



Certificate of Design Application

From Designer: SCOTT SIMONS ARCHITECTS
 Date: FEBRUARY 17, 2015
 Job Name: BOURBANK BRANCH RENOVATIONS, PORTLAND PUBLIC LIBRARY
 Address of Construction: 377 STEVENS AVENUE
PORTLAND, MAINE 04103

2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) ASSEMBLY A-3
 Type of Construction TYPE VA (PROTECTED WOOD)
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC NO
 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

Structural Design Calculations

NO 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
Library Stack Rooms	150 psf
Lobbies / 1st Floor Corridors	100 psf
Corridors above 1st floor	80 psf

Wind loads (1603.1.4, 1609) *not part of renovation design*

n/a Design option utilized (1609.1.1, 1609.6)
n/a Basic wind speed (1809.3)
n/a Building category and wind importance Factor, I_w (table 1604.5, 1609.5)
n/a Wind exposure category (1609.4)
n/a Internal pressure coefficient (ASCE 7)
n/a 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)

n/a Design option utilized (1614.1)
n/a Seismic use group ("Category")
n/a Spectral response coefficients, S_a & S_d (1615.1)
n/a Site class (1615.1.5)

n/a Live load reduction
n/a Roof live loads (1603.1.2, 1607.11)
n/a Roof snow loads (1603.7.3, 1608)
n/a Ground snow load, P_g (1608.2)
n/a If $P_g > 10$ psf, flat-roof snow load P_f
n/a If $P_g > 10$ psf, snow exposure factor, C_e
n/a If $P_g > 10$ psf, snow load importance factor, I_s
n/a Roof thermal factor, C_t (1608.4)
n/a Sloped roof snowload, P_s (1608.4)
n/a Seismic design category (1616.3)
n/a Basic seismic force resisting system (1617.6.2)
n/a Response modification coefficient, R , and deflection amplification factor, C_d (1617.6.2)
n/a Analysis procedure (1616.6, 1617.5)
n/a Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

n/a Flood Hazard area (1612.3)
n/a Elevation of structure

Other loads

n/a Concentrated loads (1607.4)
n/a Partition loads (1607.5)
n/a Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)