

086-A-016

2004-6004

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: PORTLAND, PEAKS ISLAND, 554 SEASHORE AVENUE. OWNER/APPLICANT INFORMATION: RICHARD SHAW, 18 SOUTH MILL DRIVE, GLASTONBURY, CT 06073. Daytime Tel: 860-922-7429. Municipal Tax Map: 86, Lot: A-16. Owner or Applicant Statement and Caution: Inspections Required.

PERMIT INFORMATION. TYPE OF APPLICATION: First Time System. THIS APPLICATION REQUIRES: No Rule Variance. DISPOSAL SYSTEM COMPONENTS: Complete Non-Engineered System. SIZE OF PROPERTY: 28,000 +/- sq. ft. SHORELAND ZONING: Yes. DISPOSAL SYSTEM TO SERVE: Single Family Dwelling Unit, No. of Bedrooms: 4. PROPOSED TYPE OF WATER SUPPLY: Drilled Well.

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3). TREATMENT TANK: Concrete Regular, 1000 gallons. DISPOSAL FIELD TYPE & SIZE: Proprietary Device, 27 ELJEN IN-DRAIN UNITS. GARBAGE DISPOSAL UNIT: No. DESIGN FLOW: 360 gallons per day. SOIL DATA & DESIGN CLASS: Profile 2, Condition A, Design I. AT Observation Hole: TP 1, Depth 36".

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 241).

Signature: ALBERT FRICK, Site Evaluator Name Printed. Telephone Number: (207) 839-5563. E-mail Address: ALBERTFRICK@WORLDNETATTN.NET. Date: 3/18/2004.

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Town, City, Plantation
PORTLAND, PEAKS ISLAND

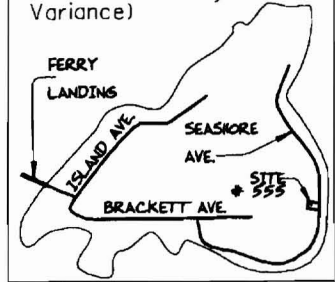
Street, Road Subdivision
554 SEASHORE AVENUE

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)



NON-POTABLE WELL (NOT CONNECTED)

EXISTING WELL

APPROX. PROPOSED DWELLING LOCATION (MIN. 20' FROM DISPOSAL AREA)

APPROX. PROPOSED WELL LOCATION (100'+ FROM DISPOSAL AREA)

PROPOSED DISPOSAL AREA

APPROX. EXISTING NEIGHBOR'S WELL OVER 100' FROM DISPOSAL AREA

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
0			
10			
20	SANDY LOAM	FRIABLE	DARK YELLOWISH BROWN
30			
40	BEDROCK		
50			

Soil Classification: 2 A
 Profile Condition: 36
 Slope: 36 %
 Limiting Factor: 36
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

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

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

Site Evaluator Signature

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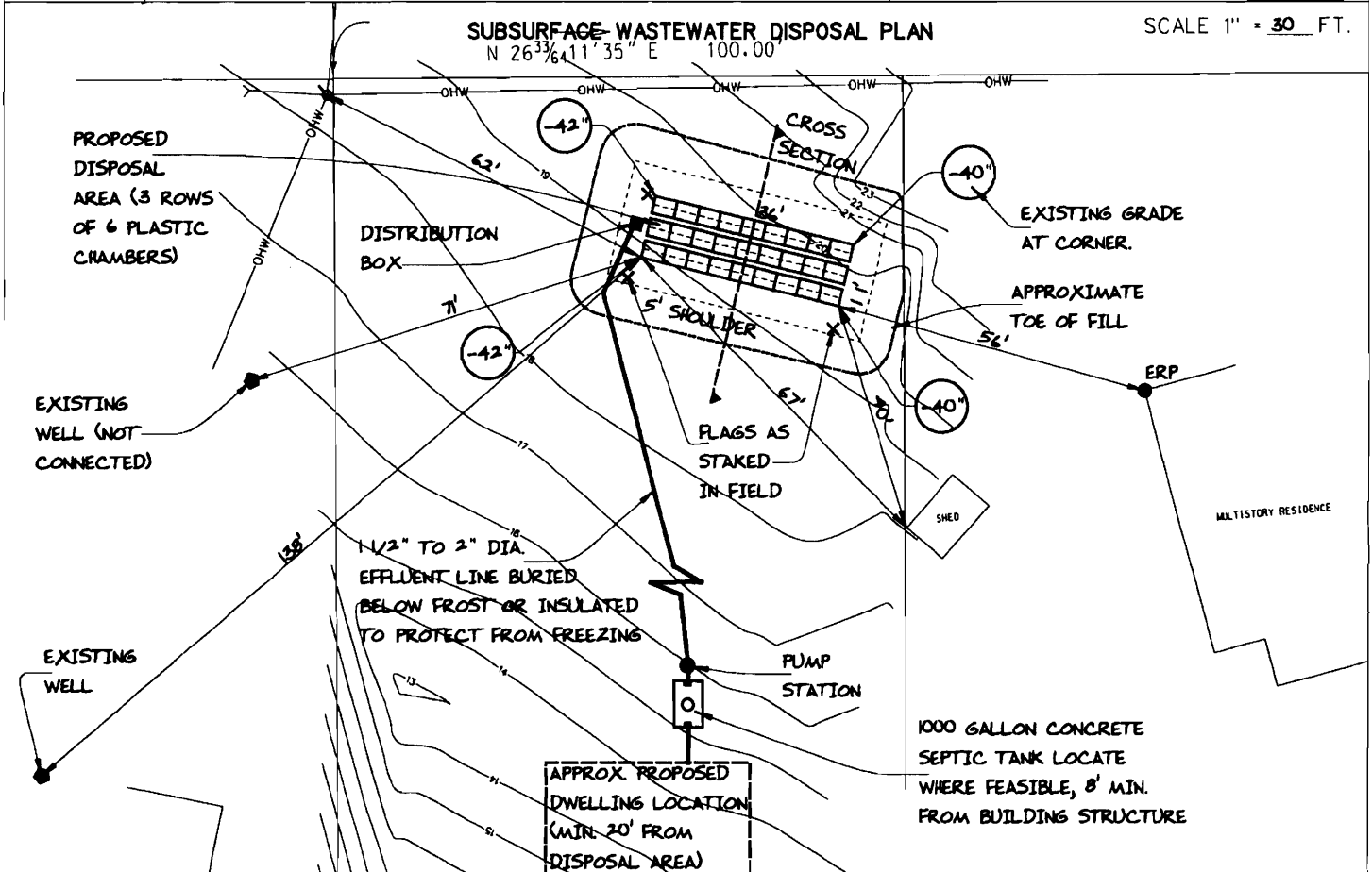
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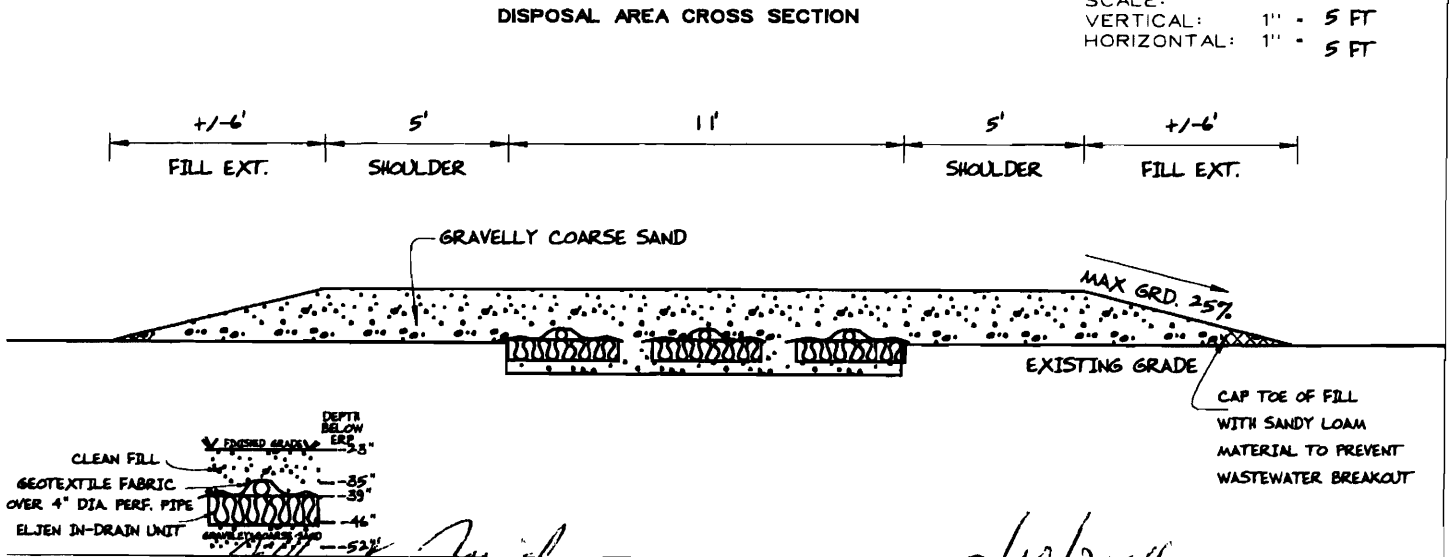
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FILL REQUIREMENTS Depth of Fill (Upslope) ± 16" - 18" Depth of Fill (Downslope) ± 16" - 18" DEPTHS AT CROSS-SECTION (shown below)	CONSTRUCTION ELEVATIONS Finished Grade Elevation Top of Distribution Pipe or Proprietary Device Bottom of Disposal Area	ELEVATION REFERENCE POINT SEE <u>DETAIL BELOW</u> Location & Description TOP OF CONCRETE FOOTING ON NEIGHBOR'S HOUSE Reference Elevation is: 0.0" or _____ SCALE: VERTICAL: 1" = 5 FT HORIZONTAL: 1" = 5 FT
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CLEAN FILL
 GEOTEXTILE FABRIC OVER 4" DIA. PERF. PIPE
 ELJEN IN-DRAIN UNIT
 DEPTH BELOW EXIST. GRD.
 -35"
 -39"
 -46"
 -52"

Albert Frick
 Site Evaluator Signature

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3/18/2004
 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

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.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND, PEAKS ISLAND

554 SEASHORE AVENUE

RICHARD SHAW

TOWN	LOCATION	APPLICANT'S NAME
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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



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