Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 09/02/15

Certificate of Design Application

er: Nancy Barba, Architect, Barba + Wheelock

Date: 7/28/2015

Job Name: Baxter Academy for Technology + Science

Address of Construction: 561 Congress, First Floor

2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) New Educational

Type of Construction Type 2B (000)

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

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

Supervisory alarm System? Yes Geotechnical/Soils report required? (See Section 1802.2) n/a

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
n/a	

Wind loads (1603.1.4, 1609)

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_{Ds} & S_{D1} (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_l and deflection amplification factor C_d (1617.6.2)

n/a Analysis procedure (1616.6, 1617.5)

n/a Design base shear (1617.4, 16175.5.1)

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