
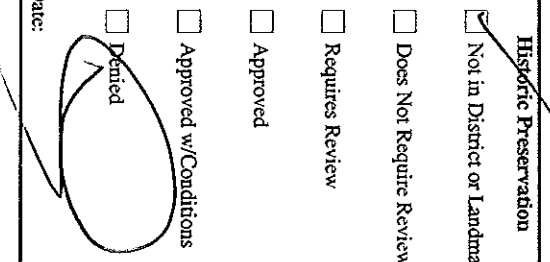


**City of Portland, Maine - Building or Use Permit Application**  
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	05-1104	Issue Date:	PERMIT ISSUED 319-A902001	CBT:	
------------	---------	-------------	---------------------------	------	--

Location of Construction:	101 McAllister Farm Rd	Owner Name:	Dirigo Drywall Associates	Owner Address:	101 McAllister Farm Rd	Phone:	
Business Name:		Contractor Name:	Portland Airconditioning, Inc.	Contractor Address:	205 Lincoln St. S. Portland	Phone:	2077674567
Lesser/Buyer's Name		Phone:		Permit Type:	HVAC		
Past Use:	commercial building	Proposed Use:	commercial building with direct vent gas heating system in attic	Permit Fee:	\$462.00	Cost of Work:	\$48,668.00
Proposed Project Description:				CEO District:	5	FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied TO NEPA 908 IBC 2003 Type: Heating	
install direct vent gas heating system in attic of commercial building				INSPECTION:	Use Group: U	Signature: <i>Paul Cass</i> Signature: <i>[Signature]</i> PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____	

Permit Taken By:	Date Applied For:	<b>Zoning Approval</b>					
jharris	08/08/2005	Special Zone or Reviews	Zoning Appeal	Historic Preservation			
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.		<input type="checkbox"/> Shoreland	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not in District or Landmark			
2. Building permits do not include plumbing, septic or electrical work.		<input type="checkbox"/> Wetland	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does Not Require Review			
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..		<input type="checkbox"/> Flood Zone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review			
		<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved			
		<input type="checkbox"/> Site Plan	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions			
		Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>8/15/05</i>	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied	Date: 		

**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT

ADDRESS

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

DATE

PHONE

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read Application And Notes, if Any, Attached

PERMIT

PERMIT ISSUED

Permit Number: 051104

AUG 19 2005

CITY OF PORTLAND

This is to certify that Dirigo Drywall Associates/P

and Air Inc.

has permission to install direct vent gas heating

319 A002001

provided that the person or persons, of the provisions of the Statutes of the construction, maintenance and u this department. of buildings and structures, and of the application on file in

Apply to Public Works for street line and grade if nature of work requires such information.

Notification and work in progress because this building or closed-in. R NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. Capt. Loren Cass

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_

Department Name

PENALTY FOR REMOVING THIS CARD

Director - Building & Inspection Services

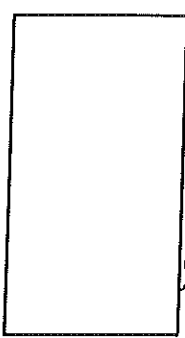
*[Signature]*  
8/17/05



FILL IN AND SIGN WITH INK

319 A 002

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL Lot # 6 McAllister Fern Road Use of Building Commercial Date 08/08/05  
Name and address of owner of appliance Ken Porter, Porter Drywall, 655 Riverside St  
Portland, ME

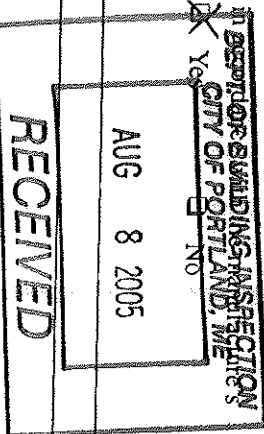
Installer's name and address Portland Fireconditioning Inc 205 Lincoln St.  
South Portland, ME 04106 Telephone 807 709 4501

Location of appliance:  
 Basement  Floor  
 Attic  Roof

Type of Fuel:  
 Gas  Oil  Solid

Appliance Name: Carrier 58DLA135  
U.L. Approved  Yes  No

Will appliance be installed in accordance with installation instructions?  Yes  No



The Type of License of Installer:  
 Master Plumber # \_\_\_\_\_  
 Solid Fuel # \_\_\_\_\_  
 Oil # \_\_\_\_\_  
 Gas # PJT 434  
 Other \_\_\_\_\_

Type of Chimney:  
 Masonry Lined  
Factory built \_\_\_\_\_  
 Metal  
Factory Built U.L. Listing # \_\_\_\_\_

Direct Vent  
Type \_\_\_\_\_ U.L.# \_\_\_\_\_

Type of Fuel Tank  
 Oil  
 Gas - natural - piped system

Size of Tank \_\_\_\_\_  
Number of Tanks \_\_\_\_\_  
Distance from Tank to Center of Flame \_\_\_\_\_ feet.  
Cost of Work: \$ 48,600  
Permit Fee: \$ 462.00

Approved

See attached letter or requirement  
Approved with Conditions

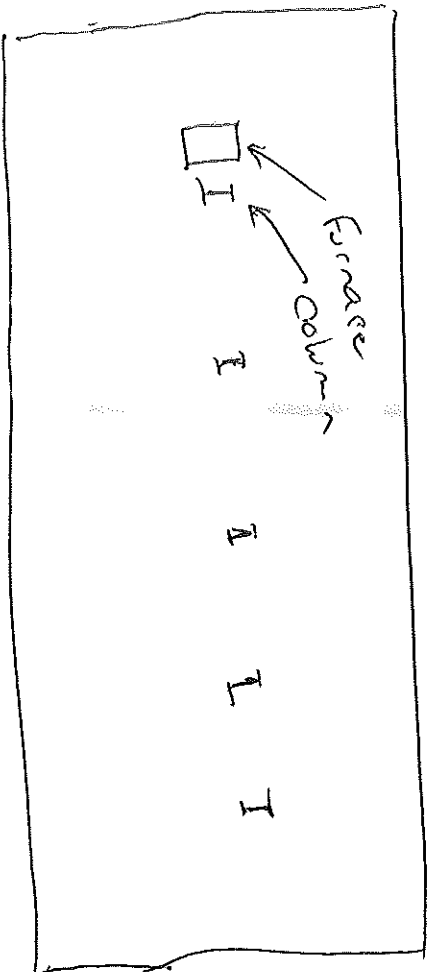
Fire: \_\_\_\_\_  
Ele.: \_\_\_\_\_  
Bldg.: \_\_\_\_\_

Inspector's Signature \_\_\_\_\_ Date Approved \_\_\_\_\_

Signature of Installer \_\_\_\_\_

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy 1/5056

Per the attached letter from  
Package Industries Inc. the  
units need to be hung 3'  
off of frames. There are  
five interior columns evenly spaced  
that the units will be hung by





Package Industries, Inc.

13 Harbuck Road Sui on, MA 01890  
 TEL:(908) 865-5871 FAX:(908) 865-9150 Email: sales@pkjmail.com

Letter of Certification (Page 1 of 2)

**Customer:**  
 Biskup Construction Inc.  
 16 Danielle Drive  
 Windham, ME 04062

**Project:**  
 Ken Porter  
 McAllister Farm Rd.  
 Portland, ME 04103

**Date:** 5/23/2005 Rev'd 7/7/2005  
**Project ID:** 0505-037

Overall Building Description							
Width (ft.)	Length (ft.)	Left Eave (ft.)	Right Eave (ft.)	Left Pitch (12)	Right Pitch (12)	Peak Height (ft.)	Ridge Offset (ft.)
60.0	165.0	14.0	14.0	3.0	3.0	21.5	30.0

This is to certify the above referenced building and its components have been designed in accordance with Package Industries, Inc.'s standard design practices and established pertinent procedures and recommendations of the following Organizations and/or Specifications:

American Institute of Steel Construction AISC 89  
 American Welding Society Structural Welding Code(AWS D1.1)  
 American Society for Testing and Materials (ASTM)

American Iron and Steel Institute NASPEC 01  
 Metal Building Manufacturers Association(MBMA)  
 AISC Category MB Manufacturers Certification

Building Code: IBC 03

Building Classification Category: Standard

Building End Use: Business

Design Data

Snow Loads	
Ground Snow (Pg) :	60.0 psf
Snow Exposure Factor (Ce) :	1.0
Snow Thermal Factor (Ct) :	1.0
Snow Importance Factor (Is) :	1.0
Flat Roof Snow (Rf) :	42.0 psf
Sloped Roof Factor (Cs) :	1.0
Sloped Roof Snow (Ps) :	42.0 psf
Design Roof Snow :	42.0 psf
% Snow Used in Seismic :	20
<b>Roof Dead, Collateral &amp; Live Loads</b>	
Dead Load :	3.0 psf
Collateral Load :	5.0 psf
Live Load :	20 psf
Live Load Reduction Taken :	No
<b>Wind Loads</b>	
Basic Wind Speed (3-second gust) :	94 mph
Wind Exposure :	B
Wind Directionality Factor (Kd) :	0.85
Wind Topographic Factor (Kzt) :	1.0
Building Enclosure :	c - closed
Importance (Iw) :	1.00
Reference Wind Pressure (Pv) :	22.6 psf
Internal Pressure Coeff (GCp) :	+/-0.18

Seismic Loads	
Seismic Hazard Group :	I
Seismic Importance (Ie) :	1.0
0.2 Sec Spectral Response (Ss) :	0.3179
1.0 Sec Spectral Response (S1) :	0.0775
Design Spectral Response (Sds) :	0.33
Design Spectral Response (Sd1) :	0.12
Seismic Design Category :	C
Soil Profile :	D
Response Modification (OMF)R :	3.0
Response Modification (OCBF)R :	5.0
Seismic Response Coefficient (OMF)Cs :	0.1092
Seismic Response Coefficient (OCBF)Cs :	0.0655
Deflection Amplification (OMF)Cd :	3.0
Deflection Amplification (OCBF)Cd :	4.5
Design Base Shear (V) = Cs * W :	
Analysis Procedure :	1617.4
Auxiliary Load(s)	
⑤ 200 lb. suspended heater units (located max. 3' off frames)	



**Package Industries, Inc.**

15 Herbeck Road, Simon, MA 01550  
TEL: (508) 865-5871 FAX: (508) 865-9130 Email: sales@pkignatl.com

**Letter of Certification (Page 2 of 2)**

**Customer:**  
Biskup Construction Inc.  
16 Danielle Drive  
Widham, ME 04062

**Project:**  
Ken Porter  
McAllister Farm Rd  
Portland, ME 04103

**Date:** 5/25/2005 Rev'd 7/7/2005  
**Project ID:** 0505-037

Additional Structural Material may be fabricated and provided for use in a Package Industries, Inc. building by any of the following fabricators:

**Panels and Trims:**

MB/C/N/C/I Building Components  
MB/C/N/C/I Building Components  
MB/C/N/C/I Building Components

Rome, NY  
Richmond, VA  
Atlanta, GA

**Bayjoist and Decking:**

Canam Steel Corp.  
Canam Steel Corp.  
John W. Hancock, Jr., Inc.  
Vulcraft Div., Nucor Corp.  
SMI Joist Company

Point of Rocks, MD  
Columbus, OH  
Salem, VA  
St. Joe, IN  
Hope, Arkansas

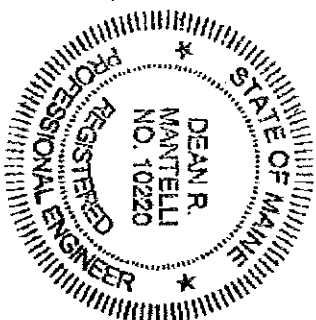
This Letter of Certification applies solely to the building and its component parts as furnished by Package Industries, Inc., and specifically excludes any foundation, masonry, general contract work, materials or components not furnished by Package Industries, Inc., or any unauthorized modifications to framing systems furnished by Package Industries, Inc.,. Inspections and/or erection certifications are not by Package Industries, Inc.,.

The Design and Certification for this project is in accord with the provisions and loads specified in the Order Documentation. The buyer is responsible for verifying that the specified loads above are in compliance with the local regulatory authorities.

Sincerely,

*Dean R. Mantelli*

P.E.





**Albert Frick Associates, Inc.**

**Soil Scientists & Site Evaluators**

95A County Road Gorham, Maine 04038  
(207) 839-5563 FAX (207) 839-5564

Albert Frick SS, SE  
James Logan SS, SE  
Matthew Logan SE  
Brady Frick, SE

January 6, 2005

Jennifer Sanborn  
DHE  
10 State House Station  
Augusta, ME 04333

Re: Rio Tierra LLC, McAlister Farm Drive/Lot 6, Portland

Dear Jennifer Sanborn:

Attached is a Holding Tank Application for *Rio Tierra LLC, McAlister Farm Drive, Portland Mohr & Seredin* is currently negotiating, in behalf of the client, with the City of Portland and Westbrook for connection to the public sewer.

It is my understanding that the agreement is in the process of being completed. However, it is expected that the process could take several months or more to finalize. The applicant would like to proceed with the local review process for the building site, and needs to secure a permit-able means of waste disposal. Hence, the applicant is requesting permission for a holding tank to serve a commercial building of 33 employees. The State of Maine Subsurface Wastewater Disposal Rules project a conventional flow of 15 gallons/day per employee.

The client will install low volume fixtures, which will reduce flow. Also, all employees are not in the office/warehouse the entire workday. The State of Maine Subsurface Wastewater Disposal Rules, Section 2005.12, requires DHE approval, based on the projected flow value.

The site is in Portland, in close proximity to a municipal wastewater treatment facility, and the applicant is willing to enter into a contract to be pumped one or more times a week. This is intended to be a temporary measure to allow the review process to go forward, and the client would agree to abandon the holding tank when the public sewer connection is established.

Please contact me if you have any questions or additional matters for discussion.

Respectfully,

Albert Frick  
AF/nd

3/9 P 10

cc. Stephen Mohr, Mohr & Seredin  
Mike Nugent, Portland LPI





**SITE EVALUATION STATEMENT**

I, Albert Puck, state that I have evaluated the subject property and found that a subsurface wastewater disposal system is not practical. Secondly, I have completed a *Subsurface Wastewater Disposal System Application* (HHE-200) proposing a holding tank installation for the property's wastewater disposal.

Site Evaluator's Signature Albert Puck Date 1/05/2005

**HOLDING TANK PUMPER INFORMATION**

Business owner's name \_\_\_\_\_ License # \_\_\_\_\_  
Business name \_\_\_\_\_  
Mailing address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Business telephone \_\_\_\_\_  
Max. truck hauling capacity \_\_\_\_\_ gallons  
Can pump: \_\_\_\_\_ seasonally \_\_\_\_\_ year round  
DEP licensed disposal site location \_\_\_\_\_ Site # \_\_\_\_\_

**HOLDING TANK PUMPER STATEMENT**

I, \_\_\_\_\_, own and operate a septage pumping business named in this *Application/Agreement*, and have contracted with the property owner(s) to pump and properly dispose of the tank's waste. I further state that the tank, and that the wastewater will be disposed of at a Department of Environmental Protection licensed disposal location.

Holding Tank Pumper's Signature \_\_\_\_\_ Date \_\_\_\_\_

**Municipal Officers Statement**

I (we) have reviewed the information submitted in support of this application.  
I (we) find that the installation of the holding tank will not violate any local ordinances.  
I (we) will authorize the LPI to enforce the requirements of this agreement, the Subsurface Wastewater Disposal Rules and any local ordinances, including recordkeeping and required pumping.  
I (we) recommend that the LPI issue the necessary permits for the installation of the holding tank.

Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

**Local Plumbing Inspector's Statement**

I have reviewed this application and find that the issuance of a permit for the holding tank complies with the Subsurface Wastewater Disposal Rules and all pertinent local ordinances.  
Additional Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, Station 10 SHS  
(207) 287-5612 FAX (207) 287-4172

>> Caution: Permit Required - Attach in Space Below <<

<b>PROPERTY LOCATION</b> City, Town, or Plantation: <b>PORTLAND</b> Street or Road: <b>MCALISTER FARM DRIVE</b> Subdivision, Lot #: <b>LOT 6</b>		The Subsurface Wastewater Disposal System <b>shall not</b> be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.	
<b>OWNER/APPLICANT INFORMATION</b> Name (last, first MI): <b>RIO TERRA LLC</b> Mailing Address: <b>C/O MOHR &amp; SEREDIN</b> <b>16 PLEASANT STREET</b> <b>PORTLAND, ME 04101</b> Daytime Tel.: <b>871-0003</b>		Owner: _____ Municipal Tax Map #: _____ Lot #: _____	
<b>Owner or Applicant Statement</b> 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.		<b>Caution: Inspections Required</b> 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: <i>[Signature]</i> Date: <b>1-18-05</b>		Local Plumbing Inspector Signature: _____ Date Approved: _____ (2nd) Date Approved: _____	

<b>TYPE OF APPLICATION</b> 1. <input checked="" type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: _____ Year installed: _____ 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	<b>THIS APPLICATION REQUIRES SEE ATTACHED LETTER STATE REVIEW REQUEST PER SECTION 2005-1-2</b> 1. <input checked="" 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. <input type="checkbox"/> 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	<b>DISPOSAL SYSTEM COMPONENTS</b> 1. <input type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & oil toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input checked="" type="checkbox"/> Holding Tank <b>2000</b> 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
<b>SIZE OF PROPERTY</b> +/- <b>10</b> <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> acres <b>SHORELAND ZONING</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>DISPOSAL SYSTEM TO SERVE</b> 1. <input type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: _____ 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input checked="" type="checkbox"/> Other: <b>COMMERCIAL BUILDING</b> Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped SPECIFY _____	<b>TYPE OF WATER SUPPLY</b> 1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input type="checkbox"/> Public 5. <input type="checkbox"/> Other: _____

<b>TREATMENT TANK</b> 1. <input checked="" type="checkbox"/> Concrete a. <input type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY: <b>2000</b> gallons	<b>DISPOSAL FIELD TYPE &amp; SIZE</b> 1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input type="checkbox"/> Linear b. <input type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE: <b>N/A</b> <input type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	<b>GARBAGE DISPOSAL UNIT</b> 1. <input 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	<b>DESIGN FLOW</b> <b>495</b> gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling units) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS - for other facilities -
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE CONDITION <b>DESIGN</b> N/A	<b>DISPOSAL FIELD SIZING</b> 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 type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	<b>PUMPING OF HOLDING TANK</b> 1. <input type="checkbox"/> Not required 2. <input type="checkbox"/> May be required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: _____ Gallons	<b>33 EMPLOYEES @ 15 GALLONS PER DAY EACH</b>

Certify that on **1/14/05** (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 Name: *[Signature]*  
 Site Evaluator Signature: *[Signature]*  
 Date: **1/25/2005**

ALBERT FRICK  
 Site Evaluator Name Printed  
 Telephone Number: **(207) 839-5263**  
 E-mail Address: **ALBERTFRICK@WORLDNET.ATTN.T**

ALBERT FRICK ASSOCIATES - 954 COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5583  
 Note: Changes to or deviations from the design should be confirmed with the Site Evaluator

HHE-200 Rev. 8/01

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation  
**PORTLAND**

Street, Road Subdivision  
**MCALISTER FARM DRIVE, LOT 6**

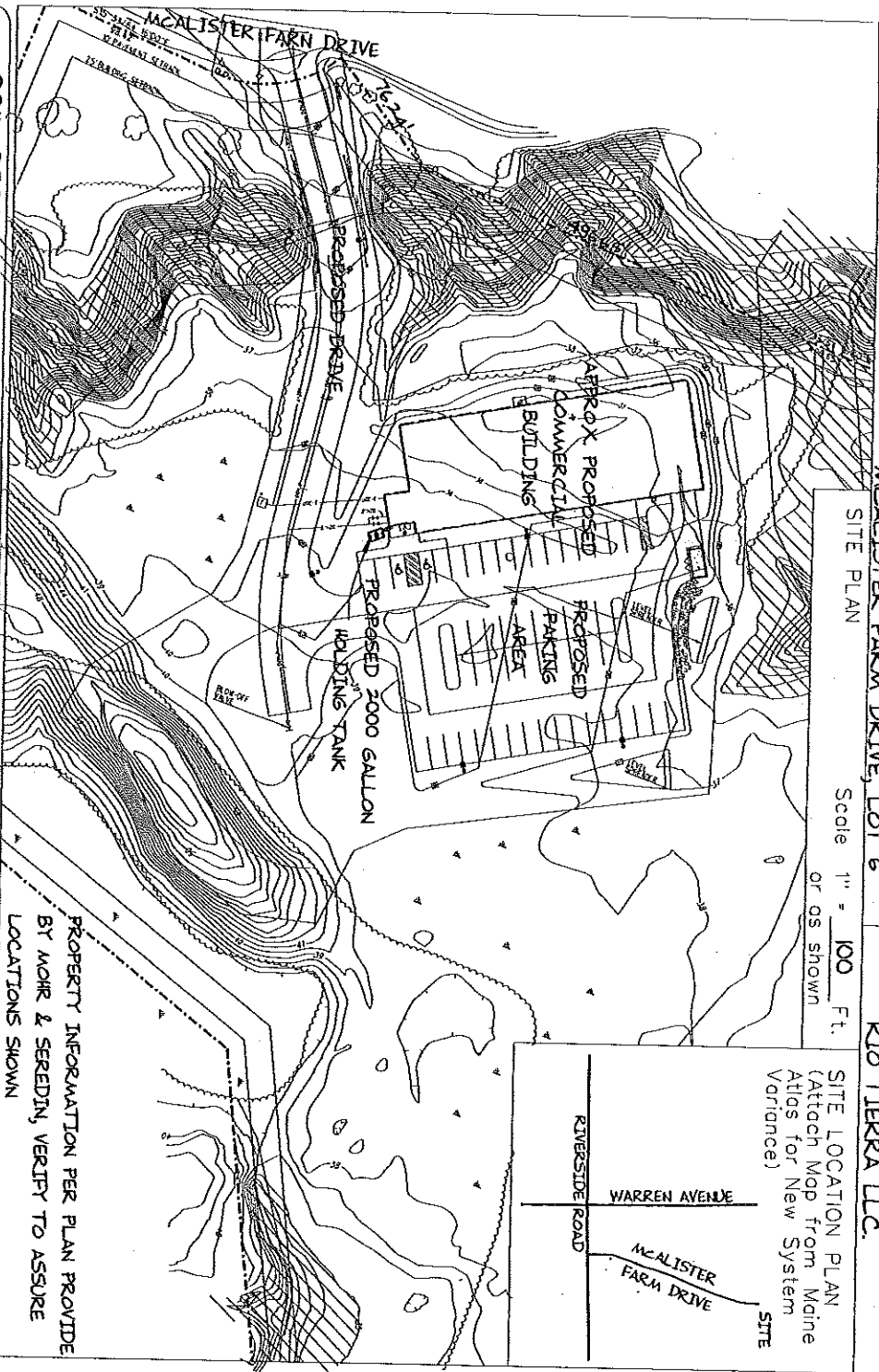
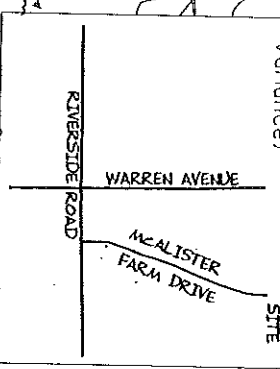
Owner's Name  
**RIO TIERRA LLC.**

Maine Department of Human Services  
Division of Health Engineering, Station 10-SHS  
(207) 287-5672 FAX (207) 287-4172

**SITE PLAN**

Scale 1" = 100 Ft.  
or as shown

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



PROPERTY INFORMATION PER PLAN PROVIDED BY MOHR & SEREDIN, VERIFY TO ASSURE LOCATIONS SHOWN

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

Observation Hole	N/A	<input type="checkbox"/> Test Pit	<input type="checkbox"/> Boring
Depth of Organic Horizon Above Mineral Soil			
Texture	Consistency	Color	Mottling
Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water Restrictive Layer
Profile	Condition	%	<input type="checkbox"/> Bedrock Pit Depth

DEPTH BELOW MINERAL SOIL SURFACE (inches)

0 10 20 30 40 50

Observation Hole	N/A	<input type="checkbox"/> Test Pit	<input type="checkbox"/> Boring
Depth of Organic Horizon Above Mineral Soil			
Texture	Consistency	Color	Mottling
Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water Restrictive Layer
Profile	Condition	%	<input type="checkbox"/> Bedrock Pit Depth

DEPTH BELOW MINERAL SOIL SURFACE (inches)

0 10 20 30 40 50

Site Evaluator Signature

163

1/25/2005

SE

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation

Street, Road, Subdivision

Meine Department of Human Services  
 Division of Engineering, Station 10-SWS  
 (207) 287-5672 FAX (207) 287-4772

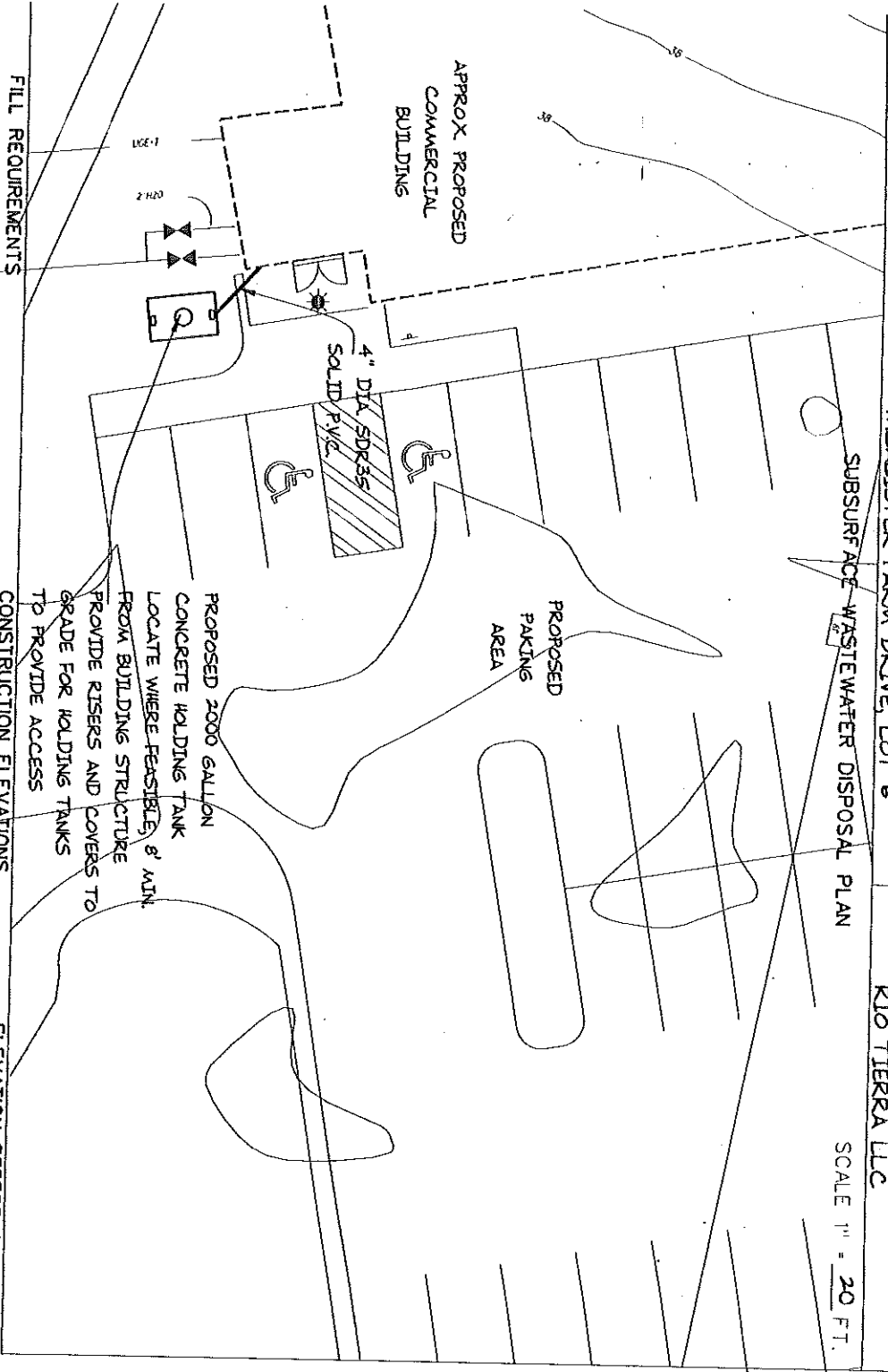
PORTLAND

McALISTER FARM DRIVE, LOT 6

RIO TERRA LLC

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



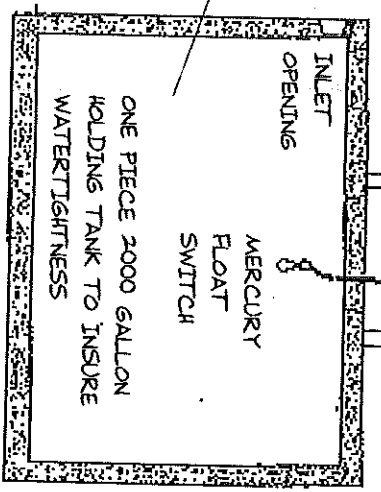
**FILL REQUIREMENTS**  
 Depth of Fill (Upslope) : N/A  
 Depth of Fill (Downslope) : N/A  
 DEPTHS AT CROSS-SECTION (shown below)

**CONSTRUCTION ELEVATIONS**  
 Finished Grade Elevation :  
 Top of Distribution Pipe or Proprietary Device :  
 Bottom of Disposal Area :

**ELEVATION REFERENCE POINT**  
 SEE DETAIL BELOW  
 Location & Description N/A  
 Reference Elevation is: 0.0' or -----

**SCALE:**  
 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = N/A

SUPERIOR CONCRETE ITEM #4452  
 OR EQUIVALENT



Site Evaluator Signature

*Albert Frick*

163 SE \*

1/25/2005 Date



**Albert Frick Associates, Inc.**  
**Soil Scientists & Site Evaluators**

95A County Road Gorham, Maine 04038  
(207) 839-5565

PORTLAND  
TOWN

WEALISTER FARM DRIVE, LOT 6  
LOCATION

RIO TERRA LLC  
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 or 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 or Code Enforcement Officer 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. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.

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 shall 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 units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.

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. All septic tank, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND

MCALISTER FARMS DRIVE, LOT 6

RIO TERRA LLC

TOWN

LOCATION

APPLICANT'S NAME

- 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, by sealing/grouting all seams and connections, and by placement of a riser and lid at or above grade. 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 before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential setting). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off proprietary devices. Divert the surface water away from the disposal area by ditching or shallow landscape 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. Alternatively, bark or permanent landscape mulch may be used to cover system. Woody trees or shrubs are not permitted on the disposal area or fill extensions.



**Albert Prick Associates, Inc.**  
**Soil Scientists & Site Evaluators**

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