Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/12/16

From Designer: Ryan Seantore Architecture, LLC

Date: 02/05/2016

Job Name: 107 India Residences

Address of Construction: 107 INDIA ST.

2009 International Building Code

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

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

Type of Construction R

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

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

Supervisory alarm System? _____ 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
CORRIDOR/STAIR	100 OR OCCUPANCY SERVED
RESIDENTIAL	40PSF

Wind loads (1603.1.4, 1609)

ANALYTICAL Design option utilized (1609.1.1, 1609.6)

100 Basic wind speed (1809.3)

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

C Wind exposure category (1609.4)

.18 Internal pressure coefficient (ASCE 7)

35/25 Component and cladding pressures (1609.1.1, 1609.6.2.2)

13/10 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, S_{Ds} & S_{D1} (1615.1)

-- Site class (1615.1.5)

NON Live load reduction

20 Roof *live* loads (1603.1.2, 1607.11)

42PSF Roof snow loads (1603.7.3, 1608)

60 Ground snow load, P_g (1608.2)

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

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

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

1 Roof thermal factor, C_t (1608.4)

FLAT USED Sloped roof snowload, P_s (1608.4)

B Seismic design category (1616.3)

MASONRY SHEARWALLS Basic seismic force resisting system (1617.6.2)

R=2 Response modification coefficient, R_f and deflection amplification factor C_d (1617.6.2)

-- Analysis procedure (1616.6, 1617.5)

15k 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