

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, Station 10 SHS  
(207) 287-5672 FAX (207) 287-4172

<b>PROPERTY LOCATION</b>		>> Caution: Permit Required Attach In Space Below <<	
City, Town, or Plantation	PORTLAND, PEAKS ISLAND	2010-6008	
Street or Road	41 BAYBERRY LANE	PORTLAND	PERMIT # 11485 TOWN COPY
Subdivision, Lot *		Date Permit Issued: 11/16/10	\$ 11010.00 <input type="checkbox"/> Double Fee Charged
<b>OWNER/APPLICANT INFORMATION</b>		L.P.I. # 0.73.21	
Name (last, first, MI)	LIEBER ROBERT	Local Plumbing Inspector Signature	
Mailing Address of	ROBERT LIEBER 131 BRACKETT STREET PORTLAND, ME 04102	8955	
Daytime Tel. *	766-5043	Municipal Tax Map * 89 Lot * J-005	
<b>Owner or Applicant Statement</b>		<b>Caution: Inspections Required</b>	
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/Applicant: <u>[Signature]</u> Date: <u>11/16/10</u>		Local Plumbing Inspector Signature: _____ (1st) Date Approved: _____	
		Local Plumbing Inspector Signature: _____ (2nd) Date Approved: _____	

## PERMIT INFORMATION

<b>TYPE OF APPLICATION</b>	<b>THIS APPLICATION REQUIRES</b>	<b>DISPOSAL SYSTEM COMPONENTS</b>
1. <input checked="" type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: _____ Year Installed: _____ 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	1. <input checked="" type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. <input type="checkbox"/> Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	1. <input checked="" type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ Gallons 6. <input type="checkbox"/> Non-Engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000 gpd) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Field (only) 11. <input type="checkbox"/> Pre-treatment, specify: _____ 12. <input type="checkbox"/> Miscellaneous components
<b>SIZE OF PROPERTY</b>	<b>DISPOSAL SYSTEM TO SERVE</b>	<b>TYPE OF WATER SUPPLY</b>
28,468 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> acres	1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY _____ Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other: _____
<b>SHORELAND ZONING</b>		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

<b>TREATMENT TANK</b>	<b>DISPOSAL FIELD TYPE &amp; SIZE</b>	<b>GARBAGE DISPOSAL UNIT</b>	<b>DESIGN FLOW</b>
1. <input checked="" type="checkbox"/> Concrete a. <input checked="" type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY <u>1000</u> gallons	1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input checked="" type="checkbox"/> Linear b. <input checked="" type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE <u>1056</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. <u>22 ELJEN IN-DRAIN UNITS</u>	1. <input checked="" type="checkbox"/> No 3. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi-compartment tank b. <input type="checkbox"/> _____ tanks in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet	270 gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS for other facilities - <b>3 BEDROOMS AT 90 GALLONS PER DAY EACH</b>
<b>SOIL DATA &amp; DESIGN CLASS</b>	<b>DISPOSAL FIELD SIZING</b>	<b>EFFLUENT/EJECTOR PUMP</b>	<b>LATITUDE AND LONGITUDE</b>
PROFILE CONDITION DESIGN <u>2 / AIII/C / 1</u> AT Observation Hole * <u>TB A</u> Depth <u>27</u> " Elevation <u>-64</u> " OF MOST LIMITING SOIL FACTOR	1. <input type="checkbox"/> Small - 2.0 sq.ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq.ft./gpd 3. <input checked="" type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	1. <input type="checkbox"/> Not required 2. <input checked="" type="checkbox"/> May be required 3. <input type="checkbox"/> Required Specify only for engineered systems: DOSE: _____ Gallons	3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA at center of disposal area Lat. <u>N 43</u> d <u>39</u> m <u>35</u> s Lon. <u>W 70</u> d <u>10</u> m <u>53</u> s if a.p.s., state margin of error

## SITE EVALUATOR STATEMENT

I certify that on 8/16/98 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-14.4A CMR 241).

<u>[Signature]</u> Site Evaluator Signature	<u>163</u> SE *	<u>8/11/2010</u> Date
<u>ALBERT FRICK</u> Site Evaluator Name Printed	<u>(207) 839-5563</u> Telephone Number	<u>AFA@MAINERR.COM</u> E-mail Address

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563  
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator

AUG 16 2010  
Dept. of Building Inspections  
City of Portland Maine 4/05

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Maine Department of Human Services  
 Division of Health Engineering, Station 10 SHS  
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Town, City, Plantation  
**PORTLAND, PEAKS ISLAND**

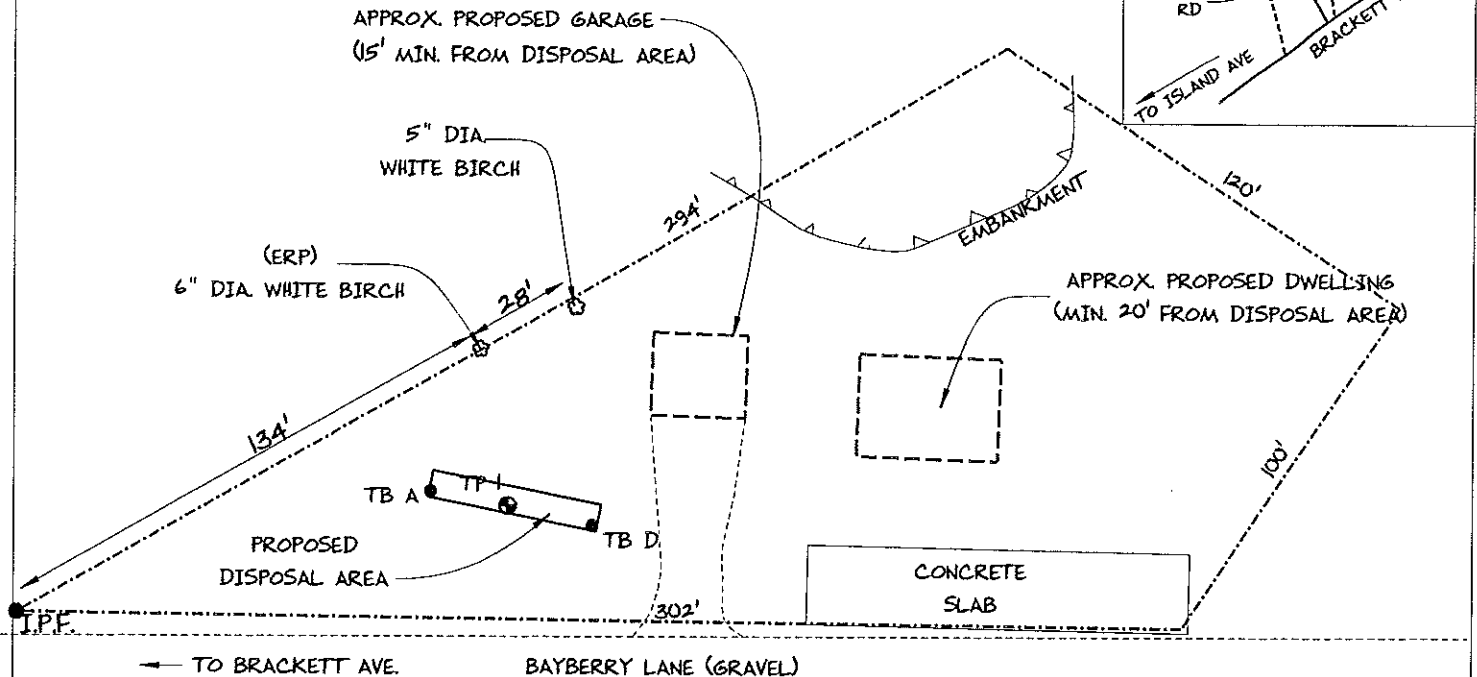
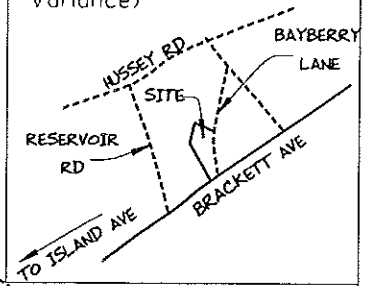
Street, Road Subdivision  
**41 BAYBERRY LANE**

Owner's Name  
**ROBERT LIEBER**

SITE PLAN

Scale 1" = 50 Ft.  
 or as shown

SITE LOCATION PLAN  
 (Attach Map from Maine Atlas for New System Variance)



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

Observation Hole TP 1  Test Pit  Boring  
 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0			DARK BROWN	
10	SANDY LOAM	FRIABLE	YELLOW BROWN	
30			LIGHT OLIVE BROWN	FEW, FAINT
30	BEDROCK			
40				
50				

Soil Classification Profile 2 Condition AIII/C Slope 7 % Limiting Factor 28 "

Ground Water  
 Restrictive Layer  
 Bedrock  
 Pit Depth

Observation Hole TB  Test Pit  Boring  
 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10	TB A = 27" TO BEDROCK			
10	TB D = 29" TO BEDROCK			
20				
30				
40				
50				

Soil Classification Profile \_\_\_\_\_ Condition \_\_\_\_\_ Slope \_\_\_\_\_ % Limiting Factor 27 "

Ground Water  
 Restrictive Layer  
 Bedrock  
 Pit Depth

*Albert Frick*  
 Site Evaluator Signature

163  
 SE \*

8/11/2010  
 Date

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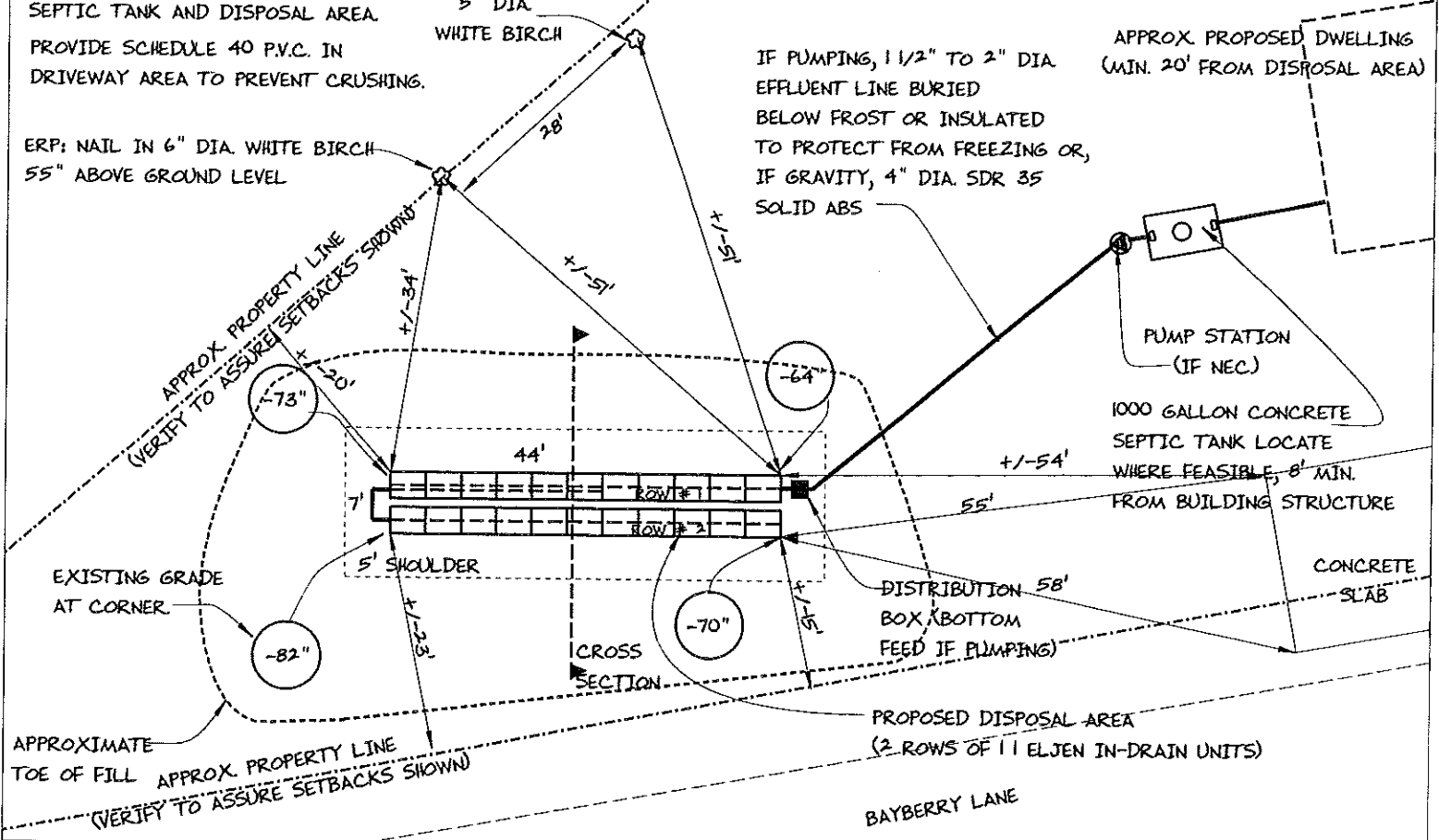
Town, City, Plantation <b>PORTLAND, PEAKS ISLAND</b>	Street, Road, Subdivision <b>41 BAYBERRY LANE</b>	Owner's Name <b>ROBERT LIEBER</b>
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NOTE: PREVENT VEHICLE TRAFFIC OVER SEPTIC TANK AND DISPOSAL AREA.  
PROVIDE SCHEDULE 40 P.V.C. IN DRIVEWAY AREA TO PREVENT CRUSHING.

ERP: NAIL IN 6" DIA. WHITE BIRCH 55" ABOVE GROUND LEVEL

## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



### FILL REQUIREMENTS

### CONSTRUCTION ELEVATIONS

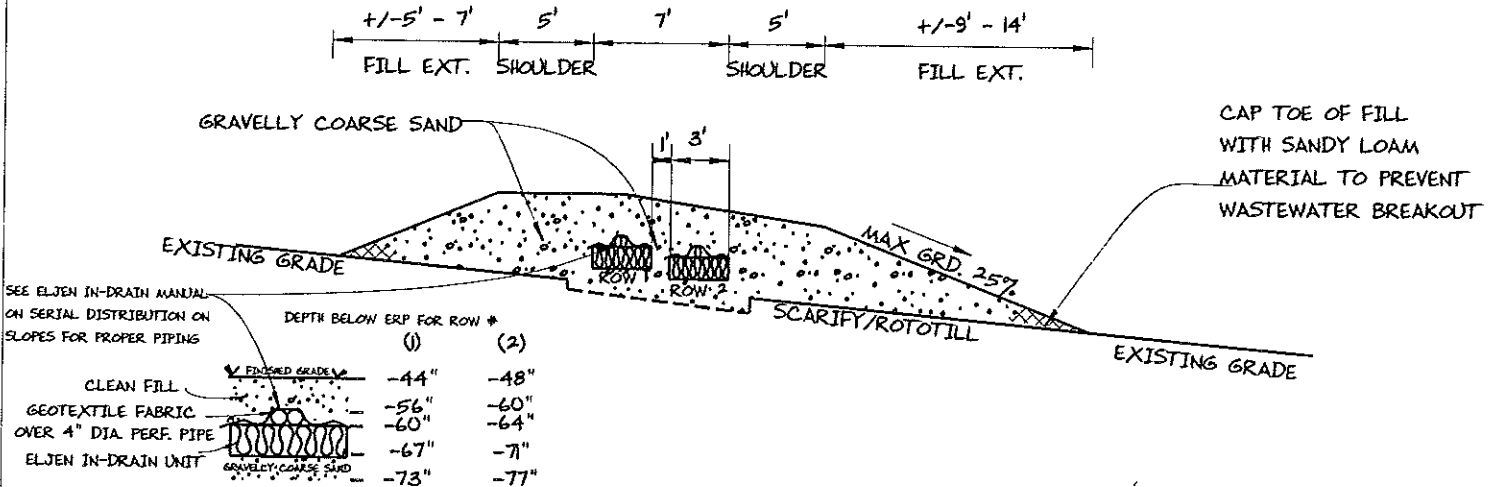
Depth of Fill (Upslope) : 20" - 29" Finished Grade Elevation  
 Depth of Fill (Downslope) : 22" - 34" Top of Distribution Pipe or Proprietary Device  
 DEPTHS AT CROSS-SECTION (shown below) Bottom of Disposal Area

SEE  
DETAIL  
BELOW

ELEVATION REFERENCE POINT  
Location & Description 6" DIA. WHITE BIRCH, NAIL 55" ABOVE BASE  
Reference Elevation is 0.0' or -----

### DISPOSAL AREA CROSS SECTION

SCALE:  
VERTICAL: 1" = 5 FT  
HORIZONTAL: 1" = 10 FT

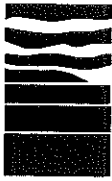


*Albert Frick*  
Site Evaluator Signature

163  
SE #

8/11/2010  
Date

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**Albert Frick Associates, Inc.**

**Soil Scientists & Site Evaluators**

95A County Road Gorham, Maine 04038

(207) 839-5563

PORTLAND, PEAKS ISLAND	41 BAYBERRY LANE	ROBERT LIEBER
TOWN	LOCATION	APPLICANT'S NAME

- 1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system Installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.
- 2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system Installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations. Prior to the commencement of construction/installation, the local plumbing inspector or Code Enforcement Officer shall inform the owner/applicant and Albert Frick Associates, Inc of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application.
- 3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based solely upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
- 4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter shall be connected in series to the proposed septic tank. Risers and covers should be installed over the septic tank outlet to allow for easy maintenance.
- 5) The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.
- 6) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than every three years. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion.

PORTLAND, PEAKS ISLAND	41 BAYBERRY LANE	ROBERT LIEBER
TOWN	LOCATION	APPLICANT'S NAME

- 7) The actual water flow or number of bedrooms shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption [water usage (cu. ft.) x 7.48 cu. ft. (gallons per cu. ft.) ÷ (# of days in period) = gals per day].
- 8) The general minimum setbacks between a well and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
- 9) When a gravity system is proposed: BEFORE CONSTRUCTION/INSTALLATION BEGINS, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum slope requirement. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area.
- 10) When an effluent pump is required: Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and lid at or above grade. An alarm device warning of a pump failure shall be installed. Also, when pumping is required of a chamber system, install a "T" connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.
- 11) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential setting). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off proprietary devices. Divert the surface water away from the disposal area by ditching or shallow landscape swales.
- 12) Unless noted otherwise, fill shall be gravelly coarse sand which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process.
- 13) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 14) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover system. Woody trees or shrubs are not permitted on the disposal area or fill extensions.
- 15) If an advanced wastewater treatment unit is part of the design, the system shall be operated and maintained per manufacturer's specifications.



**Albert Frick Associates, Inc.**  
 Soil Scientists & Site Evaluators  
 95A County Road Gorham, Maine 04038  
 (207) 839-5563

## **BUILDING PERMIT INSPECTION PROCEDURES**

**Please call 874-8703 or 874-8693 (ONLY )  
or email: [buildinginspections@portlandmaine.gov](mailto:buildinginspections@portlandmaine.gov)**

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the City of Portland Inspection Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months, if the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue with construction.**

  X   **Septic field and extension inspection for bottom preparation/scarification to verify removal of vegetation, established transitional horizon and erosion and sedimentation control measures.**

  X   **Exposed septic field installation and tank location inspection to check elevations, dimensions, piping, pumping station and system design prior to covering.**

  X   **Backfill inspection of septic field for approved materials, stabilization, slopes and extensions**

**The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.**

**IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.**

**City of Portland, Maine - Building or Use Permit**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 20106008	Date Applied For: 08/17/2010	CBL: 089 J005001
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Location of Construction: 41 BAYBERRY LN	Owner Name: LIEBER ROBERT A	Owner Address: 41 BAYBERRY LN	Phone:
Business Name:	Contractor Name: Robert Lieber	Contractor Address:	Phone
Lessee/Buyer's Name	Phone:	Permit Type: First Time System	

Proposed Use:	Proposed Project Description:
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**Dept:** Building      **Status:** Approved with Conditions      **Reviewer:** Jeanine Bourke      **Approval Date:****Note:**      **Ok to Issue:** 

- 1) This system is not design for vehicular traffic (h-20 load). The pipe carrying effluent shall be protected from frost and sleeved if vehicles will traverse.

**Comments:**

11/5/2010-jmb: Need applicants signature, notified

11/16/2010-jmb: Rob L. Will sign when he picks up the permit