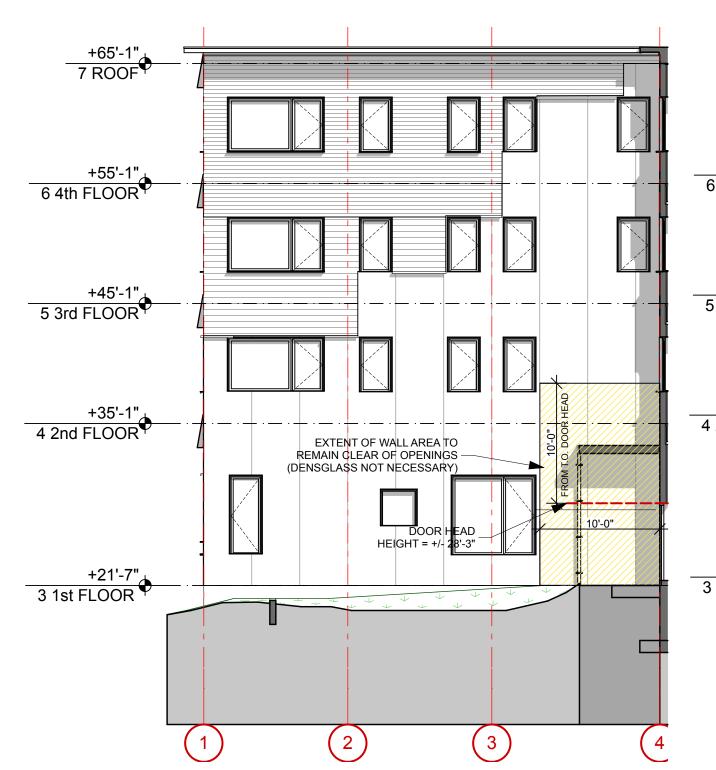
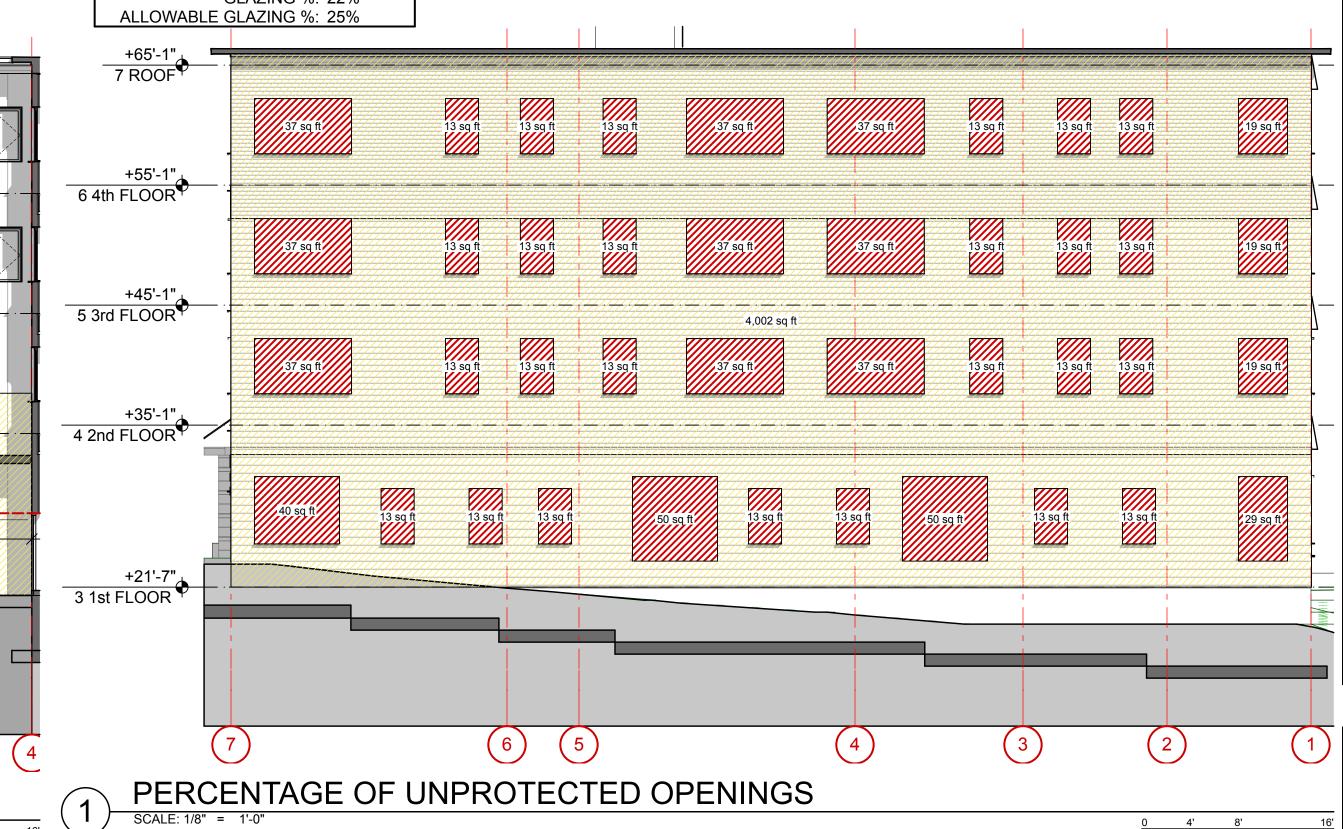
Code Summary Bayside Anchor Project address: 81 East Oxford St Project type: Square Foot 45 Unit Multifamily Building with ground floor mixed use 48,000 SF ilding code: City of Portland IBC 2009 NFPA 101
Maine Human Rights Commiss

UPC (Uniform Plumbing	CODE REF.	PAGI	
Determine Occupancy Type	"in accordance with the Building Code"	T4-1 Intro	36
	50% male, 50% female		
IBC Occupancy	Business		
	TOTAL: 10 OCCUPANTS, 5 M, 5 F		
	Educational		
	TOTAL: 42 OCCUPANTS, 21 M, 21 F		
Plumbing Fixture Count	Business		
	WC: Male 1-100 = 1	T4-1	38
	WC: Female 1-100 = 1		
	Educational	T4-1	38
	WC: Female 1-20 = 1		
	WC: Male 1-20 = 1		
	LAVATORY: 1 each = 2 total		
	Residential Lobby	T4-1	37
	WC: Male = 1		
	WC: Female = 1		
	LAVATORY: 1 each = 2 total		

DE REF.	PAGE	NFPA	ALLOWED BY CODE	CODE REF.	PAGE	AS DRAWN
1 Tatus	3.6	Occupancy	Apartment Building (3 or more dwelling units)	3.3.17 & 6.1.8.1.5	101-42	
-1 Intro	36	Оссиринсу	Business	3.3.34 & 6.1.11	101-42	
			Day Care	3.3.50 & 6.1.4		
			Separated Occupancy	6.1.14.2.3	101-43	
			Fire resistance rating may be reduced by 1 Hour if Sprinklered	6.1.14.48	101-43	
			<u> </u>	V V V		Y \ \
		Separation	Apartment to Business = 1 Hour with Sprinklers	Table 6.1.14.4.1(b)	101-45	
			Apartment to Day Care = 1 Hour with Sprinklers			1 HR
			Business to Day Care = 1 Hour with Sprinklers			1 HR
		Forth Access Countidate	Occupant load > 50 (6,000 SF) = 1 Hour exit access corridors		101-44	1/2 HR - Load < 30
1	38	Exit Access Corridor	1 Hour Fire Resistance for 3 Stories or less	7.1.3.1		2 HR
	***************************************	Exits	2 Hour Fire Resistance for 4 Stories or more	7.1.3.2.1 (1) 7.1.3.2.1 (2)	101-44	Z TK
1	38			7.1.3.2.1 (2) 7.1.3.2.1 (2) (C)	101-44	
			1 Hour for Apartment buildings with Sprinkler per 30.2.2.1.2 & 30.3.5			
			Structural elements that support exit components & penetrate or are	7.1.3.2.1 (5)		
		Headroom	Headroom in means of egress = 7'-6" min	7.1.5.1	101-46	
1	37		Headroom in spaces = 7'-6" min (1/3 max may be 6'-8")	7.1.5.2		
1	3/		Headroom in stairs = 6'-8" min	7.1.5.3		
		Door Oner's se	Decretor in manner of agree with the 22"	7 2 1 2 2 2	101 10	
		Door Openings	Door leaf in means of egress min width = 32" minimum	7.2.1.2.3.2	101-48	
		Stairs	Min Width = 44" (< 2,000 occupants)	Table 7.2.2.2.1.1 (a)	101-55	
	ļ	'	Max height of risers = 7"			
			Min tread depth = 11" Min headroom = 6'-8"			
		Cupado 9. Handralla		7 2 2 4 1 1	101 50	
		Guards & Handrails	Stairs & ramps handrails both sides	7.2.2.4.1.1	101-56	
			Handrail within 30" of all portions of egress width	7.2.2.4.1.2 (1)	101 57	
			Handrails continue full length of stairs, continuous on inside face	7.2.2.4.2	101-57	
			bottom riser Guards = 42" min (within dwelling units = 36")	7.2.2.4.4.10		
		Fire Barriers	rating & discharge directly to outside	7.2.2.4.5.2 7.2.4.3.3	101-62	
		rire barriers	Outside walls <180 degrees @ horz exit = 1 HR outside wall FRR & 3/4		101-62	
			HR opening protection for 10'-0" on each side of horz exit.	7.2.4.3.4		
		Ramps	Ramps in means of egress = 44" W, 1:12 slope, 30" max rise	Table 7.2.5.2 (a)	101-63	
		Kallips	Ramps in means of egress = 44 w, 1.12 slope, 50 max rise	Table 7.2.3.2 (a)	101-63	
		Occupant Load	Residential Apartment Buildings (200 SF / person)	Table 7.3.1.2	101.70	9,423 SF / 200 = 48 Occupants/Floor
		Occupant Load	Residential Apartment buildings (200 Sr / person)	Table 7.3.1.2	101-70	35,227 Total SF = 177 Occupants Total
			2 (400 + 05 (
			Business (100 net SF / person)			1,215 SF = 13 Occupants
			Day Care (35 net SF / person)			1,250 SF = 36 Occupants
		# Means of Egress	2 means of egress except as under Chapter 11 > 42	7.4.1	101 72	2 Means of Egress Provided
		# Means of Eyress	2 means of egress except as under Chapter 11 -> 43 Residential	7.4.1	101-72	2 Means of Egress Provided
			Business			
			Day Care			
			Electrical Room # of means of egress per NFPA 70	7.4.2.1	101-72	
		Fire Barriers	proceedings (1 mounts of egress per WITA 70	8.3	101-72	
		ine bailleis		0.5		
		Number of Fults	N. A. I. D. 71.17			
		Number of Exits	New Apartment Buildings	20.2.4.4		
			Access to 2 Separated Exit per Dwelling Unit	30.2.4.1	101-248	Access Provided
		Detection & Alarm	Four or more stories or > 11 units = Section 9.6	30.3.4.1.1		Detection, Alarm and Comm System
		Exit Access	Common Path of Travel Occupancy E: 100-0 Max	16.2.5.3.1		18'-10"
			Common Path of Travel Occupancy B: 100-0 Max	38.2.5.3.1	101-294	
			Dead end corridors < 50' w/ sprinkler	30.2.5.4.2		48'-6" Max
			Common Path of Travel Occupancy R-2: 50-0 Max	30.2.5.3.2	101-249	40'-6"
		Exit Access Travel Distance	Occupancy E: With sprinkler - 150' max from room door to nearest exit,			
			200' from any point to nearest exit	16.2.6.2, 16.2.6.3	101-159	Door: 48'-4", Furthest point: 37'-2"
			Occupancy B: With sprinkler - 300' max	38.2.6.3	101-294	Furthest point: 55'-5"
			Occupancy R: With sprinkler - 125' max within unit - 200' max from		40:5:5	
		Ī	unit entry to nearest exit	30.2.6.3, 30.2.6.3.2	1101-249	Within Unit: 32'-9", Unit entry to Exit: 40'-6"
				50:2:0:5/ 50:2:0:0:2	1	THE INTERIOR STATE OF THE CONTRACT OF CO

	IBC	ALLOWED BY CODE	CODE REF.	PAGE	AS DRAWN
\dashv	Occupancy Type	MIXED USE: Residential R-2, Business B, Educational E	304, 305,		R-2, B, E
	Detailed Requirements	Dwelling Units shall be separated by Fire Partitions per 709 Floor Assemblies separating Dwelling Units shall be constructed as	420.2	76	Separated
	Allowable Puilding Height	Horizontal Assemblies per Section 712 Type VA: 50-0 max height (70-0 max height if sprinklered)	420.3 Table 503	76 80	In Compliance
	Allowable Building Height Allowable Stories, Area	VA: (R-2) Stories: 3, Area: 12,000 (4 Stories & 36,000 when			
		Sprinklered) VA: (B) Stories: 3, Area: 18,000 (4 Stories & 54,000 Sprinklered)	Table 503	80	4 Stories & 9, 423 SF 1 Story & 1,244 SF
	Allow Area Increase	VA: (E) Stories: 1, Area: 18,500 (2 Stories & 37,000 Sprinklered) increase by 300% when sprinklered (36,900 SF/Floor)	586.3	82	1 Story & 986 SF 9,423 SF/Moor
	Incedental Accessory Occupancies	Lau dry Rovms over 100 SF: 1 Hour of Automatic Sprinkler	Table 508.2.5	85	1 HR & Sprinklered
	Req'd Separation of Occupancies	R & E - 1 Hour when Sprinklered R & B - 1 Hour when Sprinklered	Table 508.4	86	1 HR 1 HR
	Construction Type	Type VA Sprinklered Primary Structural Frame: 1 Hour	Table 601	88	1 HR Fire Resistance Rating (FRR)
		Bearing Walls, Exterior & Interior: 1 Hour			1HR FRR
		Non-bearing walls & partitions: 0 Hour Floor Construction & Secondary Members: 1 Hour			1HR FRR
		Roof Construction & Secondary Members: 1 Hour Exception b: Sprinklers may be substituted for 1 hour rating if no floor			1 HR FRR
		area or height increase taken. 1 Hour exterior wall rating must be maintained.			
	Fire Separation Distance	Occupancy R, B, E Type VA: X < 5 = 1 Hour	Table 602	90	1 HR
		X < 5 = 1 Hour 5 < X < 10 = 1 Hour 10 < X < 30 = 1 Hour			1 HR
	Fire Protection: Exterior Walls	Cornices, eave overhangs: 1/2 distance to lot line where all openings			1 HR
		are permitted to be to be unprotected or automatic sprinkler system per Section 705.8.2	705.2.2	97	
		Type V: Projections shall be of any Approved material Exterior Walls: Fire separation > 10-0 rated from inside. Fire separation	705.2.2	97	In Compliance
	Maximum Area of Exterior Opening	< 10-0 rated from both sides.	705.5	97	21.80%
	Provincin Area of Exterior Opening	5-0 to 10-0: Unprotected & sprinklered = 25% 10-0 to 15-0: Unprotected & sprinklered = 45%	Table 705.8	99	21.80%
\dashv		15-0 to 20-0: Unprotected & sprinklered = 75% 20-0 & greater: Unprotected & sprinklered = No Limit			21.80% 21.80%
		Parapets: Not Required if wall is permitted to have 25% unprotected openings.	705.11.6	101	4" parapet
	Fire Barriers	Exterior Walls as part of rated shaft or exit per 705 only (exception Section 1022.6 Exit Enclosures)	707.4	103	
		Incidental Accessory Occupancies: 1 Hour OR Automatic Fire Extinguishing System: Furnace Rm over 400Kbtu/hr, Laundry Rm >100			
\dashv	Chaff First	SF, Waste Rm >100 SF	Table 508.2.5	85	1 HR Laundry Rm & 1 HR Waste Rm
	Shaft Enclosures	Fire Rating: Connecting 4 stories + = 2 Hours, <4 stories = 1 Hour Shaft FR = FR of floor being penetrated minimum, 2 hr max	708.4 708.4	105	<pre><4 Stories = 1 HR Shaft FRR Shaft FRR = 1 HR</pre>
		Openings protected per Section 715, doors self-closing. Elevator lobby: not required with automatic sprinkler system	708.7 708.14.1.4	105 107	No openings No lobby
	Fire Partitions	Dwelling Units: Fire Rating not less than 1 Hour (exception Corridor walls per 1018.1)	709.1, 709.3	107	1 HR FRR Demising walls 1/2 HR FRR Corridor walls
	Horizontal Assemblies	Separating Dwelling Units horizontally = 1 Hour	712.3	109	1 HR FRR
	Fire Door Ratings	Shaft, Exit fire barriers: 1 hr Wall = 1 hr Door Assembly Other fire barriers: 1 hr Wall = 3/4 hr Door Assembly	Table 715.4	114	1 HR Door Assemblies @ 1 HR 3/4 HR Door Assembly
		Fire Partitions: Corridor Walls: 1 hr wall = 1/3 hr door Fire Partitions: Corridor Walls: 1/2 hr wall = 1/3 hr door			No 1 HR Corridor Walls 1/3 HR Door
		Other fire partitions: 1 hr wall = 3/4 hr door Other fire partitions: 1/2 hr wall = 1/3 hr door			None Shown None Shown
\dashv	Ducts & Air Transfer Openings	Ducts and air transfer openings that penetrate fire partitions shall be			
		protected with fire dampers except in buildings equipped with an automatic sprinkler system and the duct is protected as through	716 5 4 75 13	122	No Fine De vice of the vice
		penetration	716.5.4 (Ex 1)	120	No Fire Dampers @ corridor walls Ducts and Openings to
	Concealed Spaces	Horizontal Assemblies: protected by shaft enclosure per 708 Groups R-2: Draftstopping not required with automatic sprinkler	716.6	120	comply with 708 No Draftstopping included. Sprinklers installed in
	Interior Finishes	R-2: Wall, Ceiling, Exit Enclosures/Passageway Finishes: Class C	717.3.2.2	123	combustible concealed spaces
	Theorem indistings	throughout E & B: Wall & Ceiling Finishes: Class C throughout	Table 803.9	177 1 77	Class C Finishes Throughout
	Sprinklers	All Group R buildings to be sprinklered	Table 8/3.9 903.2.8	185	Sprinklered
1		Group R - up to & including 4 stories in height = NFPA-13 Quick-response & residential sprinklers: Dwelling & sleeping Units	903.3.1.1 903.3.2	187)
	Standpipes		9053.1	187	Sprinklered Dwelling Units
\ _	-	lowest level of fire dept vehicle access Class 1 allowed if Sprinklered per NFPA 13 or 13R	905.3.1.1	190 190	Class 1 Standpipe, See exception Class 1 Standpipe
7 .	Eiro Alayma 9 Dataction Systems	One manual fire alarm box provided	907.2	195	One box
<u>/</u> / /	Fire Alarms & Detection Systems	Not required for R-2 unless required by fire code official	907.2 (Ex 2)	195	None
<u>/</u>		Group B: Manual alarm not req'd if occupant load < 500 persons Group E: Manual alarm not req'd if occupant load <50	907.2.2 (Ex 1) 902.3 (Ex 1)	195 195	None None
- - - -		Group R-2: Manual fire alarm req'd if any dwelling unit 3+ stories above level of exit discharge or > 16 dwelling units	907.2.9.1	197	
1		Manual fire alarm not req'd with automatic sprinklers & occupant notification upon a sprinkler waterflor	907.2.9.1 (Ex 2)	198	
4		Group R-2: Outside of sleeping area, in bedrooms, each story Interconnection required for Group R	907.2.11.2 907.2.11.3	199 199	
		Visible Alarm in all Group R-2 req'd to have a fire alarm system	907.5.2.3.4	203	
	Occupant Load				
1-	Group E	Floor 1: 100 SF/Occupant @ 1,000 SF Floor 1: Day Care: 35 SF/Occupant @ 1,500 SF	Table 1004.1.1	220	10 Occupants 42 Occupants
1	Group R-2	Floor 1: 200 SF/Occupant @ 7,162 Floor 2, 3 & 4: 200 SF/Occupant @ 9,800 SF			36 Occupants 49 Occupants Each
		Total Occupancy:			235 Total Occupants
4	Egress Width	Stairways: 49 / 2 * 0.3" = 17" Other egress: 49 / 2 * 0.2" = 5"	1005.1 1005.1	221 221	44" Minimum 44" Minimum
	Means of Egress Illumination	Illuminated at all times except dwelling units in Group R-2	1006.1 (Ex 3)	221	r riminum
1-	Accessible Means of Egress	Elevator not accessible means of egress if <4 stories above discharge	1007.2.1	221	
		Clear width of 48" stairway not req'd if sprinklered & 1016.1 Area of Refuge not req'd in Group R-2	1007.3 (Ex 2) 1007.3 (Ex 7)	222 222	44" Minimum No Area of Refuge
4	Door Width	Minimum 32" Clear Exception: Group R-2 doors not part of Means of Egress	1008.1.1 1008.1.1 (Ex 1)	224 224	36" Egress Doors
	Stairways	Stairway Width: Minimum 44" (36" < 50 occupant load)	1009.1 (Ex 1)	230	44" Minimum
4		Headroom stair & landing: 80" clear Max. stair riser = 7", min. stair tread = 11"	1009.2 1009.4.2	230	80" Clear maintained Risers = 6 13/16" Max, Treads = 11"
-		R-2 Inside Units: 7 3/4" rise, 10" tread Landings top & bottom, min depth = stair width	1009.4.2.5 1009.5	231 231	No Treads inside units 44" Minimum
<u> </u>	=	Max Stair Flight Vertical Rise = 12'-0" Stairway to Roof: 4 Story + required. Roof hatch OK	1009.7 1009.13	232 233	5'-0" Maximum Roof Hatch
HI WATER		Roof hatch to have min. 16sf area, & min. 2' dimension Guard req. if hatch <10' of roof edge, 21"ø min.opening	1009.13.1 1013.6	233	4'x4' Roof Hatch 20' +/- from roof edge to roof hatch
	Evit & Evit Assess Document				-
	Exit & Exit Access Doorways	2 Exits: B & E: Occupancy >49. R: Occupancy >20 Sprinklered	Table 1015.1	239	B - 1 Exit, E - 2 Exits, R - 2 Exits 1/3 Max Diagonal Distance = 55'-4"
	1	Exit Separation shall be > 1/3 maximum diagonal distance	1015.2.1 (Ex 2)	239	Exit Separation Dist = 66'-6"
1	Corridors	Fire Resistance Rating: Occupancy R sprinklered = 0.5 hour Width 44" min, width 36" if occupancy < 50	Table 1018.1 1018.2	241 242	1/2 HR 65"
		Width 36" min within a dwelling unit Dead Ends: R-2: Maximum 50'-0" sprinklered	1018.2 1018.2.3 1018.4	242	36" 48'-6"
	Number of Exits & Continuity	Group R-2: Single exit in dwelling units occupancy < 20	1021.1 Ex 4	243	1 Exit per unit
16		Min. # of exits per story: Occupant Load 1 - 500 = 2 Exits	Table 1021.1	243	2 Exits per story, Min.
	Exit Enclosures	Min Fire Rating = 2hr if connecting ≥ 4 storys Exterior walls: Non-rated walls exposed <180 degrees 1 Hour rating	1022.1 1022.6	244 245	2 HR 1 HR FRR
		within 10-0 of non-rated wall. Openings protected 3/4 hour	1022.0		





RANSOM

190 US ROUTE ONE PMB 346 FALMOUTH, ME P: 207.847.3445



thin 10-0 of non-rated wall. Openings protected 3/4 hour idth: 44" minimum. Occupancy Load <50 = 36" minimum

> DRAWING: CODE SUMMARY AND ALLOWED OPENINGS Scale: Drawn by: JJT

> > REVISED:

DATE: 12/18/15





NO OPENINGS

SCALE: 1/8" = 1'-0"



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PER TABLE 705.8 - 5' TO LESS THAN 10' FOR UNPROTECTED, SPRINKLERED

> GROSS AREA: 4,002 SF GLAZING AREA: 884 SF GLAZING %: 22%



mergency Escape & Rescue