Certificate of Design Application

From Designer: Ryan Senatore Architecture

Date: 10/03/16

Job Name: Interior Fit-up for a Cafe at the Lafayette Building

Address of Construction: 130 Park 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) Business

Type of Construction 3B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC Yes

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) NA

Structural Design Calculations

- Submitted for all structural members (106.1 – 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
commercial	100

Wind loads (1603.1.4, 1609)

na -existing Design option utilized (1609.1.1, 1609.6)

na Basic wind speed (1809.3)

na Building category and wind importance Factor, I_w table 1604.5, 1609.5)

na Wind exposure category (1609.4)

na Internal pressure coefficient (ASCE 7)

na Component and cladding pressures (1609.1.1, 1609.6.2.2)

na Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

na -existing Design option utilized (1614.1)

na Seismic use group ("Category")

na Spectral response coefficients, SDs & SD1 (1615.1)

na Site class (1615.1.5)

na-existing Live load reduction

na Roof *live* loads (1603.1.2, 1607.11)

na Roof snow loads (1603.7.3, 1608)

na Ground snow load, P_g (1608.2)

na If P_g > 10 psf, flat-roof snow load P_f

na If P_g > 10 psf, snow exposure factor, C_e

na If P_g > 10 psf, snow load importance factor, I_s

na Roof thermal factor, C_t (1608.4)

na Sloped roof snowload, P_s (1608.4)

na Seismic design category (1616.3)

na Basic seismic force resisting system (1617.6.2)

na Response modification coefficient, R_I and deflection amplification factor C_d (1617.6.2)

na Analysis procedure (1616.6, 1617.5)

na Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

na Flood Hazard area (1612.3)

Elevation of structure

Other loads

Concentrated loads (1607.4)

Partition loads (1607.5)

Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404