

BUILDING EVALUATION SUMMARY (continued)

Automatic fire detection: Yes _____ No _____ type and location _____
 Fire alarm system: Yes _____ No _____ type _____
 Smoke control: Yes _____ No _____ type _____
 Adequate exit routes: Yes _____ No _____ Dead ends: Yes _____ No _____
 Maximum exit access travel distance _____ Elevator controls: Yes _____ No _____
 Means of egress emergency lighting: Yes _____ No _____ Mixed use groups: Yes _____ No _____

Safety parameters	Fire safety (FS)	Means of egress (ME)	General safety (GS)
3408.6.1 Building height			
3408.6.2 Building area			
3408.6.3 Compartmentation			
3408.6.4 Tenant and dwelling unit separations			
3408.6.5 Corridor walls			
3408.6.6 Vertical openings			
3408.6.7 HVAC systems			
3408.6.8 Automatic fire detection			
3408.6.9 Fire alarm system			
3408.6.10 Smoke control	****		
3408.6.11 Means of egress	****		
3408.6.12 Dead ends	****		
3408.6.13 Max. exit access travel distance	****		
3408.6.14 Elevator control			
3408.6.15 Means of egress emergency lighting	****		
3408.6.16 Mixed use groups		****	
3408.6.17 Sprinklers		+ 2 =	
3408.6.18 Specific occupancy area protection			
Building score — total value			

**** No applicable value to be inserted.

BUILDING SAFETY EVALUATION SCORE (Table 3408.9)

Formula	Table 3408.7	Table 3408.8	Score	Pass	Fail
FS-MFS ≥ 0	(FS)	(MFS)	=		
ME-MME ≥ 0	(ME)	(MME)	=		
GS-MGS ≥ 0	(GS)	(MGS)	=		

FS = Fire Safety MFS = Mandatory Fire Safety
 ME = Means of Egress MME = Mandatory Means of Egress
 GS = General Safety MGS = Mandatory General Safety

BOCA®
NATIONAL BUILDING CODE/1996
PLAN REVIEW RECORD

Valuation: 400,000.00 Plan Review # 98100
 Fee: 2,020.00 Date: 12 June 98

JURISDICTION Portland Cumberland Me.
 (City, County, Township, etc.)


BUILDING LOCATION Rand Rd.
 (Street address)

BUILDING DESCRIPTION (2) Two buildings, use or occupancy S-2 Low Hazard Storage, Type of Construction 3A NON-Sprinklered.

REVIEWED BY Sam Huffer

Numerals indicated in parenthesis are applicable code sections of the 1996 BOCA National Building Code. The organization of this Plan Review Record follows the common Building Code format first implemented in the 1993 BOCA National Building Code. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST		
No.	DESCRIPTION	Code Section
1.	All site plan requirements must be met before or a certificate of occupancy can or will be issued.	111.0
2.	This permit does not cover the future mezzanines	
3.	Fire partition	Table 602
4.	Penetration	714.0
5.	Fire dampers (Fire damper rating Table 718.1)	718.0
6.	Fire blocking & fireable draftstopping	721.0
7.	Mortar (ASTM C270)	2104.7
8.	Roof Truss design	
9.	Plans does not bear the seal, signed and date of of registered design professional.	114.0



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Using Table 503, identify the allowable height and area of each of the separated use groups within the building. Construction types that provide, for each story of the building, tabular areas which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504.0) equal to or greater than the actual height of the use group are permitted.

Story	Use Group	Actual floor area	Adjusted floor area*	Actual height	Allowable height (Table 503)
		ft ²	ft ²	ft stories	ft stories
		ft ²	ft ²	ft stories	ft stories
		ft ²	ft ²	ft stories	ft stories
		ft ²	ft ²	ft stories	ft stories
		ft ²	ft ²	ft stories	ft stories
		ft ²	ft ²	ft stories	ft stories
		ft ²	ft ²	ft stories	ft stories

*Adjusted floor area = actual floor area/conversion factor

$\sum \frac{\text{Adjusted floor area}^*}{\text{Allowable area (Table 503)}} = \frac{N.A.}{N.A.} + \dots = \dots \leq 1.00$

Permitted types of construction N.A. Type of construction assumed for review (602.3) _____

UNLIMITED AREA ONE-STORY BUILDINGS

<u>N.A.</u>	Use group classification (507.1)	<u>N.A.</u>	School buildings (507.1.1)
	Building height (story, feet) (507.1)		High-hazard use groups (507.1.2)
	Type of construction (507.1)		Exterior walls (507.2)
	Automatic sprinkler system (507.1, 904.11)		

MEZZANINES
Future

Openness (505.4)

Area limitation (505.2)
Egress (505.3)

SPECIAL USE AND OCCUPANCY (Chapter 4)

COVERED MALL BUILDINGS

<u>N.A.</u>	Tenant separations (402.4)
	Egress (402.5)
	Mall width (402.6)
	Structural elements (402.7)
	Roof coverings (402.8)
	A-1, A-2 occupancy (402.9)
	Automatic sprinkler system (402.10)
	Standpipes (402.11)
	Fire department access (402.12)
	Kiosk requirements (402.14)

N.A.

HIGH-RISE BUILDINGS

<u>N.A.</u>	Parking structures (402.15)
	Automatic sprinkler system (403.2)
	Alternative sprinkler modifications (403.3)
	Automatic fire detection (403.4)
	Voice/alarm signaling systems (403.5)
	Fire department communication (403.6)
	Fire command station (403.7)
	Elevators (403.8)
	Standby systems (403.9)
	Stairway doors (403.10)

MEANS OF EGRESS (continued)

<u>N.A.</u>	General limitations (1005.0)	<u>N.A.</u>	Ramps (1016.0)
	Air movement in egress elements (1005.7)		Means of egress doorways (1017.0)
	Types and location of egress (1006.0)		Number of doorways (1017.2)
	Exit access travel distance (1006.5 and Table 1006.5)		Size of doors (1017.3)
	Accessible means of egress (1007.0)		Door hardware (1017.4)
	Emergency escape (1010.4)		Revolving doors (1018.0)
	Exit access passageways and corridors (1011.0)		Horizontal exits (1019.0)
	Aisles and accessways (1012.0)		Level of exit discharge passageway (1020.0)
	Grandstands (1013.0)		Guards (1021.0)
	Interior stairways (1014.1 - 1014.11)		Handrails (1022.0)
	Exterior stairways (1014.1 - 1014.10, 1014.12)		Exit signs and lights (1023.0)
	Smokeproof enclosures (1015.0)		Means of egress lighting (1024.0)
			Access to roof (1027.0)

ACCESSIBILITY (Chapter 11)
STATE Fire Marshalls

	Required (1103.0)		Accessible entrances (1106.0)
	Accessible route (1104.0)		Special use groups (1107.0)
	Parking facilities (1105.0)		Features and facilities (1108.0)

INTERIOR ENVIRONMENT (Chapter 12)

<u>N.A.</u>	Room dimensions (1204.0)	<u>N.A.</u>	Air-borne noise (STC) (1214.2)
<u>N.A.</u>	Roof spaces (1210.1, 1211.2)	<u>N.A.</u>	Structure-borne sound (IIC) (1214.3)
<u>N.A.</u>	Crawl spaces (1210.2, 1211.1)	<u>N.A.</u>	Ratproofing (1215.0)

BUILDING ENVELOPE (Chapters 14, 15)

EXTERIOR WALL COVERINGS (Chapter 14)

<u>O.K.</u>	Performance requirements (1403.0)	<u>N.A.</u>	Combustible material restrictions (1406.0)
<u>E.M.C.</u>	Wall sidings and veneers (1404.0, 1405.0)		

OCCUPANT NEEDS (Chapters 10, 11, 12)

MEANS OF EGRESS (Chapter 10)

OCCUPANT LOAD (1008.0 and Table 1008.1.2)

Location	Floor Area	Sq. ft. / person	Occupant load	Other occupant loads	Total
Fire Dept.			OK.	N.A.	

CAPACITY OF EGRESS COMPONENTS (1009.0 and Table 1009.2)

Egress width (inch/occupant)
 Stairways _____
 Doors/ramps/corridors _____

200' without Sprinkler System
 Length of Exit Access Travel

CAPACITY

Location	Stairways	Doors/ramps corridors

NUMBER OF EXITS (1010.0)

Location	Required	Shown

ATRIUMS

N.A. Automatic sprinkler system (404.2)

N.A. Occupancy (404.3)

N.A. Smoke control (404.4)

N.A. Enclosure (404.5)

N.A. Fire alarm system (404.6)

N.A. Travel distance (404.7)

OTHER SPECIAL USE AND OCCUPANCY

N.A. Underground structures (405.0)

N.A. Open parking structures (406.0)

N.A. Private garages (407.0)

N.A. Public garages (408.0)

N.A. Use Group I-2 (409.0)

N.A. Use Group I-3 (410.0)

N.A. Stages and platforms (412.0)

N.A. Special amusement buildings (413.0)

N.A. HPM facilities (416.0)

N.A. Hazardous materials (307.8, 417.0)

N.A. Use Groups H-1, H-2, H-3 and H-4 (418.0)

N.A. Swimming pools (421.0)

FIRE PROTECTION (Chapters 6, 7, 8, 9)

FIRERESISTANT MATERIALS AND CONSTRUCTION (Chapter 7 and Table 602)

Note: Entry in indicates required rating in hours. NC indicates noncombustible construction required.

COMBUSTIBILITY (603.0, 604.0, 605.0, 606.0)

<u>N.C.</u>	Exterior walls
<u>1 Hr.</u>	Interior elements
<u>Combustible</u>	Roof

CONSTRUCTION DOCUMENTS (703.0)

Fire tests (704.0)

EXTERIOR WALLS (507.2, 705.0, 716.5)

	North	East	South	West
Fire separation distance	<u>A=20'</u>	<u>A=40'</u>	<u>A=100'</u>	<u>A=100'</u>
	<u>B=40'</u>	<u>B=40'</u>	<u>B=20'</u>	<u>B=100'</u>
Loadbearing	<u>NC</u>	<u>NC</u>	<u>NC</u>	<u>NC</u>
Nonloadbearing	<u>NC</u>	<u>NC</u>	<u>NC</u>	<u>NC</u>

N.A. Exterior opening protectives (705.3, 706.0)

N.A. Parapet walls (705.6)

FIRE SEPARATION ASSEMBLIES

<input type="checkbox"/> <u>N.A.</u>	Exit enclosures (709.0, 710.0, 1014.11)
<input type="checkbox"/> <u>N.A.</u>	Other shafts (709.0, 710.0)
<input type="checkbox"/> <u>1 HR</u>	Mixed use and fire area separations (313.1.2)
<input type="checkbox"/> <u>N.A.</u>	Other separation assemblies (302.1.1, Table 602)

FIRE PARTITIONS

<input type="checkbox"/> <u>N.A.</u>	Exit access corridors (711.0, 1011.4)
<input checked="" type="checkbox"/> <u>1 HR.</u>	Tenant separations (711.0)
<input type="checkbox"/> <u>N.A.</u>	Dwelling unit separations (711.0)
<input type="checkbox"/> <u>N.A.</u>	Guestroom separations (711.0)

OTHER FIRERESISTANT CONSTRUCTION

<input type="checkbox"/> <u>N.A.</u>	Fire and party walls (707.0 and Table 707.1)
<input type="checkbox"/> <u>N.A.</u>	Smoke barriers (712.0)
<input type="checkbox"/> <u>0</u>	Nonloadbearing partitions (Table 602)
<input type="checkbox"/> <u>1 Hr.</u>	Interior loadbearing walls, columns, girders, trusses (716.0)
<input type="checkbox"/> <u>1 Hr.</u>	Supporting construction (716.0)
<input type="checkbox"/> <u>1 HR</u>	Floor construction (713.0, 1006.3.1)
<input type="checkbox"/> <u>0 if over 15'</u>	Roof construction (713.0, 715.0)
<input checked="" type="checkbox"/>	Penetrations (714.0)
<input type="checkbox"/> <u>N.A.</u>	Opening protectives (717.0, 719.0, 720.0)
<input checked="" type="checkbox"/>	Fire dampers (718.0)
<input checked="" type="checkbox"/>	Fireblocking/draftstopping (721.0)
<input checked="" type="checkbox"/> <u>1/2</u>	Thermal and sound-insulating materials (723.0)

INTERIOR FINISHES (Chapter 8)

<u>N.A.</u>	Smoke development (803.3.2)	<u>N.A.</u>	Floor finish (805.0, 806.0)
<u>N.A.</u>	Flame spread (803.4)		

FIRE PROTECTION SYSTEMS (Chapter 9)

Both Bldg, under 12000 sq ft

FIRE SUPPRESSION SYSTEMS (Where required)

<u>N.A.</u>	Assembly (A-1, A-3, A-4) (904.2)
	Assembly (A-2) (904.3)
	Educational (E) (904.4)
	High-hazard (H) (904.5)
	Institutional (I) (904.6)
	Mercantile (M), Moderate-hazard storage (S-1), Factory and Industrial (F-1) (904.7)
	Residential (R-1) (904.8)
	Residential (R-2) (904.9)
	Windowless story (904.10)
	Specific occupancy areas (302.1.1, 904.11)
	Covered mall buildings (402.10)
	High-rise buildings (403.2)
	Atriums (404.2)
	Underground structures (405.3)
	Public garages (408.3.1)
	Sound stages (411.7)
	Stages and enclosed platforms (412.6)
	Special amusement buildings (413.4)
	HPM facilities (416.4)
	Paint spray booths and storage rooms (419.3)
	Unlimited area buildings (507.1)
	Exit lobbies (1020.3)
	Drying rooms (2806.4)
	Waste- and linen-chutes/termination rooms (2807.6)
	Refuse vaults (2808.4)

FIRE SPRINKLER SYSTEMS

<u>N.A.</u>	NFPA 13 system (906.2.1)
	NFPA 13R system (906.2.2)
	NFPA 13D system (906.2.3)
	Design (906.3)
	Actuation (906.4)
	Sprinkler alarms (906.5)
	Sprinkler riser (906.7)

LIMITED AREA SPRINKLER SYSTEMS

<u>N.A.</u>	Where permitted (907.2)
	Design (907.3)
	Actuation (907.4)
	Standpipe connection (907.6)
	Domestic supply (907.6.1)
	Cross connection (907.6.2)
	Shutoff valve (907.6.3)

OTHER SUPPRESSION SYSTEMS

<u>N.A.</u>	Water-spray fixed systems (908.0)
	Carbon dioxide extinguishing systems (909.0)
	Dry-chemical extinguishing systems (910.0)
	Foam-extinguishing systems (911.0)
	Halogenated extinguishing systems (912.0)
	Clean agent fire extinguishing systems (913.0)
	Wet-chemical range hood extinguishing systems (914.0)

STANDPIPE SYSTEMS

<u>N.A.</u>	Building height (915.2.1)
	Building area (915.2.2)
	Malls (915.2.3)
	Stages (915.2.4)
	Approved system (915.3, 915.3.1)
	Piping design (915.4)
	Water supply (915.5)
	Control valves (915.6)
	Hose connection (915.7)

FIRE DEPARTMENT CONNECTIONS

<u>Fire Dept.</u>	Required (916.1)
	Connections (916.2)

YARD HYDRANTS

<u>Fire Dept.</u>	Fire hydrants (917.1)
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FIRE ALARM SYSTEMS

<u>N.A.</u>	Approval (918.3)
	Assembly (A-4), Educational (E) (918.4.1)
	Business (B) (918.4.2)
	High-hazard (H) (918.4.3)
	Institutional (I) (918.4.4)
	Residential (R-1) (918.4.5)
	Residential (R-2) (918.4.6)
	Location/details (918.5)
	Power supply/wiring (918.6, 918.7)
	Alarm-notification appliances (918.8)
	Voice/alarm signaling system (918.9)

AUTOMATIC FIRE DETECTION SYSTEMS

<u>N.A.</u>	Approval (919.3)
	Institutional (I) (919.4.1, 919.4.2, 919.4.3)
	Residential (R-1) (919.4.4)
	Sprinklered buildings exception (919.5)
	Zones (919.6)

SINGLE- AND MULTIPLE-STATION SMOKE DETECTORS

<u>N.A.</u>	Residential (R-1) (920.3.1)
	Residential (R-2, R-3) (920.3.2)
	Institutional (I-1) (920.3.3)
	Interconnection (920.4)
	Battery backup (920.5)

FIRE EXTINGUISHERS

<u>N.A.</u>	Approval (921.1)
	Required (921.2)

SMOKE CONTROL SYSTEMS

<u>N.A.</u>	Passive system (922.2.1)
	Mechanical system (922.2.2)
	Smoke removal (922.3)
	Activation (922.4)
	Standby power (922.5)

SMOKE AND HEAT VENTS

<u>N.A.</u>	Size and spacing (923.2)
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SUPERVISION

<u>N.A.</u>	Fire suppression systems (924.1)
	Fire alarm systems (924.2)