

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

BUILDING DEPARTMENT

PERMIT

PERMIT ISSUED

Permit Number: 041840

JAN - 6 2005

CITY OF PORTLAND

This is to certify that 164 Realty Llc/Johnson & Johnson
has permission to relocate and replace kitchen in commercial space
AT 160 Middle St 029 0002001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

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

Notification of inspection must be given and when permission is procured before this building or part thereof is altered or closed-in. **HEAVY 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. [Signature]
Health Dept. _____
Appeal Board _____
Other _____
Department Name _____

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 04-1840	Issue Date: JAN - 6 2005	ECBL: 029 0002001
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Location of Construction: 160 Middle St	Owner Name: 164 Realty Llc	Owner Address: Po Box 800	Phone: 846-4800
Business Name:	Contractor Name: Johnson & Jordan	Contractor Address: 18 Mussey Road Scarborough	Phone: 207-8838345
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: B3

Past Use: commercial space	Proposed Use: commercial space w/relocated and replaced kitchen fan	Permit Fee: \$111.00	Cost of Work: \$10,000.00	CEO District: 1
Proposed Project Description: relocate and replace kitchen fan in commercial space		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: N/A Type: A 12/29/04	
<i>legal use: sandwich shop/deli #04-084A</i>		Signature: <i>[Signature]</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: jharris	Date Applied For: 12/15/2004	Zoning Approval	
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Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland	<input type="checkbox"/> Variance	<input type="checkbox"/> Not in District or Landmark
<input type="checkbox"/> Wetland	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does Not Require Review
<input type="checkbox"/> FloodZone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input checked="" 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"/>	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied <i>to D.A.</i>
<i>OK [Signature]</i> Date: 12/21/04	Date: _____	Date: _____ <i>[Signature]</i> 12/28/04

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	

City of Portland, Maine - Building or Use Permit

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

Permit No: 04-1840	Date Applied For: 12/15/2004	CBL: 029 0002001
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Location of Construction: 160 Middle St	Owner Name: 164 Realty Llc	Owner Address: Po Box 800	Phone: () 846-4800
Business Name:	Contractor Name: Johnson & Jordan	Contractor Address: 18 Mussev Road Scarborough	Phone (207) 883-8345
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	

commercial space w/relocated and replaced kitchen fan	relocate and replace kitchen fan in commercial space
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Dept: Historical	Status: Approved	Reviewer: Deborah Andrews	Approval Date: 12/28/2004
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 12/21/2004
Note:			Ok to Issue: <input type="checkbox"/>
Dept: Building	Status: Approved	Reviewer: Mike Nugent	Approval Date: 12/29/2004
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Fire	Status: Approved with Conditions	Reviewer: Lt. Mac-Dougal	Approval Date: 01/05/2005
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) fan shall be installed according to plans submitted			

All Purpose Building Permit Application

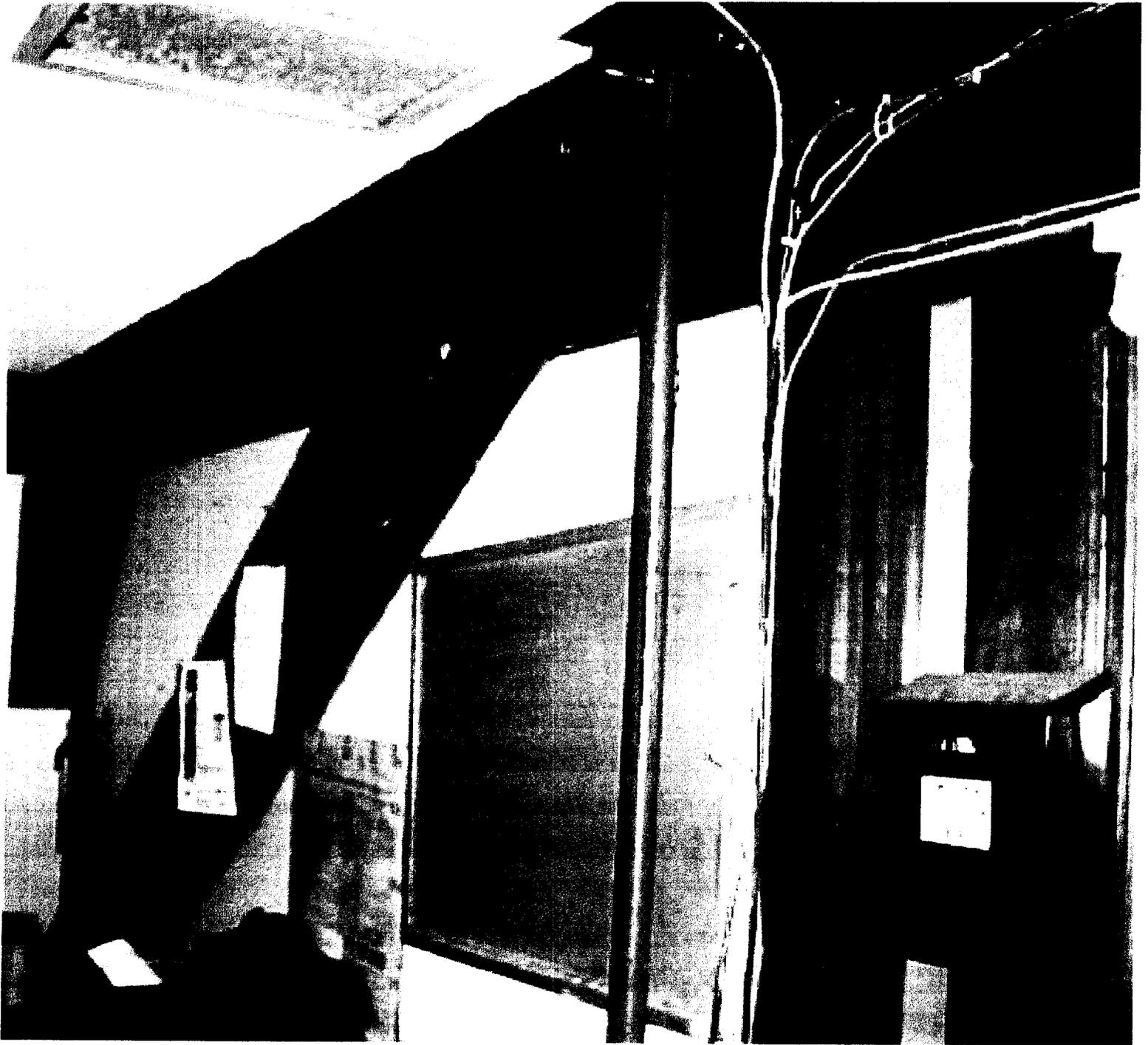
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

<u>Middle St Portland</u>		
Total Square Footage of Proposed Structure <u>N/A</u>	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>29 0 2</u>	Owner: <u>Mike Mastroianni</u>	Telephone: <u>846-4800</u>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>Johanson and Jordan 18 Mussey Rd Scarborough</u>	Cost Of Work: \$ <u>10,000</u> Fee: \$ <u>111.00</u> / <u>100</u>
Current use: <u>Commercial use</u>	<div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;"> DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME 883-8345 DEC 15 2004 RECEIVED </div>	
If the location is currently vacant, what was prior use:		
Approximately how long has it been vacant:		
Proposed use: Project description: <u>Replacement of and relocation of Exhaust fan -</u>	Commercial Kitchen	
Contractor's name, address & telephone:		
Who should we contact when the permit is ready: <u>Johanson and Jordan - Russell/char</u>		
Mailing address: <u>18 Mussey Rd Scarborough ME. 04074</u>		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE <u>883-8345</u>		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

<u>Russell</u>	Date: <u>11/30/04</u>
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This is NOT a permit, you may not commence ANY work until the permit is issued. If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

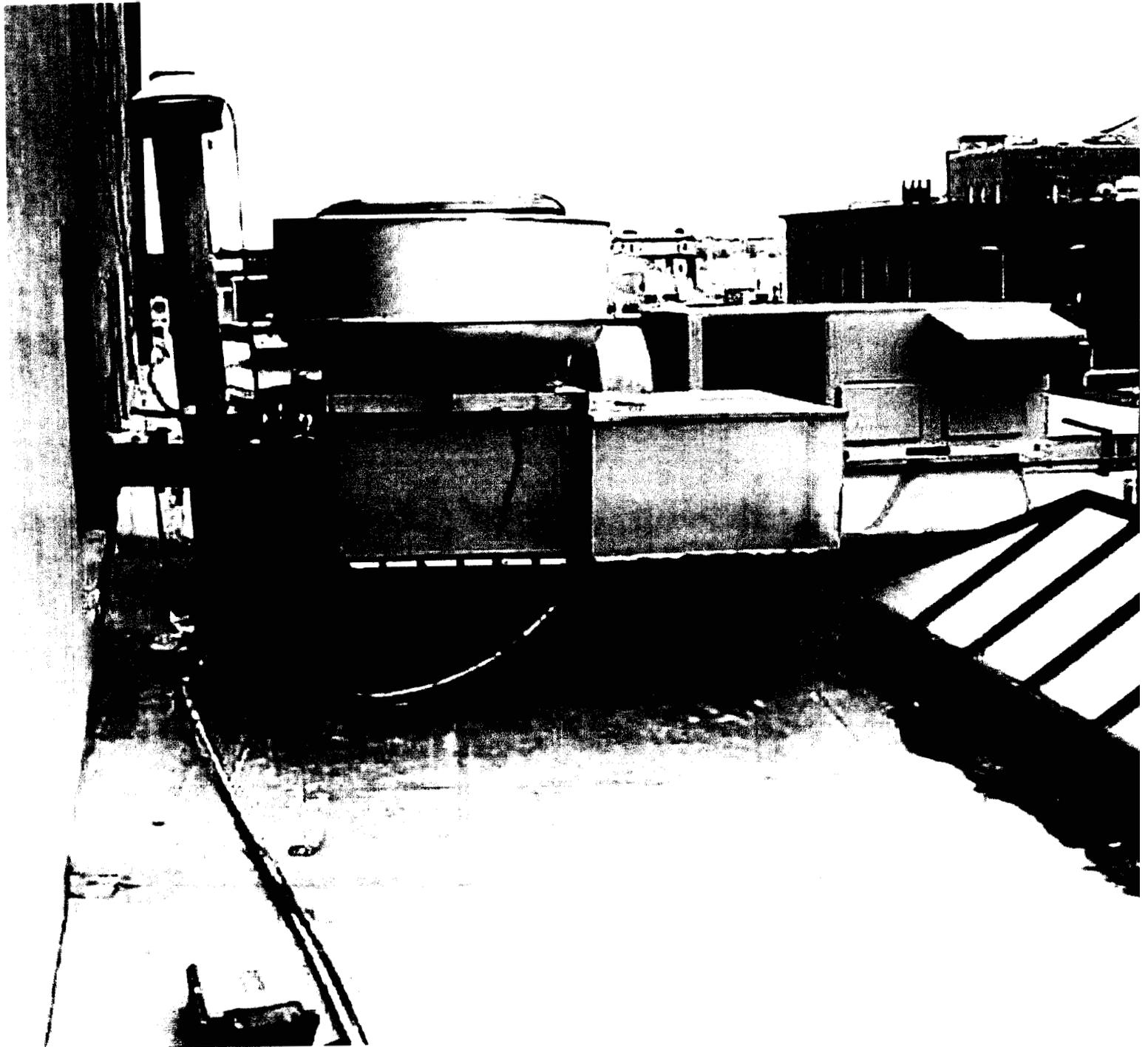


DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
DEC 15 2004
RECEIVED

2036



15 2004
RECEIVED
2402



2902

DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME
DEC 15 2004
RECEIVED

FAN IS HINGED FOR CLEANING

EXHAUST FAN WEIGHT 313 Lbs. SHEET METAL WEIGHT 285 LBS.

FAN WEIGHS 460 Lbs. - TO BE REMOVED DURING INSTALLATION

2902

EX FAN

EX FAN

12 FEET

GRASS CLEAN OUT

WELDED 16 GAUGE METAL

PRESSURE TREATED 4" X 4" ON RUBBER ISO D

RECEIVED DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME DEC 18 2004

ROOF DECK

6" X 12"

56" ON CENTER

164 MIDDLE STREET



Model CUBE Belt Drive Upblast Centrifugal Roof Exhaust Fan

Installation, Operating and Maintenance Manual

Upon receiving unit, check for any damage and report it immediately to the shipper. Also check to see that all accessory items are accounted for.

Move fan to desired location and fasten securely through mounting holes in base. Shims may be necessary depending upon roofing material thickness. The diagram below shows dimensions for Model CUBE.

Access to the motor compartment is accomplished by removing the screws designated "R" in Fig. 1. The cover can then be removed and placed on a flat surface in an area protected from strong winds.

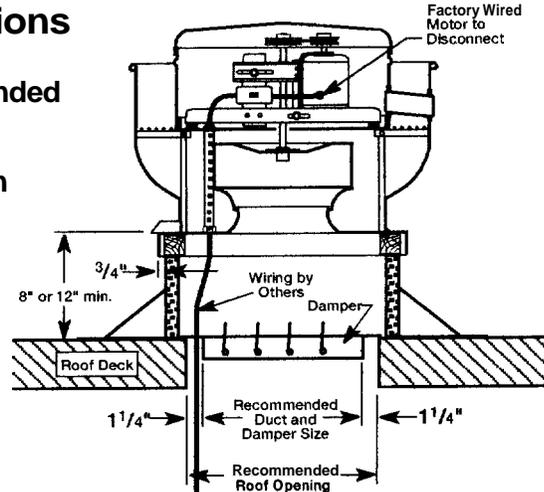
The motor's amperage and voltage rating must be checked for compatibility to the supply voltage prior to final electrical connection. For NFPA - restaurant CUBE applications, the electrical supply must enter the motor compartment through the breather tube. For other non-flammable applications the electrical supply can be routed through the conduit chase between the curb cap and the bottom of the motor compartment.

Consult local code authorities for your specific requirements.

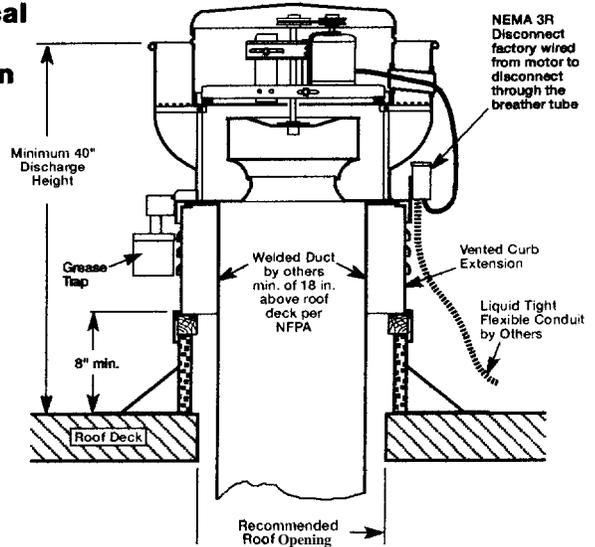
A drain trough is provided on all CUBE fans for single-point drainage of water and residue. Some means for collection of this residue must be provided, either a container directly under the trough or use of an adapter and pipe to carry the residue to a remote collection point. An optional grease trap with water separator baffles is available from your Greenheck representative.

Installations

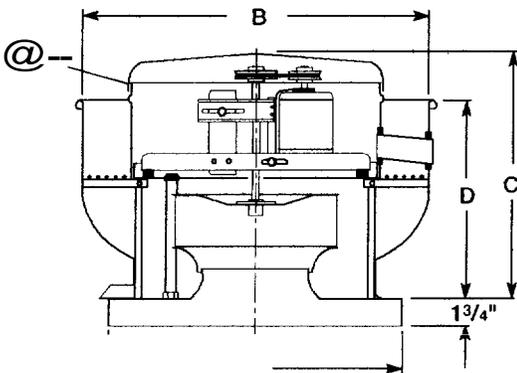
Recommended General Ventilation Installation



Recommended Commerical Kitchen Installation



Dimensional Data

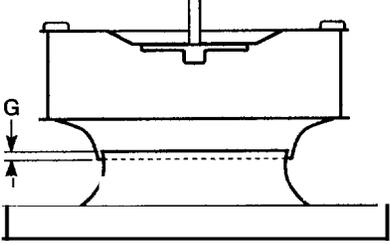
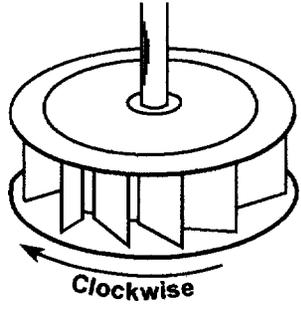


MODEL	A	B	C	D	Shaft Bearings	Damper Size	Roof Opening	Approx. Weight
CUBE-098, 101, 101HP, 121, 131	19	23 ⁵ / ₈	23 ³ / ₄	17 ¹ / ₄	3/4	12x12	14 ¹ / ₂ x 14 ¹ / ₂	66
CUBE-141, 141HP	22	27 ⁵ / ₈	24 ³ / ₄	18 ⁹ / ₁₆	3/4	16x16	18 ¹ / ₂ x 18 ¹ / ₂	87
CUBE-161, 161HP, 161XP					3/4			
CUBE-180					1			126
CUBE-180HP					3/4	18x18	20 ¹ / ₂ x 20 ¹ / ₂	142
CUBE-200					1			142
CUBE-200HP								
CUBE-220, 220HP	34	40 ⁹ / ₁₆	33 ⁷ / ₈	25 ¹ / ₂	1	24x24	26 ¹ / ₂ x 26 ¹ / ₂	175
CUBE-240, 240HP, 240XP								
CUBE-300, 300HP, 300XP	40	48	36	29 ¹ / ₈	1	30x30	32 ¹ / ₂ x 32 ¹ / ₂	313
CUBE-360, 360HP, 360XP	46	56 ³ / ₁₆	39 ¹ / ₈	29 ¹ / ₂		36x36	38 ¹ / ₂ x 38 ¹ / ₂	440
CUBE-420	52	63 ¹ / ₄	44 ³ / ₄	35 ¹ / ₄	1 1/4	42x42	44 ¹ / ₂ x 44 ¹ / ₂	578
	58	72 ¹ / ₈	48 ¹ / ₈	36	1 1/2	48x48	50 ¹ / ₂ x 50 ¹ / ₂	675

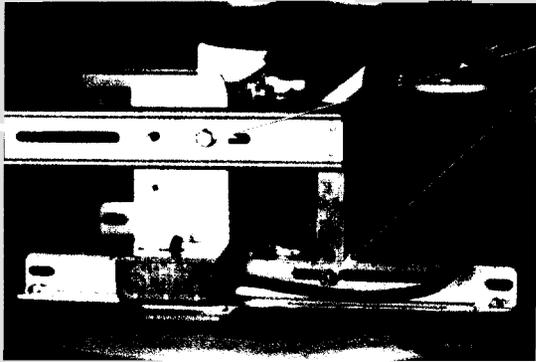
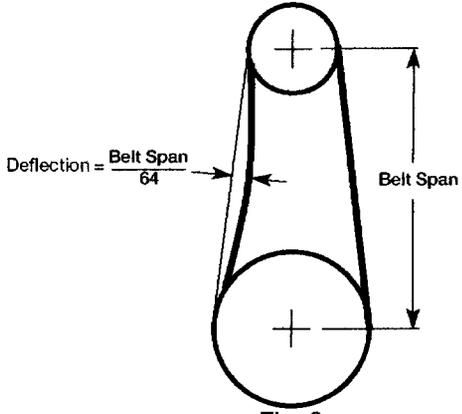
2902

Pre-Starting Checks

Check all fasteners for tightness. The wheel should rotate freely and be aligned as shown in Fig. 2. Wheel position is preset and the unit is test run at the factory. Movement may occur during shipment, and realignment may be necessary. Centering can be accomplished by loosening the bolts holding the drive frame to the shock mounts and repositioning the drive frame. Wheel and inlet cone overlap can be adjusted by loosening the set screws in the wheel and moving the wheel to the desired

<p>WHEEL OVERLAP DIMENSIONS</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="text-align: left;">MODEL</th> <th style="text-align: left;">G</th> </tr> </thead> <tbody> <tr> <td>098-161</td> <td>1/4 in.</td> </tr> <tr> <td>180-300</td> <td>1/2 in.</td> </tr> <tr> <td>360-480</td> <td>3/4 in.</td> </tr> </tbody> </table>  <p style="text-align: center;">Fig. 2</p>	MODEL	G	098-161	1/4 in.	180-300	1/2 in.	360-480	3/4 in.	<p>WHEEL ROTATION All CUBE fans have CW wheel rotation when viewed from top of fan.</p>  <p style="text-align: center;">Fig. 3</p>
MODEL	G								
098-161	1/4 in.								
180-300	1/2 in.								
360-480	3/4 in.								

			WRONG
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 <p style="text-align: center;">Fig. 5</p> <p style="text-align: right; margin-top: 10px;">NOTE: Identical fasteners on opposing sides</p>	 <p style="text-align: center;">Fig. 6</p>
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The adjustable motor pulley is factory set for the RPM specified. Speed can be increased by closing or decreased by opening the adjustable motor sheave. Two groove variable pitch pulleys must be adjusted an equal number of turns open or closed. Any increase in speed represents a substantial increase in the horsepower required by a unit. Motor amperage should always be checked to avoid serious damage to the motor when speed is varied.

MAINTENANCE

Belts tend to stretch after a period of time. They should be checked periodically for wear and tightness. When replacing belts, use the same type as supplied with the unit. Matched belts should always be used on units with multigroove pulleys. For belt replacement, loosen the tensioning device far enough to allow removal of the belt by hand. Do not force belts on or off. This may cause cords to break, leading to premature belt failure. Once installed, adjust belts as shown in "Pre-Starting Checks."

Shaft bearings can be classified in two groups: relubricating and non-relubricating. All bearings on standard Model CUBE fans are factory lubricated and require no further lubrication under normal use (between -20°F and 180°F in a relatively clean environment). Units installed in hot, humid or dirty locations should be equipped with special bearings. These bearings will require frequent lubrication. Caution should be employed to prevent overpacking or contamination. Grease fittings should be wiped clean. The unit should be in operation while lubricating. Extreme care should be used **around** moving parts. Grease should be pumped in very slowly until a slight bead forms around the seal. A high grade lithium base grease is recommended.

Motor maintenance is generally limited to cleaning and lubrication (where applicable). Cleaning should be limited to exterior surfaces only. Removing dust buildup on motor housing ensures proper motor cooling. Greasing of motors is only intended when fittings are provided. Many fractional motors are permanently lubricated and should not be lubricated further. Motors supplied with grease fittings should be greased in accordance with manufacturers' recommendations. Where motor temperatures do not exceed 104°F (40°C), the grease should be replaced after 2000 hours of running time as a general rule.

Wheels require very little attention when moving clean air. Occasionally, oil and dust may accumulate causing imbalance. When this occurs, the wheel and housing should be cleaned to ensure smooth and safe operation.

The unit should be made non functional when cleaning the wheel or housing (fuses removed, disconnect locked off, etc.).

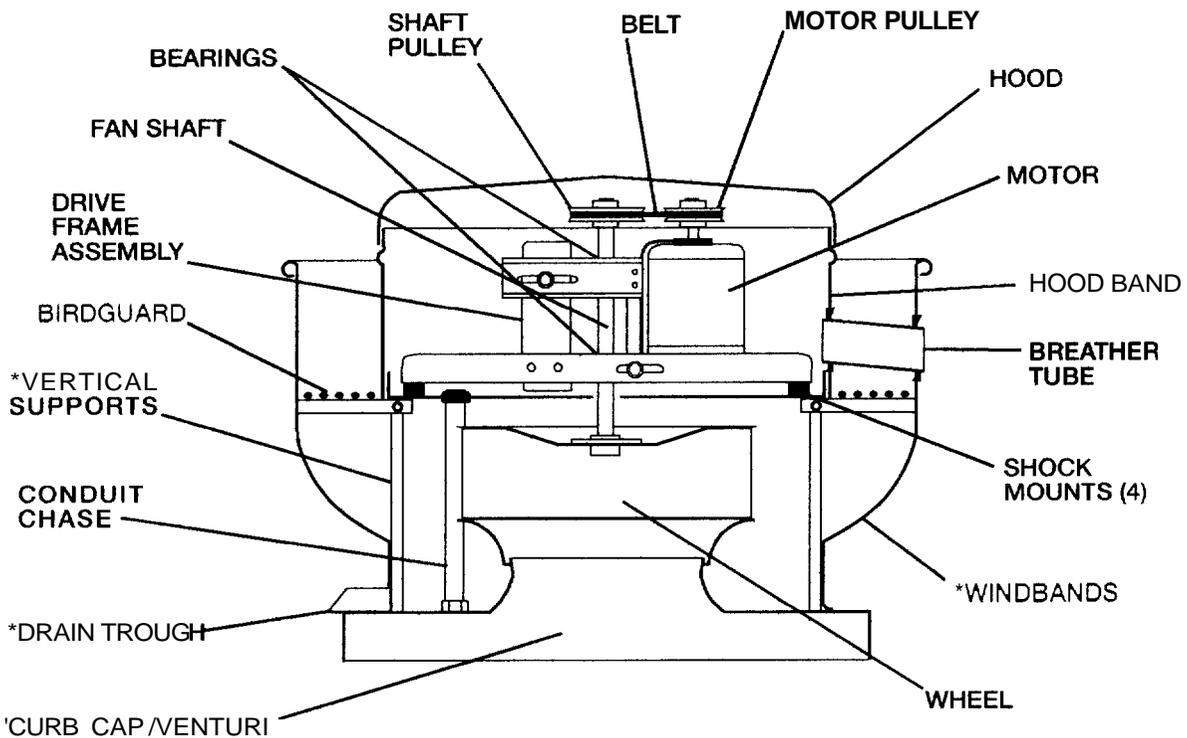
All fasteners should be checked for tightness each time maintenance checks are performed prior to restarting unit.

A proper maintenance program will help these units deliver years of dependable service.

PROBLEM	CAUSE	CORRECTIVE ACTION
REDUCED AIRFLOW	System resistance too high	Check system: Proper operation of backdraft or control dampers, obstruction in ductwork, etc.
	Unit running backwards	Correct as shown in Fig. 3.
	Excessive dirt buildup on wheels	Clean wheel.
	Improper wheel alignment	Center wheel on inlets.
EXCESSIVE NOISE OR VIBRATION	Bad bearings	Replace.
	Belts too tight or too loose	Refer to Fig. 6 and adjust tension.
	Wheel improperly aligned and rubbing	Center wheel on inlets. See Fig. 2.
	Loose drive or motor pulleys	Align and tighten. See "Pre-Starting Checks."
	Foreign objects in wheel or housing	Remove objects, check for damage or unbalance.
	Unbalance of wheel caused by excessive dirt and grease buildup	Remove buildup.

NOTE: Before taking any corrective action, make certain unit is not capable of operation during repairs.

PARTS LIST



* For replacement, the windband, vertical supports, drain trough and curb cap/venturi come as one complete assembly.

NOTE Each fan bears a manufacturer's nameplate with model number and serial number embossed. This information will assist the local Greenheck representative and the factory in providing service and replacement parts.

WARRANTY

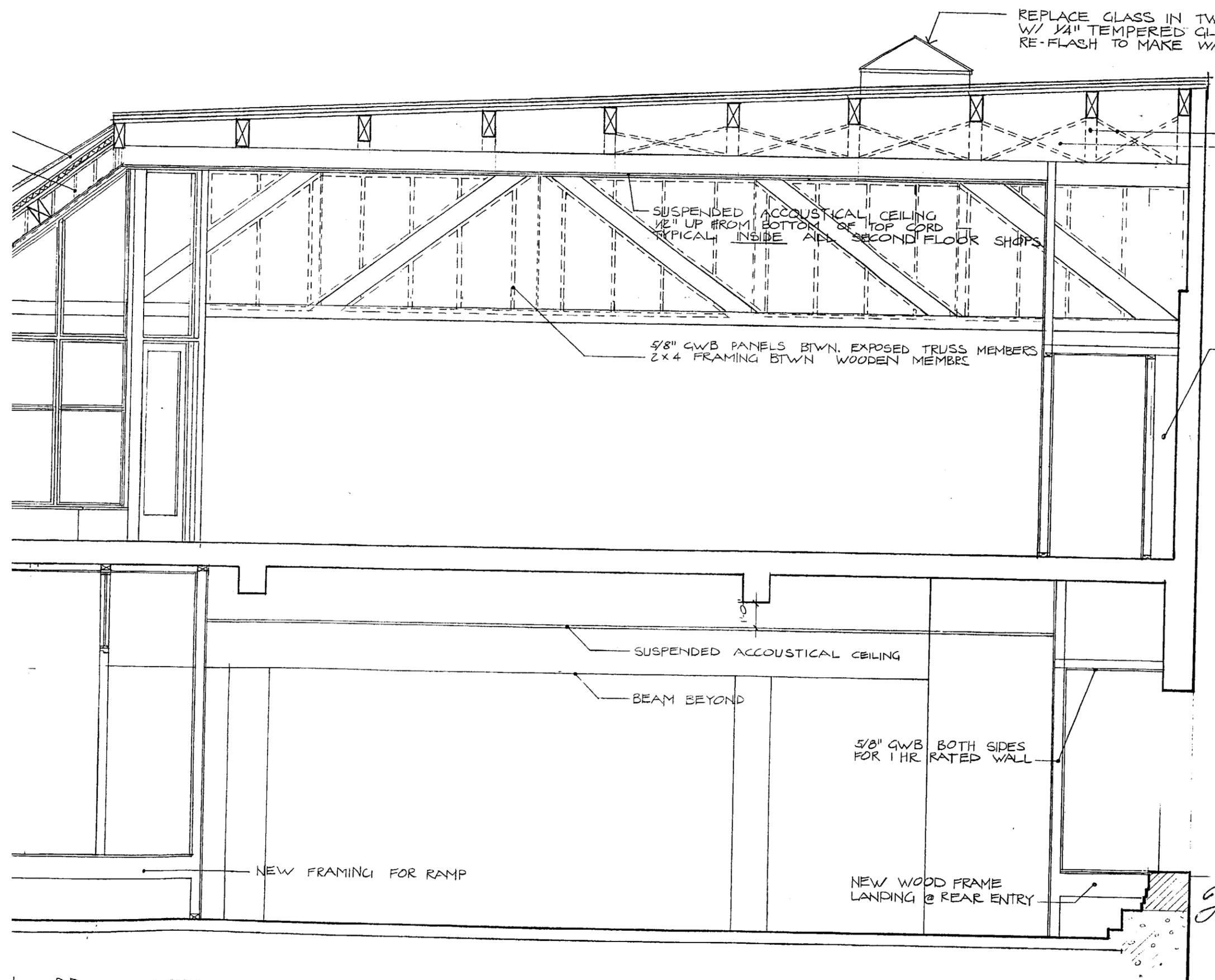
Greenheck warrants this equipment to be free from defects in material and workmanship for a period of one year from the date of purchase.

Any units or parts which prove to be defective during the warranty period will be replaced at our option when returned to our factory, transportation paid.

The motor is warranted by the motor manufacturer for a period of one year. Should the motor prove defective during this period, it should be returned to the nearest authorized motor service station.

Greenheck will not be responsible for any installation or removal costs,





REPLACE GLASS IN TWO ROOF TOP SKYLIGHTS
 W/ 1/4" TEMPERED GLASS, REPAIR, CAULK,
 RE-FLASH TO MAKE WATER TIGHT

BRACING & SUPPORTS BEHIND GWB
 5/8" GWB UP TO CEILING, BOTH
 SIDES FOR 1HR PROTECTION

SUSPENDED ACOUSTICAL CEILING
 1/2" UP FROM BOTTOM OF TOP CHORD
 TYPICAL INSIDE ALL SECOND FLOOR SHOPS

5/8" GWB PANELS BTWN. EXPOSED TRUSS MEMBERS
 2x4 FRAMING BTWN WOODEN MEMBERS

MECHANICAL CHASE

SUSPENDED ACOUSTICAL CEILING

BEAM BEYOND

5/8" GWB BOTH SIDES
 FOR 1HR RATED WALL

NEW FRAMING FOR RAMP

NEW WOOD FRAME
 LANDING @ REAR ENTRY

2902

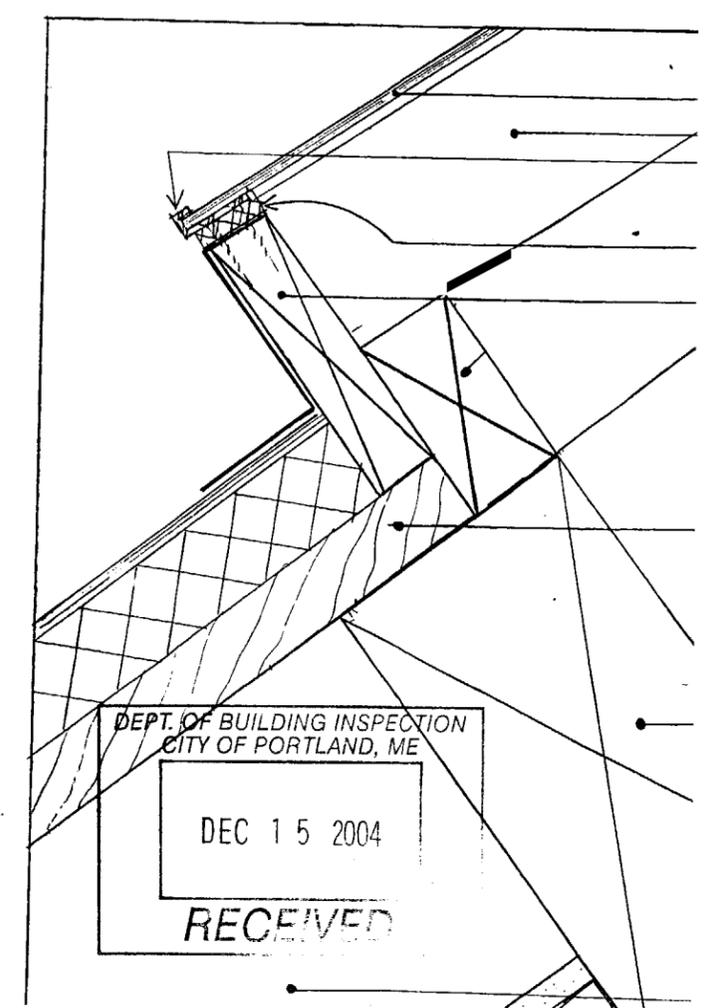
GRAVEL IMBEL
 HOT ASPHALT
 4-PLY BUILT I

FLASHING UP
 DOWN & OV

1/2" X 1/8" ALL
 1/2" X 2" ALUM.

1/4" NEOPREN:
 SILICONE CAL
 NEW 1/4" TEMPE

1/2" NEOPREN:
 2" X SUPPOI
 NEW 4" X 6" M
 EXISTING SKYL
 SKYLIGHTS TO
 AS EXISTING



DEPT. OF BUILDING INSPECTION
 CITY OF PORTLAND, ME
 DEC 15 2004
 RECEIVED



CITY OF PORTLAND, MAINE
Department of Building Inspections

_____ 20 _____

Received from _____

Location of Work _____

Cost of Construction \$ _____

Permit Fee \$ _____

Building (IL) ____ Plumbing (I5) ____ Electrical (I2) ____ Site Plan (U2) ____

Other _____

CBL: _____

Check #: _____

Total Collected \$ _____

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