2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project:					
				Zip Co	de
		Phone # (
Owned By:		City/County		Sta	
•	nt Inrigdiction	City			
Code Enforcemen	in Jurisciction.				ie
CONTACT:					
DESIGNER	FIRM	NAME	LICENSE #		
Architectural				()	
Civil				()	
Electrical Fire Alarm				()	
Plumbing					
Mechanical				(
				()	
Structural				()	
	>5' High			()	
Other	1 1 0 1			()	
("Other" should i	nclude firms and	individuals such as truss, p	precast, pre-engine	ered, interior desi	gners, etc.)
2018 NC BUILE 2018 NC EXIST	[[[etion <u>local inspection j</u> <u>nents</u> <u>hell/Core- Contac</u> edures and require Prescriptive	urisdiction for pos t the local inspecti ments Repair Level II	
CONSTRU	CTED: (date)				
RENOVAT		PROPOS			
OCCUPANCY		able 1604.5): Current:			
		Proposed:	I L II L II	I [] IV	
BASIC BUILDI Construction Ty (check all that ap	ply) I-A I-B		III-A		□ V-A □ V-B
Sprinklers:					PA 13D
Standpipes:	No Yes	Class 🗌 I 🔤 II		t 🗌 Dry	
Fire District:		Flood Hazard A		Yes	
Special Inspection	ons Required:		ne local inspection		<u>lditional</u>
		procedure	es and requirement	(S.)	

	Gro	ss Building Area Table	
Floor	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor			
Basement			
TOTAL			

ALLOWABLE AREA

Primary Occupancy Classification(s): <u>Select one</u> <u>Select one</u> <u>Select one</u> <u>Select one</u> <u>Select one</u> <u>Select one</u>
Assembly \square A-1 \square A-2 \square A-3 \square A-4 \square 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 Condition I I 2
\Box I-2 Condition \Box 1 \Box 2
\Box I-3 Condition \Box 1 \Box 2 \Box 3 \Box 4 \Box 5
□ I-4
Mercantile
Residential \square R-1 \square R-2 \square R-3 \square 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):
Special Uses (Chapter 4 – List Code Sections):
Special Provisions: (Chapter 5 – List Code Sections):
Mixed Occupancy: No Yes Separation: Hr. Exception:
Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
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 for each use shall not exceed 1.
+ + = ≤1.00

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.2 ⁴	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}

¹ Frontage area increases from Section 506.2 are computed thus:

- a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
- b. Total Building Perimeter = _____ (P)
- c. Ratio (F/P) = _____ (F/P)
 d. W = Minimum width of public way = _____ (W)
- e. Percent of frontage increase $I_f = 100[F/P 0.25] \times W/30 =$ (%)

² Unlimited area applicable under conditions of Section 507.

- ³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (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.

ALLOWABLE HEIGHT

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

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)	REQ'D	RATING PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separat	ion						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

FIRE PROTECTION REQUIREMENTS

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	No Yes
Exit Signs:	No Yes
Fire Alarm:	🗌 No 🗌 Yes
Smoke Detection Systems:	🗌 No 🗌 Yes 🗌 Partial
Panic Hardware:	No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: ___

- 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 (Tables 1006.2.1 & 1006.3.2(1))
- \Box 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 (1005.3)
- 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 (202)
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL	ACCESSIBLE	ACCESSIBLE	TYPE A	TYPE A	TYPE B	TYPE B	TOTAL
UNITS	Units	UNITS	Units	Units	Units	Units	ACCESSIBLE UNITS
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	PROVIDED

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING	TOTAL # OF PA	RKING SPACES	# OF ACC	TOTAL #		
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPAC	ES WITH	ACCESSIBLE
			5' ACCESS AISLE	132" ACCESS	8' ACCESS	PROVIDED
				AISLE	AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

U	ISE	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS	DRINKING	FOUNTAINS		
		MALE FEMALE UNISEX			MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE	
SPACE	EXIST'G										
	NEW										
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

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: No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide code or statutory reference):
Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here) Prescriptive
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: U-Value of skylight:
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: V-Value of assembly: Solar heat gain coefficient: projection factor: Door R-Values: Door R-Values: U-Value of total assembly: U-Value of total assembly: R-Value of insulation: U-Value of total assembly: Description of assembly: R-Value of insulation: U-Value of total assembly: Description of assembly: U-Value of insulation: U-Value of insulation: U-Value of assembly: U-Value of assembly: U-Value of assembly: U-Value of insulation: U-Value of insulation: U-Value of insulation: U-Value of assembly: U-Value of assembly: U-Value of assembly: U-Value of insulation:
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:

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors:	Snow (Is) Seismic (IE)
Live Loads:	Roof psf
	Mezzanine psf
	Floor psf
Ground Snow Load:	psf
Wind Load: Bas	ic Wind Speed mph (ASCE-7)
Exp	oosure Category
SEISMIC DESIGN CATEGORY	$A \square B \square C \square D$
Provide the following Seismic Dest Risk Category (Table 160 Spectral Response Accel	$\widetilde{O4.5}$) \Box I \Box II \Box III \Box IV
Site Classification (ASCI	$E 7) \square A \square B \square C \square D \square E \square F$
Data Sou	rce: 🗌 Field Test 🔹 Presumptive 🛄 Historical Data
Basic structural system	Bearing Wall Dual w/Special Moment Frame
•	Building Frame Dual w/Intermediate R/C or Special Steel
	Moment Frame Inverted Pendulum
Analysis Procedure:	Simplified Equivalent Lateral Force Dynamic
-	al, Components anchored?
LATERAL DESIGN CONTROL	Earthquake Wind
SOIL BEARING CAPACITIES:	
	of test report) psf
Presumptive Bearing capa Pile size, type, and capacit	city psf
The size, type, and capacit	J

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb:	
summer dry bulb:	
Interior design conditions	
winter dry bulb: summer dry bulb: relative humidity:	
Building heating load:	
Building cooling load:	
Mechanical Spacing Conditioning System	
Unitary	
description of unit:	
heating efficiency:	
cooling efficiency:	
size category of unit:	
Boiler	
Size category. If oversized, state reason.:	
Chiller	
Size category. If oversized, state reason.:	
List equipment efficiencies:	

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

 Method of Compliance: Energy Code
 Performance
 Prescriptive

 ASHRAE 90.1
 Performance
 Prescriptive

 Lighting schedule (each fixture type)
 Imp type required in fixture
 Prescriptive

 Imp type required in fixture
 number of lamps in fixture
 Prescriptive

 ballast type used in the fixture
 number of ballasts in fixture
 Prescriptive

 total wattage per fixture
 total interior wattage specified vs. allowed (whole building or space by space)
 Prescriptive

 Additional Efficiency Package Options
 (When using the 2018 NCECC; not required for ASHRAE 90.1)
 C406.2 More Efficient HVAC Equipment Performance

C406.3 Reduced Lighting Power Density

C406.4 Enhanced Digital Lighting Controls

C406.5 On-Site Renewable Energy

C406.6 Dedicated Outdoor Air System

C406.7 Reduced Energy Use in Service Water Heating