

199-A-001

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Public Services  
207-774-1246 FAX 207-774-1272

**PROPERTY LOCATION**

Town or Plantation: PORTLAND

Street Subdivision Lot #: PORTLAND JETPORT  
YELLOWBIRD LANE

**PROPERTY OWNER'S NAME**

Lot #: HLS ASSOCIATES

Applicant's Name: MARLETA CONSTRUCTION

Mailing Address of Owner: NORtheast AIRMOBILE  
PORTLAND INTERNATIONAL

Daytime Tel. #: 207-774-6318

**PORTLAND**  
Permit Issued: 4.7.98

6446 \$ 100 TOWN COPY FEE  # Double Fee Charged

L.P.I. # 0129

Local Plumbing Inspector Signature: \_\_\_\_\_

**Owner Statement**

I state that the information submitted is correct to the best of my knowledge and understand that my falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.

Signature of Owner/Applicant: Craig E. Bellows Date: 4-7-98

**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: \_\_\_\_\_ Date Approved: \_\_\_\_\_

### PERMIT INFORMATION

**TYPE OF APPLICATION**

1.  First Time System

2.  Replacement System  
Type Replaced: \_\_\_\_\_  
Year Installed: \_\_\_\_\_

3.  Expanded System  
 a. one time exempted  
 b. non exempted

4.  Experimental System

5.  Seasonal Conversion

**THIS APPLICATION REQUIRES**

1.  No Rule Variance LPI TO APPROVE FILE

2.  New System Variance (Municipal soil condition)

3.  First Time System Variance (State)

4.  Replacement System Variance  
 a. Local Plumbing Inspector approval  
 b. State & Local Plumbing Inspector approval

5.  Minimum Lot Size Variance

6.  Seasonal Conversion Approval

**DISPOSAL SYSTEM COMPONENT(S)**

1.  Non-Engineered System

2.  Primitive System (graywater & d.t. toilet)

3.  Alternative Toilet \_\_\_\_\_

4.  Non-Engineered Treatment Tank

5.  Holding Tank \_\_\_\_\_ Gallons

6.  Non-Engineered Disposal Area (only)

7.  Separated Laundry System

8.  Engineered System (>2000 gpd)

9.  Engineered Treatment Tank (only)

10.  Engineered Disposal Area (only)

11.  Pretreatment

**SIZE OF PROPERTY**

: XXX ACRES

**DISPOSAL SYSTEM TO SERVE**

1.  Single Family Dwelling Unit

2.  Multiple Family Dwelling Number of Units: \_\_\_\_\_

3.  Other: AIRLINE BUILDING

**TYPE OF WATER SUPPLY**

PUBLIC WATER

**SHORELAND ZONING**

Yes  No

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

**TREATMENT TANK**

1.  Concrete  
 a. Regular  
 b. Low Profile

2.  Plastic

3.  Other: \_\_\_\_\_

SIZE: XXX Gallons

**DISPOSAL AREA TYPE / SIZE**

1.  Bed \_\_\_\_\_ Sq. Ft.

2.  Proprietary Device XXX Sq. Ft.  
 Quarter  Linear  
 Regular  H-20

3.  Trench \_\_\_\_\_

4.  Other \_\_\_\_\_

**GARBAGE DISPOSAL UNIT**

1.  No

2.  Yes  
 Multi-compartment tank  
 Tank in series  
 Increase in tank capacity  
 Filter on tank outlet

**CRITERIA USED FOR DESIGN FLOW**  
(Show Calculations)

AIRLINE UNLOADING BUILDING 18 EMPLOYEES @ 15

DESIGN FLOW: 270  
(Gallons/Day)

**PROFILE & DESIGN CLASS**

PROFILE: 12 DESIGN: C

DEPTH TO MOST LIMITING FACTOR: 30"

**DISPOSAL AREA SIZING**

1.  Small - 2.00

2.  Medium - 2.80

3.  Medium-Large - 3.30

4.  Large - 4.10

5.  Extra-Large - 5.20

**PUMPING**

1.  Not required

2.  May be required

3.  Required

**IF PUMPED**  
DOSE: 150 Gallons

### SITE EVALUATOR'S STATEMENT

On 6/15/97 (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.

Albert Frick  
Site Evaluator Signature

SE =

6/20/97  
Date

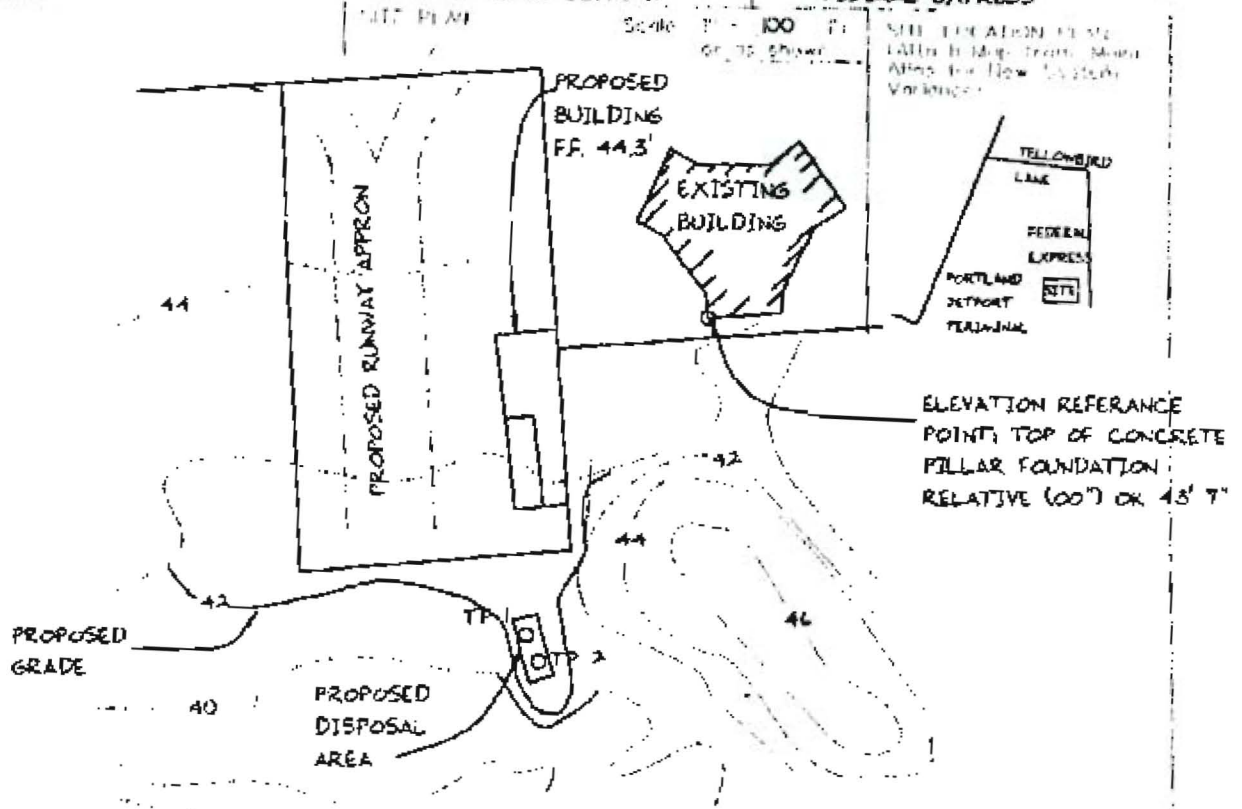
# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

Town or City: **Portland**

Street, Road, Subdivision:  
**PORTLAND JETPORT**

Parcel No. / Name:  
**FEDERAL EXPRESS**



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

Observation Hole TP 1				Observation Hole TP 2			
Level	Consistency	Color	Moisture	Level	Consistency	Color	Moisture
0-10		DARK GRAYISH BROWN		0-10		OLIVE BROWN	
10-20	FRIABLE	OLIVE BROWN		10-20	FRIABLE		
20-30				20-30		VARIABLE	
30-40	FIRM	OLIVE	COMMON, DISTINCT	30-40	FIRM	GRAY	COMMON, DISTINCT
40-50				40-50			
LIMIT OF EXCAVATION				LIMIT OF EXCAVATION - 57'			
Soil Description: <b>12</b> (Silt Loam), <b>C</b> (Friable) Plasticity: <b>30%</b> Limiting Factor: <b>30%</b>				Soil Description: <b>12</b> (Silt Loam), <b>PLASTIC</b> Plasticity: <b>28%</b> Limiting Factor: <b>28%</b>			
Legend: ■ Organic Matter □ Free Water Layer □ Bedrock □ Fill Depth				Legend: ■ Organic Matter □ Free Water Layer □ Bedrock □ Fill Depth			

*Albert Frick*  
Site Engineer/Designer

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6/20/97



**SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION**

Department of Human Services  
Division of Health Engineering

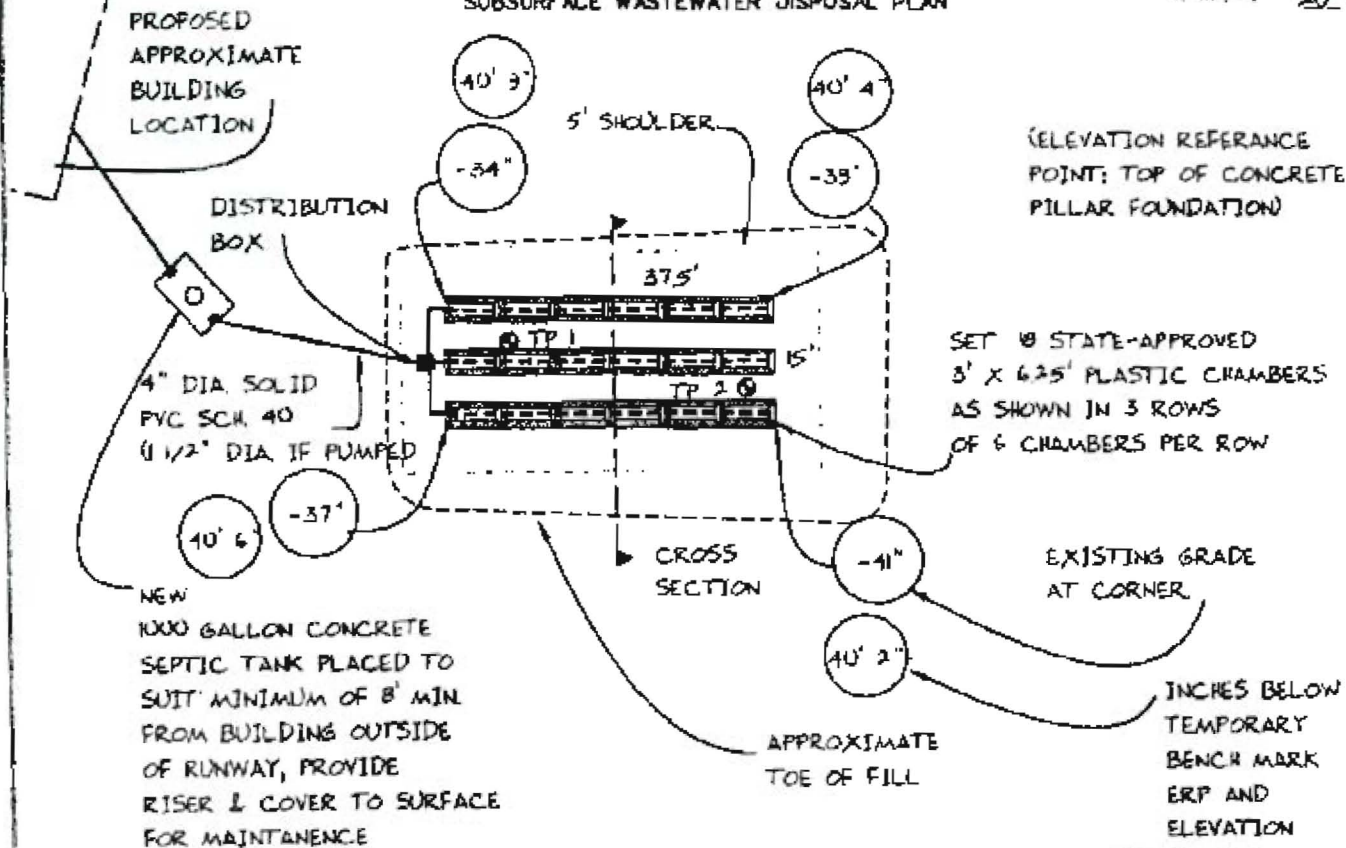
PORTLAND

PORTLAND JETPORT

FEDERAL EXPRESS

**SUBSURFACE WASTEWATER DISPOSAL PLAN**

SCALE: 1" = 20'



**FILL REQUIREMENTS**

Depth of Fill (Upper) 4-7"  
Depth of Fill (Downside) 9-11"

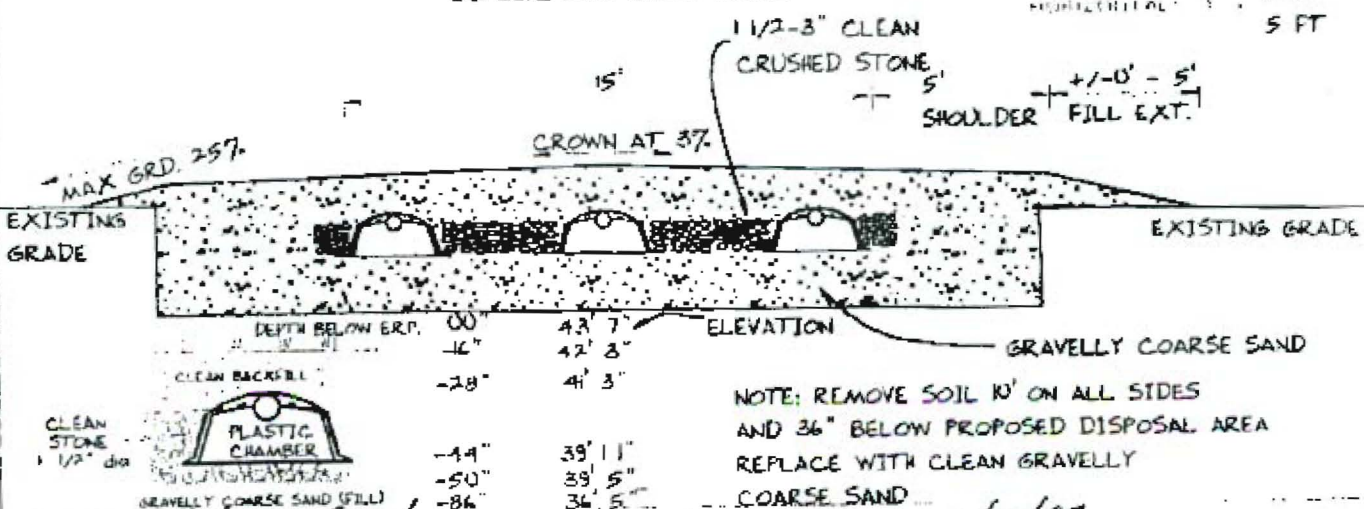
**CONSTRUCTION ELEVATIONS**

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

**ELEVATION REFERENCE POINT**

Location & Description: TOP OF CONCRETE PILLAR FOUNDATION  
Reference Elevation: (48' 7") (00")  
GRADE: 5 FT  
HEIGHT TO TOP: 5 FT

**DISPOSAL AREA CROSS SECTION**



*Albert J. Jirik*  
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6/20/97



**Albert Frick Associates, Inc.**  
 Soil Scientists & Site Evaluators  
 95A County Road Corhan, Maine 04178  
 (207) 839-5563 FAX (207) 839-5564

Albert Frick ES, SE  
 James Logan ES, SE  
 Matthew Logan SE

<u>PORTLAND</u>	YELLOWBIRD LANE	HLI ASSOCIATES
TOWN	PORTLAND SEAPORT	<del>FEDERAL EXPRESS</del>
	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.



## ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND	YELLOWBIRD LANE PORTLAND JETPORT	<del>FEDERAL EXPRESS</del>
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.)  $\times$  7.48 (gallons per cu. ft.)  $\div$  # of days in period).
- 8) The general minimum setback 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.

