

**Minimum Isolation Distances From Leachfield**

Water main 50 Feet  
 Wastewater line 25 Feet  
 Roadways/Driveways 10 Feet (25 Feet Downslope)  
 Stream/Creek 50 Feet  
 Property Line 25 Feet

**Bank of Design Primary & Replacement Area**  
 Application Rate: 1.5 Gal/Sq ft per day  
 Infiltration: 1.5 in/ft  
 Required Area = 2600 Sq. Ft.  
 Area Provided = 2750 Sq. Ft.  
 Use 2 trenches 4' wide x 42' long

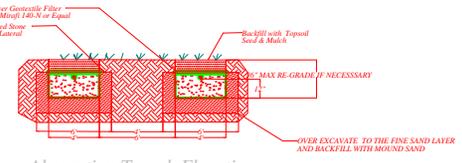
**WATER SUPPLY**  
 1.5 GPM PER 100 GALLON PER DAY DEMAND = 3 BEDROOMS @ 2 OCCUPANTS + 1 BEDROOM @ 1 OCCUPANT  
 AVERAGE DAILY DEMAND = 45 GPD @ AVERAGE DAY DEMAND  
 MAXIMUM DAILY DEMAND = 90 GPD @ 75% AVG. DEM.  
 INSTANTANEOUS PEAK DEMAND = 3 GPM UNIT X 1 UNIT = 5 GPM

**PERCOLATION TEST**  
 P-1 - 2.7 Minutes  
 P-2 - 2.9 Minutes

**INSPECTION NOTES**

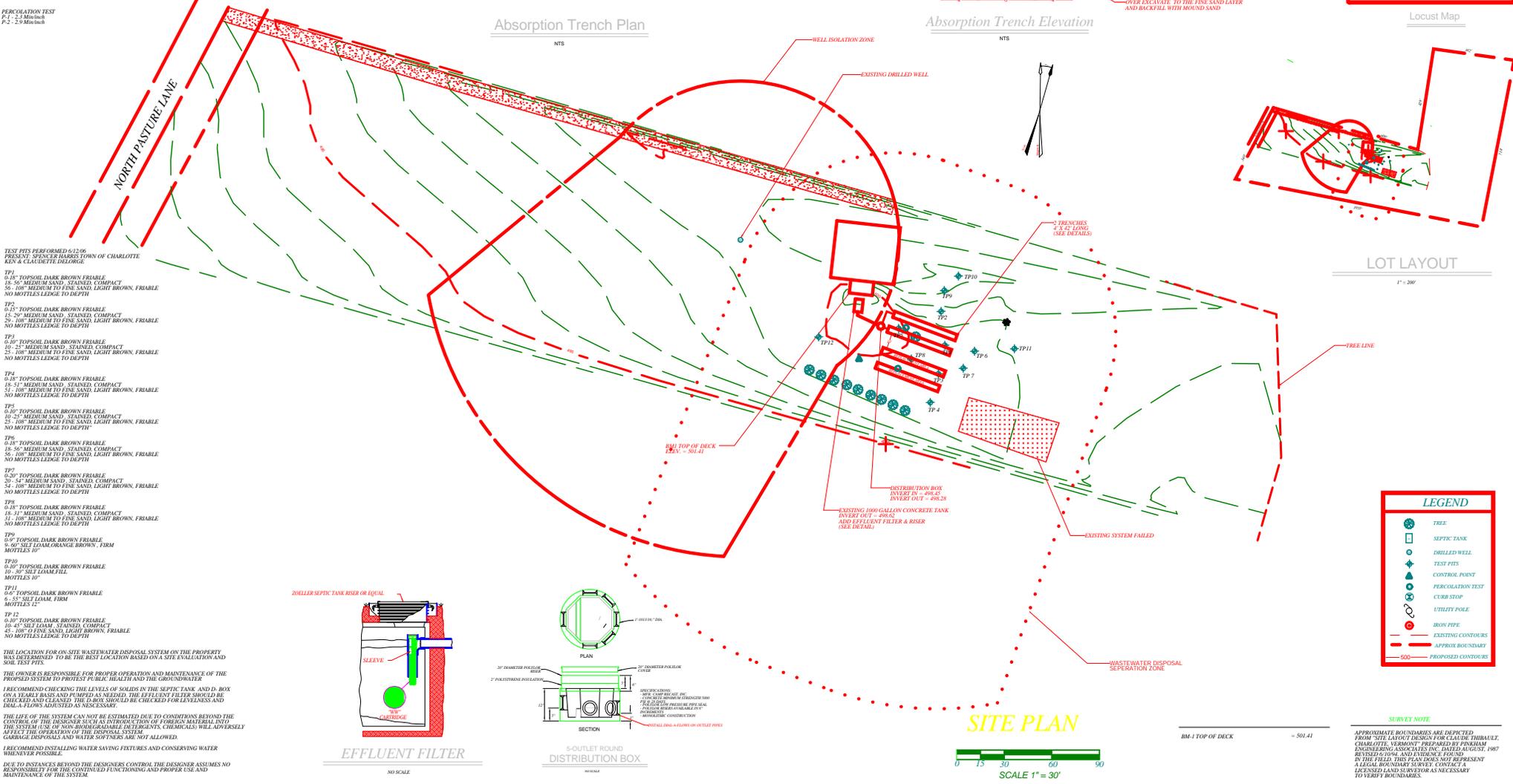
THE OWNER AND/OR CONTRACTOR SHALL CONTACT THE DESIGNER AT THE FOLLOWING TIMES:

1. PRIOR TO CONSTRUCTION TO STAKE OUT THE DISPOSAL SYSTEM LOCATION AND TO DISCUSS CONSTRUCTION STANDARDS
2. DURING THE EXCAVATION OF THE DISPOSAL TRENCHES.
3. AFTER INSTALLATION OF THE SYSTEM, BUT PRIOR TO BACKFILLING THE ABSORPTION TRENCHES & TANK. TOWN SHALL ALSO BE NOTIFIED.
4. FOLLOWING COMPLETION OF SYSTEM (TOPSOILING, SEEDING & MULCHING)



**Absorption Trench Plan**

**Absorption Trench Elevation**



TEST PITS PERFORMED 6/12/06  
 PREPARED BY HARRIS TOWN OF CHARLOTTE  
 KEN & CLAUDETTE DELONGE

TP1  
 0-15\"/>

TP2  
 0-15\"/>

TP3  
 0-10\"/>

TP4  
 0-15\"/>

TP5  
 0-8\"/>

TP6  
 0-15\"/>

TP7  
 0-20\"/>

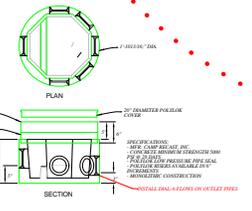
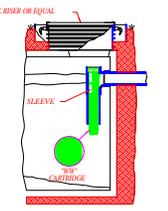
TP8  
 0-15\"/>

TP9  
 0-4\"/>

TP10  
 0-10\"/>

TP11  
 0-2\"/>

TP12  
 0-10\"/>



**EFLUENT FILTER**

**S-OUTLET ROUND DISTRIBUTION BOX**

THE LOCATION FOR ON-SITE WASTEWATER DISPOSAL SYSTEM ON THE PROPERTY WAS DETERMINED TO BE THE BEST LOCATION BASED ON A SITE EVALUATION AND SOIL TEST PITS.

THE OWNER IS RESPONSIBLE FOR PROPER OPERATION AND MAINTENANCE OF THE PROPOSED SYSTEM TO PROTECT PUBLIC HEALTH AND THE ENVIRONMENT.

1. I RECOMMEND CHECKING THE LEVELS OF SOLIDS IN THE SEPTIC TANK AND D. BOX ON A REGULAR BASIS AND PERFORM AS NEEDED. THE EFFLUENT FILTER SHOULD BE CHECKED AND CLEANED. THE D. BOX SHOULD BE CHECKED FOR LEAKS AND DRAINAGE AS NECESSARY.

THE LIFE OF THE SYSTEM CAN NOT BE ESTIMATED DUE TO CONDITIONS BEYOND THE CONTROL OF THE DESIGNER SUCH AS INTRODUCTION OF FOREIGN MATERIAL INTO THE SYSTEM OR NON-REPRESENTATIVE SOILS. CHECKS SHOULD BE PERFORMED AS NECESSARY.

1. I RECOMMEND INSTALLING WATER SAVING FIXTURES AND CONSERVING WATER WHATEVER POSSIBLE.

DUE TO INSTANCES BEYOND THE DESIGNER'S CONTROL, THE DESIGNER ASSUMES NO RESPONSIBILITY FOR THE CONTINUED FUNCTIONING AND PROPER USE AND MAINTENANCE OF THE SYSTEM.

9/19/05	Added Replacement Area, additional test pit & perc test, revised calculations	JK
10/4/11	Added Wastewater Separation Zone	JK

THIS DESIGN IS PROPOSED TO SATISFY CRITERIA AND MEET THE INTENT OF THE VERMONT ENVIRONMENTAL PROTECTION RULES, CHAPTER 1 WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES EFFECTIVE JANUARY 1, 2005.



**SITE PLAN**

**HORIKAWA RESIDENCE**  
**470 NORTH PASTURE LANE**  
**CHARLOTTE, VERMONT**

**HIGH KNOB**  
**DESIGN ASSOCIATES LLC**

WATER & WASTEWATER DESIGNS  
 TOPOGRAPHIC SITE PLANS & MAPPING  
 STATE & LOCAL PERMITTING

981 BIG HOLLOW ROAD  
 STARKSBORO, VERMONT 05487  
 453-5071

Client	JK
Date	9/29/05
Drawn	JK NOTED
Project	2011031
Sheet	1 OF 1