City of Portland, Maine - Building or Use Permit Application						WILLISSUE	CBL:	
•		•	(207) 874-8703, Fax: (207) 874-871		02-0775		068 BG	012001
Location of Construction:		Owner Name:	Owner Name:		Owner Address:		Phone:	
91 St John St Greate		Greater Portian	reater Portland Transit		89 St John St		J	
Business Name:		Contractor Name:		Contractor, Andres: F PORTLA		Phone		
n/a Avery Service		Avery Services	s, Inc. 7 Th		7 Thomas Drive Westbrook 2077728687			687_
Lessee/Buyer's Name		Phone:	Phone:		Permit Type: Zone:			
n/a		n/a		HVAC			Inb	
Past Use:		Proposed Use:	Proposed Use:		Permit Fee: Cost of Work:		CEO District:	
Commercial /	Transit District	Commercial / 1	Install Carrier Gas /		\$30.00	\$0.00	0 3	
		Electric Roof	Electric Roof Top Units		FIRE DEPT: Approved INST		PECTION: Group: S - 1 Type: 2C	
Proposed Projec	t Description:						Q_{i}	$\cap \mathcal{L}$
Install Heatin	g System			Signat	ture:	Sign	nature((UV)	W
1				PEDE	PEDESTRIAN ACTIVITIES DISTRICT (P.A.			+
				Action	n: Appro	ved Approved	d w/Conditions [Denied
				Signa	ture:		Date:	
Permit Taken By	y:	Date Applied For:		Zoning Approval				
gg		07/11/2002						
1. This perr	nit application do	es not preclude the	Special Zone or Re-	views	Zoni	ng Appeal	Historic Pre	servation
Applicant(s) from meeting applicable State and Federal Rules.		☐ Shoreland		☐ Variance		Most in District or Landmark		
 Building permits do not include plumbing, septic or electrical work. 		☐ Wetland		☐ Miscellaneous		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		Flood Zone	Conditional Use		Requires Re	view		
		Subdivision		Interpre	tation	Approved		
					☐ Approv	ed	Approved w	/Conditions
			Maj Minor M	7	Denied		Date:	
				00				

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



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMEN

JUL 3.0 2002

TY OF PORTLAND

020775

0.173

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 91 St. John	Use of Building METRO/OFFICES Date 7/12/02
Name and address of owner of appliance GREATER PORTLA	NO TRANSIT DISTRICT
Installer's name and address Avery Services, IN	C 7 thomas DRIVE Westbacok, Mg
Location of appliance: Basement Floor	Type of Chimney: Masonry Lined Fostory built
☐ Attic ☑ Roof	Factory built
Type of Fuel: Gas Oil Solid Appliance Name: Carrier GAS/Electric Roof top Units U.L. Approved P Yes No	□ Metal Factory Built U.L. Listing # W/A ○ CAN □ Direct Vent Type UL#
Will appliance be installed in accordance with the manufacture's installation instructions? Yes No No No No	Type of Fuel Tank Oil Gas - No. Uplifies Size of Tank
The Type of License of Installer:	Number of Tanks
☐ Master Plumber #	Distance from Tank to Center of Flame feet. Cost of Work: \$\frac{5U_1689.00}{}\$ Permit Fee: \$\frac{1}{2}\$
Approved Fire: Ele.:	Approved with Conditions See attached letter or requirement DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME
Bldg.:	Inspector's Signature
White - Inspection Yellow - File P	ink - Applicant's Gold - Assessor's topy E E V E

ALEXANDER HUTCHEON ASSOCIATES

ENGINEERS

519 CONGRESS STREET PORTLAND, MAINE 04101 TELEPHONE 207 774-0484

HUTCHEON

July 22, 2002

Mr. Stephen R. Kirby Greater Portland Transit District 114 Valley Street Portland, Maine 04102

Re: Supports for new rooftop air conditioning units Greater Portland Transit District Building

Dear Mr. Kirby:

At your request, I have examined the existing roof framing of the office section of your building at 114 Valley Street, and I have determined the loads which will be imposed on this roof framing by two new rooftop air conditioning units.

As shown on the enclosed calculation sheet, the new units can be installed in the locations shown without exceeding the allowable capacity of the roof framing.

Part of the available reserve capacity in the roof is due to the fact that the same joist section, 14H7, was used on a 21 ft. span as for a 24 ft. span. Another factor is the removal of stone ballast from the roof, when the roofing was replaced.

The steel girders have been unloaded by about 10 lbs. per sq. ft., and the new units will have no significant effect on these girders, because of this unloading.

Please note that the unit at the entry must be centered between the girder lines "D" and "F".

Your questions and comments regarding this report are welcome.

Very truly yours.

ALEXANDER HUTCHEON Associates,

Engineers Elexander Shetcheon

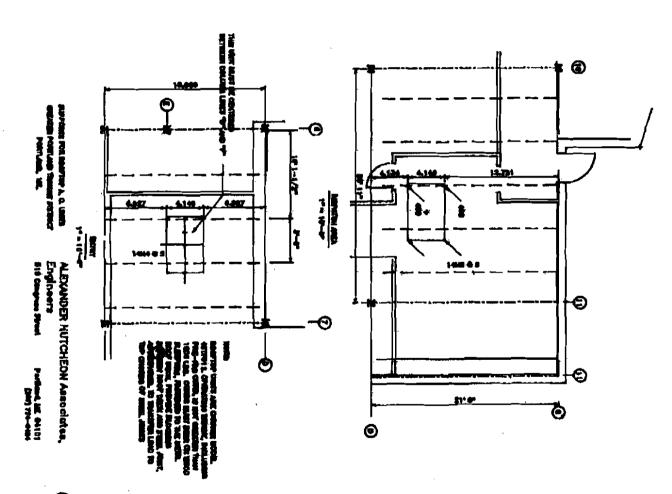
Alexander Hutcheon, P.E.

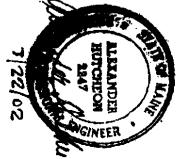
President

Enclosures: Calculation sheet 1 of 1

Partial roof framing plans, with locations of new

units





BY A. HUTCHES, DATE 7/22/02 SUBJECT A.C. UNIT SUPPORTS SHEET NO. | OF GREATER PORTLAND TRANSIT DIST. JOH NO._ ROOF SHOW LOAD : 7 1 = .7(60) = 42 PSF. ROOF DEAD LOAD . ROOFING & INDUCATION 2 PST. 2 STEEL ROOF DECK HUTCHEON SUSPILLIDED CEILING LIGHTS DUCTS, MISC. SPRINKLERS 13 PSP 7/22/02 STEEL JOISTS SPACED 5 D.C. 1205- LOAD TO JOISTS 14 H7 5 (55)+10 = 285 PLE 1444 5(55)+ LOADS (447) P1=-400.00 FOR 14 H 7 JOIST, 21'SPAN, AT DISPATCH AREA dP1=4.14 P2=-480.90 CAPACITY AT 21 - 438 PLE > 285 PLE OK dP2=4.15 MAXIMUM ALLOWABLE MOMENT = 369,000 16 v1=-285.68 MOMENT, HICLUDING CONCENTRATED LOADS = 18,292 W L1=21.88 = 219 506 4# dli =0.00 .05(369,000) = 313,650 * OK SPAN=21.00 MAXIMUM ALLOWATELE REACTION = 4600+ RERCTIONS REACTION, INCLUDING CONCENTRATED LANDER 3556+ LEFT=3,555.97 .85 (4600) = 3910" OK RICHT=3,229.03 HAX H X=9.7 M=18,292,16 FOR 1444 HOIST, 18 SPAN, AT ENTRY LOADS 14H4 CAPACITY, AT 18', = 389 RF > 285 PLF : OF P1=-498.00 dP1=6.93 MAXIMUM ALLOWABLE MOMENT = 212,000 18 MOMENT, INCLUDING CONCENTRATED LOADS - 14,313.3 P2=-488.68 dP2=4.15 = 171.760 4 .85 (212,000) = 180,200 GK u1=-285.80 L1=18.99 MAXIMUM ALLOWADLE REACTION = 3500 # dH1=8.88 REACTION, INCLUDING CONCENTRATED LONDS = 2965 SPAN=18.99 .85 (3500) = 2975 OK REACTIONS LEFT=2,965.99 RIGHT=2,965.00 . u = 285 pi X=9.0 Pf=14,313.39

AVERY SERVICES, INC.

7 Thomas Drive WESTBROOK, MAINE 04092 (207) 772-8687

J12957

FAX (207) 874-0933

TO:	Greater Po	ortland	Transit	District
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Metro

114 VALLEY ST

PO Roy 1007_

PONTLAND HE 04102

Attn: Steve Kirby

Postland ME - 04104-1097

PHONE 774-0351 - Fax: 774-6241	DATE 7/2/02
JOB NAME / LOCATION Removal of an existing Rooftop Installation of Central HVAC Sy	
at 114 Valley Street - Portland	
JOB NUMBER	JOB PHONE

We hereby submit specifications and estimates for:

Avery Services, Inc. is pleased to quote as requested on the removal & disposal of your existing (failing Gas-Fired Rooftop Heating Unit, and installation of a Central Heating/Cooling system for your Office Suite as per our site visit discussion and limited information you provided. Scope of work to include:

Removal & disposal of your existing Dravo Hastings Gas-fired Rooftop units.

Supply & assemble (spot) (2) Manufacturer's roof curbs for the new Carrier gas/electric rooftop units. (Curbs to be installed & leveled by others).

Supply & install (2) Carrier 48IFE 10 ton gas/elec. Rooftop Units with an economizer to be set onto the new curb.

Supply & install (1) Carrier Comfort Zone (4-zone) system (for front offices, board room, maint. manager wing) includes: (1) Master controller, remote sensors, dampers, bypass damper, low voltage wiring. Supply & install a Carrier programmable thermostat & low voltage wiring for the other unit.

Demo the existing duct system (which is uninsulated & undersized for the new installation).

Supply & install PVC condensate trap on each rooftop unit.

Supply & install a galvanized (insulated supply) metal duct system above the drop ceiling. The supply duct will be comprised of pipe/flex runnouts & ceiling diffusion (with manual volume dampers at each take off). The return duct system will be comprised of both some high & low returns to allow the most comfort during both heat & cool seasons (some of the duct will be lined for sound attenuation).

Supply & install gas piping from the existing old unit piping across the roof & tie into the new units.

Price includes: crane cost, transportation of the new units to the site & old unit for disposal.

Start up & test, customer orientation of controls.

OPTION A: To add a (4) Zone Control System to the other unit (core area, dispatch, drivers room, locker room, lunch room), add \$2,800.00

EXCLUSIONS: Power wiring, structural, roof work, fire dampers, fire systems, overtime labor, , soffiting, carpentry, painting, air balance, drop ceiling disassembly/re-assembly, adequacy of existing systems.

 ${
m We\ Propose}$ hereby to furnish material and labor — complete in accordance with the above specifications, for the sum of:

Forty Seven Thousand Eight Hundred Eighty Nine and 00/100 Dollars

dollars (\$

47,889,00

Payment to be made as follows:

25% Upon equipment delivery- Progress billing/net 10 days - Balance on completion.

if payment is not made as outlined above, a service charge of 2% per month on the overdue balance plus all reasonable costs of collection, including attornay's fees will be paid.

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifica- Authorized tions involving extra costs will be executed only upon written orders, and will become an extra. Signature charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tomado, and other necessary insurance. Our

workers are fully covered by Worker's Compensation insurance. Acceptance of Proposal -- The above prices, specifications and

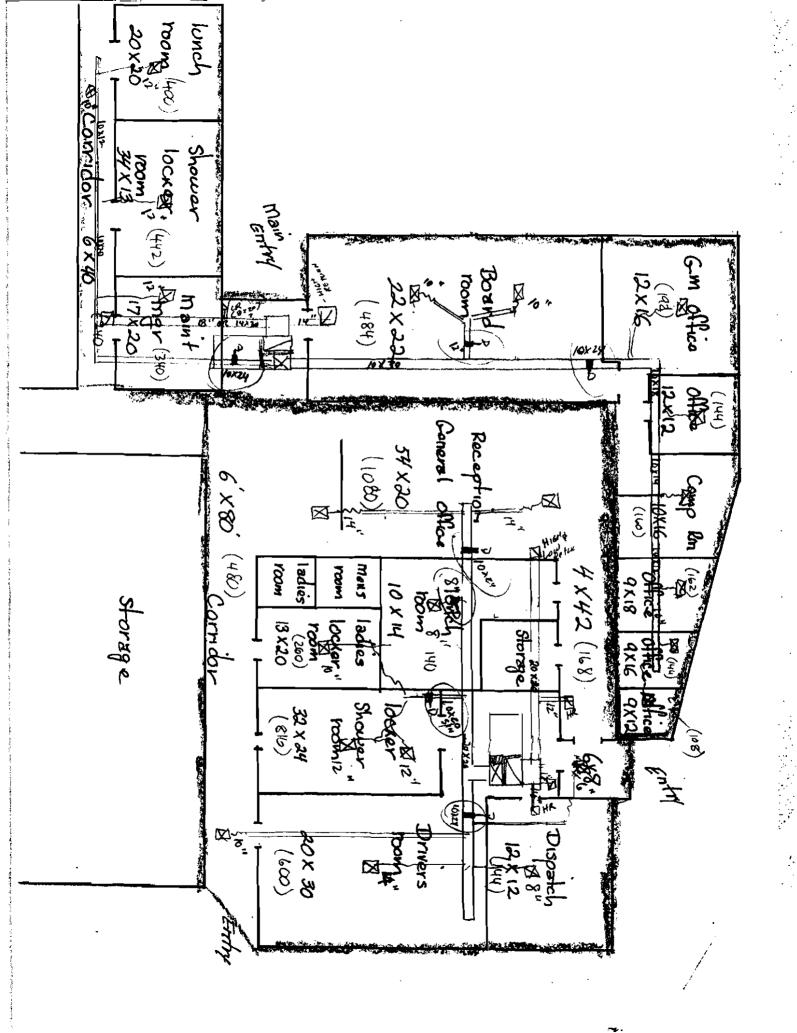
conditions are salisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above Date of Acceptance: _____

Note: This proposal may be withdrawn by us if not accepted within

days.

Signature

DUCT 13128 FOLD AT (>) TO FIT COMPA



GREATER PORTLAND DISTRICT

THE CHARMING FACILITY

