



Certificate of Design Application

From Designer:

PDT Architects

Date:

10-24-14

Job Name:

Minor Interior Renovations at 196 Allen Avenue Casco Bay High School

Address of Construction:

196 Allen Avenue Portland, ME 04103

PHASE I PART B

AMENDMENT TO BUILDING PERMIT

2009 International Building Code

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

IBC 2009

Building Code & Year NFPA 101 2009

Use Group Classification (s) EDUCATIONAL

Type of Construction TYPE IIB. STRUCTURAL STEEL FRAME WITH NON-LOADBEARING EXTERIOR MASONRY WALLS

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC N/A EXISTING

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

N/A 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
<u>N/A</u>	<u>N/A</u>

Wind loads (1603.1.4, 1609)

<u>N/A</u>	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)

<u>N/A</u>	Design option utilized (1614.1)
	Seismic use group ("Category")
	Spectral response coefficients, S_D s & S_{D1} (1615.1)
	Site class (1615.1.5)

<u>N/A</u>	Live load reduction
	Roof live loads (1603.1.2, 1607.11)
	Roof snow loads (1603.7.3, 1608)
	Ground snow load, P_g (1608.2)
	If $P_g > 10$ psf, flat-roof snow load P_f
	If $P_g > 10$ psf, snow exposure factor, C_e
	If $P_g > 10$ 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_d and deflection amplification factor, C_d (1617.6.2)
	Analysis procedure (1616.6, 1617.5)
	Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

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

Other loads

<u>N/A</u>	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)