Existing use group _____ Proposed use group _____
Year building was constructed _____ Number of stories _____ Height in feet _____
Type of construction _____ Area per floor _____
Percentage of open perimeter _____% Percentage of height reduction _____%
Completely suppressed: Yes ____ No ____ Corridor wall rating _____
Compartmentation: Yes ____ No ____ Required door closers: Yes ____ No ____
Fireresistance rating of vertical opening enclosur _____
Type of HVAC system _____ ____, serving number of floors _____
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			
.3 Compartmentation			
3408.6.4 Tenant and dwelling unit separations			
3408.6.5 Corridor walls			
6.6 Vertical openings			
3408.6.7 HVAC systems			
matic 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			
5 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
FS-MFS ≥ 0			
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

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1144

ASSEMBLY AREA UNDER 250 PSF

BOCA®
NATIONAL BUILDING CODE 999
PLAN REVIEW RECORD

Valuation: _____ Plan Review # 040130
Fee: _____ Date: _____
JURISDICTION PORT
(City, County, Township, etc.)
BUILDING LOCATION USM
(Street address)
BUILDING DESCRIPTION S & G BUILDING
REVIEWED BY [signature]

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.

CORRECTION LIST

No.	DESCRIPTION	Code Section
1	STATEMENT OF SPECIAL INSPECTIONS	OK
2	GEOTECHNICAL REPORT	OK
1	CLERESTORY DEFINE	
1	32" DOOR?	
PROCEDURE	PLYWOOD IN A1/12	
	GUARDS. LADDER?	
	LS 102 - 6 - 32" DOORS	
	OD 5 - 36" DOOR	
	1 - 32" DOOR	

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STEEL (Chapter 22)

- ✓ Structural steel design/construction standard specified *(2203.1, 2203.2)*
- ✓ Shop drawing preparation specified *(2203.4)*
- ✓ Open-web steel joist design/construction standard specified *(2205.1)*
- ✓ Formed steel design/construction standard specified *(2206.1)*
- ✓ Formed steel member identification *(2206.6)*
- ✓ Lateral resistance — steel stud walls *(2211.0)*

Sh 5100 in Spec Book

WOOD (Chapter 23)

- N/A Installation inspections *(2301.2)*
- N/A Design/construction standard specified *(2303.1)*
- Grade mark specified *(2303.2)*

HEAVY TIMBER CONSTRUCTION

- N/A Minimum dimensions *(605.1, 2304.0)*
- Design/construction standard specified *(2304.1)*

WOOD FRAME CONSTRUCTION

- Fastening and construction details *(2305.0, Table 2305.2)*
- N/A Wind bracing design required *(2305.7)*
- Seismic bracing *(2305.8)*
- N/A Foundation anchorage *(2305.17)*
- Seismic requirements *(2306.0)*
- Wood structural panels *(2307.0)*
- Particleboard *(2308.0)*
- Fiberboard *(2309.0)*
- Fireretardant-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)*

NONSTRUCTURAL MATERIALS (Chapters 24, 25, 26)

GLASS AND GLAZING (Chapter 24)

- N/A Design loads *(2404.0)*
- Skylights *(2405 0)*
- ✓ Safety glazing *(2405.0, 2406.0, 2407.0)*

GYPSUM 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.)

No.	DESCRIPTION	Code Section

ROOFS AND ROOF STRUCTURES (Chapter 15)

____	Performance requirements *(1505.0)*	✓	Low-slope roof coverings *(1507.5)*
____	Fire classification *(1506.0)*	✓	Flashing *(1508.0)*
N/A	Steep-slope roof coverings *(1507.4)*	NONE	Roof structures *(1510.0)*

STRUCTURAL SYSTEMS (Chapters 16, 17, 18)

STRUCTURAL LOADS (Chapter 16)

SEE

DESIGN LOADS ON CONSTRUCTION DOCUMENTS *(1603.1)*

Uniformly distributed floor live loads *(1603.2, 1606.0)*

Floor Area Use	Loads Shown
OFFICE/CLASS	80LBS.

____ Live load reduction *(1603.2, 1606.7)*

____ Roof live loads *(1603.3, 1607.0)*

Roof snow loads *(1603.4, 1608.0)*

50 Ground snow load, P_g *(1608.2)*

50 + DRIFT 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 *(1608.5)*

Wind loads *(1603.5, 1609.0)*

90 mph Basic wind speed *(1609.3)*

B Wind exposure category *(1609.5)*

1.23 Wind importance factor, *I (Table 1609.5)*

____ Internal pressure coefficient *(Table 1609.7[6])*

30-35 PSF Wind design pressure, *P (1609.7)*

Earthquake loads *(1603.6, 1610.0)*

.10 Peak velocity-related acceleration, A_v *(1610.1.3)*

____ Peak acceleration, A_a *(1610.1.3)*

II Seismic hazard exposure group *(1610.1.5)*

C Seismic performance category *(1610.1.7)*

____ Soil-profile type *(Table 1610.3.1)*

CONCENTRICALLY BRACED FRAME. Basic structural system and seismic-resisting system *(Table 1610.3.3)*

R=5 Cd-4.5 Response modification factor, *R*, and deflection amplification factor, C_d *(Table 1610.3.3)*

____ Analysis procedure *(1610.4, 1610.5)*

Other loads PENT HOUSE 150LBS/SQFT

____ Attic load *(1606.2.2, 1606.2.3)*

✓ 20LBS. Partition loads *(1606.2.4)*

✓ Concentrated loads *(1606.3)*

✓ Impact loads *(1606.6)*

✓ Misc. loads *(1606.4, 1606.8, 1606.9, 1607.5, 1612.0)*

STRUCTURAL DESIGN CALCULATIONS

✓ Submitted for all structural members *(107.7)*

SEE S001

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)

B Single Use Group

B/A3 Mixed Use Groups

____ Specific occupancy areas *(302.1.1)*

____ 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)*	- 25 %
% Increase for open perimeter *(506.2)*	+ 88 %
% Increase for automatic sprinklers *(506.3)*	+ 100 %
Total percentage factor	= 268%
Conversion factor	268/100 = 2.68 *(Total percentage factor/100%)*

Open perimeter *(506.2)*

North	East	South	West
175	100	NONE	115

Open perim. 390 ft. Perimeter 565 ft.

% Open perimeter = 390/565 - 69% *(Open perim./perim.) x 100%*

% Tab. area increase = 69-25 = 44 x 2 = 88% *(506.2)* *2x(% Open perim. -25%)*

ALLOWABLE 8400 SQFT x 2.68 = 22512 S/F.

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 17600 ft.^{2} Actual building height 42 feet 3 stories

Adjusted floor area* 22512 ft.^{2} Allowable building height 50 feet 3 stories

*Adjusted floor area = actual floor area/conversion factor

Permitted types of construction ALL BUT 5 Type of construction assumed for review *(602.3)* 2C

SEPARATED FROM GARAGE BY "FIRE WALL"

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 =	Occt. load	Other occt. loads	Total
BASEMENT	0				0
1ST	B + A				521
2ND	B + A				369
					890

CAPACITY OF EGRESS COMPONENTS *(1009.0 and Table 1009.2)*

Egress width (inch/occupant)

Stairways 56" EACH — 112 TOTAL 110 REQ.

Doors/ramps/corridors 212 " OVERALL 178 REQ.

CAPACITY

Location	Stairways	Doors/ramps corridors

PA 6" CT 5102

NUMBER OF EXITS *(1010.0)*

Location	Required	Shown
	0	

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)*

- 0 Exterior walls
- 0 Interior elements
- 0 Roof

CONSTRUCTION DOCUMENTS *(703.0)*

- ____ Fire tests *(704.0)*

EXTERIOR WALLS *(507.2, 705.0, 716.6)*

	North	East	South	West
Fire separation distance	ALL 30' PLUS			
Loadbearing				
Nonloadbearing				

- ☐ NR Exterior opening protectives *(705.3, 706.0)*
- ☐ N/R Continuity of exterior walls *(705.6)*

FIRE PARTITIONS

- ☐ 1 HR Exit access corridors *(711.0,1011 4)*
- ☐ X Tenant separations *(711.0)*
- ☐ X Dwelling unit separations *(711.0)*
- ☐ X Guestroom separations *(711.0)*

OTHER FIRERESISTANT CONSTRUCTION

- ☐ 2HR W/ DOUBLE ROLL DOWN DOORS SEPARATING THE GARAGE FROM ASSEMBLY USE. Fire and party walls *(707.0 and Table 707.1)*
- ☐ 1 HR 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)*
- ____ Penetrations *(714.0)*
- ____ Opening protectives *(717.0, 719.0, 720.0)*
- ____ Fire dampers *(718.0)*
- ____ Fireblocking/draftstopping *(721.0)*
- ✓ Thermal and sound-insulating materials *(723.0)*

FIRE DOOR 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)*

NEED WHERE IS THE 32" DOOR?