

JOHN LEASURE SR.

331-4001

BUILDING EVACUATION SUMMARY (Table 3408.7)

Existing use group _____ Proposed use group _____ Height in feet _____
 Year building was constructed _____ Number of stories _____
 Type of construction _____ Area per floor _____
 Percentage of open perimeter _____ %
 Completely suppressed: Yes _____ No _____
 Compartmentation: Yes _____ No _____
 Fire resistance rating of vertical opening enclosures: Yes _____ No _____
 Type of HVAC system _____
 Automatic fire detection: GS _____
 Fire alarm system: GS _____
 Smoke control: GS _____
 Adequate exit routes: GS _____
 Maximum exit access travel distance: Yes _____ No _____
 Means of egress emergency lighting: Yes _____ No _____
 Safety parameters: Fire safety (FS) _____ Means of egress (ME) _____ General safety (GS) _____

Numerals indicated in parenthesis are applicable code sections of the 1999 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.

BOCA®
 NATIONAL BUILDING CODE/1999
 PLAN REVIEW RECORD

Value: \$817,000 Plan Review # 040379
 Fee: 2,623.00 Date: 5/2/04
 JURISDICTION: Putnam
 BUILDING LOCATION: (City, County, Township, etc.) 1039 RIVERSIDE ST.
 BUILDING DESCRIPTION: 2500 SQ FT COMM. BLDG

REVIEWED BY: *[Signature]*

CORRECTION LIST

No.	DESCRIPTION	Code Section
1	USE GROUP (SHOWING (F-1) APPEARS TO BE MIXED - SEPARATED)	
-	IF 3A EXTERIOR WALLS MUST BE 2 HR RATED - NOT SHOWN	
-	ROOF MUST BE 1 HR	
-	STRUCTURAL ELEMENTS MUST BE 1 HR	

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

* * * No applicable value to be inserted.



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STEEL (Chapter 22)

Structural steel design/construction standard specified (2203.1, 2203.2) *N/A*
 Shop drawing preparation specified (2203.4) *N/A*
 Open-web steel joist design/construction standard specified (2205.1)

No	DESCRIPTION	Code Section
	Formed steel design/construction standard specified (2206.1)	
	Field steel member identification (2206.6)	
	Lateral resistance — steel stud walls (2211.0)	

WOOD (Chapter 23)

Installation inspections (2301.2)
 Design/construction standard specified (2303.1)
 Grade mark specified (2303.2)

	Foundation anchorage (2305.17)	
	Seismic requirements (2306.0)	
	Wood structural panels (2307.0) particle board (2308.0) Fiberboard (2309.0)	
	Fire-retardant-treated wood (2310.0) Decay and termite protection (2311.0) Joist hangers (2312.0)	
	Prefabricated components (2313.1, 2313.2)	
	Metal-plate-connected trusses (2313.3.1, 2313.3.2)	

HEAVY TIMBER CONSTRUCTION

Minimum dimensions (2304.1, 2304.0)
 Design/construction standard specified (2304.1)

WOOD FRAME CONSTRUCTION

Fastening and construction details (2305.0, Table 2305.2)
 Wind bracing design required (2305.7)
 Seismic bracing (2305.8)

NONSTRUCTURAL MATERIALS (Chapters 24, 25, 26)

GLASS AND GLAZING (Chapter 24)

Design loads (2404.0)
 Skylights (2405.0)
 Safety glazing (2405.0, 2406.0, 2407.0)

GYPSON BOARD AND PLASTER (Chapter 25)

Gypsum board materials (2503.0, Table 2503.2, Table 2503.3) *N/A*
 Plaster (2504.0, 2505.0, 2506.0)

PLASTIC (Chapter 26)

Approved materials (2601.2)
 Identification (2601.4)
 Interior trim (2603.7)
 Alternative approval (2603.9)
 FOAM/PLASTIC (2603.0)
 Labeling (2603.2)
 Surface-burning characteristics (2603.3)
 Thermal barrier (2603.4)
 Exterior walls (2603.5, 2603.6)

CORRECTION LIST (cont'd.)

ROOFS AND ROOF STRUCTURES (Chapter 15)

Performance requirements (1505.0) _____
 Fire classification (1506.0) _____
 Steep-slope roof coverings (1507.4) _____
 Low-slope roof coverings (1507.5) _____
 Flashing (1508.0) _____
 Roof structures (1510.0) _____

STRUCTURAL SYSTEMS (Chapters 16, 17, 18)

STRUCTURAL LOADS (Chapter 16)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603.1) _____
 Internal pressure coefficient (Table 1609.7[6]) _____
 Wind design pressure, P (1609.7) _____
 Uniformly distributed floor live loads (1603.2, 1606.0) _____
 Earthquake loads (1603.6, 1610.0) _____
 Floor Area Use _____
 Loads Shown _____
 Peak velocity-related acceleration, A_v (1610.1.3) _____
 Seismic hazard exposure group (1610.1.5) _____
 Seismic performance category (1610.1.7) _____
 Soil-profile type (Table 1610.3.1) _____
 Live load reduction (1603.2, 1606.7) _____
 Roof live loads (1603.3, 1607.0) _____
 Ground snow load, P_g (1608.2) _____
 If $P_g > 10$ psf, flat-roof snow load, P_f (1608.3) _____
 If $P_g > 10$ psf, snow exposure factor, C_e (Table 1608.3.1) _____
 If $P_g > 10$ psf, roof thermal factor (Table 1608.3.2) _____
 If $P_g > 10$ psf, snow load importance factor, I (Table 1608.3.3) _____
 Sloped roof snowload, P_s (1608.4) _____
 Basic wind speed (1609.3) _____
 Wind exposure category (1609.4) _____
 Wind importance factor, I (Table 1609.5) _____
 Response modification factor, R , and deflection amplification factor, C_d (Table 1610.3.3) _____
 Analysis procedure (1610.4, 5) _____
 Attic load (1606.2.2, 1606.4) _____
 Partition loads (1606.2.4) _____
 Concentrated loads (1606) _____
 Impact loads (1606.6) _____
 Misc. loads (1606.4, 1606.4, 1607.5, 1612.0) _____
 Other loads _____
 STUOJUTWJPL DESIGN CALCULATIONS _____
 Submitted for all structural (107.7) _____

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) _____

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

USE OR OCCUPANCY CLASSIFICATION (302.0-313.0)

Single Use Group _____ Specific occupancy areas (302.1.1) _____
 Mixed Use Groups _____ 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.

PERMITTED MODIFICATIONS TO TABLE 503

% of Allowable tabular area (Table 503) _____ 100%
 % Reduction in height (Table 506.4) _____ 0%
 % Increase in open perimeter (506.2) _____ +100%
 % Increase for automatic sprinklers (506.3) _____ +200%
 Total percentage factor _____ = 400%
 Conversion factor $\frac{400}{100} = 4$ (Total percentage factor/100%)

Open perimeter (506.2) North 67.5 East 0 South 0
 Open perimeter (506.2) ft. 508.5 Perimeter 678 ft.
 % Open perimeter = $\frac{508.5}{678} \times 100\%$
 % Tab. area increase = $\frac{75-25}{25} = 200\%$ (Open perim./perim.) x 100%
 2x(% Open perim. -25%)

TYPE 2C MAX AREA
 S-1 - 8400
 F1 - 9600

CASE 1 — SINGLE USE OR NONSEPARATED MIXED USE GROUPS (313.1.1)

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 25,000 ft.² Actual building height 24 feet 4 stories
 Adjusted floor area* 33,600 ft.² Allowable building height 50 feet 3 stories

*Adjusted floor area = actual floor area/conversion factor

Permitted types of construction ALL EXCEPT SB Type of construction assumed for review (602.3) AS

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 = load	Other occ. loads	Total
1st - S-1	11,280 / 300		38
F1	4500 / 100		45
B	10,000 / 100		100

Stairways 12

Doors/ramps/corridors .15

CITY

Location Stairways Doors/ramps/corridors

PARCA NONE ASG MIN

NUMBER OF EXITS (1010.0)

Location	Required	Shown
S-1	2	2
F-1	2	2
B	2	2
ALL CORRIDORS		
ALL CORRIDORS		

ETHEL
48'
OP 60'

ATRIUMS

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
 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) _____
 Storage racks (422.0) _____

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)

Exterior walls 0

Interior elements 0

Roof 0

CONSTRUCTION DOCUMENTS (703.0)

Fire tests (704.0)

EXTERIOR WALLS (507.2, 705.0, 716.6)

North East South West

Fire separation distance 30ft →

Loadbearing 0 0 0 0

Nonloadbearing 0 0 0 0

NR Exterior opening protectives (705.3, 706.0)

NR Continuity of exterior walls (705.6)

FIRE SEPARATION ASSEMBLIES

0 Exit enclosures (709.0, 710.0, 1014.11)

NON Other shafts (709.0, 710.0)

FOR SEVERE F/S+B Mixed use and fire area separations (313.1.2)

0 Other separation assemblies (302.1.1, Table 602)

FIRE PARTITIONS

Exit access corridors (711.0, 1011.4)
 Tenant separations (711.0)
 Dwelling unit separations (711.0)
 Guestroom separations (711.0)

OTHER FIRERESISTANT CONSTRUCTION

H NR Fire and party walls (707.0 and Table 707.1)

0 NR Smoke barriers (712.0)

0 Nonloadbearing partitions (Table 602)

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

0 Supporting construction (716.0)

0 Floor construction (713.0, 1006.3.1)

0 Roof construction (713.0, 715.0)

Not Addressed Penetrations (714.0)

0 Opening protectives (717.0, 719.0, 720.0)

0 Fire dampers (718.0)

0 Fireblocking/draftstopping (721.0)

NR Thermal and sound-insulating materials (723.0)