

Date:

Certificate of Design Application

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Job Name:	Kepware 3rd floor Phase 1 expansion	on		
Address of Construction:	400 Congress Street, Portland Main	e 04101		
Con	2009 Internationa struction project was designed to the	0	ia listed below:	
Building Code & Year 2009	Use Group Classification	on (s) B		
Type of Construction IIA (A	ssumed, verify against previous permit	es)		
Will the Structure have a Fire su	appression system in Accordance with	Section 903.3.1 of the 2	009 IRC Existing System	
	See below If yes, separated or non se			
	existing Geotechnical/Soils report			
	•			
Structural Design Calculation	ıs		_Live load reduction	
not required Submitted for al	l structural members (106.1 – 106.11)	<u> </u>	Roof <i>live</i> loads (1603.1.2, 1607.11)	
Decien I ando an Canatanatia	n Da aren anta (400)		Roof snow loads (1603.7.3, 1608)	
Design Loads on Construction Uniformly distributed floor live loa			Ground snow load, Pg (1608.2)	
Floor Area Use	Loads Shown		If Pg > 10 psf, flat-roof snow load pf	
existing unchanged			If $P_g > 10$ psf, snow exposure factor, C_e	
		<u> </u>	If $Pg > 10$ psf, snow load importance factor, T_k	
			Roof thermal factor, ₍₇ (1608.4)	
			Sloped roof snowload,p _t (1608.4)	
Wind loads (1603.1.4, 1609)			Seismic design category (1616.3)	
existing unchanged Design option util	ized (1609.1.1, 1609.6)		Basic seismic force resisting system (1617.6.2)	
Basic wind speed (1809.3)			Response modification coefficient, R1 and	
Building category and wind importance Factor, h			deflection amplification factor _{Cl} (1617.6.2)	
Wind exposure ca	table 1604.5, 1609.5)"" tegory (1609.4)		Analysis procedure (1616.6, 1617.5)	
Internal pressure cod	efficient (ASCE 7)		Design base shear (1617.4, 16175.5.1)	
Component and cladding pressures (1609.1.1, 1609.6.2.2)		Flood loads (1	Flood loads (1803.1.6, 1612)	
Main force wind pressures (7603.1.1, 1609.6.2.1)			Flood Hazard area (1612.3)	
Earth design data (1603.1.5, 1			Elevation of structure	
existing unchanged Design option utilized (1614.1)		Other loads		
Seismic use group ("Category")		omer wads	Concentrated loads (1607.4)	
Spectral response	coefficients, SDs & SD1 (1615.1)		Concentrated loads (1607.4)Partition loads (1607.5)	
Site class (1615.1.5)		-		

Note: Existing building at 400 Congress street has a Mercantile Occupancy (US Post Office) on the first floor

1607.12, 1607.13, 1610, 1611, 2404