Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 12/31/14

From Designer: JOSEPH A. DELANEY

Date: 10/24/14

Job Name: PAPI AND ROMANO BUILDERS - NEW SHOP

Address of Construction: 828 RIVERSIDE ST. PORTLAND ME 04104

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-1 MODERATE

Type of Construction 5 B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC NO

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

Supervisory alarm System? NO Geotechnical/Soils report required? (See Section 1802.2) PROVIDED

Structural Design Calculations

YES 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
STORAGE LT.	125 PSF
MANUF. LT.	125 PSF
OFFICE	50 PSF
LOBBIES, STAIR, EXIT	100 PSF

Wind loads (1603.1.4, 1609)

1609.6 Design option utilized (1609.1.1, 1609.6)

100 MPH Basic wind speed (1809.3)

II / 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)

+20.8/-22.7 Component and cladding pressures (1609.1.1, 1609.6.2.2)

14.2/17.8 Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

1615 Design option utilized (1614.1)

I / C Seismic use group ("Category")

0.13/0.16 Spectral response coefficients, S_{DS} & S_{D1} (1615.1)

"D" Site class (1615.1.5)

NA Live load reduction

45 Roof *live* loads (1603.1.2, 1607.11)

45 Roof snow loads (1603.7.3, 1608)

50 Ground snow load, P_g (1608.2)

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

0.9 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)

NA Sloped roof snowload, P_s (1608.4)

"C" Seismic design category (1616.3)

"1.K" Basic seismic force resisting system (1617.6.2)

6.5 Response modification coefficient, R_f and

4 deflection amplification factor C_d (1617.6.2)

1617.5 Analysis procedure (1616.6, 1617.5)

105°W Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

Flood Hazard area (1612.3)

Elevation of structure

Other loads

2000 # Concentrated loads (1607.4)

20 psf Partition loads (1607.5)

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

Accessibility Building Code Certificate

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Nature of Project: NEW SHOP FOR PAPI & ROMANO BUILDERS -

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

(SEAL)

LICENSED ARCHITECT #1722 STATE OF MAINE

Signature:

Title: ARCHITECT

Firm: WHIPPLE CALLENDER ARCHITECTS

Address: P.O. BOX 1276 PORTLAND ME 04101

Phone: 775-2696 x101

E-mail: joe@whipplecallender.com

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov