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## **BUILDING CODE SUMMARY**

Date: 2 August 2013

Project: Bay House Phase 2

Newbury Street Portland, ME

Only the items specific to the referenced project are addressed here.

Relevant Allowable Heights and Areas		Allowable and Provided Items		ed Items
		Allowable and Provided Items		
Use Group	Type of Construction	Stories	Height	Area
Section 503 I	Heights and Areas			
S2	Type VA	4	50 ft	21,000 sf
R2	Type VA	3	50 ft	12,000 sf
Section 504.2	2 Building Height			
Modification	w/ NFPA 13 Sprinkler			
S2	Type VA	5	70 ft	
R2	Type VA	4	70 ft	
Section 506 I	Building Area Modification			
w/ NFPA 13 S	Sprinkler			
S2	Type VA			63,000 sf
R2	Type VA			36,000 sf
506.4 Total Building Area				108,000 sf
Notes				
NFPA 13 Sprinkler System Details		Provided by O	thers	
Fire Alarm System Details		Provided by O	thers	
Emergency Lighting System		Provided by O	thers	
Mechanical & Electrical Systems		Provided by O	thers	

Building Summary	Garage Area Rear Floor 1	Floors 1 Front Floors 2-4
Use Groups	Storage 2 (S2)	Residential 2 (R2)
Construction Types	VA	VA
Buildings Heights & Areas		
Stories	1	4
Height	< 51 ft	< 51 ft
Floor Areas		
1 <sup>st</sup> Foor	1,816 sf	7,534 sf
2 <sup>ND</sup> Floor	,	16,066 sf
3 <sup>RD</sup> Floor		16,243 sf
4 <sup>™</sup> Floor		16,243 sf
Total Building Area	1,816 sf	56,086 sf
Section 506 Area Modifications		
Frontage Calculations 506.2	Not Needed	
NFPA 13 Sprinkler Increase	200%	200%
Allowable Building Area	189,000 sf	36,000 sf
$A_a = \{A_t + [A_t \times I_s]\}$		
Allowable Building Area (A <sub>a</sub> x 3)	567,000 sf	108,000 sf
Allowable building Area (A <sub>a</sub> x 5)	307,000 \$1	100,000 31
Nonseparate Use Groups		
Table 601 Fire Resistant Ratings	S2 / VA	R2 / VA
Primary Structural Frame	1 hr	1 hr
Exterior Bearing Walls	NA	1 hr
Interior Bearing Walls	NA	1 hr
Interior Nonbearing Walls	0 hrs	0 hrs
Floor Construction & Secondary	1 hr	1 hr
N A I		
Members		
Roof Construction & Secondary	NA	1 hr
	NA	1 hr

ITEMS COMMON TO ALL USE GROUPS		
	Provided Compliance w/ IBC	
Chapter 7	-	
Column Protection		
1 <sup>ST</sup> Floor S2 / VA	1 hour fire rated	
1 <sup>ST</sup> Floor R2/ VA	NA	
Protection of Primary Structural Frame	1 hour fire rated	
Protection of Secondary Members	1 hour fire rated	
Dusing tions on Francisca Molle		
Projections on Exterior Walls	. 00"	
Along North Wall, 1/3 x 60" = 20"	< 20"	
Fire Resistance Rating		
Along Alley at North Wall	1 hour rated from both sides	
All Other Exterior Walls	1 hour rated from inside	
Openings in Exterior Wall		
Along Alley at North Wall		
Opening/Wall Area limited to ≤ 25%		
	0% of openings	
2 <sup>ND</sup> Floor	??sf/??sf = ??% of wall	
3 <sup>RD</sup> Floor		
4 <sup>™</sup> Floor		
Fire Barriers	2 & 1 hour rated	
Shaft Enclosures	2 hour fire rated	
Fire Partitions	1 hour fire rated	
Horizontal Assemblies	1 hour fire rated	
Penetrations	2 and 1 hour fire rated	
Fire-Resistant Joint Systems	1 & 2 hour rated	
Opening Protectives		
Corridor Walls 1 Hour	20 min fire rated	
Fire Barriers 2 Hour	1 1/2 hour fire rated	
Fire Rated Door Hardware	Closer & Latchset	
Wired Glass	< 100 sf & < 33" high & < 10"	
Connected Connected		
Concealed Spaces	Wood blooking	
Fireblocking	Wood blocking	
Draftstopping Thormal and Sound Insulating Material	Sprinklered	
Thermal-and-Sound-Insulating Material	Concealed, certified cellulose & < flame spread 25	

Chapter 8		
Interior Wall and Ceiling Finishes	Class A	
Interior Floor Finishes	> Class II	
Trim and Incidental Finish	< 10%	
Chapter 9		
Portable Fire Extinguishers	4A:60B:C fire extinguishers	
	_	
Chapter 10		
Ceiling Height	> 7'-6" in all means of egress	
Occupant Load		
Parking Garage	47 (actual much less, only 26 spaces)	
Storage/Mechanical	3	
Residential per 1 <sup>ST</sup> Floor	27	
Residential per Upper Floors	73	
Faraga Width Warst Coop		
Egress Width, Worst Case	> 25"	
Stairways .3 x 83 = 24.9" Other Egress Components .2 x 83 = 16.6"	> 17"	
Other Egress Components .2 x 65 = 16.6	> 17	
Accessible Means of Egress	2 interior exit stairways	
Level of Exit Discharge	Floor 1	
Accessible Egress Stairways	2 w/ sprinkler	
Doors	> 32" clear width	
Doors within Dwelling Units	> 78" high	
Door Swing	Swing type	
Power-Operated Doors	Provided	
Access-controlled Egress Doors	Provided	
Door Arrangement @ Vestibules	> 7' apart	
Electrical Room Doors	1 door required	
Stairways Width	> 36" & > 44"	
Stairways Headroom	> 80"	
Nosing	≤ 1"	
Stairway Landings	> 44"	
Vertical Rise	< 12'	
Stairway to Roof	1 in each building	
Stairway to Roof	Alternating tread device	
Roof Access	Roof hatch > 16 sf	
Egrana Door Tootile Cignogs	@ agab Evit door	
Egress Door Tactile Signage	@ each Exit door	

Handrails Height	> 34" & < 38"	
Handrail Diameter	> 1 1/4" OD & < 2" OD	
Handrail Top Extension	12" Horiz & Return to Wall	
Stair Handrail Bottom Extension		
Ramp Handrail Bottom Extension	11" Sloped & Return to Wall 12" Horiz & Return to Wall	
Hamp Handrall Bottom Extension	12 HOHZ & Neturn to Wall	
Cuard Haight	> 40"	
Guard Height	> 42" < 4"	
Baluster Opening	< 4	
Twit Assess Common Bath of Traval		
Exit Access Common Path of Travel	. 100	
Storage/Garage (S2 Use)	< 100'	
Dwelling Units	< 125' with sprinkler	
5 11 A 5 B 111 11 11	4 / 20	
Exit Access Doorway from Dwelling Units	1 w/ ≤ 20 occupants	
Full Assess Tree of Distance		
Exit Access Travel Distance	4001	
S2 Use		
R Use	< 250'	
Corridors Fire Resistance Rating		
S Use		
R Use	G / 1	
Corridor Width, Common Area	> 44"	
Corridor Width, within Dwelling Unit	> 36"	
Corridor Dead Ends	< 50' w/ sprinkler	
Exits	≥ 2 for all stories	
Exit Enclosure Fire Resistance Rating	2 hour fire rating	
Exit Discharge Area on Level of Discharge	Provided w/ sprinkler	
Emergency Escape & Rescue	Exception w/ sprinkler	
Chapter 12		
Sound Transmission Class	> 50 for all assemblies	
Impact Insulation Class	> 50 for all horizontal assemblies	
,	21 2 2 2 2 2 2 2	
Habitable Space Widths	> 7'	
Habitable Space Heights	> 7'-6"	
Dwelling unit Room Area	> one room > 120 sf & others > 70 sf	
Efficiency Dwelling Unit Room Area	> 220 sf	
Line of the control o	, 22001	
Showers	Nonabsorbent surface to height > 70"	
OHOWEIG	140 habborbent surface to neight > 10	

IECC 2009		
Building Envelope Requirements	Provided through prescriptive items	
Air Leakage	Comply w/ standards indicated	
Outdoor Air Intake	Energy dampers in hoistways	
Vestibules	Doors w/ closers	
Chapter 14		
Exterior Window Sills	Window limiter or guard.	
Exterior Side of Exterior Walls	masonry, fiber cement, metal panels	
Balconies	Sprinkler protection	
Chapter 15	. Olasa D	
Roofing Fire Classification	> Class B	
Chapter 17		
Statement of Special Inspection	Contained in Contract Documents	
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Chapter 24		
Safety Glazing	panels of sliding doors, patio swing doors, shower doors, swing doors, all windows in stair enclosures, and in windows within 24" of either vertical edge of a door.	
ME State Elevator Code		
Accommodate Ambulance Stretcher	Car sized for 24"x76" stretcher	
Hoistway Venting	≥ 3 sf opening	
Troicival verting		
Chapter 32		
Encroachment below 8'	Awning > 7' above grade	
Encroachment > 15' above grade	Not limited	