



Certificate of Design Application

From Designer: Archetype Architects
 Date: March 4, 2013
 Job Name: The Inn at Diamond Cove
 Address of Construction: Great Diamond Island

2009 International Building Code

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

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

Type of Construction 3B

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

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

Supervisory alarm System? Yes Geotechnical/Soils report required? (See Section 1802.2) N/A

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 |
|---------------------------|-------------|
| Private rooms & Corridors | 40 PSF |
| Public rooms, corridors | |
| stairs | 100 PSF |

Wind loads (1603.1.4, 1609)

ASCE-7 6.4 Design option utilized (1609.1.1, 1609.6)
100 MPH Basic wind speed (1809.3)
B T_w=1 0 Building category and wind importance Factor, I_f , table 1604.5, 1609.5)
1.0 Wind exposure category (1609.4)
+/- 0.18 Internal pressure coefficient (ASCE 7)
+18.0-24.0 Component and cladding pressures (1609.1.1, 1609.6.2.2)
+15.2-17.6 Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

ASCE 7 12.8 Design option utilized (1614.1)
I Seismic use group ("Category")
sds=0.305 sdi=0.15 Spectral response coefficients, S_D & S_{DI} (1615.1)
C Site class (1615.1.5)

1607.9.1 Live load reduction
N/A Roof live loads (1603.1.2, 1607.11)
ASCE 7 CH. 7 Roof snow loads (1603.7.3, 1608)
50 PSF Ground snow load, P_g (1608.2)
42 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
1.2 Roof thermal factor, C_t (1608.4)
N/A Sloped roof snowload, P_s (1608.4)
B Seismic design category (1616.3)
E-W C4 N5 A13 Basic seismic force resisting system (1617.6.2)
R1 E-W 4.5 NS 6.5 Response modification coefficient, R_f and
Cd E-W 5.0 NS 3.0 deflection amplification factor, C_d (1617.6.2)
ASCE 7 12.8 Analysis procedure (1616.6, 1617.5)
E-W 4.6k NS 5.7k Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

_____ Flood Hazard area (1612.3)
 _____ Elevation of structure

Other loads

N/A 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)



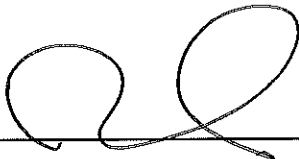
Accessibility Building Code Certificate

Designer: Archetype Architects

Address of Project: Great Diamond Island, McKinely Court

Nature of Project: The Inn at Diamond Cove

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.

Signature: 

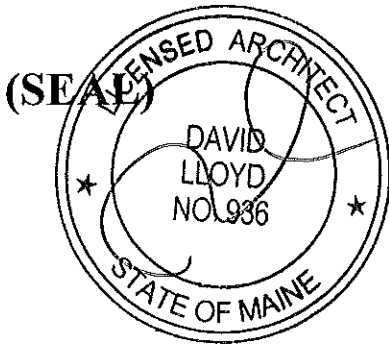
Title: Maine Licensed Architect

Firm: Archetype Architects

Address: 48 Union Wharf

Portland, ME 04101

Phone: (207) 772-6022



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



Certificate of Design

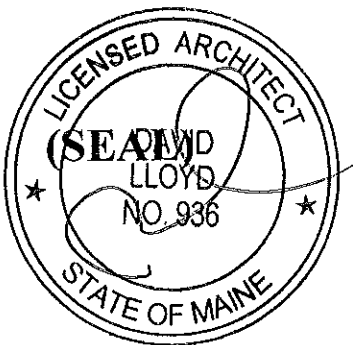
Date: March 4, 2013

From: Archetype Architects

These plans and / or specifications covering construction work on:

The Inn at Diamond Cove, Building 46 Double Barracks -
Great Diamond Island

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2009 International Building Code** and local amendments.



Signature: 

Title: Maine Licensed Architect

Firm: Archetype Architects

Address: 48 Union Wharf

Portland, ME

Phone: (207) 772-6022

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