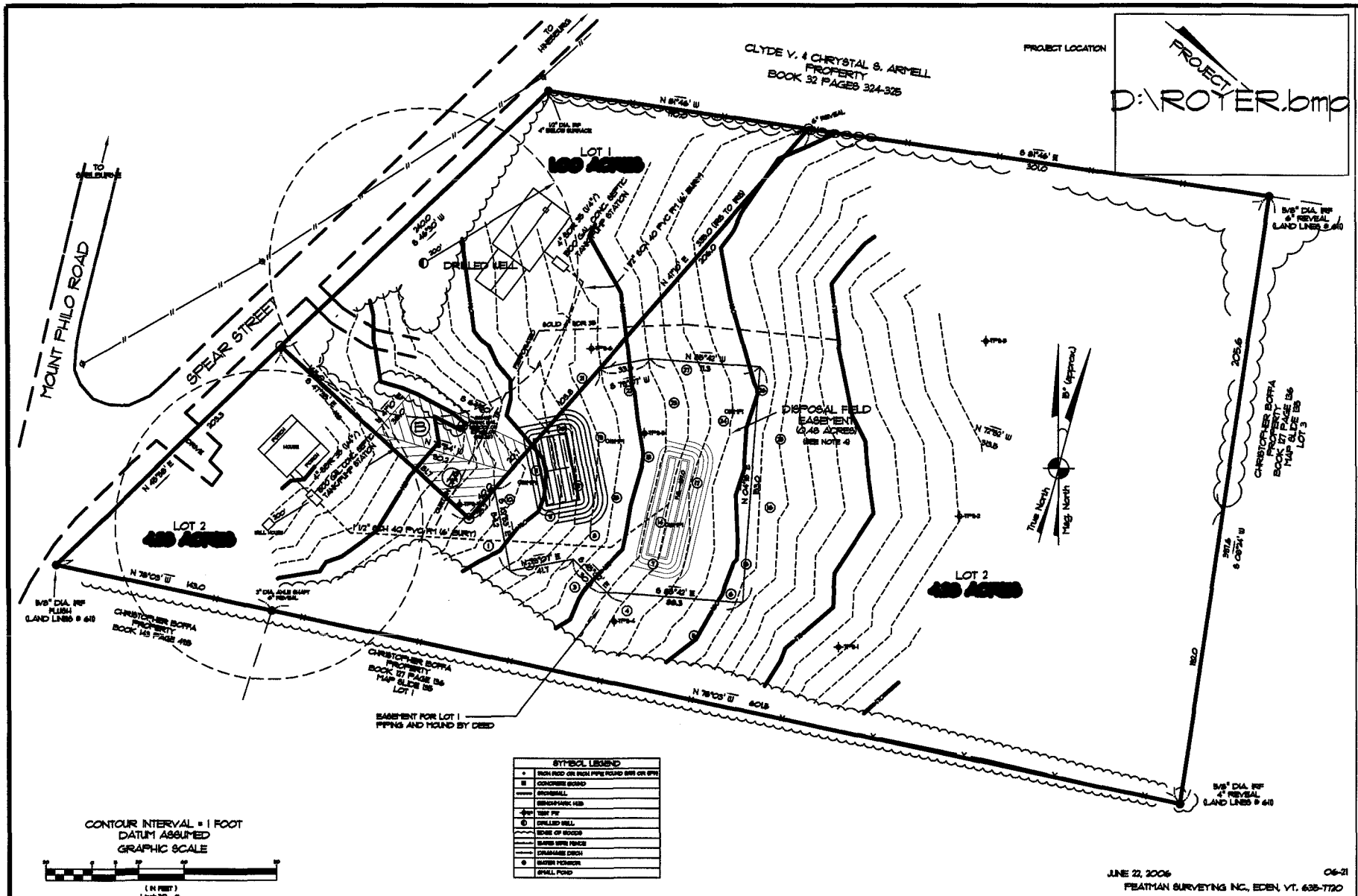

ANITA ROYER

WASTEWATER PLAN 7981 SPEAR STREET

CHARLOTTE, VERMONT DWG. 1 OF 2 MAY 2007 REV 05/08

JH STUART ASSOCIATES

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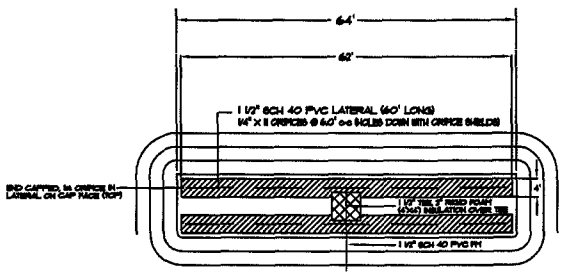
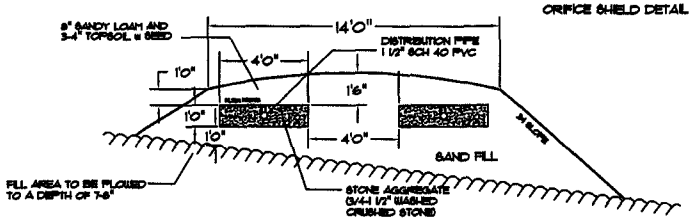
ESSEX, VERMONT 05451 802-878-5171 jhstuart@comcast.net



TWO TRENCH MOUND SYSTEM ELEVATION
nts

ORIFICE SHIELD DETAIL



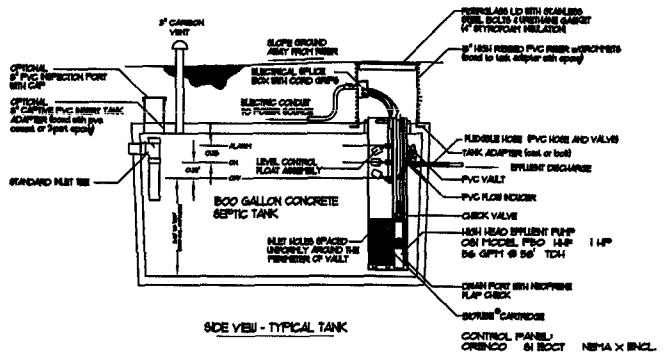
LOT 2 REPLACEMENT MOUND
TWO TRENCH MOUND SYSTEM PLAN
nts

C:\Documents and Settings\Administrator\My Documents\ROYER.dwg

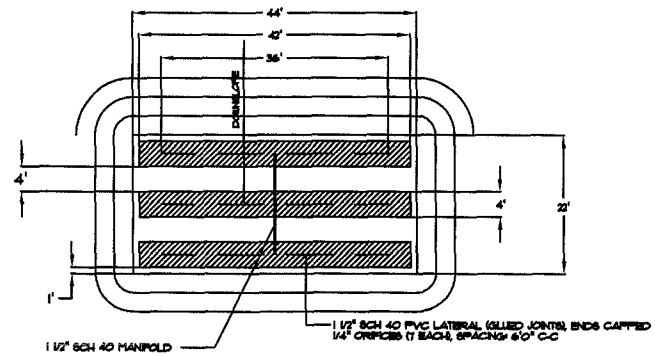
LOTS 1 and 2 PUMP

STEP (SEPTIC TANK EFFLUENT PUMP) SYSTEM

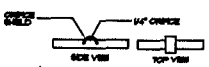
PUMP COMPONENTS: WASTEWATER TECHNOLOGIES, 802-464-



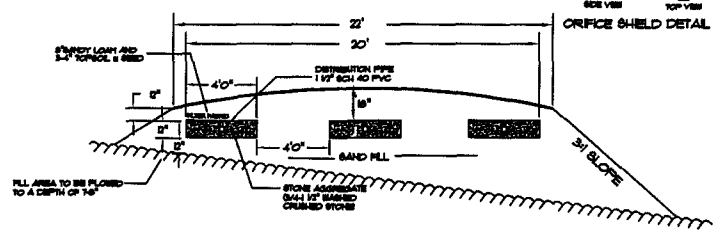
SIDE VIEW - TYPICAL TANK



LOT 1 PRIMARY
MOUND PLAN VIEW
nts



ORIFICE SHIELD DETAIL



MOUND ELEVATION VIEW
nts

MOUND SYSTEM CONSTRUCTION SPECIFICATIONS

1. NO CHANGE FROM THESE PLANS WILL BE ALLOWED WITHOUT SECURING AN AMENDMENT TO THE APPROVAL.

2. ARRANGEMENTS MUST BE MADE TO HAVE THE SYSTEM INSPECTED DURING SEVERAL PHASES OF THE CONSTRUCTION. A LETTER OF COMPLETION WILL NOT BE ISSUED UNLESS THE INSPECTIONS HAVE BEEN PERFORMED.

3. CONSTRUCTION OF THE MOUND WILL OCCUR AS FOLLOWS:

A. ALL TREES WITHIN 10' OF THE MOUND "FOOTPRINT" SHALL BE CUT FLUSH WITH THE GROUND.

B. 1-1/2 SCH40 MAIN SHALL BE INSTALLED TO A POINT BELOW THE MIDDLE OF THE MOUND WITH A PIPER INSTALLED SUPPORTED WITH A 4 SF THRUST BLOCK AT THE FITTING BELOWS. THE FORCE MAIN WILL BE PRESSURE TESTED AT 80 PSI (HIGHEST POINT) FOR 2 HOURS.

C. THE ENTIRE FILL AREA WILL BE PLOWED TO A DEPTH OF 8-10 INCHES BELOW. A HOLD BOARD PLOW CARVING THE FURROWS UPHILL FILLING IS TO CONTINUE THROUGHOUT.

D. PERMEABILITY TO CONFORM TO SITE ANALYSIS A, B OR C OF THE EPA's 84ed EDITION

E. AFTER PLACEMENT OF THE SAND, THE TRENCHES WILL BE CONSTRUCTED AS SHOWN ON THE DETAILS. THE TRENCHES SHALL BE LEVEL. THIN STONE PLACED TO A DEPTH OF 6 INCHES FOLLOWED BY THE INSTALLATION OF THE LATERALS. PIPES WILL BE CONNECTED TO THE MANIFOLD BUT NOT GLUED.

F. AFTER REQUIRING THE LATERALS BE STAKED AND ACTIVATING THE PRESSURE DEVICE (PUMP OR SIPHON), A PRESSURE DISTRIBUTION TESTS WILL BE PERFORMED WITH THE LATERAL ORIFICES FACING UP. THE RESULTANT WILL BE MEASURED AND NO MORE THAN 5% DIFFERENTIAL WILL BE ALLOWED BETWEEN THE MANIFOLD AND ANY DISTAL END OF THE LATERALS.

G. AFTER SUCCESSFUL COMPLETION OF THE TEST, THE ORIFICES WILL BE COVERED WITH ORIFICE SHIELDS, THE LATERALS GLUED, AND THE REMAINING STONE SHALL BE INSTALLED AND COVERED WITH FILTER FABRIC. ADDITIONAL SAND FILL TOPSOIL WILL BE PLACED ON THE MOUND TO PROVIDE THE REQUIRED DEPTH. COVER ON THE TOP AND SIDES THE ENTIRE MOUND WILL BE SEEDED AND MULCHED FOLLOWING COMPLETION OF THE FILLING AND GRADING.

4. THE SEPTIC TANK AND LIFT STATION/DOSING TANK WILL BE FILLED WITH WATER FOR 24 HOURS. NO LOSS WILL BE ALLOWED. THE TANKS PROVIDED ARE NOT DESIGNED FOR TRAFFIC LOADING.

5. THE LANDOWNER IS RESPONSIBLE FOR ENSURING THAT THE DESIGN LOAD OF THE STREET IS NOT EXCEEDED. FURTHER, THE OWNER IS REQUIRED TO PUMP THE SEPTIC TANK AND OTHER TANKAGE EVERY THREE OR YEARS.

DESIGN CRITERIA (LOT '1' AND 2)

3 BEDROOMS X 140 GALLONS/BEDROOM + 10 GAL (4th BR) = 430 GALLONS PER DAY (GPD)

430 GPD/10 GALLONS PER SQUARE FOOT = 430 SQUARE FEET (SF)

430 SF/ 4 SF PER LINEAR FOOT = 125 LINEAR FEET

USE THREE (3) LINES, 4' WIDE, 42' LONG (MOUND SYSTEM) (LOT 1)

USE THREE (3) LINES, 4' WIDE, 60' LONG (MOUND SYSTEM) (LOT 2)

USE 1500 GALLON CONCRETE TANK (1000 GALLONS FOR SEPTIC) EQUIPPED WITH ORENCO PUMP VAULT (NO SUBSTITUTE WITHOUT ENGINEER'S WRITTEN APPROVAL). ALL THROUGH WALL PIPE CONNECTIONS TO BE CAST INTO TANK WALLS. INSPECT SLUDGE DEPTH EVERY THREE YEARS, CLEAN WHEN SLUDGE DEPTH REACHES OR EXCEEDS TWELVE (12) INCHES.

ANITA ROYER
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