

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		>> Caution: Permit Required - Attach In Space Below <<	
City, Town, or Plantation	PORTLAND	04603	
Street or Road	190 VAN VECHTEN		
Subdivision, Lot #			
OWNER/APPLICANT INFORMATION		POST AND PERMIT FEE: \$1110.00 TOWN COPY FEE: \$10.00 # Double Fee Charged: <input type="checkbox"/> L.P.I. # 0640	
Name (last, first, MI)	QUINN JAMES & BETTY	Date Permit Issued: 9/17/04 Local Plumbing Inspector Signature: <i>[Signature]</i>	
Mailing Address of <input type="checkbox"/> Owner <input type="checkbox"/> Applicant	190 VAN VECHTEN PORTLAND, ME 04103	410 C 034	
Daytime Tel. #	797-4088	Municipal Tax Map #	Lot #
Owner or Applicant Statement		Caution: Inspections Required	
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		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	

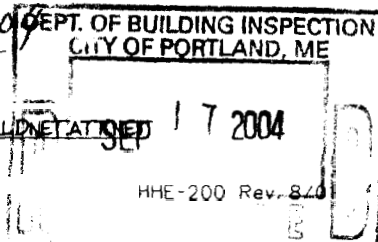
PERMIT INFORMATION		
TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENTS
1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: <u>PLASTIC CHAMBERS</u> Year Installed: <u>1990</u> 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	1. <input checked="" type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval h. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. Replacement System Variance a. <input 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 & alt 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
_____ sq. ft. <u>12,000</u> sq. ft. _____ acres	1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>4</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other: _____
SHORELAND ZONING		
<input type="checkbox"/> Yes <input checked="" 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 a. <input checked="" type="checkbox"/> Regular b. <input 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. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input type="checkbox"/> Linear b. <input checked="" type="checkbox"/> Regulo d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE: <u>1500</u> sq. ft. <input type="checkbox"/> lin. ft. 30 PLASTIC CHAMBERS	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"/> _____ tanks in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet	360 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 -
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	PUMPING	4 BEDROOMS AT 90 GALLONS PER DAY EACH = 360 GPD
PROFILE CONDITION: <u>FILL OVER</u> DESIGN: <u>B</u> / <u>C</u> / <u>I</u> AT Observation Hole • <u>TP A</u> Depth: <u>26</u> " 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 type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input checked="" 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 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 9/12/04 (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: *[Signature]* SE # 163 Date: 9/13/2004



ALBERT FRICK ASSOCIATES - 93A COUNTY ROAD ROAD GORHAM, MAINE 04038 (207) 839-5563 ALBERTFRICK@WORLDNET.AT.TI.NET 17 2004

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

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Town, City, Plantation
PORTLAND

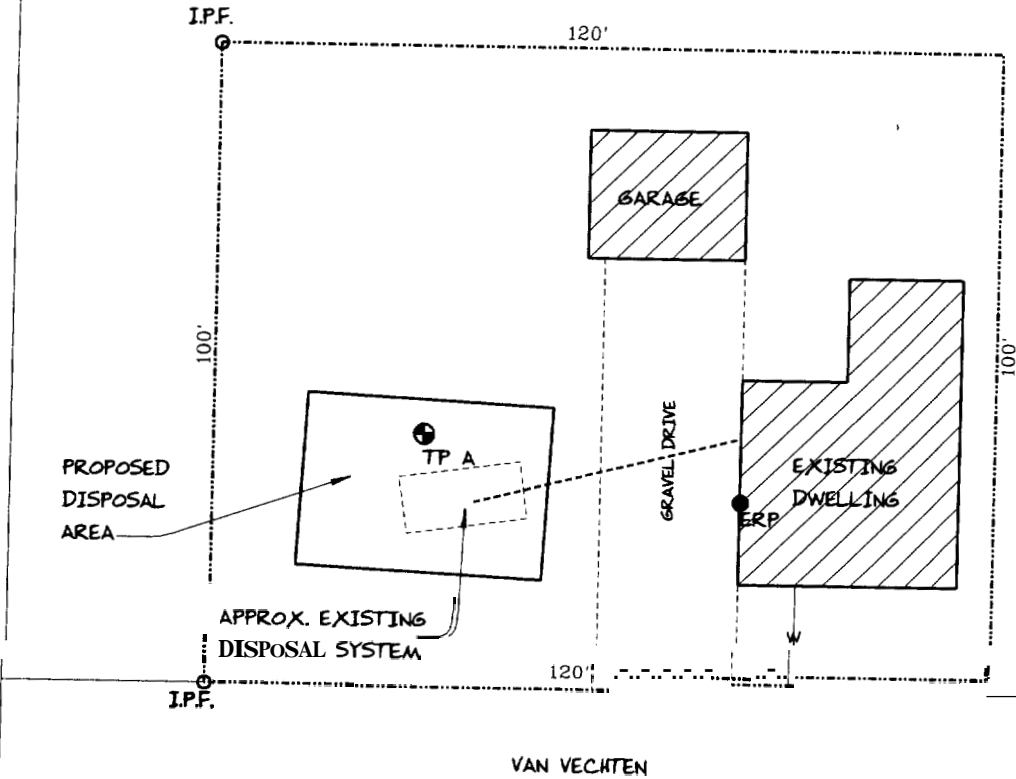
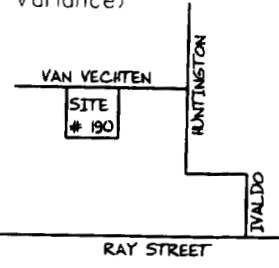
Street, Road Subdivision
190 VAN VECHTEN

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)



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

Site Evaluator Signature Albert Frick

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Date 9/13/2004

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Town, City, Plantation: **PORTLAND** Street, Road, Subdivision: **190 VAN VECHTEN** Owner's Name: **JAMES & BETTY QUINN**

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' FT.

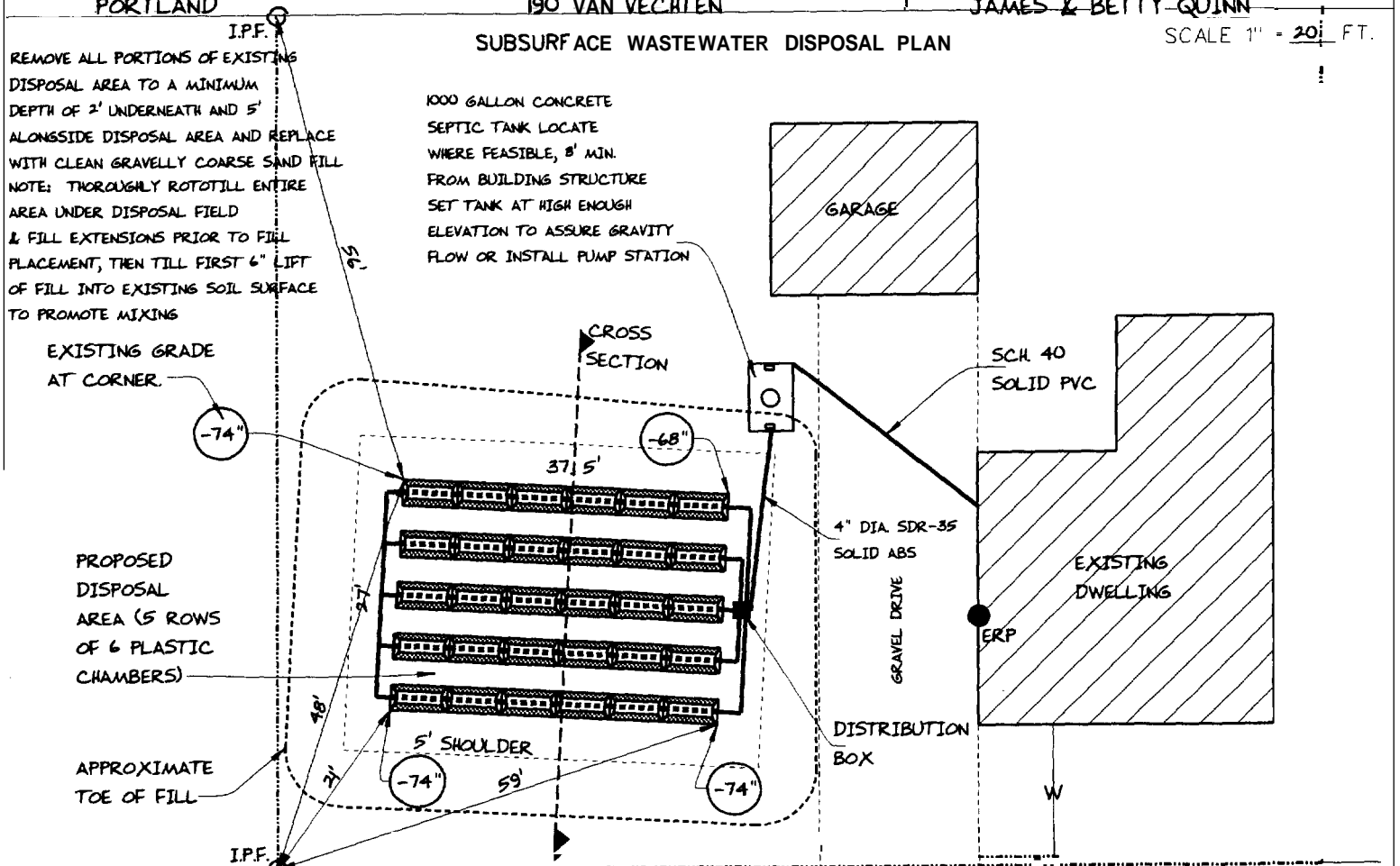
REMOVE ALL PORTIONS OF EXISTING DISPOSAL AREA TO A MINIMUM DEPTH OF 2' UNDERNEATH AND 5' ALONGSIDE DISPOSAL AREA AND REPLACE WITH CLEAN GRAVELLY COARSE SAND FILL
 NOTE: THOROUGHLY ROTOTILL ENTIRE AREA UNDER DISPOSAL FIELD & FILL EXTENSIONS PRIOR TO FILL PLACEMENT, THEN TILL FIRST 6" LIFT OF FILL INTO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

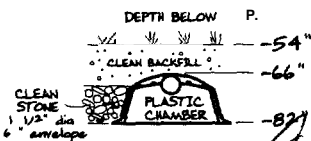
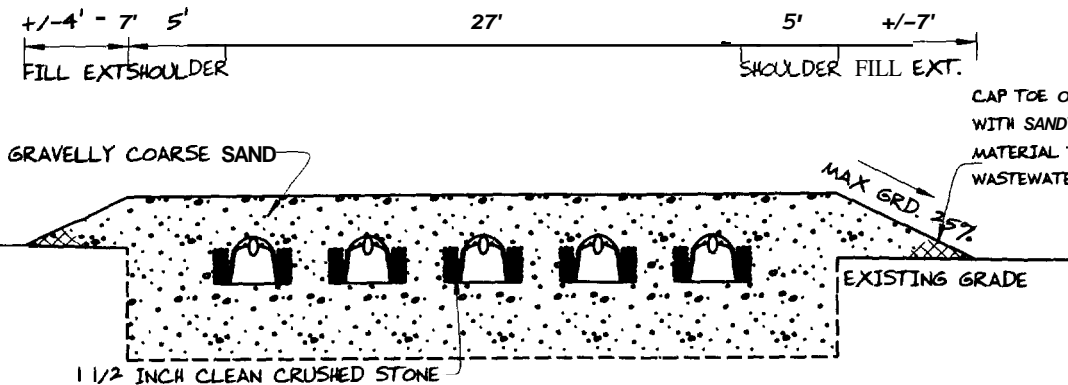
Finished Grade Elevation
 Top of [redacted] Proprietary Device
 Bottom of Disposal - reo

SEE
 DETAIL
 BELOW

ELEVATION REFERENCE POINT

Location & Description TOP OF SECOND BRICK DOORWAY, 73" ABOVE GRADE
 Reference Elevation is: 0.0" or " ---"
 SCALE:
 VERTICAL: 1" = 5 FT
 HORIZONTAL: 1" = 10 FT

DISPOSAL AREA CROSS SECTION



Albert Frick
 Site Evaluator Signature

163
 SE *

9/20/00
 Date

FILE-2000 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 TOWN	190 VAN VECHTEN LOCATION	JAMES & BETTY QUINN 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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