

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Moine 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**

Street or Road: **190 VAN VECHTEN**

Subdivision, Lot #:

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **QUINN JAMES & BETTY** Owner

Mailing Address of: **190 VAN VECHTEN PORTLAND, ME 04103**

Daytime Tel. #: **797-4088**

Caution: Permit Required - Attach in Space Below

09 6033

PORTLAND Date Permit Issued: **9/17/04**

Local Plumbing Inspector Signature: *[Signature]*

9099 \$ **11101010** # Double Fee Charged

TOWN COPY L.P.I.# **06410**

410 C 034

Municipal Tax Map * Lot *

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.

Signature of Owner/Applicant: _____ Date: _____

Caution: Inspections 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: _____ (1st) Date Approved: _____

_____ (2nd) Date Approved: _____

PERMIT INFORMATION

TYPE OF APPLICATION

- First Time System
- Replacement System
Type Replaced: **PLASTIC CHAMBERS**
Year Installed: **1990**
- Expanded System
 - Minor Expansion
 - Major Expansion
- Experimental System
- Seasonal Conversion

SIZE OF PROPERTY

12,000 sq. ft. acres

SHORELAND ZONING

Yes No

THIS APPLICATION REQUIRES

- No Rule Variance
- First Time System Variance
 - Local Plumbing Inspector Approval
 - State & Local Plumbing Inspector Approval
- Replacement System Variance
 - Local Plumbing Inspector Approval
 - State & Local Plumbing Inspector Approval
- Minimum Lot Size Variance
- Seasonal Conversion Approval

DISPOSAL SYSTEM TO SERVE

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

SPECIFY

Current Use Seasonal Year Round Undeveloped

DISPOSAL SYSTEM COMPONENTS

- Complete Non-Engineered System
- Primitive System (graywater & alt toilet)
- Alternative Toilet, specify: _____
- Non-Engineered Treatment Tank (only)
- Holding Tank, _____ Gallons
- Non-Engineered Disposal Field (only)
- Separated Laundry System
- Complete Engineered System (2000 gpd)
- Engineered Treatment Tank (only)
- Engineered Disposal Field (only)
- Pre-treatment, specify: _____
- Miscellaneous components

TYPE OF WATER SUPPLY

- Drilled Well
- Dug Well
- Private
- Public
- Other: _____

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- Concrete
 - Regular
 - Low Profile
- Plastic
- Other: _____

CAPACITY **1000** gallons

DISPOSAL FIELD TYPE & SIZE

- Stone Bed
- Stone Trench
- Proprietary Device
 - Cluster array
 - Linear
- Other: _____

SIZE **1500** sq. ft. lin. ft.

30 PLASTIC CHAMBERS

GARBAGE DISPOSAL UNIT

- No
- Yes >> Specify one below:
 - Multi-compartment tank
 - _____ tanks in series
 - Increase in tank capacity
 - Filter on tank outlet
- Maybe

DESIGN FLOW

360 gallons per day
BASED ON:

- Table 501.1 (dwelling unit(s))
- Table 501.2 (other facilities)

SHOW CALCULATIONS - for other facilities -

4 BEDROOMS AT 90 GALLONS PER DAY EACH = 360 GPD

Section 503.0 (meter readings)
ATTACH WATER-METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN
B / C / 1

AT Observation Hole • **TP A**
Depth **26** "

OF MOST LIMITING SOIL FACTOR

DISPOSAL FIELD SIZING

- Small - 2.0 sq.ft./gpd
- Medium - 2.6 sq.ft./gpd
- Medium-Large - 3.3 sq.ft./gpd
- Large - 4.1 sq.ft./gpd
- Extra-Large - 5.0 sq.ft./gpd

PUMPING

- Not required
- May be required
- Required >> Specify only for engineered or experimental systems:

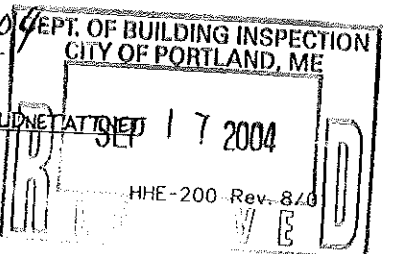
DOSE: _____ Gallons

SITE EVALUATOR STATEMENT

I certify that on **9/2/04** (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).

Site Evaluator Signature: *Albert Frick* SE • **163** Date: **9/13/2004**

Albert Frick
Site Evaluator Name Printed
ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563
Telephone Number
ALBERTFRICK@WORLDNET.ATTN.NET E-mail Address



Note: Changes to or deviations from the design should be confirmed with the Site Evaluator

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Town, City, Plantation
PORTLAND

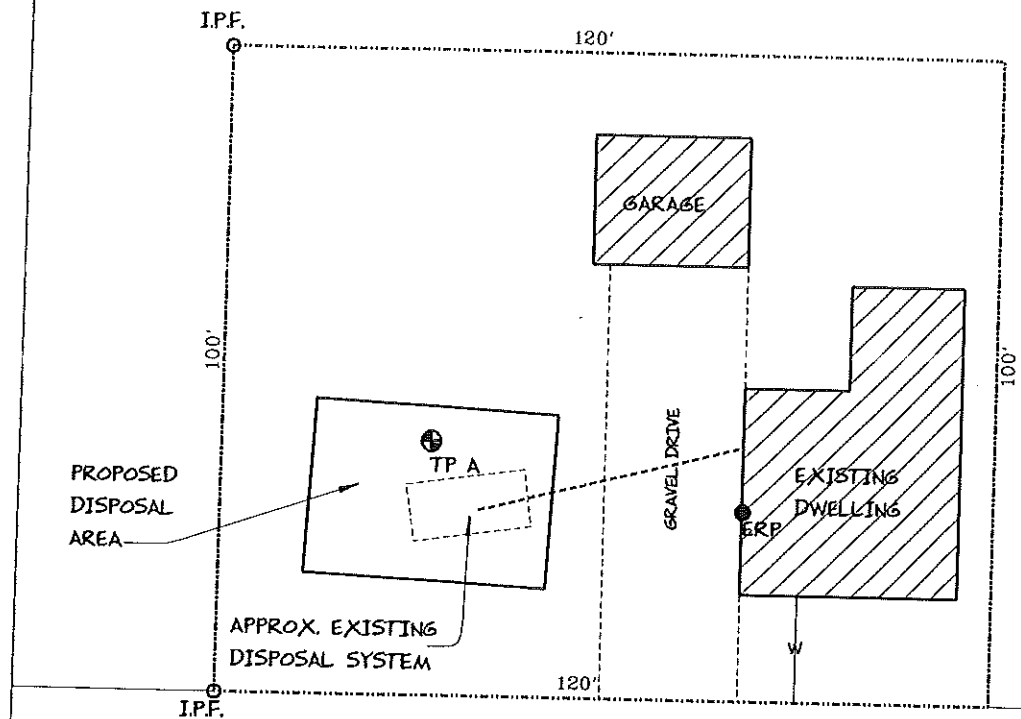
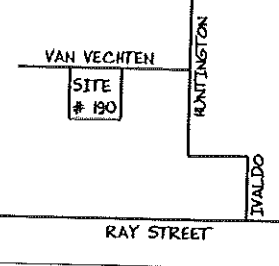
Street, Road Subdivision
190 VAN VECHTEN

Owner's Name
JAMES & BETTY QUINN

SITE PLAN

Scale 1" = 30 Ft.
 or as shown

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



VAN VECHTEN

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

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

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10	SANDY LOAM TO LOAMY SAND (FILL)	FRIABLE	VARIABLE DARK BROWN	
20	FINE SANDY LOAM		LIGHT OLIVE BROWN	
30	SILTY CLAY	FIRM	OLIVE BROWN	COMMON DISTINCT
40				
50				

Soil Classification: **FILL OVER**
 Profile: B Condition: C
 Slope: _____ %
 Limiting Factor: 26"
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

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

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

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

Albert Frick
 Site Evaluator Signature

163
 SE *

9/13/2004
 Date

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SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' FT.

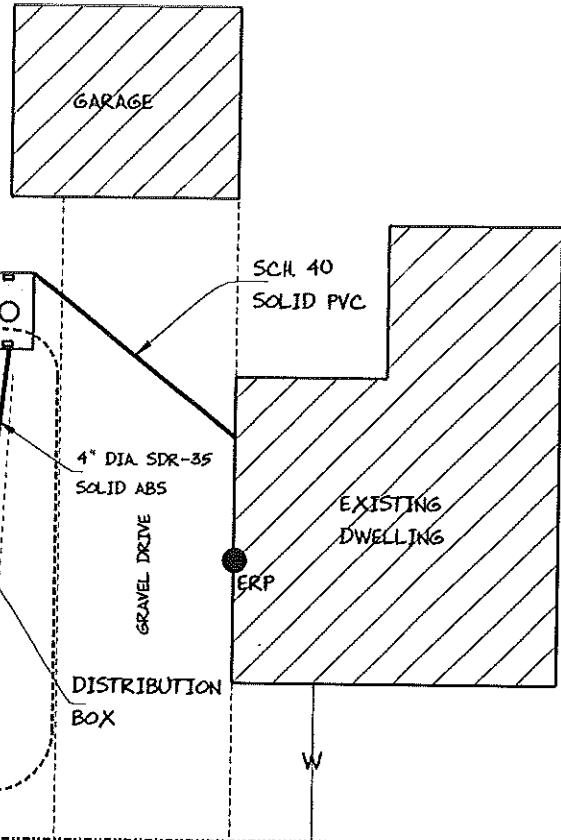
REMOVE ALL PORTIONS OF EXISTING DISPOSAL AREA TO A MINIMUM DEPTH OF 2' UNDERNEATH AND 5' ALONGSIDE DISPOSAL AREA AND REPLACE WITH CLEAN GRAVELLY COARSE SAND FILL
NOTE: THOROUGHLY ROTOTILL ENTIRE AREA UNDER DISPOSAL FIELD & FILL EXTENSIONS PRIOR TO FILL PLACEMENT, THEN TILL FIRST 6" LIFT OF FILL INTO EXISTING SOIL SURFACE TO PROMOTE MIXING

1000 GALLON CONCRETE SEPTIC TANK LOCATE WHERE FEASIBLE, 8' MIN. FROM BUILDING STRUCTURE SET TANK AT HIGH ENOUGH ELEVATION TO ASSURE GRAVITY FLOW OR INSTALL PUMP STATION

EXISTING GRADE AT CORNER.

PROPOSED DISPOSAL AREA (5 ROWS OF 6 PLASTIC CHAMBERS)

APPROXIMATE TOE OF FILL



FILL REQUIREMENTS

Depth of Fill (Upslope) : 14" - 20"
Depth of Fill (Downslope) : 20"
DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

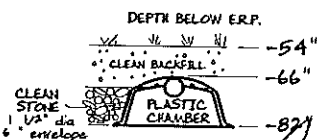
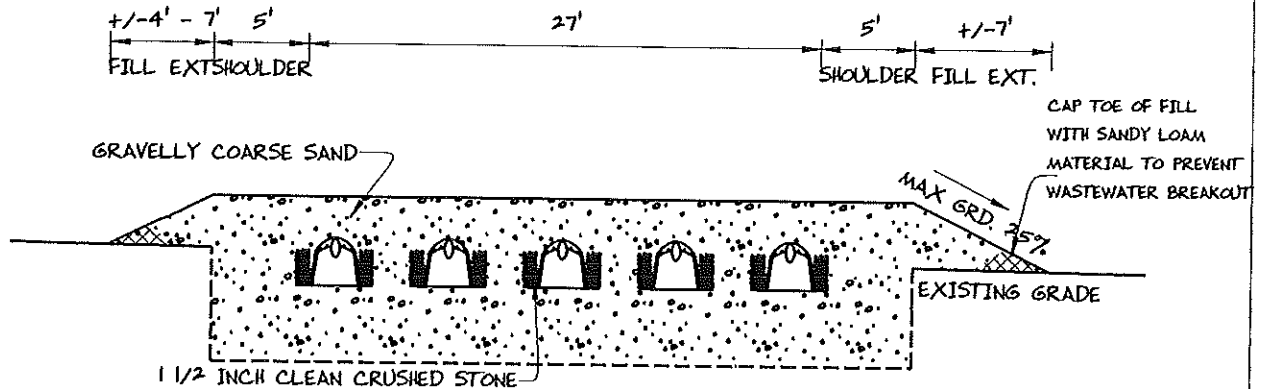
Finished Grade Elevation
Top of Proprietary Device
Bottom of Disposal Area

ELEVATION REFERENCE POINT

SEE DETAIL BELOW
Location & Description TOP OF SECOND BRICK DOORWAY, 73" ABOVE GRADE
Reference Elevation is: 0.0" or -----

DISPOSAL AREA CROSS SECTION

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



Albert Frick
Site Evaluator Signature

163
SE *

9/13/2009
Date

Page 3 of 3
HHE-200 Rev. 10/02



Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators

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

PORTLAND	190 VAN VECHTEN	JAMES & BETTY QUINN
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.

PORTLAND	190 VAN VECHTEN	JAMES & BETTY QUINN
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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.

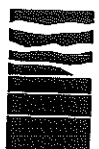
- 9) When a gravity system is proposed: BEFORE CONSTRUCTION/INSTALLATION BEGINS, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to 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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CITY OF PORTLAND, MAINE
Department of Building Inspections

2021 20 24

Received from Quinn K. J. Quinn

Location of Work 100 Van Vorsten

Cost of Construction \$ _____

Permit Fee \$ 110.00

Building (U) _____ Plumbing (15) _____ Electrical (12) _____ Site Plan (U2) _____

Other Sanitation

CBI: 4102234

Check # 0785 Total Collected \$ 110

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy
Quinn