

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 04-0644	Issue Date: MAY 27 2004	City: 11 A016002
-----------------------	----------------------------	---------------------

<b>Location of Construction:</b> 449 Forest Ave	<b>Owner Name:</b> Forest Avenue Plaza Llc	<b>Owner Address:</b> 715 Boylston St	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Portland Airconditioning, Inc.	<b>Contractor Address:</b> 205 Lincoln St. S. Portland	<b>Phone:</b> 2077674567
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	<b>Zone:</b> B2b

<b>Past Use:</b> Commercial	<b>Proposed Use:</b> Commercial/ Install Carrier electric Airconditioner unit to the roof of building	<b>Permit Fee:</b> \$183.00	<b>Cost of Work:</b> \$17,400.00	<b>CEO District:</b> 3
<b>Proposed Project Description:</b> Install Carrier electric Airconditioner unit to the roof of building		<b>FIRE DEPT:</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	<b>INSPECTION:</b> Use Group: N/A Type: 5/26/04 Signature: [Signature]	
		<b>PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)</b> Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		

<b>Permit Taken By:</b> Idobson	<b>Date Applied For:</b> 05/21/2004	<b>Zoning Approval</b>		
------------------------------------	----------------------------------------	------------------------	--	--

<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>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..</li> </ol>	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 5/24/04	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<b>Historic Preservation</b> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <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



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

PERMIT ISSUED  
MAY 27 2004  
CITY OF PORTLAND

111 A016002

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 449 ~~449~~ Forest Ave Portland Use of Building Commercial Date 05/01/04  
 Name and address of owner of appliance Boston Cold Co 215 Baylston St  
Boston MA 02116 617-266-4070  
 Installer's name and address Portland Airconditioning Inc  
205 Lincoln St Portland, ME Telephone 207 767 4561

**Location of appliance:**  
 Basement       Floor  
 Attic             Roof

**Type of Fuel:** A/C only electric  
 Gas       Oil       Solid

**Appliance Name:** Carrice  
 U.L. Approved    Yes  No

Will appliance be installed in accordance with the manufacture's installation instructions?  Yes     No

IF NO Explain: \_\_\_\_\_

**Type of Chimney:** N/A  
 Masonry Lined  
 Factory built \_\_\_\_\_  
 Metal  
 Factory Built U.L. Listing # \_\_\_\_\_  
 Direct Vent  
 Type \_\_\_\_\_ UL# \_\_\_\_\_

**Type of Fuel Tank:** elect  
 Oil  
 Gas

**Size of Tank** \_\_\_\_\_

**Number of Tanks** \_\_\_\_\_

**Distance from Tank to Center of Flame** \_\_\_\_\_ feet.

**Cost of Work:** \$ 17,400<sup>00</sup>  
**Permit Fee:** \$ 183.00

DEPT. OF BUILDING INSPECTION  
CITY OF PORTLAND, ME  
MAY 20 2004

**The Type of License of Installer:**  
 Master Plumber # \_\_\_\_\_  
 Solid Fuel # \_\_\_\_\_  
 Oil # \_\_\_\_\_  
 Gas # PN7 454  
 Other \_\_\_\_\_

**Approved**  
 Fire: \_\_\_\_\_  
 Ele.: \_\_\_\_\_  
 Bldg.: \_\_\_\_\_

**Approved with Conditions**  
 See attached letter or requirement  
 Inspector's Signature \_\_\_\_\_ Date Approved \_\_\_\_\_

**Signature of Installer** John A. [Signature] Portland Airconditioning Inc.



**allied engineering, inc.**

Structural

Mechanical

Electrical

Technology

May 6, 2004

Kathryn Mooney  
Portland Air Conditioning  
205 Lincoln St  
S. Portland, ME 34106

**RE: ROOFTOP RTU INSTALLATION AT 449 FOREST AVENUE, PORTLAND, ME**

Dear Kathy:

We have reviewed the framing relative to the additional weight proposed with the installation of the rooftop mechanical unit at 449 Forest Avenue. Our site visit revealed the following

- Existing roof framing consists of a steel beam column system supporting 14 inch steel bar joists positioned at approximately 5'-0" on-center. These joists span approximately 20 feet
- There are two existing rooftop units supported on 4x wood skids installed directly on top of the existing membrane roofing surface. The existing units each have an approximate operating weight of 500 pounds. The proposed units weigh approximately 1200 pounds, a difference of 700 pounds per unit total
- The condition of the roofing in this area is fair.

We reviewed the existing framing assuming a 1970's building vintage. Based on the field measurements and on requirements of the 1999 BOCA Building Code, we believe the bar joists are 14H3 joists. Using information obtained from the 50-year Steel Joist Digest for bar joists developed between 1928 and 1978, we determined that the joists are capable of supporting the additional unit weights, provided the following is performed:

1. New 4x6 pressure treated skids are to be used in lieu of the existing members with the 6" dimension laid flat against a membrane pad for the full length of the skid. The membrane pad should be installed by a certified roofing material installer.
2. The skids should be installed continuous over 4 joist/beam bays. Beneath the current location of the mechanical units, a steel tie beam is provided between steel columns. This beam should represent the center of the skid spans, with the units installed on either side of this tie beam.
3. The centerline of the skids should align with the bar joists top chord panel point. A panel point is the location where the web intersects the top chord and provides a view as an inverted "V".

Note: If the location of the skids cannot be aligned with the web-to-top chord panel point, allied engineering, inc shall be notified immediately. At such time a reinforcement detail for the joist will be provided.

Should you have additional questions or concerns, please feel free to contact me.

Best regards,  
allied engineering, inc.

William P. Faucher, P.E.  
Principal



M:\PROJECTS\2003\49 Danforth - Portland Air Mooney - reinforcement letter - 49 Danforth.doc

Steel  
girders

Existing condensing units  
in this location  
to be removed

200'

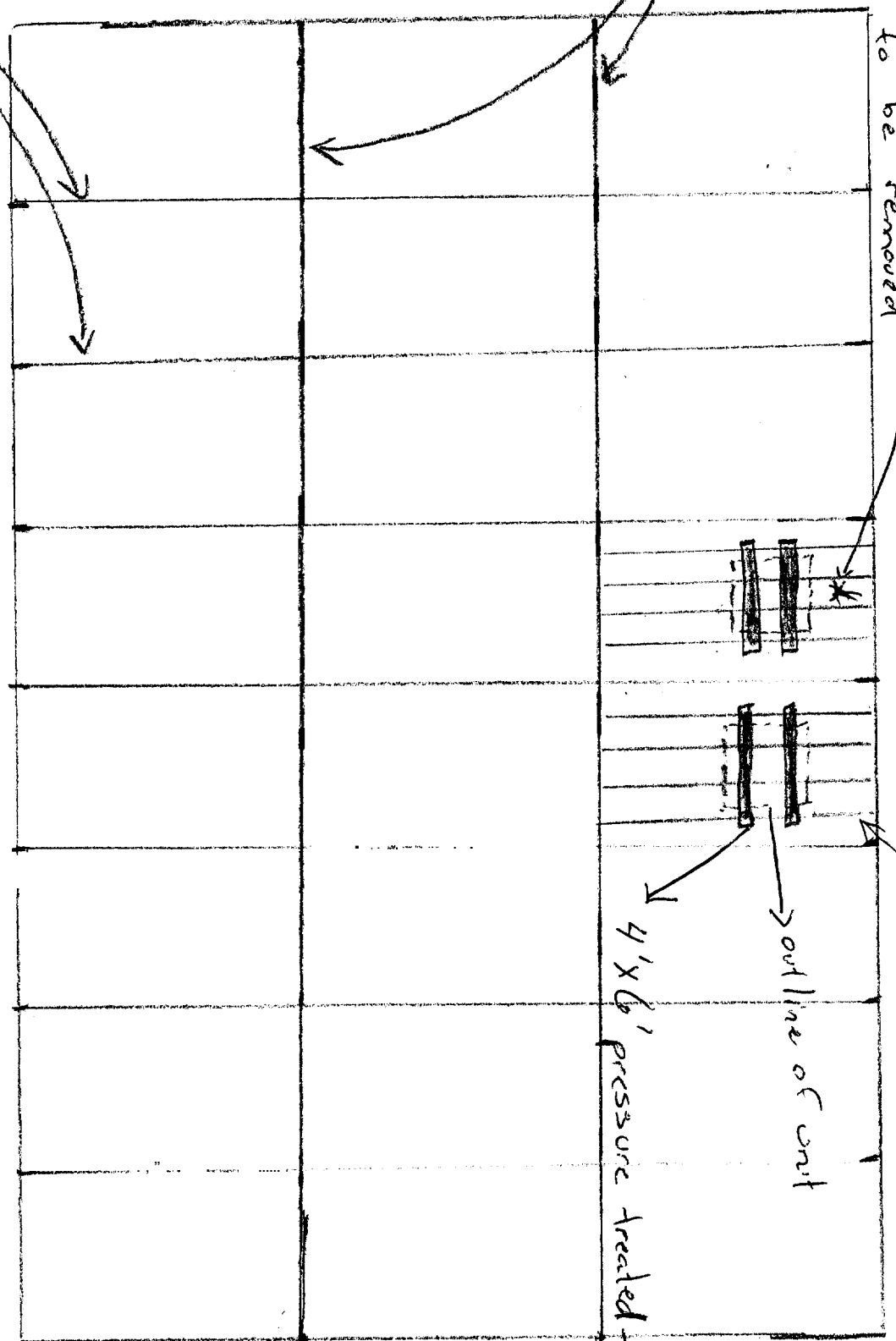
30' 500'

outline of unit

4' x 6' pressure treated - 16' long

80'

eye beam  
every 20'



449 Forest Ave

