Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

From Designer: ASSOCIATED DESIGN PARTNERS, INC

Date: 4-1-13

Date: 05/13/13

Planner: Benjamin Wallace Jr

Job Name: RENOVATIONS ALLAGASH BREWERY

Address of Construction: 50 INDUSTRIAL WAY, PORTLAND ME 04103

2009 International Building Code

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

Building Code & Year 2009 IBC Use Group Classification (s) F-2

Type of Construction TYPE II, NON-COMBUSTIBLE/ UN-PROTECTED

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC NFPA13 (EXISTING)

Is the Structure mixed use? NO If yes, separated or non separated or non separated (section 302.3) NA

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
GROUND FLOOR	125 PSF

Wind loads (1603.1.4, 1609)

ANALYTICAL Design option utilized (1609.1.1, 1609.6)

98 Basic wind speed (1809.3)

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

B Wind exposure category (1609.4)

.18 Internal pressure coefficient (ASCE 7)

PER ASCE BASED ON EWA Component and cladding pressures (1609.1.1, 1609.6.2.2)

15PSF Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

ASCE 12.8.1 Design option utilized (1614.1)

I Seismic use group ("Category")

.314 / .125 Spectral response coefficients, S_{DS} & S_{D1} (1615.1)

D Site class (1615.1.5)

NO Live load reduction

20 Roof *live* loads (1603.1.2, 1607.11)

42+drift 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

1.0 Roof thermal factor, C_t (1608.4)

NA Sloped roof snowload, P_s (1608.4)

B Seismic design category (1616.3)

OMF Basic seismic force resisting system (1617.6.2)

3.0, 5.5 Response modification coefficient, R_f and deflection amplification factor C_d (1617.6.2)

ASCE 12.8.1 Analysis procedure (1616.6, 1617.5)

1.5K Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

NA Flood Hazard area (1612.3)

NA Elevation of structure

Other loads

NA Concentrated loads (1607.4)

NA Partition loads (1607.5)

NA Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404