

**M.A. 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: **GS** 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			
3408.6.18 Specific occupancy area protection			
Building score — total value		**** + 2 =	

\*\*\*\* 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)		=		
ME-MME ≥ 0	(ME)		=		
GS-MGS ≥ 0	(GS)		=		

FS = Fire Safety  
 ME = Means of Egress  
 GS = General Safety

MFS = Mandatory Fire Safety  
 MME = Mandatory Means of Egress  
 MGS = Mandatory General Safety

**BOCA<sup>®</sup>**  
**NATIONAL BUILDING CODE/1996**  
**PLAN REVIEW RECORD**

Valuation: \_\_\_\_\_ Plan Review \_\_\_\_\_  
 Fee: \_\_\_\_\_ Date: 10 July 98

**JURISDICTION** Portland Cumberland Maine  
 (City, County, Township, etc.)  
**BUILDING LOCATION** Brighton Ave  
 (Street address)  
**BUILDING DESCRIPTION** Applebee's A-3 Restaurants  
Case Group A-3 Type of Construction 5B  
**REVIEWED BY** S. Hoff

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 judgment in evaluating construction documents for code compliance.

CORRECTION LIST		
No.	DESCRIPTION	Code Section
1	All site planned building requirements must be completed before a Certificate of Occupancy can be issued.	111.4
2	A list of all subcontractors with their address and telephone number shall be submitted to this office.	
3	Owner's Special Inspection program	1705.0
4	Accessibility must be reviewed and approved by the State's Fire Marshall's office.	
5	Masonry	Chapter 21
6	Safety Glazing	2405.6
7	Electrical	See E-2 Main service panel to be located in a separate room.
8	Seating & Equipment Plan F-1	7 Vegetable sink
9	Indirect waste line - State Food Service rule.	
	Water proofing & damp proofing	1813.0



Copyright, 1996, Building Officials and Code Administrators International, Inc. Reproductions by any means is prohibited. BOCA<sup>®</sup> is the trademark of Building Officials and Code Administrators International, Inc., and is registered in the U.S. Patent and Trademark Office. NOTE: In order that we might develop other programs and provide additional services of benefit to the Code Administration profession, please re-order additional copies of this form from:

**BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC.**  
 4051 W. FLOSSMOOR ROAD COUNTRY CLUB HILLS, ILLINOIS 60476-5705



**ROOFS AND ROOF STRUCTURES (Chapter 15)**

Performance requirements (1505.0) \_\_\_\_\_  
 Fire classification (1506.0) 0  
 Steep-slope roof coverings (1507.4) N/A  
 Low-slope roof coverings (1507.5) \_\_\_\_\_  
 Flashing (1508.0) \_\_\_\_\_  
 Roof structures (1510.0) \_\_\_\_\_

**BRET D. BUSSE STRUCTURAL SYSTEMS (Chapters 16, 17, 18)**

**P.E. 8846 STATE of MAINE. See STRUCTURAL CALCULATIONS.**

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603.1)  
 Earthquake loads (1603.6, 1610.0) \_\_\_\_\_

Uniformly distributed floor live loads (1603.2, 1606.0) OK  
 Peak velocity-related acceleration,  $A_v$  (1610.1.3) \_\_\_\_\_  
 Peak acceleration,  $A_a$  (1610.1.3) \_\_\_\_\_  
 Seismic hazard exposure group (1610.1.5) \_\_\_\_\_  
 Seismic performance category (1610.1.7) \_\_\_\_\_  
 Soil-profile type (Table 1610.3.1) \_\_\_\_\_  
 Basic structural system and seismic-resisting system (Table 1610.3.3) \_\_\_\_\_  
 Response modification factor,  $R$ , and deflection amplification factor,  $C_d$  (Table 1610.3.3) \_\_\_\_\_  
 Analysis procedure (1610.4, 1610.5) \_\_\_\_\_

Floor Area Use A-3 - 60 PSF  
 Loads Shown \_\_\_\_\_  
 Live load reduction (1603.2, 1606.7) \_\_\_\_\_  
 Roof live loads (1603.3, 1607.0) \_\_\_\_\_

Roof snow loads (1603.4, 1608.0) 60-42 OK  
 Ground snow load,  $P_g$  (1608.3) \_\_\_\_\_  
 If  $P_g > 10$  psf, flat-roof snow load,  $P_f$  (1608.4) \_\_\_\_\_  
 If  $P_g > 10$  psf, snow exposure factor,  $C_e$  (Table 1608.4) \_\_\_\_\_

Sloped roof snowload,  $P_s$  (1608.5) \_\_\_\_\_  
 If  $P_g > 10$  psf, snow load importance factor,  $I$  (Table 1609.5) \_\_\_\_\_

Wind loads (1603.5, 1609.0) Design 90 mph  
 Basic wind speed (1609.3) \_\_\_\_\_  
 Wind exposure category (1609.4) \_\_\_\_\_  
 Wind importance factor,  $I$  (Table 1609.5) \_\_\_\_\_  
 Wind design pressure,  $P$  (1609.7) \_\_\_\_\_

Submitted for all structural members (107.7) Yes  
 Signed/sealed (107.7, 114.1) Yes  
 Deflection limits considered (1604.5) \_\_\_\_\_

NOTES: N.R. — Not required  
 N.A. — Not applicable

**ADMINISTRATION (Chapter 1)**

Complete construction documents (107.5, 107.6, 107.7) \_\_\_\_\_  
 Signed/sealed construction documents (107.7, 114.1) Yes

William E. Gray P.E. #1302 STATE of MAINE. — BRET D. BUSSE P.E. #8846 STATE of MAINE  
Stephen P. DeCoursey P.E. #8408 STATE of MAINE

**BUILDING PLANNING (Chapters 3, 4, 5, 6)**

**USE OR OCCUPANCY CLASSIFICATION (302.0-313.0)**

Single Use Group OK Specific occupancy areas (302.1.1) \_\_\_\_\_  
 Mixed Use Groups OK Accessory areas (302.1.2) \_\_\_\_\_

**GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)**

Apply Case 1 to determine the allowable height and area and permitted types of construction for a building containing a single use group or nonseparated mixed use groups. Apply Case 2 to determine the allowable height and area and permitted types of construction for a building containing separated mixed use groups.

**AREA MODIFICATIONS TO TABLE 503**

% of Allowable tabular area (Table 503) 100%  
 % Reduction for height (Table 506.4) 0%  
 % Increase for open perimeter (506.2) 114%  
 % Increase for automatic sprinklers (506.3) 0%  
 Total percentage factor = 214%  
 Conversion factor 214/100 = 2.14  
 (Total percentage factor/100%)

Open perimeter (506.2)	<u>0</u>	North	<u>110'</u>	East	<u>57'</u>	South	<u>110'</u>	West	<u>110'</u>
Open perim. (506.2)	<u>280'</u>	ft.		Perimeter	<u>340'</u>	ft.			
% Open perimeter =	<u>280/340</u>							<u>.82x100</u>	
% Tab. area increase =	<u>21(82-25 = 57)</u>							<u>= 114</u>	
(506.2)							<u>2x(% Open perim. -25%)</u>		

**CASE 1 — SINGLE USE OR NONSEPARATED MIXED USE GROUPS (313.1 503.0)**

Using Table 503, identify the allowable height and area of the single use group or the most restrictive of the nonseparated mixed use groups. Construction types that provide an allowable tabular area equal to or greater than the adjusted floor area and allowable heights (as modified by Section 504.0) equal to or greater than the actual building height are permitted.

Actual floor area 4,997 ft.<sup>2</sup> Actual building height 16'8" feet 1 stories  
 Adjusted floor area\* 2,335.0 ft.<sup>2</sup> Allowable building height 20' feet 1 stories  
 \*Adjusted floor area = actual floor area/conversion factor

Permitted types of construction 5B Type of construction assumed for review (602.3) 5B

OK June 1 98  
W. DeCoursey

## OCCUPANT NEEDS (Chapters 10, 11, 12)

### MEANS OF EGRESS (Chapter 10)

OCCUPANT LOAD (1008.0 and Table 1008.1.2)

CAPACITY OF EGRESS COMPONENTS  
(1009.0 and Table 1009.2)

Location Floor Area + Sq. ft./ person = Occt. load  
Total Other occt. loads

*A.K. - by Fire Dept.*

Egress width (inch/occupant)

Stairways

Doors/ramps/corridors

CAPACITY

• Location

Stairways

Doors/ramps  
corridors

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

NUMBER OF EXITS (1010.0)

Location

Shown

Required

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ATRIUMS

*N.A.*

Automatic sprinkler system (404.2)

Occupancy (404.3)

Smoke control (404.4)

Enclosure (404.5)

Fire alarm system (404.6)

Travel distance (404.7)

OTHER SPECIAL USE AND OCCUPANCY

*N.A.*

Underground structures (405.0)

Open parking structures (406.0)

Private garages (407.0)

Public garages (408.0)

Use Group I-2 (409.0)

Use Group I-3 (410.0)

Stages and platforms (412.0)

Special amusement buildings (413.0)

HPM facilities (416.0)

Hazardous materials (307.8, 417.0)

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

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.

FIRE PARTITIONS

*N.A.*

Exit access corridors (711.0, 1011.4)

*N.A.*

Tenant separations (711.0)

*N.A.*

Dwelling unit separations (711.0)

*N.A.*

Guestroom separations (711.0)

*N.A.*

OTHER FIRERESISTANT CONSTRUCTION

*N.A.*

Fire and party walls (707.0 and Table 707.1)

*N.A.*

Smoke barriers (712.0)

*N.A.*

Nonloadbearing partitions (Table 602)

*N.A.*

Interior loadbearing walls, columns, girders, trusses (716.0)

*N.A.*

Supporting construction (716.0)

*N.A.*

Floor construction (713.0, 1006.3.1)

*N.A.*

Roof construction (713.0, 715.0)

*N.A.*

Penetrations (714.0)

*N.A.*

Opening protectives (717.0, 719.0, 720.0)

*N.A.*

Fire dampers (718.0)

*N.A.*

Fireblocking/draftstopping (721.0)

*N.A.*

Thermal and sound-insulating materials (723.0)

COMBUSTIBILITY (603.0, 604.0, 605.0, 606.0)

Exterior walls

Interior elements

Roof

CONSTRUCTION DOCUMENTS (703.0)

Fire tests (704.0)

EXTERIOR WALLS (507.2, 705.0, 716.5)

North East South West

Fire separation distance

Loadbearing

Nonloadbearing

Exterior opening protectives (705.3, 706.0)

Parapet walls (705.6)

FIRE SEPARATION ASSEMBLIES

Exit enclosures (709.0, 710.0, 1014.11)

Other shafts (709.0, 710.0)

Mixed use and fire area separations (313.1.2)

Other separation assemblies (302.1.1, Table 602)