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SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Resources
Division of Health Services
601 State Street, Augusta, ME 04302
Tel: (207) 624-1172 Fax: (207) 624-1172

PROPERTY LOCATION		>> Caution: Permit Required - Attach in Space Below <<	
City, Town or Plantation	PORTLAND, PEAKS ISLAND	PORTLAND Date Permit Issued: <u>10/10/04</u> PERMIT # 9298 STATE COPY \$ <u>11,120</u> FEE Double Fee Charged L.P.I. # <u>0690</u>	Owner Local Plumbing Inspector Signature
Street or Road	845 SEASHORE AVENUE		
Subdivision, Lot #			
OWNER/APPLICANT INFORMATION			
Name (last, first, MI)	CHILDS FRANK & ELIZABETH		
Mailing Address of	100 TIFFANY LANE MANCHESTER, N.H. 03104-4782		
Daytime Tel. #		Municipal Tax Map # <u>9</u>	Lot # <u>109-10</u>
Owner or Applicant Statement		Caution: Inspections Required	
I state 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		Local Plumbing Inspector Signature	
Date		(1st) Date Approved	
		(2nd) Date Approved	

PERMIT INFORMATION

TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENT(S)
1. <input type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: <u>cesspool</u> Year Installed: <u>pre 1974</u> 3. <input checked="" type="checkbox"/> Expanded System a. <input checked="" type="checkbox"/> One-time exempted b. <input type="checkbox"/> Non exempted 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	1. <input 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. Replacement System Variance a. <input checked="" 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 & all 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
SIZE OF PROPERTY	DISPOSAL SYSTEM TO SERVE	TYPE OF WATER SUPPLY
18,600 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> acres	1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>2</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY	1. <input checked="" type="checkbox"/> Drilled Well 2. <input checked="" type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input type="checkbox"/> Public 5. <input type="checkbox"/> Other: <u>(TO BE ABANDONED)</u>
SHORELAND ZONING		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK	DISPOSAL FIELD TYPE & SIZE	GARBAGE DISPOSAL UNIT	DESIGN FLOW
1. <input checked="" type="checkbox"/> Concrete (if necessary) a. <input type="checkbox"/> Regular b. <input checked="" 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. 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>8x4</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. 18 ELJEN IN-DRAIN UNITS	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"/> Tank in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filler on tank outlet	180 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 - 2 BEDROOMS AT 90 GALLONS PER DAY EACH = 180 GPD
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	PUMPING SEE NOTE	3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA
PROFILE CONDITION DESIGN <u>2 / A/D / 3</u> AT Observation Hole # <u>TP 1</u> Depth <u>12</u> " Elevation _____ " 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 ON PAGE 3 2. <input checked="" type="checkbox"/> May be required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: _____ Gallons	

SITE EVALUATOR STATEMENT

I certify that on 7/16/00 (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).

Albert Frick
Site Evaluator Signature

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SE

8/10/2000
Date

Page 1 of 3
HHE-200 Rev. 1/99

REVISED 10/24/00
Updated 12/10/2004

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 an 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 LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1903)
2. There will be no change in use of the structure except as authorized for one-time exempted expansions 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 <u>PORTLAND (PEAKS ISLAND)</u>
Permit No. _____	Date Permit Issued _____
Property Owner's Name: <u>FRANK & ELIZABETH CHILDS</u>	Tel. No.: _____
System's Location: <u>845 SEASHORE AVENUE (MAP 91, SEGM, LOTS 9 & 10)</u>	
Property Owner's Address: <u>100 TIFFANY LANE</u>	
(If different from above) _____	<u>MANCHESTER, N.H. 03104-4782</u>

**SPECIFIC INSTRUCTIONS TO THE:
LOCAL PLUMBING INSPECTOR (LPI):**
If any of the variances exceed your approval authority and/or do not meet all of 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:
If 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 total 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.

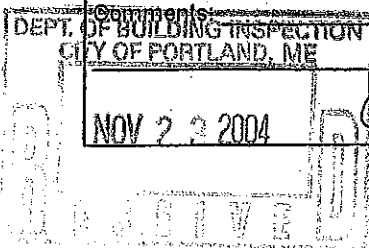

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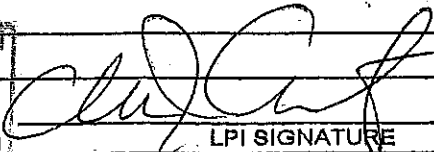
 SIGNATURE OF OWNER DATE

LOCAL PLUMBING INSPECTOR
I, MIKE NUGENT, 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. (I 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 Comments Section below as to why the proposed replacement system is not being recommended.




10/10/04

 LPI SIGNATURE DATE

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	Disposal Fields			Septic Tanks			Disposal Fields	Septic Tanks
SOILS							2 A/D	
Soil Profile	Ground Water Table						12' Inches	
Soil Condition	Restrictive Layer						Inches	
from HHE-200	Bedrock						to 12' Inches	
SETBACK DISTANCES (in feet)	Disposal Fields			Septic Tanks			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 (a)	300 ft (a)	300 ft (a)	100 ft (a)	100 ft (a)	100 ft (a)		
Owner's wells	100 down to 80 ft	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	75' ±***	
Neighbor's wells	100 down to 60 ft (b)	200 down to 120 ft (b)	300 down to 180 ft (b)	100 down to 50 ft (b)	100 down to 75 ft (b)	100 down to 75 ft (b)		
Water supply line	10 ft (a)	20 ft (a)	25 ft (a)	10 ft (a)	10 ft (a)	10 ft (a)		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 80 ft	200 down to 120 ft	300 down to 180 ft	100 down to 60 ft	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
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 (d)	25 ft (d)	25 ft (d)	25 ft (d)	25 ft (d)	25 ft (d)		
Slopes greater than 3:1	10 ft	18 ft	25 ft	N/A	N/A	N/A		
No full basement (e.g. slab, frost wall, column)	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. Fill extension Grade - to 3:1 NEAR PROPERTY LINE, IF NECESSARY

*** 75' ± TO PROPOSED DRILLED WELL

3.

- Footnotes:
- a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
 - b. May not be any closer to neighbor's well than the existing disposal field or septic tank unless written permission is granted by the neighbor.
 - c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
 - d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

Albert Fruch
 SITE EVALUATOR'S SIGNATURE

8/10/2000
 DATE

REVISED 10/24/00 DATE Updated 12/10/2004

FOR USE BY THE DEPARTMENT ONLY

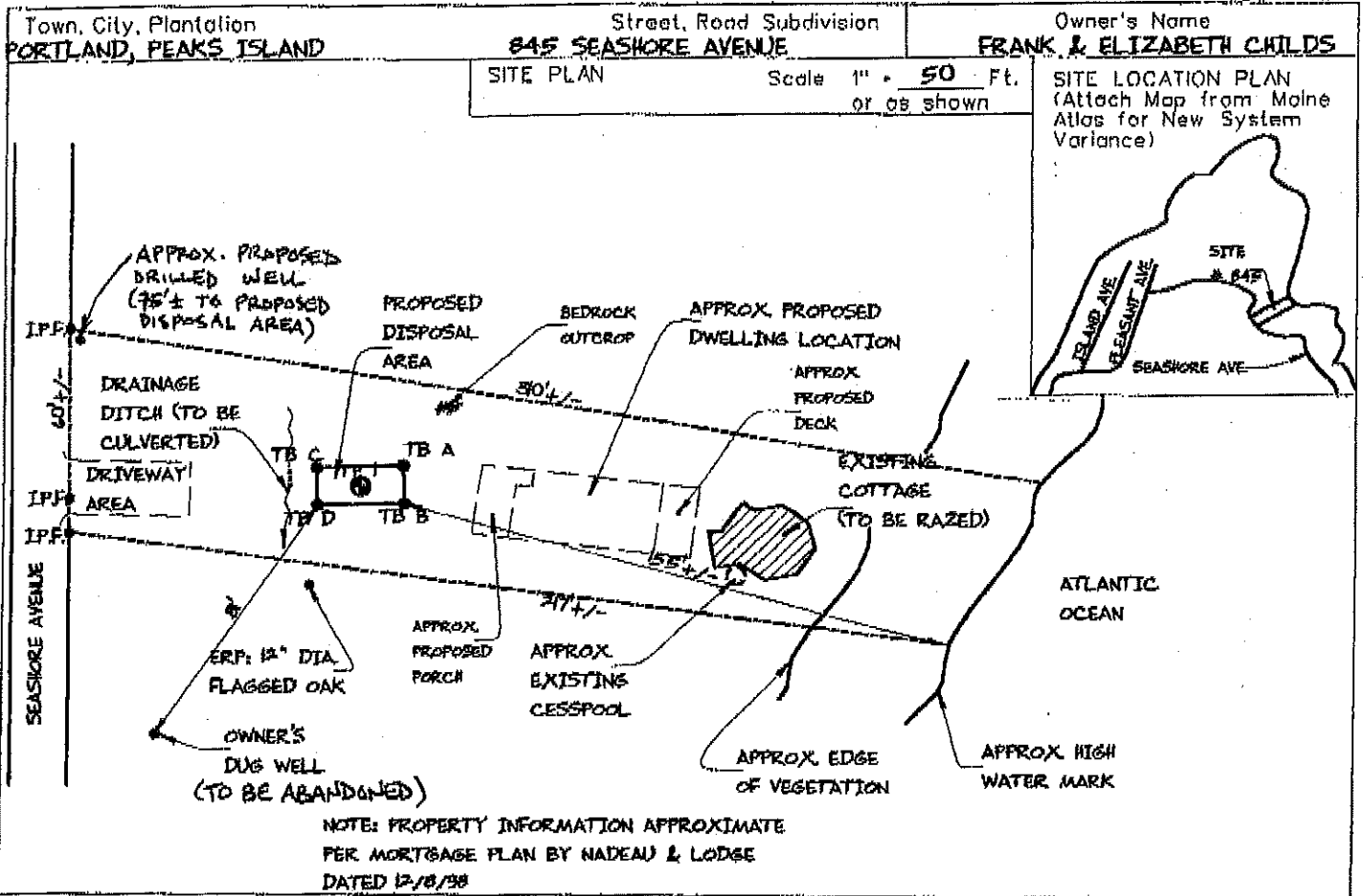
The Department has reviewed the variance(s) and () does () does not give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

SIGNATURE OF THE DEPARTMENT

DATE

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering



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

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

Texture	Consistency	Color	Mottling
SANDY LOAM		DARK BROWN	
LOAMY SAND & SAND	FRIABLE	LIGHT GRAYISH BROWN	COMMON DISTINCT
			△△△△ FREE WATER
BEDROCK			

Soil Classification: 2 A/D Profile Condition
Slope: _____ %
Limiting Factor: 12"
Ground Water:
Restrictive Layer:
Bedrock:
Pit Depth:

Observation Hole: TB A-D Test Pit Boring
Depth of Organic Horizon Above Mineral Soil: _____

Texture	Consistency	Color	Mottling
TB A = 26" TO BEDROCK			
TB B = 24" TO BEDROCK			
TB C = 34" TO BEDROCK			
TB D = 26" TO BEDROCK			

Soil Classification: 2 A/D Profile Condition
Slope: _____ %
Limiting Factor: 24"
Ground Water:
Restrictive Layer:
Bedrock:
Pit Depth:

Albert Frick
Site Evaluator Signature

63 SE • 8/10/2000 Date

REVISED 10/24/00
updated 12/10/2004

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation
PORTLAND, PEAKS ISLAND

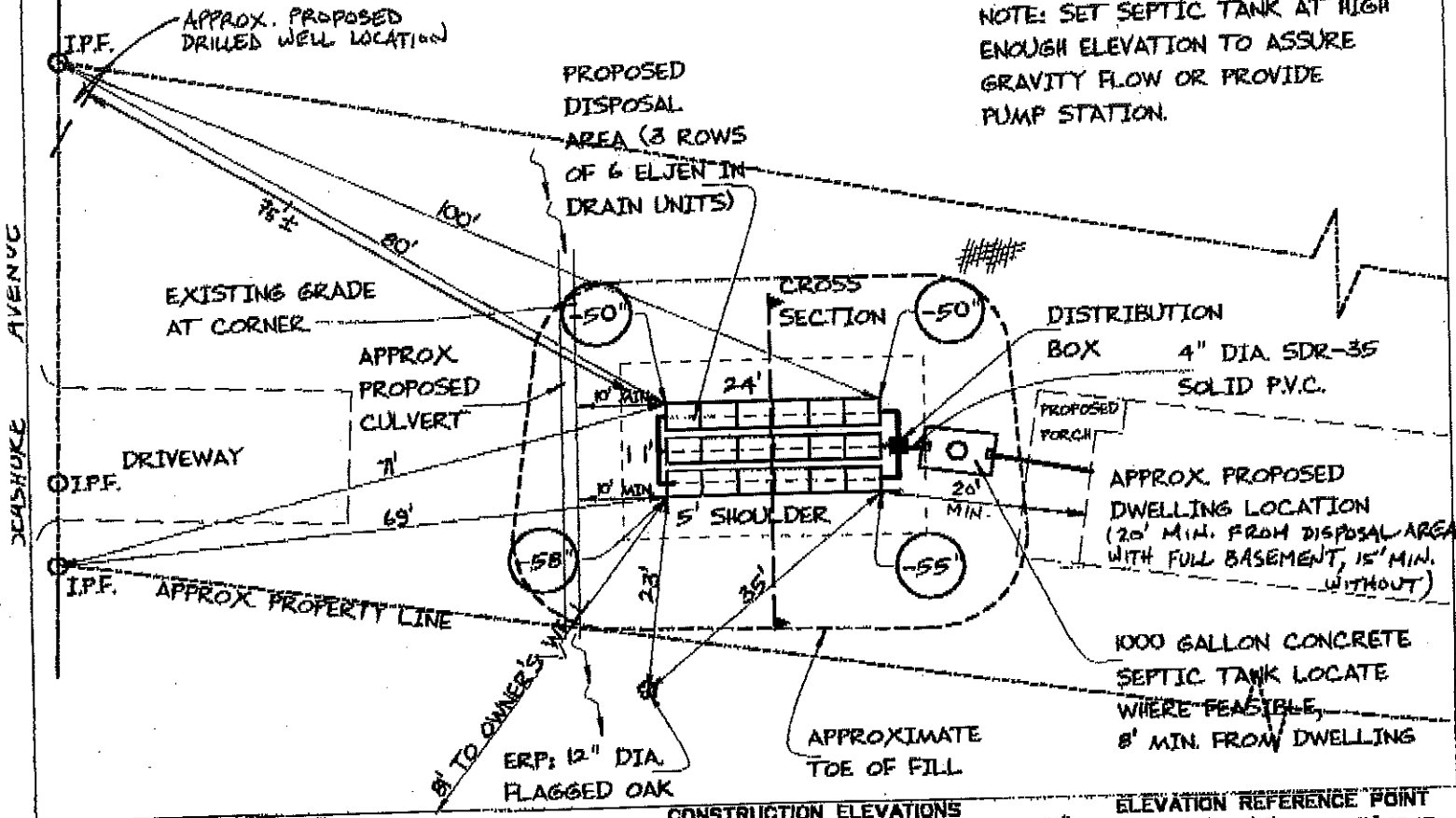
Street, Road, Subdivision
845 SEASHORE AVENUE

Owner's Name
FRANK & ELIZABETH CHILDS

SCALE 1" = 20 FT.

SUBSURFACE WASTEWATER DISPOSAL PLAN

NOTE: SET SEPTIC TANK AT HIGH ENOUGH ELEVATION TO ASSURE GRAVITY FLOW OR PROVIDE PUMP STATION.



FILL REQUIREMENTS

Depth of FM (Upslope) : 29"
Depth of FM (Downslope) : 34" - 37"

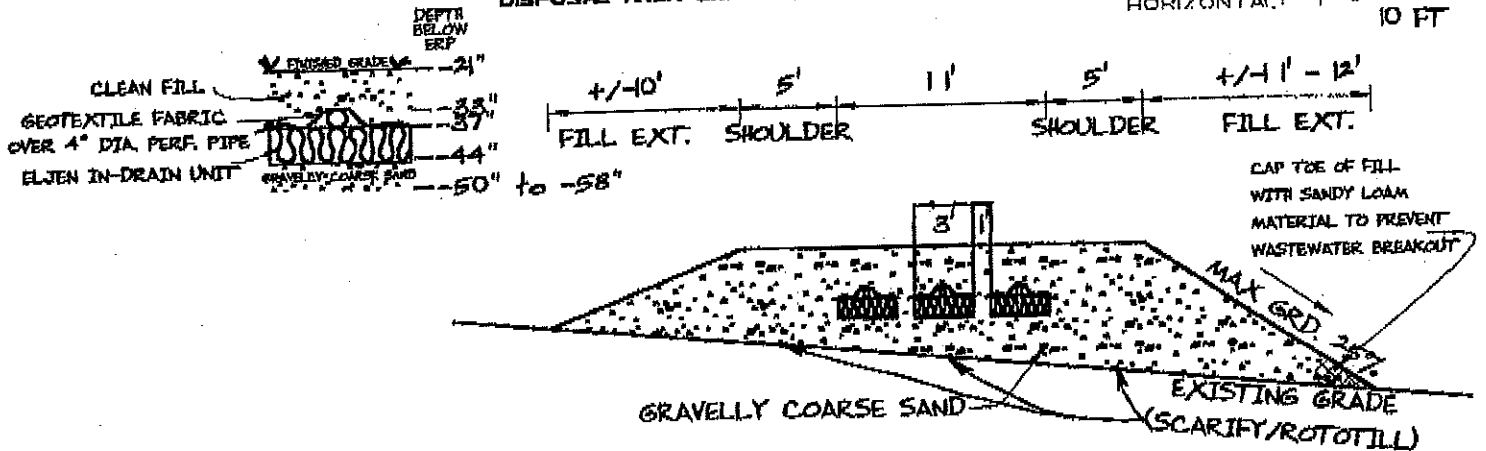
CONSTRUCTION ELEVATIONS

Finished Grade Elevation : -21"
(Top of Distribution Pipe) or Proprietary Device : -33"
Bottom of Disposal Area (ELJEN IN-DRAIN UNIT) : -44"

ELEVATION REFERENCE POINT
Location & Description NAIL 5/8" ABOVE
BASE OF 12" DIA. FLAGGED OAK
Reference Elevation 00"

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

DISPOSAL AREA CROSS SECTION



Albert Frick
Site Evaluator Signature

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SE

8/10/2000
Date

REVISED 10/24/00

Updated 12/10/2004



Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators
25A County Road Gorham, Maine 04038
(207) 839-5563

Portland, Peaks Island
TOWN

845 Seashore Ave.
LOCATION

Frank + Elizabeth Childs
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.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

Portland, Peaks Island	875 Seashore Ave.	Frank + Elizabeth Childs
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 once 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.) + # 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 requirements. 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 to 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 material to prevent erosion.

