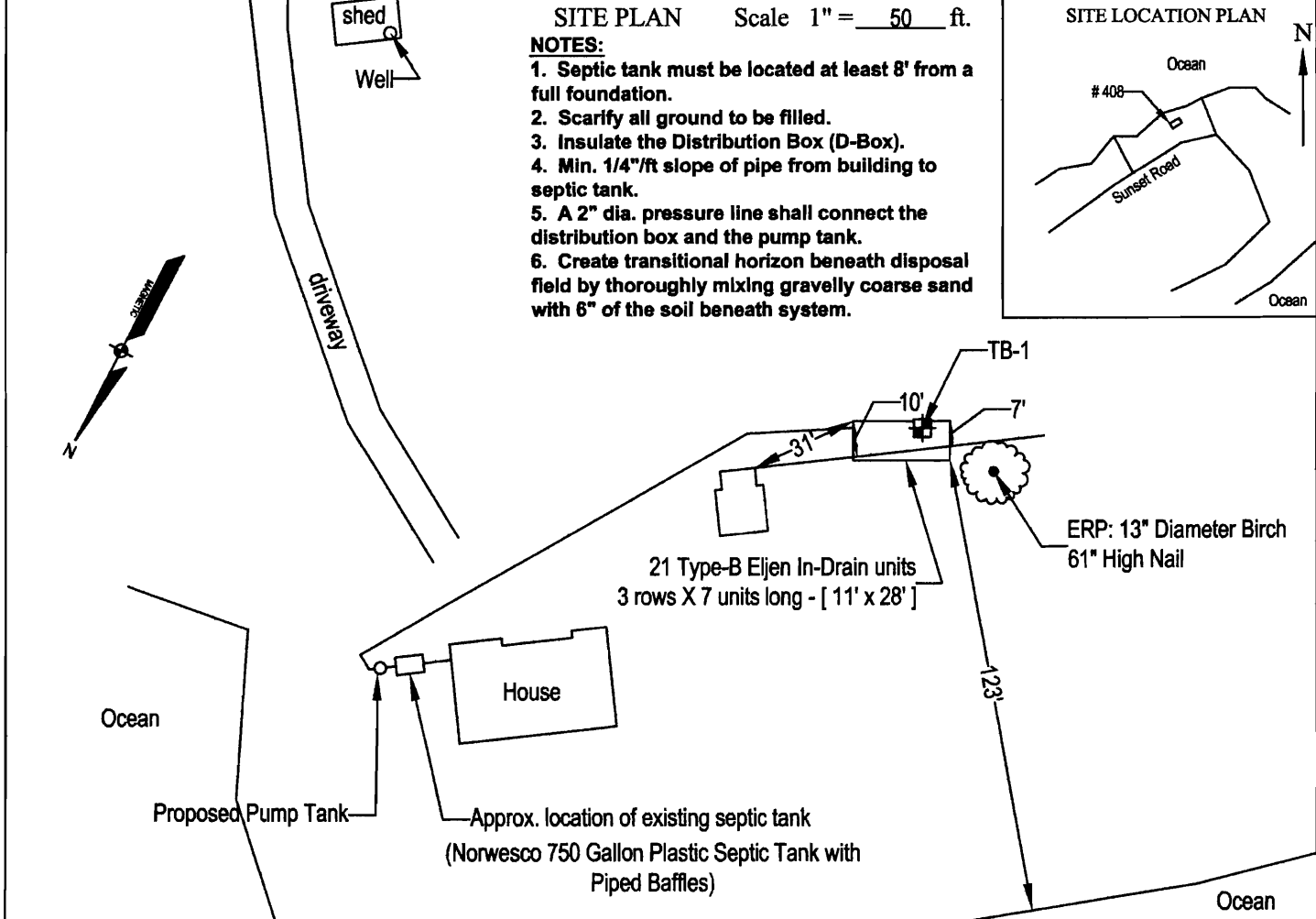


SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Maine Department of Human Services Division of Health Engineering, 10 SHS (207) 287-5672 Fax: (207) 287-3165	
PROPERTY LOCATION		CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW	
City, Town, or Plantation	Portland (Cliff Island)	2009-10-14	
Street or Road	408 Sunset Road	PORTLAND	PERMIT # 11047 TOWN COPY
Subdivision, Lot #		Date Permit Issued: 9-13-09	\$ 111.00 <input type="checkbox"/> If Double Fee Charged
OWNER/APPLICANT INFORMATION		109 CA 32	
Name (last, first, MI)	Hadden, John / Alex Hadden <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	Local Plumbing Inspector Signature: <i>Shawn H. Marbury</i> L.P.I. # 0944	
Mailing Address of Owner/Applicant	11 Tibbetts Ln. Georgetown Me 04548	Municipal Tax Map # _____ Lot # 109CA32	
Daytime Tel. #	207-371-2662	CAUTION: INSPECTION REQUIRED	
OWNER OR APPLICANT STATEMENT I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.	
Signature of Owner or Applicant: <i>Alex Hadden</i> 8-25-09		Local Plumbing Inspector Signature: _____ (1st) date approved: _____ _____ (2nd) date approved: _____	
PERMIT INFORMATION			
TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>Unknown</u> Year installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector <input checked="" type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input checked="" type="checkbox"/> b. State & Local Plumbing Inspector <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components	
SIZE OF PROPERTY 93,520 <input checked="" type="checkbox"/> SQ. FT. <input type="checkbox"/> ACRES SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input checked="" type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other	
DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK <input type="checkbox"/> 1. Concrete <input checked="" type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input checked="" type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: <u>1000</u> GAL	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input checked="" type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: <u>1008</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes of Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW <u>305</u> gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.1 (other facilities) SHOW CALCULATIONS — for other facilities —
SOIL DATA & DESIGN CLASS PROFILE <u>2</u> / CONDITION <u>C</u> / DESIGN <u>1</u> at Observation Hole # <u>TP-1</u> Depth <u>22</u> " of Most Limiting Soil Factor Groundwater	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small—2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium—2.6 sq. ft. / gpd <input checked="" type="checkbox"/> 3. Medium—Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large—4.1 sq. ft. / gpd <input type="checkbox"/> 5. Extra Large—5.0 sq. ft. / gpd	EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input checked="" type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<input type="checkbox"/> 3. Section 503.0 (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. <u>N43</u> d <u>42</u> m <u>21.31</u> s Lon. <u>W70</u> d <u>05</u> m <u>57.06</u> s if g.p.s. state margin of error: <u>20'</u>
SITE EVALUATOR STATEMENT			
I certify that on <u>7-14-09</u> (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).			
Signature: <i>Richard A. Sweet</i>		SE # <u>034</u>	Date <u>07/24/09</u>
Richard A. Sweet		797-2110	dick@sweetassociates.com
Site Evaluator Name Printed		Telephone Number	Email Address
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.			
Designed with SeptiCAD HHE-200 Rev. 4/05			

Town, City, Plantation: **Portland (Cliff Island)** Street, Road, Subdivision: **408 Sunset Road** Owner or Applicant Name: **John Hadden**



SOIL PROFILE DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole # TB-1 Test Pit Boring

_____ " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0	Sandy Loam	Friable	Dark Brown	
6				
12	Sandy Loam	Friable	Reddish Brown	
18				
24				
30	Sandy Loam	Firm	Brown	Few and Distinct
36				
42	Bedrock at 40 inches			
48				

Soil Profile	Classification	Slope	Limiting Factor	<input checked="" type="checkbox"/> Groundwater
<u>3</u>	<u>G</u>	<u>10</u>	<u>22"</u>	<input type="checkbox"/> Restrictive Layer
Profile	Condition	Percent	Depth	<input type="checkbox"/> Bedrock

Observation Hole # _____ Test Pit Boring

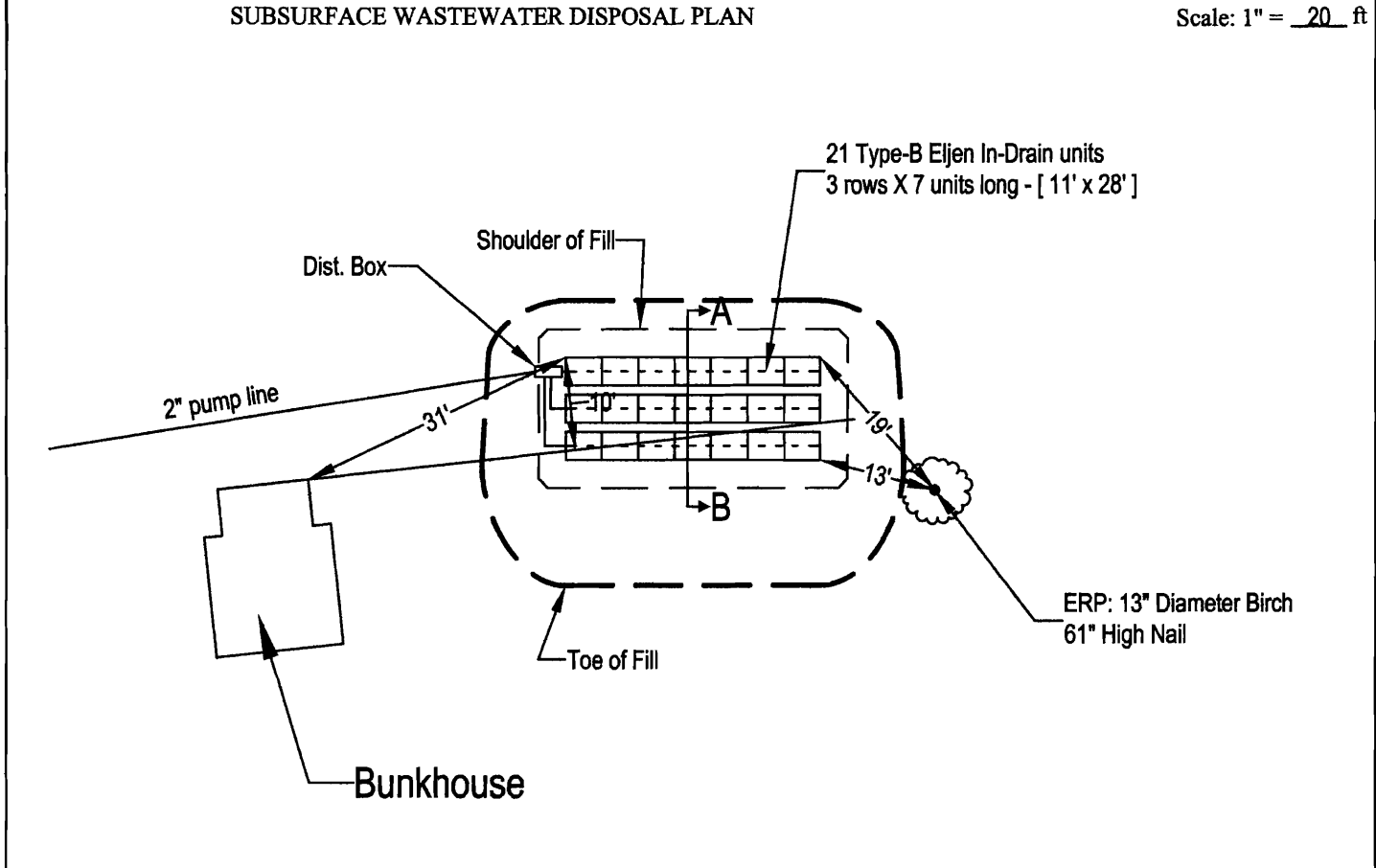
_____ " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0				
6				
12				
18				
24				
30				
36				
42				
48				

Soil Profile	Classification	Slope	Limiting Factor	<input type="checkbox"/> Groundwater
				<input type="checkbox"/> Restrictive Layer
Profile	Condition	Percent	Depth	<input type="checkbox"/> Bedrock

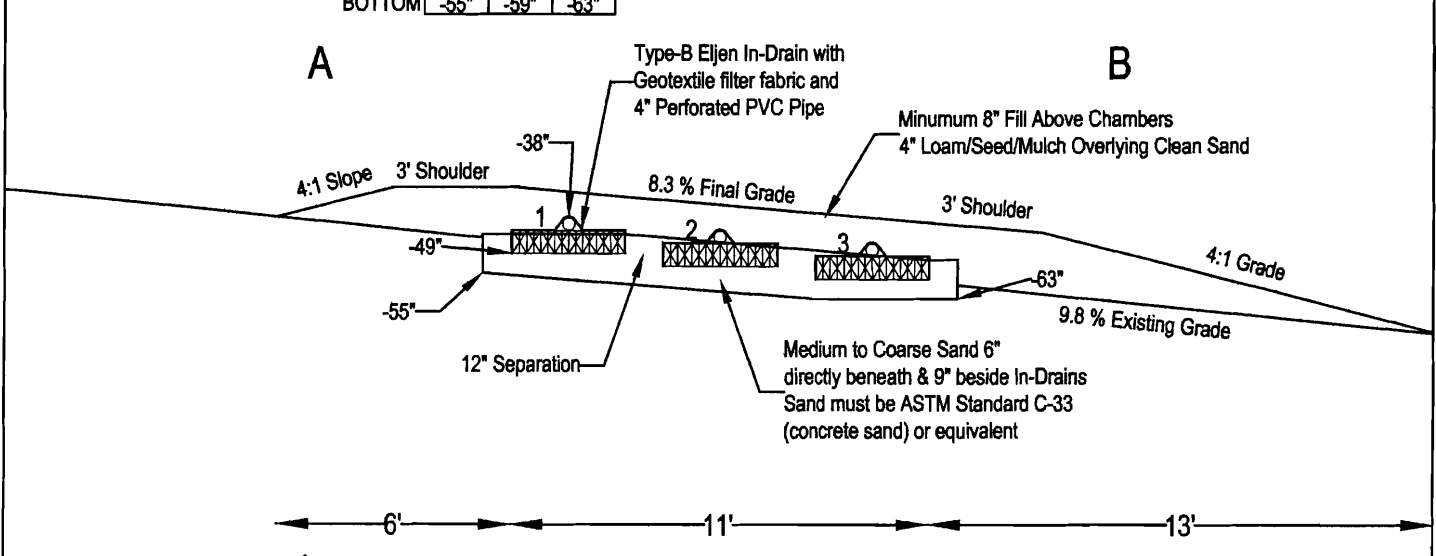
Richard O'Connell 034 07/24/09 Page 2 of 3
 Site Evaluator Signature SE # Date HHE-200 Rev. 10/02

Town, City, Plantation Portland (Cliff Island)	Street, Road, Subdivision 408 Sunset Road	Owner or Applicant Name John Hadden
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BACKFILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT
Depth of Backfill (upslope) <u>17-17"</u>	Finished Grade Elevation (at Row 1) <u>-30"</u>	Location & Description: <u>13" Diameter Birch</u>
Depth of Backfill (downslope) <u>19-19"</u>	Top of Proprietary Device (at Row 1) <u>-38"</u>	<u>61" High Nail</u>
	Bottom of Disposal Field (at Row 1) <u>-55"</u>	Reference Elevation is <u>0.0"</u> or: _____

<p><small>NOTE: SCARIFY ALL GROUND SURFACE TO BE FILLED. USE GRAVELLY COARSE SAND WITHIN 3' OF IN-DRAINS. REMAINING FILL: LOAMY SAND (no clay)</small></p>	<p>DISPOSAL FIELD CROSS SECTION</p> <table border="1" style="margin: auto;"> <tr> <td>ROW #</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>TOP</td> <td>-38"</td> <td>-42"</td> <td>-46"</td> </tr> <tr> <td>BOTTOM</td> <td>-55"</td> <td>-59"</td> <td>-63"</td> </tr> </table>	ROW #	1	2	3	TOP	-38"	-42"	-46"	BOTTOM	-55"	-59"	-63"	<p><small>APPROXIMATE ABOVE GRADE FILL REQUIRED</small></p> <p>22 cubic yards of LOAM</p> <p>38.4 cubic yards of SAND</p> <p><small>Volume of chambers not considered</small></p> <p>Scales: Vertical: 1" = <u>5'</u> Horizontal: 1" = <u>5'</u></p>
ROW #	1	2	3											
TOP	-38"	-42"	-46"											
BOTTOM	-55"	-59"	-63"											



Richard O'Connell
Site Evaluator Signature
034
SE #
07/24/09
Date
Page 3 of 3
HHE-200 Rev. 10/02

109CA32

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of the LPI's authority.

- 1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 2006)
2. There will be no change in use of the structure except as authorized for minor expansion outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION
Town of Portland (Cliff Island)
Permit No.
Date Permit Issued
Property Owner's Name: John Hadden Tel. No.: 371-2662
System's Location: 408 Sunset Road
Property Owner's Address: 11 Tibbetts Lane
(if different from above) Georgetown, ME 04548

SPECIFIC INSTRUCTIONS TO THE: LOCAL PLUMBING INSPECTOR (LPI):

If any of the variances exceed your approval authority and/or do not meet all the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

SITE EVALUATOR:

If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.

PROPERTY OWNER:

It has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in compliance with the Rules is not possible.

PROPERTY OWNER

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By Signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

On behalf of J.L.H. KITT Trust:
Signature of owner: [Handwritten Signature]

8-25-09
DATE

LOCAL PLUMBING INSPECTOR

I, Thomas M. MARBLEY, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

a. (X) approve, () disapprove the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval he shall list his reasons for denial in Comments Section below and return to the applicant.

-OR-

b. find that one or more of the requested Variances exceeds my approval authority as LPI. I () recommend, () do not recommend the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, she shall state his reasons in Comment Section below as to why the proposed replacement system is not being recommended.

Comments:

[Handwritten Signature]
LPI SIGNATURE

9/3/09
DATE

2089-6004

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
SOILS								
Soil Profile	Ground Water Table			to 7"				inches
Soil Condition	Restrictive Layer			to 7"				inches
from HHE-200	Bedrock			to 12"				inches
SETBACK DISTANCES (in feet)	Disposal Fields (total design flow)			Septic Tanks (total design flow)			Disposal Fields	Septic Tanks
	From	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	150 ft	150 ft	150 ft		
Owner's wells	100 down to 60 ft [a]	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 down to 60 ft [f]	200 down to 120 ft [f]	300 down to 180 ft [f]	100 down to 50 ft [f]	100 down to 75 ft [f]	100 down to 75 ft [f]		
Water supply line	10 ft	20 ft	25 ft [h]	10 ft	10 ft	10 ft [h]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft [d]	200 down to 120 ft [d]	300 down to 180 ft [d]	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft [e]	100 down to 50 ft [e]	150 down to 75 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Edge of fill extension – Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]		
Slopes greater than 3:1	10 ft [g]	18 ft [g]	25 ft [g]	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Property lines	10 down to 5 ft [c]	18 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]		
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		
OTHER								
1. Variance to use existing 750 gallon Norwesco plastic septic tank								
2.								
3.								

Footnotes: [a.] Single-family well setbacks may be reduced as prescribed in Section 701.2.
 [b.] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction.
 [c.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.
 [d.] Additional setbacks may be required by local Shoreline Zoning.
 [e.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.
 [f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.
 [g.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.
 [h.] See Section 1402.10 for special procedures when these minimum setbacks can not be achieved.

Richard Omet

 SITE EVALUATOR SIGNATURE

07/24/09

 DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and () does () does not give its approval. Any additional requirements recommendations, or reasons for the Variance denial, are given in the attached letter.

 SIGNATURE OF THE DEPARTMENT

 DATE