# Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
08/17/15

From Designer: 2A ARCHITECTS, AMANDA R. AUSTIN Date:

Date: 6/10/15

Job Name: 767 CONGRESS RENOVATION

Address of Construction: 767 CONGRESS ST. PORTLAND, ME 04112

## 2009 International Building Code

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

Building Code & Year IBC 2009 NFPA 101 2009 Use Group Classification (s) III-A (IBC), III (NFPA)

Type of Construction LOAD BEARING MASONRY EXTERIOR, WOOD FRAME INTERIOR

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC EXISTING

Is the Structure mixed use? YES If yes, separated or non separated or non separated (section 302.3) SEPARATED

Supervisory alarm System? YES (EXISTING) Geotechnical/Soils report required? (See Section 1802.2) _____

**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 |
|---|---|
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**Wind loads (1603.1.4, 1609)**

_____ Design option utilized (1609.1.1, 1609.6)

_____ Basic wind speed (1809.3)

_____ Building category and wind importance Factor, $I_w$ 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)

_____ Main force wind pressures (7603.1.1, 1609.6.2.1)

**Earth design data (1603.1.5, 1614-1623)**

_____ Design option utilized (1614.1)

_____ Seismic use group ("Category")

_____ Spectral response coefficients, SDs & SD1 (1615.1)

_____ Site class (1615.1.5)

_____ Live load reduction

_____ Roof live loads (1603.1.2, 1607.11)

_____ Roof snow loads (1603.7.3, 1608)

_____ Ground snow load, Pg (1608.2)

_____ If Pg> 10 psf, flat-roof snow load $P_f$

_____ If Pg> 10 psf, snow exposure factor, $C_e$

_____ If Pg> 10 psf, snow load importance factor, $I_s$

_____ Roof thermal factor, $C_t$ (1608.4)

_____ Sloped roof snowload, $P_s$ (1608.4)

_____ Seismic design category (1616.3)

_____ Basic seismic force resisting system (1617.6.2)

_____ Response modification coefficient, $R_l$ and deflection amplification factor $C_d$ (1617.6.2)

_____ Analysis procedure (1616.6, 1617.5)

_____ Design base shear (1617.4, 16175.5.1)

**Flood loads (1803.1.6, 1612)**

_____ 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

NOTE: PROJECT DOES NOT INCLUDE STRUCTURAL MODIFICATIONS TO EXISTING BUILDING