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:							
Address:				Zip Co	de		
		Phone # (
Owned By:	ε	City/County		— □ Sta			
•	nt Iurisdiction	City		_			
Code Emoreomer	it builduction.						
CONTACT:							
DESIGNER Architectural Civil Electrical Fire Alarm Plumbing Mechanical Sprinkler-Standpi Structural Retaining Walls > Other	pe						
("Other" should i	nclude firms and	individuals such as truss,	precast, pre-engine	eered, interior desi	gners, etc.)		
2018 NC BUILD		New Building 1st Time Interior Comp Shell/Core - Contact th procedures and requires Phased Construction - Spossible additional procedures	letion e local inspection j ments Shell/Core- Contact	jurisdiction for pos			
2018 NC EXIST	ING BUILDING	G CODE: EXISTING: Alteration:	Level I	Repair Level II rty	-		
CONSTRUC	CTED: (date)	CURRE	NT OCCUPANO	CY(S) (Ch. 3):			
RENOVATI	ED: (date)	PROPO	SED OCCUPAN	CY(S) (Ch. 3):			
OCCUPANCY CATEGORY (Table 1604.5): Current: I							
BASIC BUILDI	NG DATA						
Construction Ty (check all that app Sprinklers: Standpipes: Fire District:	pe:	☐ II-A ☐ II-B ial ☐ Yes ☐ NF Class ☐ I ☐ II Flood Hazard	□ III □ We	et Dry	□ V-A □ V-B PA 13D		
Special Inspection				n jurisdiction for a	dditional		
Special Inspection	requireu.		es and requiremen	•	adidollal		

	Cuesa Duilding Ames Toble							
FLOOR	EXISTING (SQ FT)	Gross Building Area Table New (SQ FT)	Sub-Total					
3 rd Floor	EXISTING (SQ11)	111. (5011)	SCD TOTAL					
2 nd Floor								
Mezzanine								
1st Floor								
Basement								
TOTAL								
		ALLOWABLE AREA						
Primary Occupa	ancy Classification(s): S	elect one Select one Select one	Select one Select one					
Assembly	□ A-1 □ A-2 □ A							
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 ☐ 1	<u> </u>						
	☐ I-2 Condition ☐ 1	\square 2						
	☐ I-3 Condition ☐ 1	$\square 2 \qquad \square 3 \qquad \square 4 \qquad \square 5$						
	☐ I-4							
Mercantile								
Residential	\square R-1 \square R-2 \square 1	R-3						
Storage	S-1 Moderate	S-2 Low High-piled						
	Parking Garage	Open 🗌 Enclosed 🔲 Repair Ga	rage					
Utility and M	Miscellaneous							
Accessory Occup	pancy Classification(s):							
Incidental Uses	(Table 509):							
Special Uses (Ch	napter 4 – List Code Sec	tions):						
Special Provision	ns: (Chapter 5 – List Co	ode Sections):						
Mixed Occupan	cy: No Y	es Separation: Hr.	Exception:					
☐ Sepa	be su		n story, the area of the occupancy shall actual floor area of each use divided by all not exceed 1.					
	ll Area of Occupancy A lle Area of Occupancy A	+ <u>Actual Area of Occupant</u> Allowable Area of Occupan						
		+	+ = <u><</u> 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 $I_f = 100[F/P 0.25] \times W/30 =$ _____(%)

- 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.

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.

² Unlimited area applicable under conditions of Section 507.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

FIRE PROTECTION REQUIREMENTS

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							

^{*} 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 (%)

<u> </u>	<u> </u>
	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 w	vall locations (Chapter 7)
Assumed and real propert	y line locations (if not on the site plan)
Exterior wall opening area	a with respect to distance to assumed property lines (705.8)
Occupancy Use for each a	area as it relates to occupant load calculation (Table 1004.1.2)
Occupant loads for each a	rea
☐ Exit access travel distance	es (1017)
Common path of travel di	stances (Tables 1006.2.1 & 1006.3.2(1))
Dead end lengths (1020.4	
Clear exit widths for each	exit door
Maximum calculated occu	apant load capacity each exit door can accommodate based on egress width (1005.3)
Actual occupant load for a	each exit door
☐ A separate schematic plan	indicating where fire rated floor/ceiling and/or roof structure is provided for
purposes of occupancy seg	paration
Location of doors with pa	nic hardware (1010.1.10)
Location of doors with de	layed egress locks and the amount of delay (1010.1.9.7)
Location of doors with ele	ectromagnetic egress locks (1010.1.9.9)
Location of doors equipped	ed with hold-open devices
☐ Location of emergency es	cape windows (1030)
☐ The square footage of eac	h fire area (202)
☐ The square footage of eac	h 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	Түре В	Түре В	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 AC	TOTAL#		
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACE	ACCESSIBLE	
			5' ACCESS AISLE	132" ACCESS 8' ACCESS		PROVIDED
				AISLE	AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

Ţ	USE 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)	
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:	

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Live Loads:	Roof psf Mezzanine psf Floor psf	
Ground Snow Load:	psf	
	sic Wind Speed mph (ASCE-7) posure Category	
SEISMIC DESIGN CATEGORY	Y:	
Provide the following Seismic Des Risk Category (Table 16 Spectral Response Accel	504.5)	%g
Site Classification (ASCI Data Sou] F cal Data
Basic structural system	□ Bearing Wall □ Dual w/Special M □ Building Frame □ Dual w/Intermed □ Moment Frame □ Inverted Pendulu □ Simplified □ Equivalent Lateral Force	liate R/C or Special Steel
Analysis Procedure: Architectural, Mechanic	cal, Components anchored?	B Dynamic
LATERAL DESIGN CONTROL	L: Earthquake Wind	
	of test report) psf acity psf	-

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) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed **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