City of Portland, Maine - Building or Use Permit Application  389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716  Location of Construction:  87 MARGINAL WAY  Pract Use:  Commercial - Retail  Commercial - Retail  Proposed Use:  Commercial - Retail  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Proposed Project Description:  Interior remodel of existing retail space, remodel exterior entry canopy  Special Zone or Review  Applicant(s) from meeting applicable State and Shoreland Shore	Owner Name:  87 MARGINAL WAY LLC  Contractor Name:  Prime General Contracting/Scott  Phone: 781-455-7337  Proposed Use: Commercial - Retail - "Trader Joe's" - Interior remodel of existing retail space, remodel exterior entry canopy  Mied For: 2010  Special Zone or Repland  with the ble State and Shoreland Shoreland  snot started f issuance. building Subdivision  Maj Subdivision  Maj Site Plan  Maj Site Plan  Maj Site Plan  Maj Minor Maj  Maj  Maj  Maj  Maj  Maj  Maj  Maj	Region 19 19 19 19 19 19 19 19 19 19 19 19 19	nit No: Issue  10-0497  Address:  MARKET ST STE  for Address:  Sox 811 North King  Type: Cost of  6,770.00 \$67  EPT: Approve  Cost of  Cost of  Cost of  Cost of  Approved  Commercia  Toning Approved  Conditional Use  Approved  Approved  Approved  Approved  Denied  Papproved  Denied  Denied  Denied  Approved  Approved  Denied  Approved	
Idobson 05/10/  1. This permit application does not p  Applicant(s) from meeting applica	_	- F	Zoning Appro	
		Wetland	Miscellaneous	Does Not F
		] Flood Zone	Conditional Use	Requires R
False information may invalidate a permit and stop all work		Subdivision	☐ Interpretation	Approved
		Site Plan	Approved	Approved v
Constitution of the second of	BO X	aj   Minor   MM	Date:	Date:
C POR	e variati kan ika tiha si Gananiputi	2/101/		
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.	cord of the named take this application work described in the covered by such p	CERTIFICATION property, or that the prom as his authorized agenthe application is issued, ermit at any reasonable	posed work is authorize it and I agree to conforn I certify that the code o hour to enforce the pro	d by the owner of recont to all applicable laws fficial's authorized reprision of the code(s) a
SIGNATURE OF APPLICANT		ADDRESS	DATE	E PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE	K, TITLE		DATE	E PHONE

#### DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

FORM # P CARD CARD C	M BHINGIPAL THORTS	
CITY	of Portlani	
Please Read PIII	DING INSPECTION	CITY OF PORTLAND
Application And Notes, If Any,	PERMIT\	Permit Number: 100497
Attached		1 0107   - NO
This is to certify that87 MARGINAL WAY LLC /Pr	General Contracting/Scott	and the state of t
has permission toInterior remodel of existing retail	space, remodel exterior entry canopy	berwit issued
	CD 034	D007001
	n or comporation accepting t	this permit shall comply will c
provided that the person or persons, file of the provisions of the Statutes of Mail	ne and of the Ordinances of	and of the application on file
The second second lies	huildings and structures,	alla of the spenior

the construction, maintenance and use of buildings and structures, and of the application on file this department.

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

OTHER REQUIRED APPROVALS Health Dept. Appeal Board\_ Department Name

Noti to tion of inspection must be given and written remission rocured before his building or part thereof is lathed or otherwise algoed-in. 2. HOUR NOTICE IS REQUIRED.

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

Tel: (207) 874-8703, Fax: (207) 874-8716    Contractor Name:   Contractor Name:   Proposed Project Description:   Proposed Pro	Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716 Owner Address: tion of Construction:  MARGINAL WAY  Prime General Contracting/Scott  Proposed Use:  Proposed Use:  Margina Folicition:  Margi	of Portland., Maline - Building or Use Permit  Congress Street, 04:101 Tel: (2017) 874-8703, Fax: (2017) 874-8703.  Congress Street, 04:101 Tel: (2017) 874-8703, Fax: (2017) 874-8703.  Congress Street, 04:101 Tel: (2017) 874-8703, Fax: (2017) 874-8703.  Congress Street, 04:101 Tel: (2017) 874-8703, Fax: (2017) 874-8703.  Congress Street, 04:101 Tel: (2017) 874-8703, Fax: (2017) 874-8703.  Congress Street, 04:101 Tel: (2017) 874-8703, Fax: (2017) 874-8703.  Congress Street, 04:101 Tel: (2017
Separate permits shall be required for any new signage.  This property shall remain a retail use for both establishments in the structure. Any change of use shall in the for soviety and approval.	Separate permits shall be required for any new signage.  This property shall remain a retail use for both establishments in the structure. Any change of use shall in the for soviety and approval.	Separate permits shall be required for any new signage.  This property shall remain a retail use for both establishments in the structure. Any change of use shall in the for soviety and approval.
ept: Building  Status: Approved with Conditions  Reviewer: Jeanine Bourke  Ok to		ept: Building  Status: Approved with Conditions  Reviewer: Jeanine Bourke  Ok to
=	ote: Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, com hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.  All penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with A	=
Approval of City license is subject to health inspections per use room.  Prior to the final inspection a scaled letter shall be submitted to this office confirming that based on inspections performed discrepancies have been corrected and the work is in substantial compliance with the approved plans.  Application approval based upon information provided by applicant. Any deviation from approved plans requires separate and approval prior to work.	ept: Building  Status: Approved with Conditions  Reviewer: Jeanine Bourke  Ok to  ote:  Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, com hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.  All penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with A  or UL 1479, per IBC 2003 Section 712.  New cafe, restaurant, lounge, bar or retail establishment where food or drink is sold and/or prepared shall meet the requi the City and State Food Codes	Approval of City license is subject to health inspections per use room.  Prior to the final inspection a scaled letter shall be submitted to this office confirming that based on inspections performed discrepancies have been corrected and the work is in substantial compliance with the approved plans.  Application approval based upon information provided by applicant. Any deviation from approved plans requires separate and approval prior to work.
ept: Fire Status: Approved with Conditions Reviewer: Capt Keith Gautreau Approval Date:  Ok to locate the comply with NFPA 1 and 101.	ept: Building  Status: Approved with Conditions  Reviewer: Jeanine Bourke  Ok to Issolte:  Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, commod exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process. hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process. All penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS or UL 1479, per IBC 2003 Section 712.  New cafe, restaurant, lounge, bar or retail establishment where food or drink is sold and/or prepared shall meet the requires the City and State Food Codes  Approval of City license is subject to health inspections per the Food Code.  Prior to the final inspection a sealed letter shall be submitted to this office confirming that based on inspections performed discrepancies have been corrected and the work is in substantial compliance with the approved plans.  discrepancies have been corrected and the work is in substantial compliance with the approved plans requires separate and approval prior to work.	ept: Fire Status: Approved with Conditions Reviewer: Capt Keith Gautreau Approval Date:  Ok to locate the comply with NFPA 1 and 101.
All construction shall comply with Exercising All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FA RECORDS". Records cabinate, FACP, annunciator(s), and pull stations shall be keyed alike.	ote: Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, commode exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process. hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process. All penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS all penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS all penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS all penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS all penetration of UL 1479, per IBC 2003 Section 712.  New cafe, restaurant, lounge, bar or retail establishment where food or drink is sold and/or prepared shall meet the requires the City and State Food Codes.  Approval of City license is subject to health inspections per the Food Code.  Prior to the final inspection a sealed letter shall be submitted to this office confirming that based on inspections performed discrepancies have been corrected and the work is in substantial compliance with the approved plans. and approval based upon information provided by applicant. Any deviation from approved plans requires separate and approval prior to work.  Dept: Fire Status: Approved with Conditions Reviewer: Capt Keith Gautreau Approval Date:  Ok to 1	All construction shall comply with Exercising All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FA RECORDS". Records cabinate, FACP, annunciator(s), and pull stations shall be keyed alike.
	ote:  Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, commode exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process. hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process. hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process. hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process. All penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS All penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS All penetration of City license is subject to health inspections per the Food Code.  Approval of City license is subject to health inspections per the Food Code.  Prior to the final inspection a sealed letter shall be submitted to this office confirming that based on inspections performed discrepancies have been corrected and the work is in substantial compliance with the approved plans.  Application approval based upon information provided by applicant. Any deviation from approved plans requires separate and approval prior to work.  Dept: Fire  Status: Approved with Conditions Reviewer: Capt Keith Gautrean Approval Date:  Ok to:  Note:  Ok to:  All fire alarm records cabinate, FACP, annunciator(s), and pull stations shall be keyed alike.	
	ote: Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, comm Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, comm Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, comm Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, comm Separate permits are required assemblies must be protected by an approved firestop system installed in accordance with AS All penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS All penetratios through rated assemblies must be protected by an approved firestop system installed in accordance with AS All penetratios through rated assemblies must be protected by an approved or drink is sold and/or prepared shall meet the require the City and State Food Codes.  Approval of City license is subject to health inspections per the Food Code.  Prior to the final inspection a sealed letter shall be submitted to this office confirming that based on inspections performed discrepancies have been corrected and the work is in substantial compliance with the approved plans.  discrepancies have been corrected and the work is in substantial compliance with the approved plans requires separate and approval based upon information provided by applicant. Any deviation from approved plans requires separate and approval prior to work.  Dept: Fire Status: Approved with Conditions Reviewer: Capt Keith Gautreau Approval Date:  Ok to:  Ok to:  1 All construction shall comply with NFPA 1 and 101.  1 All construction shall comply with NFPA 2 should be stored in an approved cabinet located at the FACP labeled "FIRE. RECORDS". Records cabinate, FACP, amuniciator(s), and pull stations shall be keyed alike.  1 A separate Suppression System Permit is required for all new suppression systems or sprinkle	
The fire alarm system shall comply with the City of Portland Standard for Signating Systems for the Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from Any cutting or welding and hot work taking place in a commercial building requires a separate "Hot Department.	Status: Approved with Conditions Reviewer: Jeanine Bourke Ok to Ise office:  Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, comm Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, comm Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, comm Separate permits are required for any need to be submitted for approval as a part of this process.  All penetratios through rated assemblies must be protected by an approved frestop system installed in accordance with AS All penetratios through rated assemblies must be protected by an approved frestop system installed in accordance with AS All penetratios through rated assemblies must be protected by an approved of Cive license is subject to health inspections per the Food Code.  Approval of Cive license is subject to health inspections per the Food Code.  Approval of Cive license is subject to health inspections per the Food Code.  Approval of Cive license is subject to health inspections per the Food Code.  Approval of Cive license is subject to health inspections per the Food Code.  Approval of Cive license is subject to health inspections per the Food Code.  Approval of Cive license is subject to health inspections per the Food Code.  Approval of Cive license is subject to health inspections per the Food Code.  Approval of Cive license is subject to health inspections per the food Code.  Approval of Cive license is subject to health inspections per formed the approved plans.  Approval of Cive license is subject to health inspections per formed by application approved plans.  Approval of Cive license is subject to health inspections performed by approved plans.  Ok to Note:  Ok to Note:  Approval of Cive license is subject to health inspections.  Approval of Cive license is subject to health inspections performed parameters approved plans.  Approval of Cive license is subject	7) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance.  Compliance letters are required.

Location of Construction:	Owner Name:	Owner Address:	Phone:
87 MARGINAL WAY	87 MARGINAL WAY LLC	1735 MARKET ST STE A-400	
	Contractor Name:	Contractor Address:	Phone
Trader Joe's	Prime General Contracting/Scott	P.O. Box 811 North Kingston	(401) 932-0229
Lessee/Buyer's Name	Phone:	Permit Type:	
	781-455-7337	Alterations - Commercial	
		• 1	man of orman

- $\infty$ Occupancies with an occupant load of 100 persons or more require panic harware on all doors serving as a means of egress.
- 9 Emergency lights and exit signs are required. Emergency lights and exit signs are required to be labeled in relation to the panel and
- 10 Fire extinguishers required. Installation per NFPA 10
- |-----1 |------1 Emergency lights are required to be tested at the electrical panel on the same circuit as the lighting for the area they serve.
- 12 system has been placed back in service. Sprinkler protection shall be maintained. Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the
- $\Box$ If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576. Fire Alarm system shall be maintained.
- 4 A separate Fire Alarm Permit is required for new systems; or for work effecting more than 5 fire alarm devices; or replacement of a fire alarm panel with a different model .
- 5 System acceptance and commissioning must be co-ordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

#### Comments:

5/27/2010-jmb: Spoke with Janet Bade the project manager for architect, discussed engineering oversight of the new canopy. notify the client and secure a local engineer to inspect the steel bolting and submit a sealed letter prior to the final inspection.. She will



# General 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.

This is not a permit; you may n	I hereby certify that I am the Owner of record of the named p that I have been authorized by the owner to make this applicate laws of this jurisdiction. In addition, if a permit for work descrauthorized representative shall have the authority to enter all a provisions of the codes applicable to this permit.  **REGATION TO TRADER COE'S**  **CONTRACTOR OF TRADER COE'S**  **CONTRACT	Please submit all of the information of do so will result in the fill order to be sure the City fully understands the fill may request additional information prior to the issuithis form and other applications visit the Inspection Division office, room 315 City Hall or call 874-8703.	Mailing address: TAYLOR ASSULATES ARCH	Who should we contact when the permit is ready: JEFFREY TAYLOR	Contractor's name: SCOTT MAURO - PRIME GENERAL CONTRACTING  Address: P.O. BOX 811  City State & 7in NORTH KINGSTON R. 1. 07857	Current legal use (i.e. single family)  If vacant, what was the previous use? MERCANTILE  Proposed Specific use: RETAIL GROCERY  Is property part of a subdivision?  Project description: INTERIOR REMODEL OF EXISTING RETAIL  CTRADER JELS TO INCLUDE NEW INTERIOR PARTITION  LIGHTING, AND MECHANICAL MODIFICATIONS. EXTEREDEL  REMODEL	NEEDHAM MA 02494	ble)	& Lot /47	Location/Address of Construction: 87 MARLINAL Total Square Footage of Proposed Structure/Area 23, 9305.F. (EVISTIMA)
This is not a permit; you may not commence ANY work until the permit is issue	\$ 15 E E E	Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.  In order to be sure the City fully understands the full scope of the project, the Tanking and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandwings.go. 2010 by the Inspections Division office, room 315 City Hall or call 874-8703.	Mailing address: TAYLOR ASSULATES ARCHITECTS, 572 N. BROADWAY, WHITE PLANS, N.Y. 10603	_	P. 1 0285> Telephone: 401-932-0229	Current legal use (i.e. single family)  MERCANTILE  If vacant, what was the previous use? MERCANTILE  Proposed Specific use: RETAIL GROCERY  Is property part of a subdivision?  Project description: INTERIOR REMODEL OF ENSTING RETAIL SPACE FOR NEW TENANT  THEMPER BEIS) TO INCLUDE NEW INTERIOR PARTITIONS, ELECTRICAL, PLUMBING, LIGHTING, AND MECHANICAL MODIFICATIONS. EXTERIOR ENTRY CANOPY  REMODEL	Address 15 MAPLE AVENUE C OF O Fee: \$1 City, State & Zip Male 18 579 60 Total Fee: \$ 10 100	Owner (if different from Applicant) Name #AMPSHIPE REALESTATE CO.  Cost Of Work: \$ 675,000	Applicant *must be owner, Lessee or Buyer* Telephone:  Name TRADER Toe's ComPANY  Address 117 KENDRICK STREET  City, State & Zip NEEDHAM, MA 02494	VAL WAY, PORTLAND, ME 04 Square Footage of Lot 101935.F (2.34 A



Raymond H. Ayers
Leasing Consultant
rayers@hampshireco.com

Kieran Stone

April 30, 2010

Director of Construction
Trader Joes Company

117 Kendrick Street

Needham, MA 02494

Re: Trader Joes store location at 87 Marginal Way, Portland, Maine

Dear Mr. Stone:

application for a Building Permit with the City of Portland. The permit application will be for the LLC, your Landlord, does hereby authorize Trader Joe's Company, as tenant under the Lease, to file an purpose of renovating and remodeling the existing building in order to allow its re-opening as a new The Hampshire Companies, as authorized managers of the above referenced property for WO Portland, Trader Joes store.

Very truly yours,

The Hampshire Companies

By: THIAAssociates LLC

Raymond H. Ayers, Member

SENT VIA EMAIL ONLY

Octor of Palifornia Propertions

# BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY) or email: buildinginspections@portlandmaine.gov

requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be notice to the City of Portland Inspection Services for the following inspections. With the issuance of this permit, the owner, builder or their designee is required to provide adequate confirmed by this office. Appointments must be

- you have any questions. Please read the conditions of approval that is attached to this permit!! Contact this office if
- 0 Permits expire in 6 months, if the project is not started or ceases for 6 months.
- 0 incurred due to the issuance of a "Stop Work Order" and subsequent release to continue If the inspection requirements are not followed as stated below additional fees may be with construction.

×	×
X Final inspection required at completion of work.	Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywauing

continue, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES. The project cannot move to the next phase prior to the required inspection and approval to

AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED. IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR

CBL: 034 D007001 Building Permit #: 10-0497



Frederick Taylor Associates Architects, P.C.

572 North Broadway White Plains, N.Y. 10603

#### Taylor Associates Architects

#### TRANSMITTAL FORM

TO:	City of Portland	d		7972
	Building Department	rtment		
	389 Congress Street	Street		-
	Portland ME 04101	4101		
	T 207 874 8693	۵		
	F 207 874 8716	<u>ை</u>	•	•
	Attn: Lannie Dobson	obson		
Ŗ	Trader Joe's		Date:	05/04/10
	87 Marginal W	87 Marginal Way, Portland, ME		
From:	Lori Armstrong	Lori Armstrong, Administrative Assistant	ssistant	Fed-Ex
			THE PROPERTY OF THE PROPERTY O	
Copies	Date	No.	Description	
7	Current	Set	Construction Drawings	:
*	Current	Set	Energy Code Calculations	
*	Current	Set	Structural Calculatins	
	Current	Set	Construction Drawings (pdf format – on CD)	
*			Accessibility Building Code Certificate	
<u>-</u>			Certificate of Design	
			Certificate of Design Application	
			Landlord Letter of Authorization	
			General Building Permit Application	
			Application for Food Service Establishment	
2			Checks: Permit Fee & Health Department Review Fee (\$6,770 & \$555)	v Fee (\$6,770 & \$555)

Lannie,

\*Signed & Sealed

application for food service establishment - forwarded to you for review and approval of building permit energy code calcs, structural calcs, accessibility certificate, certificate of design application, certificate of design, a letter of authorization provided from the Landlord, building permit application and for the interior alteration of a new Trader Joe's store. Enclosed you will find one (1) set of signed & sealed construction drawings (and in pdf format on CD),

you! If you have any questions or require additional documentation, please do not hesitate to call. Thank

Lori Armstrong Administrative Assistant

PACKAGE OF 2

Cc: Trader Joe's: Kieran Stone (TO)

Transmitted as checked below:

Hetz	For Review and Comment	As requested	As Document	Y Sor Your Ilon	Tor Approximation Colow.
Hetzel_052302.doc	For Bids Due on	Returned for Corrections	Approved as Noted	Approved as Submitted	

Hetzel\_052302.goc Last printed 5/4/2010 11:04 AM

#### **Taylor Associates Architects**

#### TRANSMITTAL FORM

		•	
Fed-Ex	Via:	Lori Armstrong, Administrative Assistant	From:
05/04/10	Date:	Trader Joe's 87 Marginal Way, Portland, ME	R
		Attn: Lannie Dobson	
		F 207 874 8716	
		T 207 874 8693	
		Portland ME 04101	
		389 Congress Street	
		Building Department	
7972		City of Portland	ÿ
H-11111	***************************************		Ì

Signed & Sedien		
*Cinnal & Cooled	15mm45m950116ms4c/control	
Checke: Demit Fee & Health Denartment Review Fee (\$6.770 & \$555)		
Application for Food Service Establishment		A CONTRACTOR OF THE PROPERTY O
General Building Permit Application		- CONTROL OF THE PROPERTY OF T
Landlord Letter of Authorization		_
Certificate of Design Application		
Certificate of Design		
Accessibility Building Code Certificate		
Construction Drawings (pdf format – on CD)	Set	1 Сипент
Structural Calculatins	Set	1* Current
Energy Code Calculations	Set	1* Current
Construction Drawings	Set	1* Current
Description	No.	Copies Date

Lannie,

energy code calcs, structural calcs, accessibility certificate, certificate of design application, certificate of design, a letter of authorization provided from the Landlord, building permit application and application for food service establishment – forwarded to you for review and approval of building permit for the interior alteration of a new Trader Joe's store. Enclosed you will find one (1) set of signed & sealed construction drawings (and in pdf format on CD),

for the interior alteration of a new many formula for the interior alteration of a new many formula fo

Kieran Stone (TO)

ပ္ပ Transmitted as checked below: Trader Joe's:

	For Keview and Comment	As Requested	> 1 or 1 out ose	Y En Vois Inc	FOR Approval
Hetzel 052302 doc	For Bids Due on	Returned for Corrections	Approved as Noted	Approved as Submitted	

Last printed 5/4/2010 11:04 AM



# Accessibility Building Code Certificate

DEFFREY THYLOR, AIA

Designer:

Address of Project: 87 MARGINAL WAY PORTLAND, ME 20 <u>6</u>

Nature of Project: JOE'S RETAIL GROCERY

STORE IN EXISTING RETAIL SPACE.

ENANT NIERIOR REMODEL EXTERIOR ENTRY CANORY IMPROVEMENT TO からひ INCLUDE REMODEL 70

conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if designed in compliance with applicable referenced standards found in the Maine Human Rights applicable. Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must The technical submissions covering the proposed construction work as described above have been

Signature: NUL MAY 0 4 2010

Title: ARCHIECT

Firm: TAYLOR AS

(SEAL)

CHARLE

ARCHIT

Address: S72 N. BROADWAY

ASSOCIATES ARCHITECTS

WHITE PLAINS, NY. 10603

\*

TAYLOR

914-289-0011

Phone:

For more information or to download this form and other permit applications visit the hispections Division on our website at www.portlandmaine.gov W W



# Certificate of Design Application

JEFFREY TAYLOR, AIA

Date:

Job Name:

RADER APRIL 29 JOE'S - TENANT IMPROVEMENT 2010

Address of Construction:

87 MARGINAL WAY PORTLAND ME. 0410

### 2003 International Building Code

Construction project was designed to the building code criteria listed below:

Type of Construction

Building Code & Year 2003

18C

Use Group Classification (s) MERCANTLE

Basic wind speed (1809.1.1, 1809.6)  Basic wind speed (1809.3)  Building category and wind importance Factor, table 1604.5, 1609.5)  Wind exposure category (1609.4)  Internal pressure coefficient (ASCE: 7)  Component and cladding pressures (1609.1.1, 1609.6.2.2)  Earth design data (1603.1.5, 1614-1623)  Design option utilized (1614.1)  Seismic use group ("Category")  Spectral response coefficients, 3D&& 3D (1615.1)  Particular of the factor of th		Live load reduction	Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC YES  Is the Structure mixed use?  NO If yes, separated or non separated or non separated (section 302.3)  Supervisory alarm System?  YES Geotechnical/Soils report required? (See Section 1802.2)  NO
--	--	---------------------	--



#### Certificate of Design

Date: 29

2010

From:

These plans and / or specifications covering construction work on:

OE'S 87 MARGINAL

Engineer according to the 2003 International Building Code and local amendments. Have been designed and drawn up by the undersigned, a Maine registered Architect

Signature: MAY 04 2010

PASS IN THE PASS I Title:

CENSED

JEFFREY TAYLOR Address:

Firm:

TAYLOR

**X**-

ASSOCIATES ARCHITECTS

572 N. BROADWAY

289-0011

PLAINS

N.Y. 10603

Phone:

္ဌာ

THE WAR

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



### COMcheck Software Version 3.7.1

#### Interior Lighting and Power **Compliance Certificate**

#### 90.1 (2001) Standard

#### Section 1: Project Information

Project Type: New Construction
Project Title: Trader Joe's

87 Marginal Way Portland, ME 04101

Construction Site:

Owner/Agent:

Designer/Contractor:

#### Section 2: General Information

Building Use Description by: Activity Type

-	Common Space Types:Lobby	Common Space Types:Conference/Meeting/Multipurpose	Common Space Types:Electrical/Mechanical	Common Space Types:Corridor/Transition	Common Space Types:Restrooms	Common Space Types:Active Storage	Retail and Banking:General Retail Sales Area	Activity Type(s)
	180	242	522	242	238	4915	16840	Floor Area

### Section 3: Requirements Checklist

#### Interior Lighting:

42544	Allowed Watts	Total proposed watts must be less than or equal to total allowed watt
32870	Proposed Watts	e less than or equal to
YES	Complies	o total allowed watts.

#### Exterior Lighting:

- 2. Minimum efficacy of 60 lumen/watt for lamps greater than 100W.

  3. Lighting power for canonies and a second se
- Lighting power for canopies, entrances, and exits meets the following criteria (trade-offs allowed among these applications):
- (i) Lighting power for free-standing canopy areas or building entrances with canopies is less than or equal to 3 watts per square foot.
- (ii) Lighting power for building entrances without a canopy is less than or equal to 33 watts per linear foot of door width.
- (iii) Lighting power for building exits is less than or equal to 20 watts per linear foot of exit door width.
- □ 4. Lighting power for building facades is less than or equal to 0.25 watts per square foot of the illuminated area.

Controlled by motion sensor, signal or advertising signage, highlighting features of historic monuments and buildings, or required for

#### Controls, Switching, and Wiring:

Ø	Ç
6. Automatic shutoff control for lighting in >5000 sq.ft buildings by time-of-day device, occupant sensor, or other automatic control	independent manual or occupancy sensing controls for each space (remote switch with indicator allowed for safety or security).

24 hour operation lighting.

7
7
7
Ω
ø
4
ş
≦.
₫.
at entry to h
Φ
eg.
ځ
4
0
ž
ថ្ព
<u>o</u>
Ŧ
ಠ
/motel
딸
ō
est
=
700m
ĭ
_

**□** ∞ Separate control device for display/accent lighting, case lighting, task lighting, nonvisual lighting, lighting for sale, and demonstration one lighting. (10 (3)

Project Title: Trader Joe's Data filename: C:\Users\Owner\Documents\COMcheck\tjsft7972.cck

Lighting Designer or Contractor Name	Record Drawings and Operating and Maintenance Manuals:  1. Construction documents with record drawings and operating and maintenance manuals provided to the owner.	Section 5: Post Construction Compliance Statement	Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 90.1 (2001) Standard requirements in COMcheck Version 3.7.1 and to comply with the mandalory requirements in the Requirements Checklist.  Our Penn, Penn	Section 4: Compliance Statement	Voltage Drop:  ☐ 11.Feeder conductors have been designed for a maximum voltage drop of 2 percent. ☐ 12.Branch circuit conductors have been designed for a maximum voltage drop of 3 percent.	Recessed luminaires 10 ft. apart or surface/pendant not continuous;  Luminaires on emergency circuits.	Luminaires not on same switch;	Electronic high-frequency ballasts;	Covered vehicle entrance/exit areas requiring lighting for safety, security and eye adaptation.  10. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).  Exceptions:	<ul><li>9. Photocell/astronomical time switch on exterior lights. Exceptions:</li></ul>
Signature	ance Manuals:  ng and maintenance manuals provided to	e Statement	onsed lighting system has been designed mandalory requirements in the Requirement in the Requirements in t		oltage drop of 2 percent. num voltage drop of 3 percent.	ot continuous;			for safety, security and eye adaptation. res (No single-lamp ballasts).	
Date	the owner.		building plans, specifications and to meet the 90.1 (2001) Standard nents Checklist.  APR 3 0 2010  Date			NO SEC.	DONALD MAIN	NO MAIN	NATE OF MALE	

Project Title: Trader Joe's

Data filename: C:\Users\Owner\Documents\COMcheck\tjsft7972.cck



## COMcheck Software Version 3.7.1

#### Worksheet Interior Lighting Application

90.1 (2001) Standard

## Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed	D Allowed Watts
Retail and Banking:General Retail Sales Area	16840	21	35364
Common Space Types: Active Storage	4915	* [	5407
Common Space Types:Restrooms	3 6	. Ξ	0407
	700		238
Condition Space Types:Comgot/Transition	242	0.7	169
Common Space Types:Electrical/Mechanical	522	<u>.</u>	670
Common Space Types:Conference/Meeting/Multipurpose	242	ъ. Л	٥ <u>-</u>
Common Space Types:Lobby	180	<b>→</b> :	3 0
		otal Allowed Water	ı
	_	lotal Allowed Watts =	42544

## Section 2: Proposed Lighting Power Calculation

	ץ ו	3)	_	G. C. Pin OCAN / Electional
				Compact Fluorescent 1; GF; CF Downlight / Triple 4-nin 30W / Flootronic
ধ্য	54	-	2	Common Space Types:Lobby (180 sq.ft.)
486	82	တ	ω	Linear Fluorescent 9: D: 4 ft, Fluorescent / 48" T8 32W (Super T8) / Electronic
				Linear Shace Types:Conference/Meeting/Multipurpose (242 sq.ft.)
243	27	ဖ	-	Linear Fluorescent 7: E. Fluorescent Strip / 48" T8 32W (Super T8) / Electronic
				Common Space Types:Electrical/Mechanical/(522 sq.ft.)
1 2	27	i 4	<b>-</b>	Linear Fluorescent 6: E: Fluorescent Strip / 48" T8 32W (Super T8) / Electronic
	2	N	N	Linear Fluorescent 5: D: 4 ft. Fluorescent / 48" T8 32W (Super T8) / Electronic
1				Common Space Types:Corridor/Transition (242 sq.ft.)
216	73	4	2	Linear Fluorescent 4: D: 4 ft. Fluorescent / 48" T8 32W (Super T8) / Electronic
				Common Space Types:Restrooms (238 sq.ft)
§ ;	<b>1</b> 00	ဖ	_	Incandescent 1: Q: Vapor Proof Inc / Incandescent 100W
945	27	သ္ဟ		Linear Fluorescent 3: E: Fluorescent Strip / 48" T8 32W (Super T8) / Electronic
				Common Space Types:Active Storage (4915 sq.ft.)
21168	196	108	တ	Linear Fluorescent 2: F: 12 ft Direct/Indirect / 48" T8 32W (Super T8) / Electronic
8432	248	4	ω	Linear Fluorescent 1: R: 8 ft, Direct/Indirect / 48" T8 32W (Super T8) / Electronic
				Retail and Banking:General Retail Sales Area (16840 sq.ft.)
3	Watt.	Fixtures		
S S S	Fixture	啡 오, '	Lamps/	Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast
_	J	ဂ	œ	! 

### Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts =
Total Proposed Watts =
Project Compliance =

Interior Lighting DASSES ⊅esign 25% bette utjan code

Project Title: Trader Joe's Data filename: C:\Users\Ownen\Documents\COMcheck\tjsft7972.cck



## COMcheck Software Version 3.7.1

#### Mechanical Compliance Certificate

#### 90.1 (2001) Standard

### Section 1: Project Information

Project Type: New Construction

Project Title: Trader Joe's

Construction Site:

87 Marginal Way Portland, ME 04101

Designer/Contractor:

Owner/Agent:

### Section 2: General Information

Building Location (for weather data):
Heating Degree Days (base 65 degrees F):
Cooling Degree Days (base 50 degrees F): Portland, Maine 7378

Section 3: Mechanical Systems List

#### Quantity System Type & Description

- HVAC System 1: Heating: Central Furnace, Gas, Capacity 168 kBtu/h / Cooling: Rooftop Package Unit, Capacity 126 kBtu/h, Air-Cooled Condenser / Single Zone
- Water Heater 1: Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump

## Section 4: Requirements Checklist

### Requirements Specific To: HVAC System 1:

- Equipment minimum efficiency: Central Furnace (Gas): 80.0 % Et (or 78% AFUE)
- Equipment minimum efficiency: Rooftop Package Unit: 10.1 EER
- Integrated air economizer required

### Requirements Specific To: Water Heater 1:

- Electric Water Heater efficiency: 0.9 EF (267 SL, Btu/h (if > 12 kW))
- All piping in circulating system insulated
  - Hot water storage temperature adjustable down to 120 degrees F or lower
  - Automatic time control of heat tapes and recirculating systems present
- Ċη Controls will shut off operation of circulating pump between water heater/boiler and storage tanks within 5 minutes after end of heating
- တ Hot water system sized per manufacturer's sizing guide or engineering standards acceptable to the adopting authority

# Generic Requirements: Must be met by all systems to which the requirement is applicable:

- Load calculations per ASHRAE Fundamentals
- 'n Automatic Controls: Setback to 55 degrees F (heat) and 85 degrees F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
- Exception: Continuously operating zones
- Exception: Residential occupancies may use controls that can start and stop the system under two different time schedules per
- Hot water pipe insulation: 1 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in. Chilled water/refrigerant/brine pipe insulation: 1 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in. Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
- Exception: Piping within HVAC equipment.
- Exception: Fluid temperatures between 60 and 105 degrees F

Principal Mechanical Designer-Name Signature	<ul> <li>HVAC record drawings of the actual installation and performance data for each equipment provided to the owner within 90 days system acceptance.</li> <li>HVAC 0&amp;M documents for all mechanical equipment and system provided to the owner within 90 days after system acceptance.</li> <li>Written HVAC balancing report provided to the owner.</li> </ul> The above post construction requirements have been completed.	Ø O	Name - Title Signature	Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to mechalic and other calculations submitted with this permit application. The proposed mechanical systems have been designed to mechalic application. Standard requirements in COMaheck Version 3.7.1 and to comply with the mandatury requirements in the Requirements Checklist.	Section 5: Compliance Statement	☐ 19. Buildings with fume hood systems must have variable air volume hood design, exhaust heat recovery, or segarate make @@Altaupyly meeting the following: a) 75% make up air quantity, and /or b) within 2 degrees F of room temperature and a to humidification d) no simultaneous heating and cooling  PENNI	□ 15. Humidistat controls prevent reheating, recooling, and mixing of mechanically heated air with mechanically cooled air □ 17. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically bkethology □ 18. Kitchen hoods >5,000 cfm provided with 50% makeup air that is uncooled and heated to no more than 60 degrees the system of the exempted	Exception: Gravity (non-motorized) dampers are acceptable in cfm or less.	<ul> <li>15.Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings</li> <li>Exception: Gravity dampers acceptable in buildings &lt;3 stories</li> </ul>		<ul> <li>□ 11.Automatic ventilation controls (e.g., CO2 controls) or exhaust air heat recovery present for high design occupancy areas (&gt;100 person/1000 ft2) with &gt;3,000 cfm outside air capacities</li> <li>□ 12.Duct, plenum, and piping insulation surfaces suitably protected from weather, moisture, or likely damage</li> </ul>	<ul> <li>Exception: Desiccant systems and systems for uses requiring specific humidity levels (approval required)</li> <li>10.Automatic controls for freeze protection systems present</li> </ul>	<ul> <li>Stair and elevator shaft vents are equipped with motorized dampers</li> <li>Acceptable measures used to prevent simultaneous humidification and dehumidification</li> </ul>		<ul> <li>Exception: Special occupancy or special applications where wanthority having jurisdiction</li> </ul>		<ul> <li>4. Piping, insulated to 1/2 in. if nominal diameter of pipe is &lt;1.5 in.; Larger pipe insulated to 1 in. thickness</li> <li>5. Lavatory faucet outlet temperatures in public restrooms limited to 110 degrees F (43 degrees C)</li> <li>6. Thermostatic controls have 5 degrees F deadband</li> </ul>
Date	HVAC record drawings of the actual installation and performance data for each equipment provided to the owner within 90 days after system acceptance. HVAC O&M documents for all mechanical equipment and system provided to the owner within 90 days after system acceptance. Written HVAC balancing report provided to the owner.	ice Statement	APR 3 0 2010 Date	this document is consistent with the building plans (Consistent with the building plans (Consistent with the building plans (Consistent with the building plans (2001) and mechanical systems have been designed to mechtid \$0.1 (2001) and mandatory requirements in the Requirements Checklist.	×	nood design, exhaust heat recovery, or segarate mak@@Atraugnly nin 2 degrees F of room temperature and@r_c) to humidification d) no	schanically heated air with mechanically cooled air rer with more than 70% outside air fraction or specifically ekeinpted nocoled and heated to no more than 60 degrees of the specifically nocoled and heated to no more than 60 degrees of the specifical nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and heated to no more than 60 degrees of the specific and nocoled and nocole	Exception: Gravity (non-motorized) dampers are acceptable in systems with a design outside air intake or exhaust capacity of 300 cfm or less.	ıtdoor air supply openings	ly and return air ducts outside the building R-8 insulation between ssembly R-3.5 supply and return air ducts insulation underground y sealant, b) longitudinal and transverse seams for ducts in duct wall penetrations for ducts outside the building, d) transverse	neat recovery present for high design occupancy areas (>100)  m weather, moisture, or likely damage	specific humidity levels (approval required)	ers n and dehumidification	Where separate thermostats are used for heating and cooling, acceptable measures are used to prevent simultaneous heating and cooling	Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction	n heating and cooling	Larger pipe insulated to 1 in. thickness 110 degrees F (43 degrees C)

Exception: Fluid not heated or cooled. Exception: Runouts <4 ft in length.



## COMcheck Software Version 3.7.1

# Mechanical Requirements Description

#### 90.1 (2001) Standard

The following list provides more detailed descriptions of the requirements in Section 4 of the Mechanical Compliance

### Requirements Specific To: HVAC System 1:

- 1. The specified heating and/or cooling equipment is covered by the ASHRAE 90.1-2001 Standard and must meet the following minimum efficiency: Central Furnace (Gas): 80.0 % Et (or 78% AFUE)
- efficiency: Rooftop Package Unit: 10.1 EER The specified heating and/or cooling equipment is covered by ASHRAE 90.1-2001 Standard and must meet the following minimum
- An integrated air economizer is required for individual cooling systems over 65 kBtu/h in the selected project location. An integrated economizer allows simultaneous operation of outdoor-air and mechanical cooling.

### Requirements Specific To: Water Heater 1:

- Service water heating equipment used solely for heating potable water, pool heaters, and hot water storage tanks must meet the following miniumum efficiency: Electric Water Heater efficiency: 0.9 EF (267 SL, Btu/h (if > 12 kW))
- Insulation must be provided for recirculating system piping, including the supply and return piping of a circulating tank type water heater,
- Temperature controls must be provided that allow for storage temperature adjustment from 120 degrees F or lower to a maximum be exempted from this requirement. thermostat setting to minimize condensation and resulting corrosion. Documentation of the installation instructions must be provided to temperature compatible with the intended use except when the manufacturer's installation instructions specify a higher minimum
- Systems designed to maintain usage temperatures in hot water pipes, such as recirculating hot water systems or heat trace, must extended periods when hot water is not required. be equipped with automatic time switches or other controls that can be set to switch off the temperature maintenance system during
- When used to maintain storage tank water temperature, recirculating pumps must be equipped with controls limiting operation to the start of the heating cycle to a maximum of 5 minutes after the end of the heating cycle.
- Service water heating system design loads for the purpose of sizing systems and equipment must be determined in accordance with authority (e.g., ASHRAE Handbook - HVAC Applications). manufacturers' published sizing guidelines or generally accepted engineering standards and handbooks acceptable to the adopting

# Generic Requirements: Must be met by all systems to which the requirement is applicable:

- 1. Design heating and cooling loads for the building must be determined using procedures in the ASHRAE Handbook of Fundamentals or an approved equivalent calculation procedure.
- The system or zone control must be a programmable thermostat or other automatic control meeting the following criteria: a) capable override, d) have a battery back-up capable of maintaining programmed settings for at least 10 hours without power. setting back or shutting down systems during unoccupied hours using 7 different day schedules, c) have an accessible 2-hour occupant of setting back temperature to 55 degrees F during heating and setting up to 85 degrees F during cooling, b) capable of automatically
- Exception: A setback or shutoff control is not required on thermostats that control systems serving areas that operate continuously.
- Exception: Residential occupancies may use controls that can start and stop the system under two different time schedules per week
- All pipes serving space-conditioning systems must be insulated as follows: Hot water piping for heating systems: 1 in. for pipes <=1 for pipes <=1 1/2-in, nominal diameter, 1 1/2 in, insulation for pipes >1 1/2-in, nominal diameter, Steam piping: 1 1/2 in, insulation for pipes <=1 1/2-in. nominal diameter, 3 in. insulation for pipes >1 1/2-in. nominal diameter. 1/2-in. nominal diameter, 2 in. for pipes >1 1/2-in. nominal diameter. Chilled water, refrigerant, and brine piping systems: 1 in. insulation
- Exception: Factory-installed piping within HVAC equipment.
- Exception: Piping that conveys fluids having a design operating temperature range between 60 degrees F and 105 degrees F
- Exception: Piping that conveys fluids that have not been heated or cooled through the use of nonrenewable energy
- Exception: Runout piping not exceeding 4 ft in length between shutoff valve and coil and 1 in. in diameter between the control valve
- Exception: Pipe unions in heating systems.
- 4. Service hot water piping, where required, must be insulated to 1/2 in. if pipe less than 1.5 in. nominal diameter. Larger pipe must be insulated to 1 in.. Pipe insulation will have a conductivity of less than 0.28 Btu.in/(h-ft2-degrees F).
- Temperature controlling means must be provided to limit the maximum temperature of water delivered from lavatory faucets in public facility restrooms to 110 degrees F.
- Thermostats controlling both heating and cooling must be capable of maintaining a 5 degrees F deadband (a range of temperature where no heating or cooling is provided).

- Exception: Deadband capability is not required if the thermostat does not have automatic changeover capability between heating and
- Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
- DDC systems, software programming) must be provided to prevent simultaneous heating and cooling to the zone. Where zone heating and cooling are controlled by separate zone thermostats, means (such as limit switches, mechanical stops, or, for
- vents, and ventilators must be equipped with motorized dampers that will automatically shut when the spaces served are not in use. operation and interlocked to open as required by fire and smoke detection systems. All gravity outdoor air supply and exhaust hoods, Stair and elevator shaft vents must be equipped with motorized dampers capable of being automatically closed during normal building
- Exception: Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height above grade
- Exception: Ventilation systems serving unconditioned spaces.
- 9. Where a zone is served by a system(s) with both humidification and dehumidification capability, means (such as limit switches, mechanical stops, or software programming) must be provided to prevent simultaneous operation of humidification and dehumidification
- humidity levels are required Exception: Zones served by desiccant systems, used with direct evaporative cooling in series; Systems serving zones where specific
- ġ All freeze protection systems, including self-regulating heat tracing, must include automatic controls capable of shutting off the systems above 40 degrees F ice-melting systems must include automatic controls capable of shutting off the systems when the pavement temperature is above 50 when outside air temperatures are above 40 degrees F or when the conditions of the protected fluid will prevent freezing. Snow- and and no precipitation is falling, and an automatic or manual control that will allow shutoff when the outdoor temperature is
- per 1000 ft2 must include means to automatically reduce outside air intake below design rates when spaces are partially occupied Systems with design outside air capacities >3,000 cfm serving areas having an average design occupancy density exceeding 100 people Ventilation controls must be in compliance with ASHRAE Standard 62 and local standards.
- Ñ suction piping, or cooling ducts located outside the conditioned space must include a vapor retardant located outside the insulation Duct and pipe insulation exposed to weather must be suitable for outdoor service; e.g., protected by aluminum, sheet metal, painted (unless the insulation is inherently vapor retardant), all penetrations and joints of which must be sealed provides shielding from solar radiation that can cause degradation of the material. Insulation covering chilled water piping, refrigerant canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and
- ಘ R-6 supply and return air ducts in unconditioned spaces R-8 supply and return air ducts outside the building R-8 insulation between ducts and the building exterior when ducts are part of a building assembly R-3.5 supply and return air ducts insulation underground
- 7 Duct Sealing Requirements: a) Pressure sensitive tape prohibited as the primary sealant, b) Longitudinal and transverse seams for ducts seams on buried ducts in unconditioned spaces, c) Longitudinal and transverse seams and duct wall penetrations for ducts outside the building, d) Transverse
- 5 outdoor air supply and exhaust air dampers must have a maximum leakage rate of 4 cfm/ft2 at 1.0 in. w.g. when tested in accordance except when ventilation reduces energy costs (e.g., night purge) or when ventilation must be supplied to meet code requirements. Both Outdoor air supply and exhaust systems must have motorized dampers that automatically shut when the systems or spaces served with AMCA Standard 500. are not in use. Dampers must be capable of automatically shutting off during preoccupancy building warm-up, cool-down, and setback,
- Exception: Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height.
- cfm (140 L/s) or less. Exception: Gravity (non-motorized) dampers are acceptable in systems with a design outside air intake or exhaust capacity of 300
- 16. Where humidistatic controls are provided, such controls must prevent reheating, mixing of hot and cold air streams, or other means of simultaneous heating and cooling of the same air stream.
- Exception: Capability to first reduce flow rate.
- Exception: Cooling capacity <80 kBtu/h and capability to unload cooling equipment.
- Exception: Cooling capacity <40 kBtu/h.
- Exception: Rigid humidity requirements.
- Exception: Site-recovered or site-solar energy sources or
- Exception: Use of a desiccant systems.
- 17. Individual fan systems with a design supply air capacity of 5000 cfm or greater and minimum outside air supply of 70% or greater of the recovery must be bypassed or controlled to permit air economizer operation. supply air capacity must have an energy recovery system with at least a 50% effectiveness. If an air economizer is also required, heat
- Exception: Laboratory fume hood systems with a total exhaust rate of 15,000 cfm or less
- Exception: Systems serving spaces that are not cooled and heated to <60 degrees F
- Exception: Systems with more than 60% of the outdoor heating energy is provided from site-recovered or site solar energy.
- Exception: Cooling systems in climates with a 1% cooling design wet-bulb temperature less than 64 degrees F
- Individual kitchen exhaust hoods larger than 5000 cfm must be provided with make-up air sized for at least 50% of exhaust air volume that is uncooled and either unheated or heated to no more than 60 degrees F

- Exception: Where hoods are used to exhaust ventilation air that would otherwise exfiltrate or be exhausted by other fan systems.
- Exception: Certified grease extractor hoods that require a face velocity no >60 fpm.

  19. Buildings with fume hood systems having a total exhaust rate >15,000 cfm must either have variable air volume hood design, exhaust air heat recovery, or separate make up air supply meeting the following makeup air requirements: a) at least 75% of exhaust flow rate, b) heated to no more than 2 degrees F below room setpoint temperature, c) cooled to no lower than 2 degrees F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling

#### & ASSOCIATES BARRYLEVIN

STRUCTURAL ENGINEERS
370 Campus Drive
Suite 101 Somerset, NJ 08873
Phone: 732-302-0300 Facsimile: 732-302-1020



#### TRADER JOE'S

87 Marginal Way Portland, Maine

## STRUCTURAL CALCULATIONS

Applicable Structural Code: IBC 2003 Edition

TAYLOR ASSOCIATES NO. FT-7972 BLA PROJECT NO. 2010-709



A CONTRACTOR Dept. of Building Inspections 10 330



#### STRUCTURAL ENGINEERS

Atlanta • Los Angeles • New York • Chicago

370 Campus Drive • Suite 101 • Somerset New Jersey 08873
Phone 732.302.0300 • Fax 732.302.1020 • www.BarryLevin.com

2000	JOB NAME
なっているが	TJ Fortland, Me

CHECKED BY. COMPUTED BY\_ DATE\_ JOB NO. SHEET NO. 3/31/10 1350

Wind loads ASCE 7-05,

5 >.(Fg6.1) 100 mph

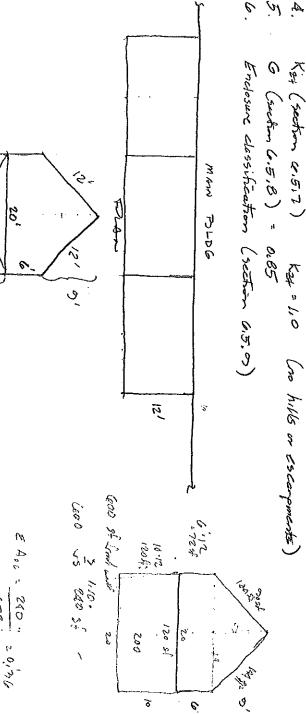
(Table 6-4) = 0.85

'n io Exposure Cotegory! 6.5,6.2 H (Suchun 6.5.5); Occupancy Cotagony (Table 1.1) = II, I = (Table 6.1) = 1.00 Furface Roughess B 3-15 3°0°58 Taske 6-3 0.85

6.5,6.3 Exposur B C+47

Exposure C ( north & west sectors) use for canopies

A. W. (suchu 6.5,8) 0,85



ò

120.05

0 .12 = 775E

672

Bloke, Open A. > O.B Ag

PLANA TO

Z

Ö.

077

... Bulg, Partially Enclosed 12'-10'-2 -10'-20' . U 600 st 240 sf. } 600 > 1.10.240 = 264 sf /

'n Ag = (16'-12')2+ (12'-12')2·3+[16·20'+90ff]3 240/2018 = 0.10 < 0.20 Geo x > 45f + 864 + 1290 H = 2478 Ar bldg world

by lode, Canapus considered "particly enclosed"



#### STRUCTURAL ENGINEERS

Atlanta • Los Angeles • New York • Chicago

370 Campus Drive • Suite 101 • Somerset, New Jersey 08873
Phone 732.302.0300 • Fax 732.302.1020 • www.BarryLevin.com

SHEET NO.

	JOB NO.
ナナナー	DATE 3/31/10, Alilio
that I was some	COMPUTED BY 750
twind The same ( weth a wet	CHECKED BY
Cp: (Section 6.5.11.1) Fig. 6-5 = +0,55, -0,55	Cr.

JOB NAME
SUBJECT\_

Ċo

(6.5.11.2.1) Cp HWERS

end for

Fig. 6-6 Gold Ray

( Section 6,5,11,2)

Fig 6-10

presence coefficients

(6.5.11.2,2)

0,0

F. C. 13

e, Velocity pressure (section 6.5,10) 0.00256 · Kz · Kt · Kd · V · I 0.00256 · Kz · 1.0 · 0.85 · (100)2 - 1.0 21.8 psf . Kz

6.5.12,4 CEC 17. 6-10 upliff on rooting decking , o Answardung 21.8(0.94) 9 P = 8/ [(GCP) - (GCPU)] PSF 20.5 0.04.20 0,10. 0.45 = 5' A CONTROLS [-2,5-(0,55)] = 62,5 psf < 5,000 load = 100 psf 0.8 0.4( 10.0% = 6.0% A use smaller

u) 0=33° Jul (2) 66=+1.0; -2.5 timber beams

Meetine once 6.10' = 60 st interior

frag un 0 (b) +0.9, -1,95 4.1-, 6.0+ eng values + 0.5, +1.7

lord on timber beam 0.60+W = 0.6 (12+2.5) - Alegst = 37,3 (stupletted) = 0.6 (12+2.5) - Alegst



#### STRUCTURAL ENGINEERS

Atlanta • Los Angeles • New York • Chicago

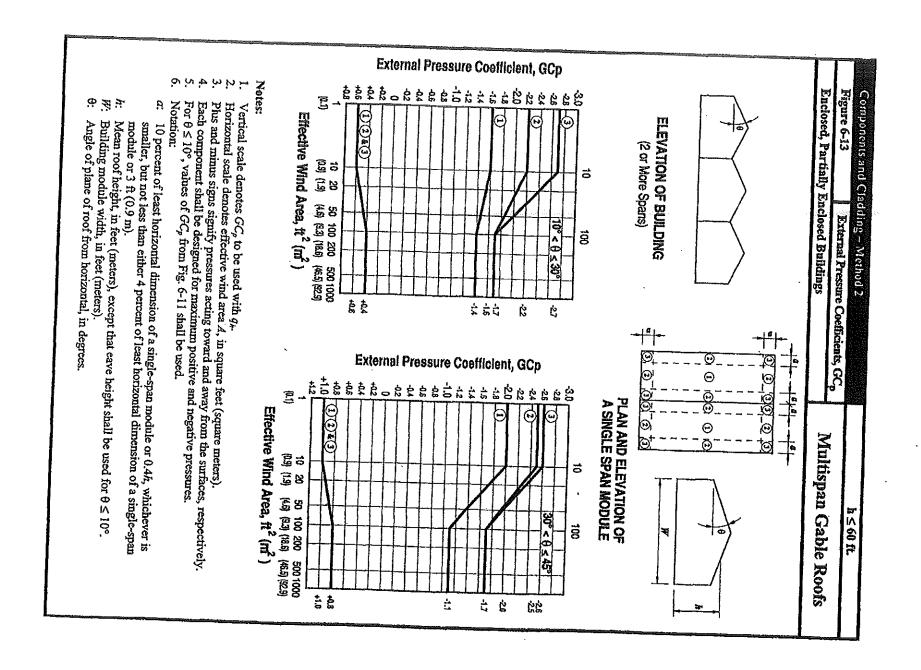
370 Campus Drive • Suite 101 • Somerset, New Jersey 08873
Phone 732.302.0300 • Fax 732.302.1020 • www.BarryLevin.com

SUBJECT Front Conopies

Wind Uplift on Structure

posts (ridge): Avec. 20.13 = 60sf

SHEET NO.
JOB NO.
DATE_4/1/10
COMPUTED BY 1250
CHECKED BY





#### STRUCTURAL ENGINEERS

Atlanta • Los Angeles • New York • Chicago

370 Campus Drive • Suite 101 • Somerset, New Jersey 08873
Phone 732.302.0300 • Fax 732.302.1020 • www.BarryLevin.com

SUBJECT\_ JOB NAME\_ wind Portland, ME

m Conopin

DATE\_ JOB NO. COMPUTED BY 1550 CHECKED BY. SHEET NO. 4/8/10

6.5.12,2 てスシアスの

0.5,12.2.2

b = & [(ect)-(ect)]

imean roof height = GCff [Fg. 6-10]

M -0.43 -0,37 0,40 0.61

> a = .10-12' = 1.2' 6 = 3/ -04(00') = 0.8 2.0=6' U, 0.4h = 0.4(e1')= 8.4'

GCBI (Fig 6-5) +0,55) -0,55

= 15.8 psf

Kn = 0.031 (Table 6-3)

P = 17.8 [(GCPF) - (-0.55, +0.55)]

1.21 - [10,0] 9.61 = - 15,3

*7* <u>n</u> 0 = 19.8[-0.37] = 7.3. - 20.6 e ends

E AF -17.8 [-0.47] - 6.5

Rem = 10'(37164)+
14-10(120-37)·2·16 = 370 16 + 46016 - 83016 an diaphregm wind bood - use Cofst + ricke Romo : 870-2 - 1660 (b) 8

> Wridge wind blowing to blild

Jeps 2

My 121 / 125 + 183. 9. 07. 121 / 121 Wieslay = .6' wind blowing and from blight = 16 . 8.5 = 26 164 ありい = 55 + 79 .

Resp = 10'(2014)+ - 12'(10')(119-12)-2-12

Rmm =705.0= 145016

611

44,621

1981 July 7