



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.

Address/Location of Construction: 35 Bedford Street (Woodbury Campus Center)		
Total Square Footage of Proposed Structure: 1,421 sf on roof of existing structure		
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Applicant Name: University of Southern Maine Address 25 Bedford St. City, State & Zip Portland, ME 04104	Telephone: 228-8124 Email: cpotter@usm.maine.edu
Lessee/Owner Name : (if different than applicant) Address: City, State & Zip: Telephone E-mail:	Contractor Name: to be determined (if different from Applicant) Address: City, State & Zip: Telephone E-mail:	Cost Of Work: \$ 100,000.00 C of O Fee: \$ _____ Historic Rev \$ _____ Total Fees : \$ 1,114.00
Current use (i.e. single family) <u>Assembly, Mercantile</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>No change of use</u> Is property part of a subdivision? <u>no</u> If yes, please name _____ Project description: Installation of photovoltaic array on roof of Woodbury Campus Center including structural steel grillage support system.		
Who should we contact when the permit is ready: Carol Potter		
Address: 25 Bedford Street		
City, State & Zip: Portland, ME 04104		
E-mail Address: cpotter@usm.maine.edu		
Telephone: 228-8124		

Please submit all of the information outlined on the applicable checklist. Failure to do so causes an automatic permit denial.

In order to be sure the City fully understands the full scope of the project, the Planning 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.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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

Signature: <u>Carol Potter</u>	Date: <u>9-18-14</u>
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This is not a permit; you may not commence ANY work until the permit is issued.



Certificate of Design Application

From Designer: Harriman
 Date: 09-15-14
 Job Name: University of Southern Maine - Woodbury Campus Center-Phase II PV Array
 Address of Construction: Bedford Street; Portland, Maine

2009 International Building Code

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

Building Code & Year IBC 2009 Use Group Classification (s) ~~400,000.00~~ MIXED ASSEMBLY A3, MERCANTILE M
 Type of Construction Steel Frame
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC N/A
 Is the Structure mixed use? Yes If yes, separated or non separated or non separated (section 302.3) Separated
 Supervisory alarm System? Yes Geotechnical/Soils report required? (See Section 1802.2) No

Structural Design Calculations

N/A Submitted for all structural members (106.1 – 106.11)

Design Loads on Construction Documents (1603)

Floor Area Use	Loads Shown

Wind loads (1603.1.4, 1609)

Analytical Design option utilized (1609.1.1, 1609.6)
100 mph Basic wind speed (1809.3)
Cat II; I=1.0 Building category and wind importance Factor, I_w , table 1604.5, 1609.5)
C Wind exposure category (1609.4)
+/- 0.18 Internal pressure coefficient (ASCE 7)
Varies Component and cladding pressures (1609.1.1, 1609.6.2.2)
N/A Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

 Design option utilized (1614.1)
Cat. II Seismic use group ("Category")
0.326; 0.123 Spectral response coefficients, S_D & S_I (1615.1)
D (assumed) Site class (1615.1.5)

N/A Live load reduction
N/A Roof live loads (1603.1.2, 1607.11)
Yes Roof snow loads (1603.7.3, 1608)
60 psf Ground snow load, P_g (1608.2)
42 psf If $P_g > 10$ psf, flat-roof snow load P_f
1.0 If $P_g > 10$ psf, snow exposure factor, C_e
1.0 If $P_g > 10$ psf, snow load importance factor, I_s
1.0 Roof thermal factor, C_t (1608.4)
N/A Sloped roof snowload, P_s (1608.4)
C Seismic design category (1616.3)

Concentric braced frames Basic seismic force resisting system (1617.6.2)
3.0 Response modification coefficient, R , and deflection amplification factor C_d (1617.6.2)
Equiv. lateral force Analysis procedure (1616.6, 1617.5)
0.10W Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

N/A Flood Hazard area (1612.3)
 Elevation of structure

Other loads

 Concentrated loads (1607.4)
 Partition loads (1607.5)
PV Panels Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



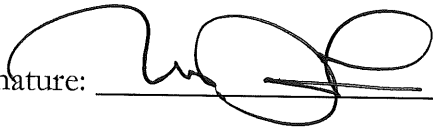
Accessibility Building Code Certificate

Designer: MARK D LEE, AIA HARRIMAN

Address of Project: 35 BEDFORD STREET

Nature of Project: ROOF TOP INSTALLATION OF SOLAR
PV ARRAY - NO ADA SCOPE OF
WORK

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

Signature: 

Title: PRINCIPAL

Firm: HARRIMAN

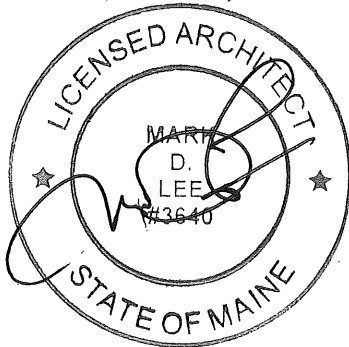
Address: 46 HARRIMAN DRIVE

AUBURN, ME 04210

Phone: 207-784-5100

E-mail: mlee@harriman.com

(SEAL)



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



Certificate of Design

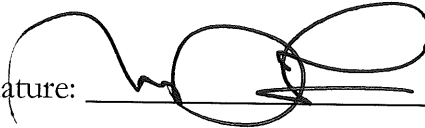
Date: SEPTEMBER 18, 2014

From: MARK D LEE, AIA HARRIMAN

These plans and / or specifications covering construction work on:

USM WOODBURY CAMPUS CENTER - PHASE II PV
SOLAR ARRAY

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2009 International Building Code** and local amendments.

Signature: 

Title: PRINCIPAL

Firm: HARRIMAN

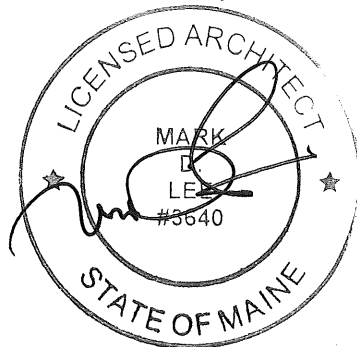
Address: 46 HARRIMAN DR

AUBURN, ME 04210

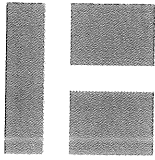
Phone: 207-784-5100

E-mail: mlee@harriman.com

(SEAL)



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HARRIMAN

September 18, 2014

**City of Portland General Building Permit Application
Fire Department Requirements**

Name of Applicant:

University of Southern Maine
Adam Thibodeau, Director of Engineering and Architectural Services
25 Bedford Street, Portland, ME 04104

Name of Architect:

Mark D. Lee., AIA
Harriman
46 Harriman Drive
Auburn, ME 04210

Proposed use of structure:

Existing Mixed Use – College Student Center and Bookstore, no change of use
Assembly (21, 590 SF)
Mercantile (5,925)

Square footage of proposed structure (total and per story):

Existing structure, no proposed renovations to the structure. Work involves installation of a rooftop Solar PV Array.

First Floor 27,515 SF

Existing and proposed fire protection of structure:

Existing supervised automatic sprinkler system in accordance with NFPA 13.3.5 and 9.7
Existing fire alarm system