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2012 65669

Maine Dept. Health & Human Services
Div of Environmental Health, 11 SHS
(207) 287-5672 FAX (207) 287-3165

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY LOCATION >>>CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<<

City, Town, or Plantation: **PORTLAND, LITTLE DIAMOND ISLAND**
Street or Road: **37 FESSENDEN AVENUE**
Subdivision, Lot #: _____

11198
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.
Municipal Tax Map # **105** Lot # **T-4-5-6**

OWNER/APPLICANT INFORMATION
Name (last, first, MI): **STEVENS PAUL & DORIS** Owner Applicant
Mailing Address of Owner/Applicant: **21 THOMAS STREET PORTLAND, ME 04102**
Daytime Tel. #: _____

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.
Crista
Signature of Owner/Applicant _____ Date _____

CAUTION: INSPECTION REQUIRED
I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.
Local Plumbing Inspector Signature _____ (2nd) Date Approved _____

PERMIT INFORMATION

TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type Replaced: UNKNOWN Year Installed: UNKNOWN <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. <25% Expansion <input type="checkbox"/> b. >25% Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input checked="" 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 Approval <input type="checkbox"/> 3.Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <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(2000gpd+) <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 22,460 <input checked="" type="checkbox"/> SQ. FT. <input type="checkbox"/> ACRES	DISPOSAL SYSTEM TO SERVE <input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 5 <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 type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input checked="" type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other:
SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK <input checked="" 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: 1500 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 checked="" type="checkbox"/> c.Linear <input checked="" type="checkbox"/> b. Regular <input type="checkbox"/> d. H-20 loaded <input type="checkbox"/> 4. Other: SIZE: 1536 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. 32 ELJEN IN-DRAIN UNITS	GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or 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 450 gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities EXISTING 4 BEDROOMS POTENTIAL EXPANSION TO 5 BEDROOMS AT 90 GALLONS PER DAY EACH <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER-METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. N43 d 39 m 50.86 s Lon. W70 d 12 m 33.06 s If g.p.s., state margin of error
SOIL DATA & DESIGN CLASS PROFILE 2 / CONDITION A at Observation Hole # TB A Depth 28 " of Most Limiting Soil Factor	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Medium - 2.6 sq.ft./gpd <input checked="" type="checkbox"/> 2. Medium-Large - 3.3 sq.ft./gpd <input type="checkbox"/> 3. Large - 4.1 sq.ft./gpd <input type="checkbox"/> 4. Extra-Large - 5.0 sq.ft./gpd	SEE SEPTIC TANK NOTE ON PAGE 3 EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not required <input checked="" type="checkbox"/> 2. May be required <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	

SITE EVALUATOR STATEMENT

I Certify that on **6/30/2011** (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 241).

Site Evaluator Signature: *Albert Frick* SE # **163** Date: **7/8/2011**

ALBERT FRICK Site Evaluator Name Printed Telephone Number: **(207) 839-5563** E-mail Address: **ALBERT@ALBERTFRICK.COM**

City of Building Inspections
City of Portland, Maine
HHE-200 Rev. 02/2011

RECEIVED
DEC 21 2012

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation: **PORTLAND, LITTLE DIAMOND ISLAND**
 Street, Road Subdivision: **FESSENDEN AVENUE**
 Owner's Name: **PAUL & DORIS STEVENS**

SITE PLAN Scale 1" = 50 Ft. or as shown

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

PROPERTY INFORMATION PER TOWN TAX MAP AND AERIAL PHOTOGRAPH. VERIFY TO ASSURE SETBACKS SHOWN

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

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

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0			BROWN	
10	STONEY SANDY LOAM	FRIABLE	YELLOW BROWN	NONE EVIDENT
30	BEDROCK			
40				
50				

Soil Classification: 2 Profile A Condition
 Slope: 0-3 %
 Limiting Factor: 27 "
 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 = 28" TO REFUSAL / BEDROCK			
15	TB B = 19" TO REFUSAL / BEDROCK			
20	TB C = 29" TO REFUSAL / BEDROCK			
30	TB D = 32" + TO REFUSAL / BEDROCK			
40				
50				

Soil Classification: _____ Profile _____ Condition _____
 Slope: _____ %
 Limiting Factor: _____ "
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

Albert Frick
 Site Evaluator Signature

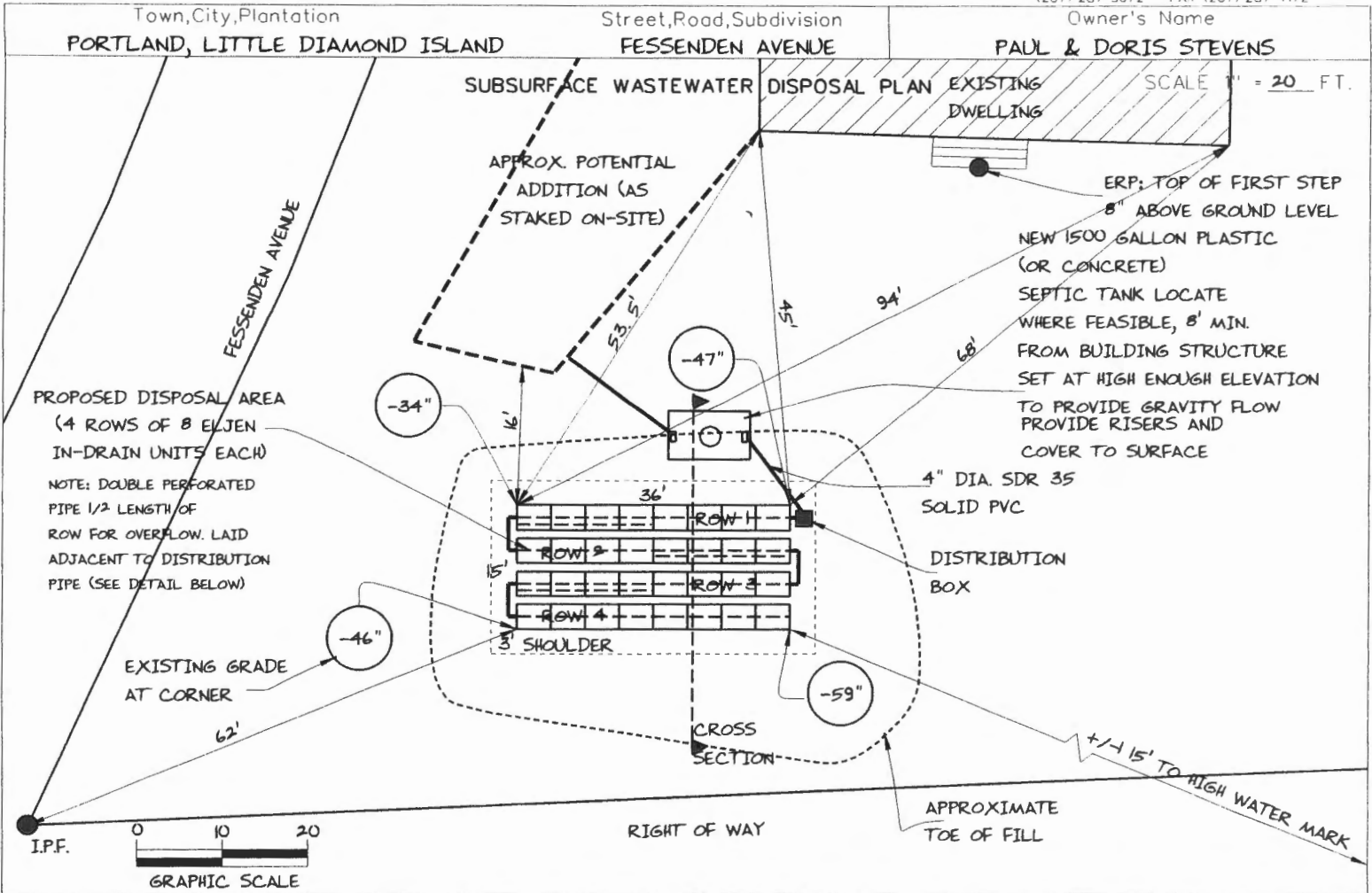
163
 SE *

7/8/2011
 Date

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 HHE-200 Rev. 10/02

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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



FILL REQUIREMENTS

Depth of Fill (Upslope) : 15" - 28"
 Depth of Fill (Downslope) : 15" - 28"
 DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

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

SEE
 DETAIL
 BELOW

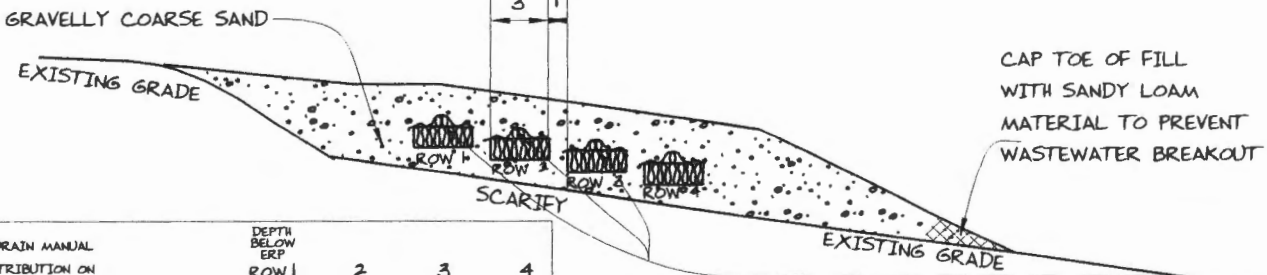
ELEVATION REFERENCE POINT

Location & Description: TOP OF FIRST STEP, 8" ABOVE ROCK
 Reference Elevation is: 0.0' or -----

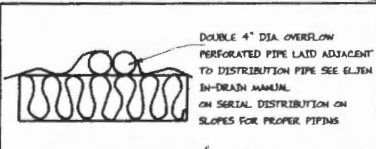
DISPOSAL AREA CROSS SECTION



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



	DEPTH BELOW ERP	ROW 1	ROW 2	ROW 3	ROW 4
FINISHED GRADE		-19"	-23"	-27"	-31"
CLEAN FILL		-29"	-33"	-37"	-41"
GEOTEXTILE FABRIC OVER 4" DIA. PERF. PIPE		-33"	-37"	-41"	-45"
ELJEN IN-DRAIN UNIT		-40"	-44"	-48"	-52"
GRAVELLY COARSE SAND NO PARTICLES OF GRAVEL LARGER THAN 3/4"		-46"	-50"	-54"	-58"



Albert Frick
 Site Evaluator Signature

163
 SE *

7/8/2011
 Date



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

PORTLAND, LITTLE DIAMOND ISLAND FESSENDEN AVENUE PAUL & DORIS STEVENS

TOWN LOCATION APPLICANT'S NAME

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Division of Health and 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 law) 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 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 per the "Rules" to allow for easy maintenance of filter.

5) 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.

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) 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 to within 6" of a finished ground surface.

Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND, LITTLE DIAMOND ISLAND	FESSENDEN AVENUE	PAUL & DORIS STEVENS
TOWN	LOCATION	APPLICANT'S NAME

- 7) The actual waste 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
- 8) The general minimum setbacks between a well (public or private) 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 pitch requirements. In gravity systems, the invert of the septic tank(s) outlet(s) should be at least 4 inches above the invert of the distribution box outlet at the disposal area.
- 10) When an effluent pump is required: Pump stations should be sized per manufacturer's specifications to meet lift requirements and friction loss. 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. Additional fill beyond indicated on plan may be necessary to replace organic matter. 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 settling). 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, with 4" min. soil or soil amendment mix suitable for growing, 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

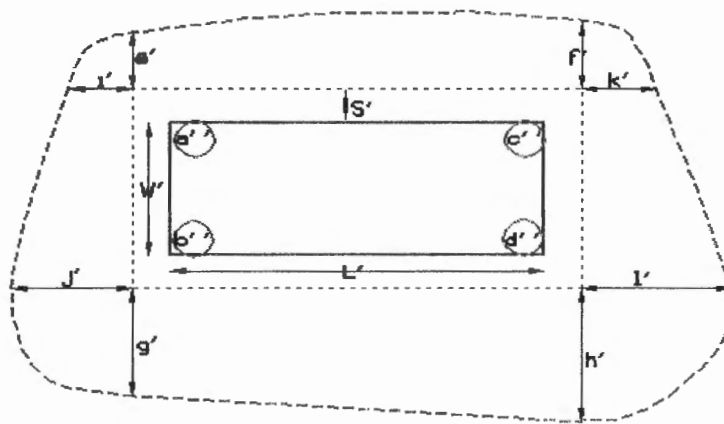
95A County Road Gorham, Maine 04038
(207) 859-5565

Fill Estimation Worksheet

Albert Frick Associates Inc.
95A County Road
Gorham, Me 04038
839-5563 FAX - 839-5564
E-Mail - AFA@Maine.RR.Com

Town: PORTLAND, LITTLE DIAMOND
Project owner/applicant: STEVENS
Address:

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>15</u> feet
Shoulder (S)	<u>3</u> feet
<i>Depth of fill:</i>	
upper left (a)	<u>27</u> inches
upper right (c)	<u>34</u> inches
lower left (b)	<u>27</u> inches
lower right (d)	<u>34</u> inches
<i>Fill Extension:</i>	
left up (e)	<u>4</u> feet
right up (f)	<u>6</u> feet
left down (g)	<u>7</u> feet
right down (h)	<u>14</u> feet
upper left (i)	<u>4</u> feet
lower left (j)	<u>7</u> feet
upper right (k)	<u>6</u> feet
lower right (l)	<u>14</u> feet
Cost of fill per yard= \$ 0.00	

Body	84 cubic yards
Fill Down	21 cubic yards
Fill Up	10 cubic yards
Fill left	5 cubic yards
Fill right	12 cubic yards
Fill upleft	1 cubic yards
Fill upright	1 cubic yards
Fill downleft	2 cubic yards
Fill downright	6 cubic yards

SubTotal=	142 cubic yards
Shrinkage %=	15 %
Total Backfill	163 cubic yards

Adjusted cost of Total Backfill= \$ -

City of Portland, Maine - Building or Use Permit

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

Permit No: 201265669	Date Applied For: 12/21/2012	CBL: 105 T004001
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Location of Construction: 37 FESSENDEN AVE	Owner Name: STEVENS DORIS J	Owner Address: 21 THOMAS ST	Phone:
Business Name:	Contractor Name: Craig Lefebvre	Contractor Address: Po Box 551 Gorham	Phone (207) 831-6064
Lessee/Buyer's Name	Phone:	Permit Type: Replacement System	

Proposed Use:	Proposed Project Description:
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Dept: Building **Status:** Approved w/Conditions **Reviewer:** Jon Rioux **Approval Date:** 01/09/2013**Note:** **Ok to Issue:**

- 1) Septic field and extension inspection for bottom preparation/ scarification to verify removal of vegetation, established transitional horizon and erosion and sedimentation control measures.
Backfill inspection of septic field for approved materials, stabilization, slopes and extensions.
Exposed septic field installation and tank location inspection to check elevations, dimensions, piping, plumbing station and system design prior to covering.