

2018 NC BUILDING CODE SUMMARY: APPENDIX B

Name of Project: 210 BIZ CENTER PIN: 0417-48-0892
 Address: 35 ANDERSON CREEK SCHOOL RD, BUNNLEVEL, NC 28323 Zip Code: 28314
 Proposed Use: SWEEPSTAKES STYLE GAMING BUSINESS
 Owner or Authorized Agent: WON HONG Phone: 910-922-7197 E-Mail: WONHONG711@YAHOO.COM
 Owned By: City/County Private BAKER VIRGINIA State
 Code Enforcement Jurisdiction: City County HARNETT State NORTH CAROLINA

CONTACT: DOUGLAS L. JENKINS

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	N/A	N/A	N/A		
Civil	N/A	N/A	N/A		
Electrical	N/A	N/A	N/A		
Fire Alarm	N/A	N/A	N/A		
Plumbing	N/A	N/A	N/A		
Mechanical	N/A	N/A	N/A		
Sprinkler-Standpipe	N/A	N/A	N/A	N/A	N/A
Structural	N/A	N/A	N/A	N/A	N/A
INTERIOR WALLS	JCE	DOUGLAS L. JENKINS	NC PE 28803	(910) 822-1724	buddy@jenkinsce.pro
Retaining Walls >5' High	N/A	N/A	N/A	N/A	N/A
Building	JCE	DOUGLAS L. JENKINS	NC PE 28803	(910) 822-1724	buddy@jenkinsce.pro

2018 NC BUILDING CODE: New Building Shell / Core First Time Interior Completions
 Addition Phased Construction - Shell Core

2018 NC EXISTING BUILDING CODE: Prescriptive Alteration Level I Historic Property
 Repair Alteration Level II Change of Use
 Chapter 14 Alteration Level III

CONSTRUCTED: (date) 2005 CURRENT USE (S) (Ch. 3): VACANT
 RENOVATED: (date) PROPOSED USE (S) (Ch. 3): BUSINESS - SWEEPSTAKES GAMING BUSINESS
 OCCUPANCY RISK CATEGORY (Table 1604.5): Current: Proposed:

BASIC BUILDING DATA
 Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
 Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Class I II III Wet Dry
 Primary Fire District: No Yes (APPENDIX D) Flood Hazard Area: No Yes
 Special Inspections Required: No Yes

FLOOR	EXISTING (sq ft)	NEW (sq ft)	SUBTOTAL
AREA 1	1,891	NONE	1,891
AREA 2	1,972	NONE	1,972
TOTAL	3,863	NONE	3,863

Primary Occupancy Classification(s):
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 I-2 I-3
 I-1 Condition 1 2
 I-2 Condition 1 2
 I-3 Condition 1 2 3 4 5
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous

Accessory Occupancy Classification(s):
 Incidental Uses (Table 509):
 This separation is not exempt as a Non-separated Use (see exceptions).
 Special Uses (Chapter 4): 402 403 404 405 406 407 408 409 410 411 412 413
 414 415 416 417 418 419 420 421 422 423 424 425
 426 427 428 429 430
 Special Provisions (Chapter 5): 510.2 510.3 510.4 510.5 510.6 510.7 510.8 510.9
 Mixed Occupancy: No Yes Separation: NONE Hr. Exception:
 Non-separated Use (508.3)
 Separated Use (508.4) -- See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area of each use shall not exceed 1.

Separated Use Formula 508.4.2: $\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$

$\frac{1,891}{9,000} + \frac{1,972}{9,000} = \leq 1.00$

STORY NUMBER	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1, 5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2, 3}
1	BUSINESS GAMING	1,891	9,000		9,000
1	SHOP (S-1)	1,972	9,000		6,000

1 Frontage area increases from Section 506.3 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = (P)
 b. Total Building Perimeter = (P)
 c. Ratio (F/P) = $\frac{(F/P)}{(P)}$
 d. W = Minimum width (weighted average) of public way = $\frac{(W)}{100 [F/P - 0.25]} \times W/30 = \text{where } W = (L_1 X W_1 + L_2 X W_2) / F$ (Equation 5-4)
 e. Percent of frontage increase = $\frac{1}{100} [F/P - 0.25] \times W/30 = (\%)$ (Equation 5-5)

EXTERIOR WALL	(F) OPEN LENGTH (feet)	(P) TOTAL LENGTH (feet)	(W) (weighted average) WIDTH OF PUBLIC WAY OR OPEN SPACE (feet)	(%) FROM CALC. ABOVE	(b) FROM TABLE ABOVE	AREA INCREASE FOR COLUMN (c) ABOVE (% * TABLE AREA)
North						
South						
East						
West						
TOTAL						
EXAMPLE	75	100	25	42	23,500	(42*23,500 = 9,870)

2 Unimproved area applicable under conditions of Sections 507
 3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (Section 506.2).
 4 The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1
 5 Frontage increase is based on the unsprinklered area value in Table 506.2.

BUILDING CODE SUMMARY (continued)

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40	22	-
Building Height in Stories (Table 504.4)	1	1	-

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (feet)	RATING ** (TABLE 601)	PROVIDED (w/ REDUCTION)	DETAIL AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	0	0					
Bearing Walls	0	0					
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing walls and partitions							
Exterior walls							
North							
East							
West							
South							
Interior Non-Bearing Walls							
Floor construction including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof construction including supporting beams and joists							
Roof Ceiling Assembly	0	0					
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy / Fire Barrier Separation							
Party/Fire Wall Separation	2	2	EXISTING				
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit / Sleeping Unit Separation							
Incidental Use Separation							

EXTERIOR WALL	FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINE	DEGREE OF OPENINGS PROTECTION (TABLE 705.6)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
North				
South				
East				
West				

LIFE SAFETY SYSTEM REQUIREMENTS
 Emergency Lighting: Yes No
 Exit Signs: Yes No
 Fire Alarm: Yes No
 Smoke Detection Systems: Yes No Partial Duct Detectors
 Carbon Monoxide Detection: Yes No
 Life Safety Systems Generator: Yes No

LIFE SAFETY PLAN REQUIREMENTS
 Life Safety Plan Sheet #: LS-1
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (1006.2.1 & 1006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.8)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (903)
 The square footage of each smoke compartment for Occupancy Classification I-II (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NONE REQUIRED							

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES	# OF ACCESSIBLE SPACES PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS OR 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
EXISTING					
NEW					
TOTAL					

BUILDING CODE SUMMARY (continued)

USE	WATER CLOSETS MALE/FEMALE	URINALS UNISEX	LAVATORIES MALE/FEMALE/UNISEX	SHOWERS/TUBS	DRINKING FOUNTAINS REGULAR/ACCESSIBLE	SERVICE SINK
BUSINESS GAMING	1 1		1 1	-	1 1	1
INSTALL NEW FIXTURES	1 1		1 1		1 1	1

SPECIAL APPROVALS:
 Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)
 NONE REQUIRED

ENERGY SUMMARY
 ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.
 Existing building envelope complies with code: (If checked, the remainder of this section is not applicable.)
 Exempt Building: Provide code or statutory reference:

Climate Zone: 3A 4A 5A CUMBERLAND COUNTY
 Method of Compliance:
 Energy Code: Performance Prescriptive Value of total assembly:
 ASHRAE 90.1: Performance Prescriptive
 Other: Performance (specify source)

THERMAL ENVELOPE: (Prescriptive method only)
 Roof/Ceiling Assembly (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Skylights in each assembly: _____
 U-Value of skylight: _____
 Total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing)
 U-Value of assembly: _____
 Solar heat gain coefficient: _____
 Projection factor: _____
 Door R-Values: _____

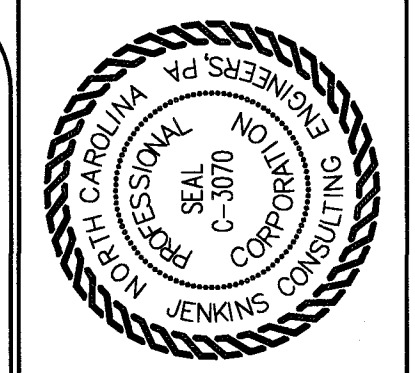
Walls below grade (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors over unconditioned space (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Floors slab on grade
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Horizontal/vertical requirement: _____
 slab heated: UNHEATED SLAB

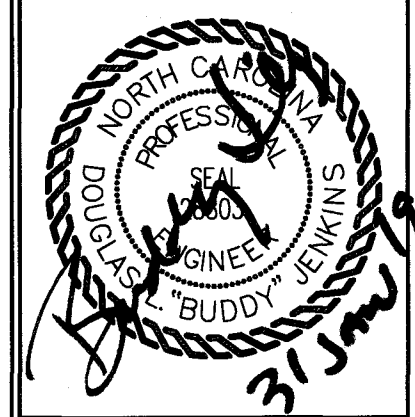
MECHANICAL SUMMARY (SEE DRAWING SHEET _____)
 ELECTRICAL SUMMARY (SEE DRAWING SHEET _____)

Harnett County
 BUILDING CODE SUMMARY
 for:

210 BIZ CENTER
 35 ANDERSON CREEK SCHOOL RD.
 BUNNLEVEL, NC 28323



D. L. JENKINS
 CONSULTING ENGINEERS, PA
 OFFICE IN EUREKA SPRINGS, NORTH CAROLINA
 NORTH CAROLINA FIRM REGISTRATION NUMBER: 033070
 1701 TELETYPE DRIVE
 EUREKA SPRINGS, NC 28746
 PHONE: 910-822-4645
 FAX: 910-822-4645



DESIGNED BY: B. JENKINS
 DRAWN BY: TAJ, BJ, WJ
 CHECKED BY: B. JENKINS
 DATE: 31 JAN 2019

FINAL DRAWING FOR REVIEW PURPOSES ONLY
 PRELIMINARY FOR DESIGN DEVELOPMENT ONLY
 FINAL DRAWING FOR CONSTRUCTION
 OWNER/TENANT:
 SCOTT BAKER
 CONTRACTOR/BUILDER:

PROJECT: 210 BIZ CENTER - HONG SWEEPSTAKES
 35 ANDERSON CREEK SCHOOL ROAD BUNNLEVEL, NC 28323
 SHEET: BUILDING CODE SUMMARY

BCS

Drawing File: H:\2019\Wong Hong Sweepstakes\WON HONG PLAN-1.dwg
 Plotted by: MarkW
 Plotted Date: Jan 31, 2019 - 9:30am
 SCALE: 1/8" = 1'-0"
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