Code Review					Feb 10, 20	
Munjoy Heiç	ghts					
Building	s B,C,D					
	IBC 2009			NFPA 101 2009		
4 floors above grade	502.1					
	903.3.1.2.1	Sprinkler Protection required at Balconies and Decks				
	706.1.1	No openings or penetrations for utilities are allowed at unit Party W	/alls			
Sprinklers		NFPA 13R			NFPA 13R	
Occupant Load	T 1004.1.1	Building A1 13,800 sf (Residential 200 gsf/oc) = 69		24.1.7	No Occupant Load Requirements	
Use Group(s)	310.1	R3 - Townhouses		24.1	One and Two Family Dwelling	
Construction Type	T 503	5B - combustible unprotected			V (000) combustible unprotected	
Building Height	T 503 and 504.2	Sprinkler increase = 4 stories and 60' max.				
Building Area	T 503	Unlimited Area per floor				
Building Elements	T 601	0 hr Structural Frame		24.1.6	No Minimum Construction requirements	
	T 602	0 hr Bearing Walls Exterior (sep. dist >= 10')				
	T 602	1 hr Bearing Walls Exterior (sep. dist <10') Not applicable				
	T 601	0 hr Bearing Walls Interior				
	T 601	0 hr Non-Bearing Walls Interior				
	T 602	0 hr Non-Bearing Walls Exterior (sep. dist >= 10')				

	705.5	Exterior Wall with >10' sep. needs rating only from inside		
	T 601	0 hr Floor Construction		
	T 601	0 hr Roof Construction		
Townhouse	202 - comm.	2 hr Firewalls to separate every other unit (2 units max)	8.2.1.3	Considered Separate Bldgs with 2 hr FireBarrie
Firewalls	706.3	Exception - materials can be combustible in type 5 const.		
		Fire retardant Plywood is used in wall types E1, E3 and E4		
	T 706.4	R3 firewalls to be 2hr rated		
	706.5 ex. 3	Firewalls can terminate at non-combustible exterior sheathing		
		when both sides of firewall have 13R sprinkler system		
	706.5.2	Horiz. Projecting Elements - firewalls to extend out to balconies		
	706.2	The Area Separation Wall system utilized between units is designed		
		with 'melt away' clips so each unit on each side of the wall is		
		is structurally independent.		
Parapet	706.6 ex. 4	Firewalls can terminate at underside of combustible roof deck		
		if roof has Class B finish rating and Fire retardant plywood 4' out		
		from each side of firewall		
	705.11	Parapets at fire rated Exterior walls, if wall can have 25%		
		unprotected openings per705.8 then no parapet required (>5' sep)		
		If sep. is <5' R3 needs class C roofing and 4' fire rated plywood		
Separations	406.1.4	1/2 hr Between Dwelling and Garage		
	708.2 ex 1	Not required within single dwelling 4 stories or less	8.6.5	2 hr fire rated shafts for a 4 story building
	709.1	1 hr Between Dwelling Units		
	1022.1 ex. 3	Stair shafts not required within individual Dwelling Unit		
	508.2.5	1 hr Boiler Room or Automatic Fire Suppression System		
Distances and Exits	1021.1 ex. 4	Single Exit from and within Dwelling unit when occupancy is under 20	24.2.2.1.2	Second means of escape not required with 13F
	1016.1	250' Travel Distance to exits with Sprinklers	24.1	Not found in 1 and 2 family
	1021.2	NA Common Path of Travel as R3 can have a single exit	24.1	Not found in 1 and 2 family

	1018.4	50' Dead End	24.1	Not found in 1 and 2 family
Unprotected Openings	T 705.8	15% when exterior wall sep. dist. is 3'>5'		
	T 705.8	45% when exterior wall sep. dist. is 10'>15'		
		Building A -West wall = 11.5% unprotected openings with 14' sep		
		Building A -North wall = 8.1% unprotected openings with 13' sep		
		Building B,C,D -West wall = 7% unprotected openings with 11' sep		
		Building B,C,D -East wall = 7% unprotected openings with 1' sep		
		Building E -East wall = 9.6% unprotected openings with 33' sep		
		Building F -West wall = 9.5% unprotected openings with 33' sep		
	T 705.8	75% when exterior wall sep. dist. is 15'>20'		
	T 705.8	Unlimited when exterior wall sep. dist. is 25'>30'		
	T 705.8	Unlimited when exterior wall sep. dist. is >30'		
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Elevator Lobby	708.14.1.4	Not required as Sprinkled with 13R		
Elevator as MoE	1007.2.1.1	Not required as bldg. is not 4 stories above the level of exit discharge		
Egress Windows	1029.1.1	Required from Bedrooms in R3	24.2.2.1.2	Second means of escape not required with 13
Egress Stairs	1009.1	Occ. Load >50 = 44" min width	24.2.5.4	36" min. stair width
	1009.1	Occ. Load <=50 = 36" min width	7.2.2.2.1.2(B)	44" min. over 50 occ.
	1003.3	Handrails can protrude into stair 4.5" max	7.2.2.2.1.2	Handrails can protrude into stair 4.5" max
	1005.2	Door Swings may not reduce egress width by > 1/2		
	1009.2	80" min headroom	7.2.2.2.1.1(a)	6'-8" min. headroom
	1009.3	7" max. riser	7.2.2.2.1.1(a)	7" max. riser
	1009.3	11" min Tread depth	7.2.2.2.1.1(a)	11" min. tread
	1009.6	12' max. total rise between floors or landings	7.2.2.2.1.1(a)	12' max. height between landings
Ramps	1010.2	1:12 (8%) Max slope	7.2.5.2(a)	1:12 max. slope
	1010.6	60" long landings at top and bottom		
	1010.6	2% max slope of landings	7.2.5.2(a)	1:48 max. cross slope
	1010.8	>6" rise must have handrails on both sides of ramp		