Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 10/03/14

Certificate of Design Application

From Designer: STEPHEN J. REINEBERG

Date: 7/23/14

Job Name: CANAL LANDING

Address of Construction: 100 WEST COMMERCIAL STREET PORTLAND, ME 04101

2009 International Building Code

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

Building Code & Year IBC - 2009 Use Group Classification (s) S-1

Type of Construction II B

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 (1603.11, 1807)

Floor Area Use	Loads Shown

Wind loads (1603.1.4, 1609)

ASCE 7-05 chapter 6 Design option utilized (1609.1.1, 1609.6)

115 Basic wind speed (1809.3)

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

Fully Exposed Wind exposure category (1609.4)

Fully Enclosed Internal pressure coefficient (ASCE 7)

_____ Component and cladding pressures (1609.1.1, 1609.6.2.2)

28.78 PSF Main force wind pressures (1603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

_____ Design option utilized (1614.1)

_____ Seismic use group ("Category")

_____ Spectral response coefficients, SDs & SD1 (1615.1)

_____ Site class (1615.1.5)

N/A Live load reduction

20.0 Roof live loads (1603.1.2, 1607.11)

42 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 $_f$

1.0 If P_g > 10 psf, snow exposure factor, $_G$

1.0 If P_g > 10 psf, snow load importance factor, $_s$

1.0 Roof thermal factor, $_G$ (1608.4)

42 Sloped roof snowload, $_R$ (1608.4)

C Seismic design category (1616.3)

See Calcs Basic seismic force resisting system (1617.6.2)

1.2 Response modification coefficient, $_R$ and deflection amplification factor $_d$ (1617.6.2)

ELF Analysis procedure (1616.6, 1617.5)

See Calcs 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

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