

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION

City, Town, or Plantation: **PORTLAND, PEAKS ISLAND**

Street or Road: **554 SEASHORE AVENUE**

Subdivision, Lot #:

>> Caution: Permit Required - Attach In Space Below <<

The Subsurface Wastewater Disposal System **shall not** be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **SHAW RICHARD** Owner Applicant

Mailing Address of: **18 SOUTH MILL DRIVE GLASTONBURY, CT 06073**

Daytime Tel. #: **860-922-7429**

Municipal Tax Map #: **86** Lot #: **A-16** Lat. **A-16** Lon.

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.

Caution: Inspections Required

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 _____

Date _____

(1st) Date Approved _____

Local Plumbing Inspector Signature _____

(2nd) Date Approved _____

PERMIT INFORMATION

TYPE OF APPLICATION

1. First Time System
2. Replacement System
Type Replaced: _____
Year Installed: _____
3. Expanded System
a. Minor Expansion
b. Major Expansion
4. Experimental System
5. Seasonal Conversion

THIS APPLICATION REQUIRES

1. No Rule Variance
2. First Time System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
3. Replacement System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
4. Minimum Lot Size Variance
5. Seasonal Conversion Approval

DISPOSAL SYSTEM COMPONENTS

1. Complete Non-Engineered System
2. Primitive System (graywater & alt toilet)
3. Alternative Toilet, specify: _____
4. Non-Engineered Treatment Tank (only)
5. Holding Tank, _____ Gallons
6. Non-Engineered Disposal Field (only)
7. Separated Laundry System
8. Complete Engineered System (2000 gpd+)
9. Engineered Treatment Tank (only)
10. Engineered Disposal Field (only)
11. Pre-treatment, specify: _____
12. Miscellaneous components

SIZE OF PROPERTY

28,000+/- sq. ft. acres

DISPOSAL SYSTEM TO SERVE

1. Single Family Dwelling Unit, No. of Bedrooms: **4**
2. Multiple Family Dwelling, No of Units: _____
3. Other: _____

SHORELAND ZONING

Yes No

SPECIFY

Current Use Seasonal Year Round Undeveloped

PROPOSED TYPE OF WATER SUPPLY

1. Drilled Well
2. Dug Well
3. Private
4. Public
5. Other:

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

1. Concrete
a. Regular
b. Low Profile
 2. Plastic
 3. Other: _____
- CAPACITY **1000** gallons

DISPOSAL FIELD TYPE & SIZE

1. Stone Bed
 2. Stone Trench
 3. Proprietary Device
a. Cluster array c. Linear
b. Regular d. H-20 loaded
 4. Other: _____
- SIZE **1296** sq. ft. lin. ft.
- 27 ELJEN IN-DRAIN UNITS**

GARBAGE DISPOSAL UNIT

1. No
2. Yes >> Specify one below:
a. Multi-compartment tank
b. _____ tanks in series
c. Increase in tank capacity
d. Filter on tank outlet
3. Maybe

DESIGN FLOW

360 gallons per day
BASED ON:
1. Table 501.1 (dwelling unit(s))
2. Table 501.2 (other facilities)
SHOW CALCULATIONS
- for other facilities -

SOIL DATA & DESIGN CLASS

PROFILE **2** / CONDITION **A** / DESIGN **I**

AT Observation Hole # **TP 1**
Depth **36** "

DISPOSAL FIELD SIZING

1. Small - 2.0 sq.ft./gpd
2. Medium - 2.6 sq.ft./gpd
3. Medium-Large - 3.3 sq.ft./gpd
4. Large - 4.1 sq.ft./gpd
5. Extra-Large - 5.0 sq.ft./gpd

EFFLUENT/EJECTOR PUMP

1. Not required
2. May be required
3. Required >> Specify only for engineered or experimental systems:

DOSE: _____ Gallons

3. Section 503.0 (meter readings)
ATTACH WATER-METER DATA

**4 BEDROOMS AT
90 GALLONS PER
DAY EACH = 360 GPD**

SITE EVALUATOR STATEMENT

I certify that on **1/14/04** (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 (10-144A CMR 240).

Albert Frick
Site Evaluator Signature

163

SE #

4/21/2006
Date

ALBERT FRICK

(207) 839-5563

AFA@MAINERR.COM

Site Evaluator Name Printed

Telephone Number

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

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Town, City, Plantation
PORTLAND, PEAKS ISLAND

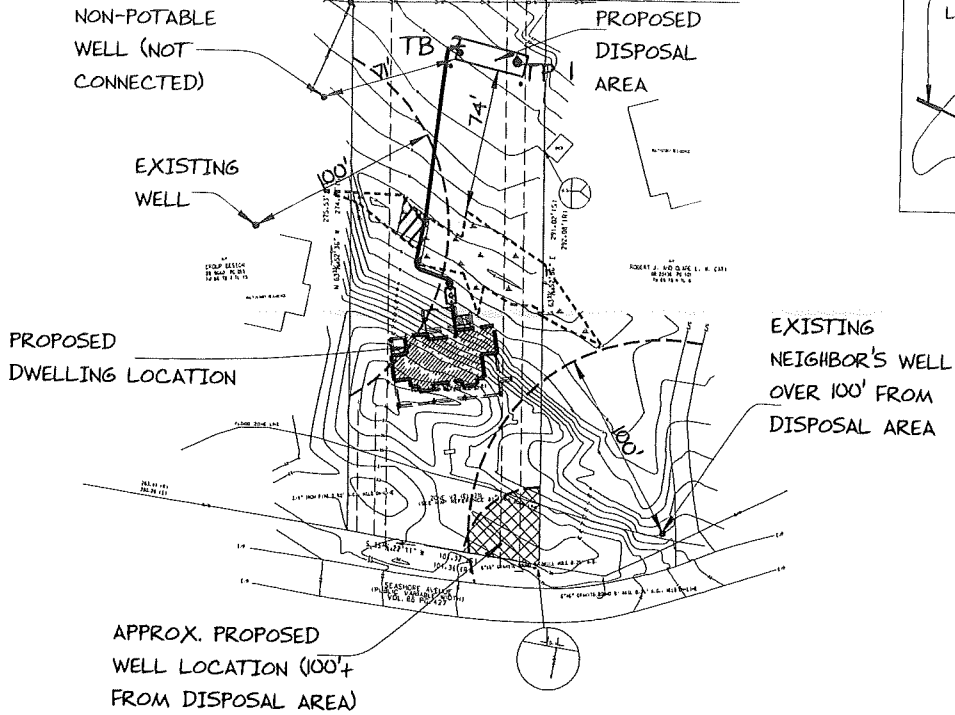
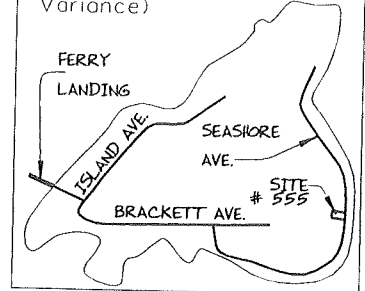
Street, Road Subdivision
554 SEASHORE AVENUE

Owner's Name
RICHARD SHAW

SITE PLAN

Scale 1" = 100 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				
10				
20	SANDY LOAM	FRIABLE	DARK YELLOWISH BROWN	
30				
40	BEDROCK			
50				

Soil Classification: Profile 2 Condition A Slope % Limiting Factor 36"

Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

Observation Hole TB 2 Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10				
20	TB 2 = 40" TO BEDROCK			
30				
40				
50				

Soil Classification: Profile Condition Slope % Limiting Factor "

Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

Albert Frick
 Site Evaluator Signature

163
 SE *

4/21/2006
 Date

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 Division of Health Engineering, Station 10 SHS
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PORTLAND, PEAKS ISLAND

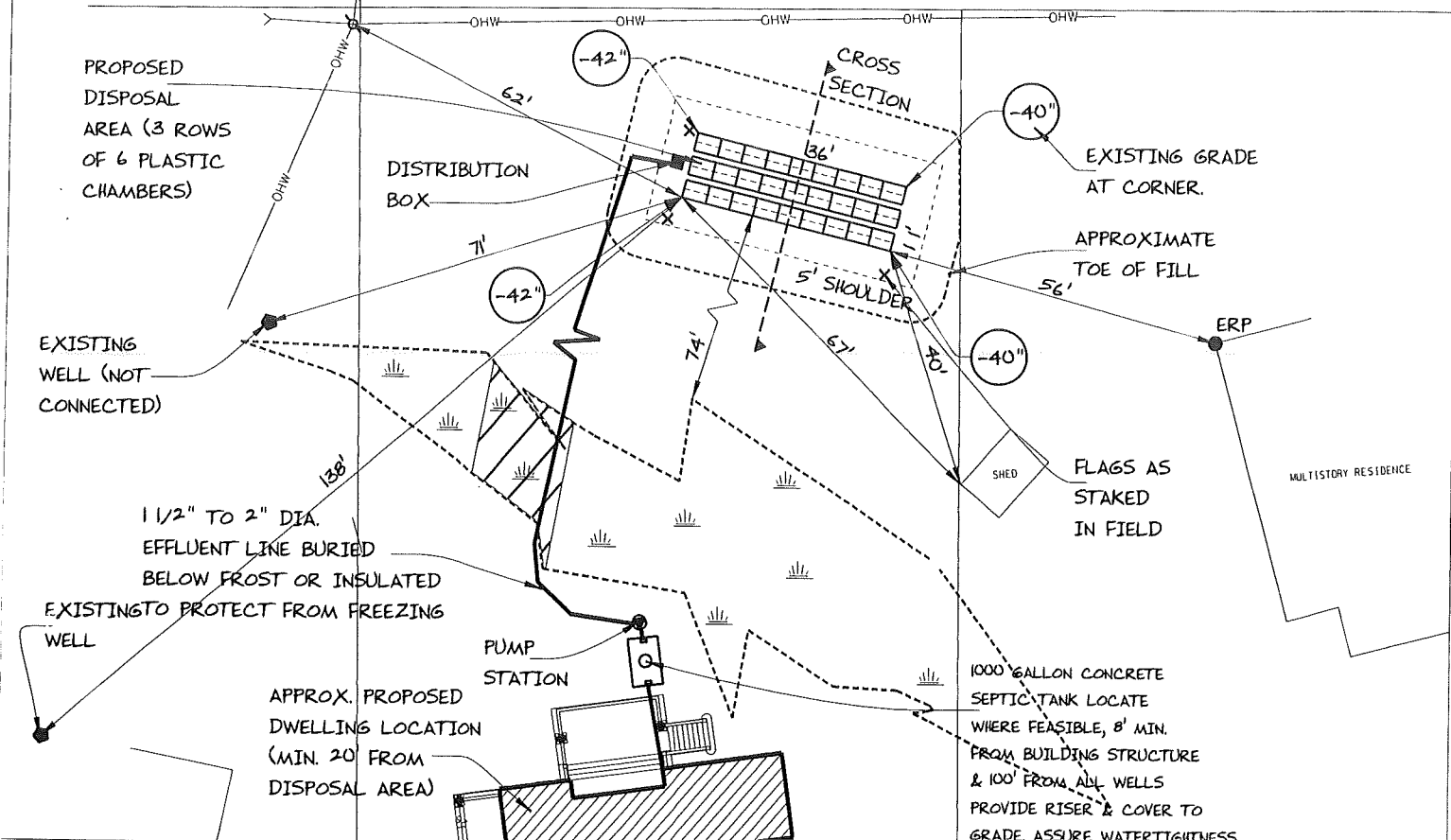
Street, Road, Subdivision
554 SEASHORE AVENUE

Owner's Name
RICHARD SHAW

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 30 FT.

N 26°33'64"11" 35" E 100.00'



FILL REQUIREMENTS

Depth of Fill (Upslope) : 16" - 18"
 Depth of Fill (Downslope) : 16" - 18"
 DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

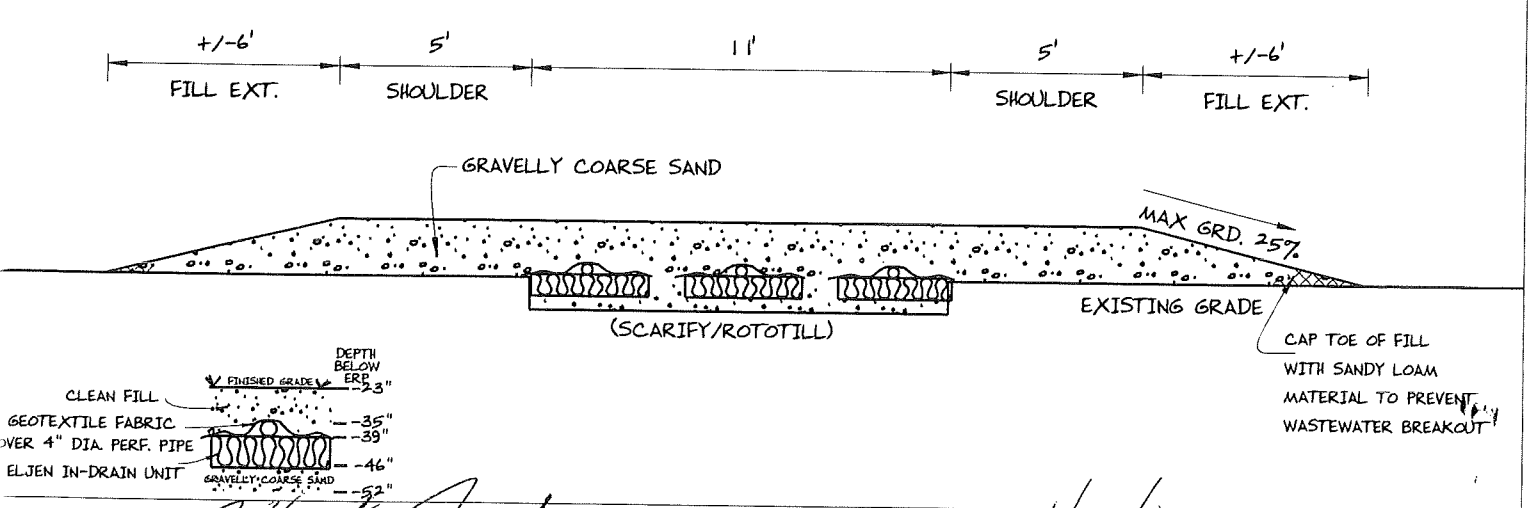
Finished Grade Elevation
 Top of Distribution Pipe or Proprietary Device
 Bottom of Disposal Area

ELEVATION REFERENCE POINT

SEE DETAIL BELOW
 Location & Description TOP OF CONCRETE FOOTING ON NEIGHBOR'S HOUSE
 Reference Elevation is: 0.0" or -----

DISPOSAL AREA CROSS SECTION

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

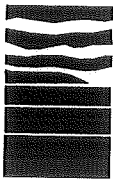


Albert Frick
 Site Evaluator Signature

163
 SE #

4/21/2006
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 HHE-200 Rev. 10/02



Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04038

(207) 839-5563

PORTLAND, PEAKS ISLAND

554 SEASHORE AVENUE

RICHARD SHAW

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 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.

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 should be connected in series to the proposed septic tank.

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) and controlled or hazardous substances shall not be disposed of in this system.

TOWN

LOCATION

APPLICANT'S NAME

- 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.
- 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.) divided by the # of days in period).
- 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. When an effluent pump is required, provisions shall be made to make certain that surface ground water does not enter the septic tank or pump station. 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.
- 10) 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 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 thoroughly before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off the chambers. Divert the surface water away from the disposal area by ditching or shallow swales.
- 11) Unless noted otherwise, fill shall be gravelly coarse sand which contains no more than 5% fines (silt and clay).
- 12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 13) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent



Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04038
(207) 839-5563

Fill Estimation Worksheet

Albert Frick Associates Inc.

95A County Road

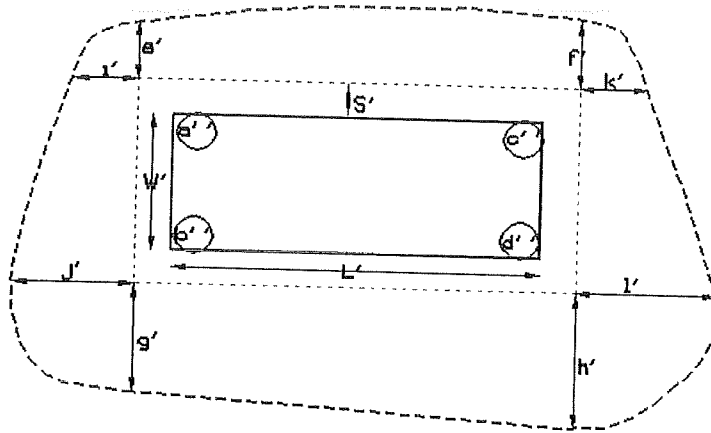
Gorham, Me 04038

839-5563 FAX - 839-5564

E-Mail - Albertfrick@worldnet.att.net

Town: Portland, Peaks Is.
 Project owner/applicant: Richard Shaw
 Address: 554 Seashore Ave.
Peaks Island, ME

This worksheet is being provided as a complimentary tool to assist in estimating the **approximate** amount of fill required to construct the proposed system. This worksheet does not substitute for a personal visit to the site for your own estimate. These calculations are intended to serve as a check to your work. Site features beyond the model (terrain) can vary to effect model projections.



Length (L)	<u>36</u> feet
Width (W)	<u>11</u> feet
Shoulder (S)	<u>5</u> feet
<u>Depth of fill:</u>	
upper left (a)	<u>16</u> inches
upper right (c)	<u>18</u> inches
lower left (b)	<u>16</u> inches
lower right (d)	<u>18</u> inches
<u>Fill Extension:</u>	
left up (e)	<u>6</u> feet
right up (f)	<u>6</u> feet
left down (g)	<u>6</u> feet
right down (h)	<u>6</u> feet
upper left (i)	<u>6</u> feet
lower left (j)	<u>6</u> feet
upper right (k)	<u>6</u> feet
lower right (l)	<u>6</u> feet
Cost of fill per yard= \$ 0.00	

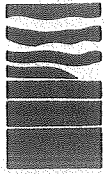
Body	51 cubic yards
Fill Down	8 cubic yards
Fill Up	8 cubic yards
Fill left	4 cubic yards
Fill right	4 cubic yards
Fill upleft	1 cubic yards
Fill upright	1 cubic yards
Fill downleft	1 cubic yards
Fill downright	1 cubic yards

SubTotal= 79 cubic yards

Shrinkage %= 15 %

Total Backfill 91 cubic yards

Adjusted cost of Total Backfill= \$ -



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Albert Frick, SS, SE
James Logan, SS, SE
Matthew Logan, SE
Brady Frick, SE
Bryan Jordan, SE
William O'Connor, SE

April 20, 2006

Harvey Johnson
Thompson Johnson Woodworks
115 Island Avenue
Peaks Island, ME 04108

Re: Richard Shaw, Seashore Avenue (Tax Map 86, Block A, Lot 16), Peaks Island, Portland

Dear Harvey:

I met with Doug Burdick, Project Analyst for DEP, on April 6, 2006, for a pre-application meeting. Mr. Burdick recommended that the dwelling footprint be slightly adjusted to avoid any wetland impact. We discussed the specific buffering of the wetland body and no wetland buffer setback is required by DEP for this isolated forested wetland area.

The revised attached progress plan developed by you and Rachel Conley, Architectural Designer, does avoid wetland impact for the structure. The necessary wetland impact required to cross the wetland to construct the subsurface wastewater disposal system is exempted, per the State of Maine Subsurface Wastewater Disposal Rules and the DEP NRPA regulations.

I have sent Doug Burdick of DEP and Michael Nugent, Code Enforcement Officer, a copy of both the proposed Site Plan and this correspondence, as a professional courtesy, to keep them informed.

You should contact Michael Nugent at the Portland Code Enforcement Office, to discuss the local building, zoning and permitting requirements.

Please contact me if you have any questions or additional matters for discussion.

Respectfully,

Albert Frick
AF/nd

Enc. Site Plan
HHE -200 form (septic application)
Cc. Richard Shaw
Doug Burdick, DEP
Michael Nugent, CEO