Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 12/16/15

From Designer: Archetype Architects

Date: 10/29/2015

Job Name: Brick North - Thompson's Point - Amendment to Core & Shell - Demising W

Address of Construction: 1 Thompson's Point

2009 International Building Code

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

Building Code & Year IBC 2009 Use Group Classification (s) M & B

Type of Construction 3B

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

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

Supervisory alarm System? Yes Geotechnical/Soils report required? (See Section 1802.2) No

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
N/A	N/A

Wind loads (1603.1.4, 1609)

ASCE7-05 Design option utilized (1609.1.1, 1609.6)

100 mph Basic wind speed (1809.3)

II Iw=1.0 Building category and wind importance Factor, I_w table 1604.5, 1609.5)

B Wind exposure category (1609.4)

+/- 0.18 Internal pressure coefficient (ASCE 7)

max 24.1 psf Component and cladding pressures (1609.1.1, 1609.6.2.2)

max 16 psf Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

IEBC 2009 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)

NO Live load reduction

N/A Roof *live* loads (1603.1.2, 1607.11)

ASCE7-05 Roof snow loads (1603.7.3, 1608)

50 psf Ground snow load, P_g (1608.2)

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

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

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

1.0 Roof thermal factor, C_t (1608.4)

35 psf 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)

_____ Flood Hazard area (1612.3)

_____ 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