2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)

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

Name of Project:					
	And the state of t			Zip Code	
Owner/Authorized Agent:				E-Mail	Company and Annual Company of Annual Company of Company
Owned By:	☐ City/County	☐ Private	☐ State		
Code Enforcement Jurisdiction:	☐ City	☐ County	☐ State		
CONTACT:					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				()	
Civil	CONTROL AND				
Electrical		(Park all Processors and a second a second and a second a			
Fire Alarm				()	
Plumbing		AT ME MANUAL WAR AND A STATE OF THE STATE OF		()	
Mechanical				()	
Sprinkler-Standpipe	***************************************			()	
Structural			400-400 Annual Annua	()	
Retaining Walls > 5 feet High			******	()	
Other		#		()	
("Other" should include firms	and individuals such as tru	ss, precast, pre-engineered	l, interior designers, etc.)		
2018 NC BUILDING CODE:	☐ New Building	☐ Shell/Core	☐ 1 st Time Interior Co	1	
2016 NC BUILDING CODE:	☐ Addition	☐ Phased Construction		impletions	
2018 NC EXISTING BUILDIN		☐ Prescriptive		□ Llistania Duomantu	
(check all that apply)	G CODE:	• •			
(check an that apply)		☐ Repair ☐ Chapter 14	☐ Alteration Level III	_	
CONSTRUCTED: (date)	CUDE	ENT USE(S) (Ch. 3):			
RENOVATED: (date)		OSED USE(S) (Ch. 3):			
OCCUPANCY CATEGORY (
OCCUPANCI CATEGORI (Table 1004.5): Current: _		Proposed:		
BASIC BUILDING DATA					
Construction Type:	□ I-A	□ II-A	□ III-A	□ IV	□ V-A
(check all that apply)	□ I-B	☐ II-B	□ III-B		□ V-B
Sprinklers:	☐ Partial	☐ NFPA 13	☐ NFPA 13R	☐ NFPA 13D	
Standpipes: No	Class 🗆 I		☐ Wet ☐ Dry		
Primary Fire District:	□ No □ Yes	Flood Haza	rd Area:	□ No □ Yes	
Special Inspections Required:	□ No □ Yes				
		GROSS BUILDING AR	EA TABLE		
Floor Ex	isting (sq ft) New (sq ft)	Subtotal		
3rd Floor					
2nd Floor					
Mezzanine					
1st Floor					
Basement					
TOTAL					

		A	LLOWABLE ARE	EA .		
Primary Occupancy Class	sification(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-3 Combust		☐ H-5 HPM	
Institutional	□ I-1	□ 1-2	□ 1-3	□ I-4		
I-3 Condition						
I-2 Condition			D. f.			
I-3 Condition	1 1 2	□ 3 □ 4	D 5			
Mercantile Residential	□ R-1	□ R-2	□ R-3	□ R-4		
Storage	□ S-1 Moderate	□ S-2 L		☐ High-piled		
Storage		ge 🗆 Open 🖵 Enclo		Repair Garag	e	
Utility and Mis		ge a Open a Bher	55CU	- repair outing		
Accessory Occupancy Cla						
Incidental Uses (Table 509						
,	ot exempt as a Nonse					
Special Uses (Chapter 4 –	List Code Sections) :	•			
Special Provisions: (Chap						
Mixed Occuupancy:	□ No □ Yes	Separation:	Hr.	Exception:	www.	
☐ Non-separated Use (508	.3)					
☐ Separated Use (508.4)—of the ratios of the actual flo						
Select one						
_Actual Area	of Occupancy A ra of Occupancy A	Actual Area	a of Occupancy B	- ≤1		
Allowable Are	ea of Occupancy A	A Allowable Ar	rea of Occupancy	$B \stackrel{\smile}{=} 1$		
		+		+ =	≤ 1.00	
STORY NO.	DESCRIPTION AND USE	(A) BLDG AF PER STO (ACTUA	RY A	(B) BLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2, 3}
					and the court of the state of t	
	0 .: 5060	4 - 1 - 1 - 1				
 Frontage area increases fra. Perimeter which fron 		•	feet minimum width	=(F)		
b. Total Building Perim						
c. Ratio (<i>F/P</i>) =						
d. $W = Minimum$ width 2. Unlimited area applicable						
3. Maximum Building Area			$\times D$ (maximum 3 sto	ories) (506.2).		
4. The maximum area of op 412.3.1.	pen parking garages	must comply with	Table 406.5.4. The	maximum area of	air traffic control towe	rs must comply with Table
5. Frontage increase is based	d on the unsprinklere	d area value in Table	s 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.

FIRE PROTECTION REQUIREMENTS

Agenta and a second and a second and a	FIRE RATING		TING	5			
BUILDING ELEMENT	SEPARATION DISTANCE (feet)	REQ'D	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				7-14-11-1-1			
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 Separation							
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 DISTANC (feet) FROM PROPERTY LINE	E	REE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
		LIFE SAFETY SYS	TEM REQUIREMENTS	
Emergency Lighting:	☐ Yes ☐ No			
Exit Signs:	☐ Yes ☐ No			
Fire Alarm:	🗆 Yes 🗖 No			
Smoke Detection Systems:	🗆 Yes 🗀 No			
Carbon Monoxide Detection:	☐ Yes ☐ No			
Life Safety Plan Sheet #:		LIFE SAFETY PL	AN REQUIREMENTS	
☐ Fire and/or smoke rated v	vall locations (C	hanter 7)		
☐ Assumed and real proper)	
☐ Exterior wall opening are				
☐ Occupancy Use for each				
☐ Occupant loads for each		F	, ,	
☐ Exit access travel distance				
☐ Common path of travel d		1006.2.1 & 1006.3.2(1)]	
☐ Dead end lengths (1020.4	4)			
☐ Clear exit widths for each	h exit door			
 Maximum calculated occ 	cupant load capac	city each exit door can	accommodate based on egress wid	th (1005.3)
☐ Actual occupant load for				
			ng and/or roof structure is provided	for purposes of occupancy separation
☐ Location of doors with pa				
☐ Location of doors with do				
☐ Location of doors with el			9)	
☐ Location of doors equipp				
☐ Location of emergency e				
☐ The square footage of eac☐ The square footage of eac☐			Classification I-2 (407.5)	
• •	-		ized regarding the items above	
a Note any code exception	o of table notes t	na may nave been um	ized regulating the items above	

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS ACCESSIBLE UNITS REQUIRED	ACCESSIBLE TYPE A UNITS UNITS REQUIRED	UNITS UN	PEB TYPEB IITS UNITS UIRED PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBILE PARKING (SECTION 1106)

	TOTAL # OF PARKING SPACES		# OF AC			
LOT OR PARKING			VAN SPA	VAN SPACES WITH		
AREA REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	ACCESSIBLE PROVIDED	
					*II 1.1	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	N	/ATERCLOSE	TS	URINALS		LAVATORIES		SHOWERS/	DRINKING	FOUNTAINS
3.	Male	Female	Unisex	UniiitALB	Male	Female	Unisex	TUBS	Regular	Accessible
SPACE	EXIST'G									
	NEW									
	REQ'D									

SPE	CIAL	APPR	OVA	LS
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Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, 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 versus the annual energy cost for the proposed design.

cost for the standard reference design versus the annua	if energy cost for the proposed design.
Existing building envelope complies with code: \Box	(If checked, the remainder of this section is not applicable.)
Exempt Building: Provide code or statutory references.	ence:
Climate Zone: 3A 4A 5A	
Method of Compliance:	
Energy Code: Performance Press	criptive
ASHSAE 90.1: ☐ Performance ☐ Press	criptive
Other: Performance (specify source)	
THERMAL ENVELOPE: (Prescriptive method only	y)
Roof/ceiling Assembly (each assembly)	
D. J. C	
	And the same of th
<i>U</i> -Value of skylight:	
total square footage of skylights in each as	sembly:
Exterior Walls (each assembly)	
Description of assembly	
U-Value of total assembly:	
<i>R</i> -Value of insulation:	
Openings (windows or doors with glazing)	
•	
Solar heat gain coefficient:	
projection factor:	***************************************
Door <i>R</i> -Values:	·
Walls below grade (each assembly)	
Description of assembly:	A MANAGEMENT AND A MANA
<i>U</i> -Value of total assembly:	
R-Value of insulation:	
Floors over unconditioned space (each asse	mbly)
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:	· AND COURSE

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

(PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)

DESIGN LOADS:		
Importance Factors:	Wind (I_W)	MMTM CHIEF AND
	Snow (I_S)	
	Seismic (I_E)	
Live Loads:	Roof	psf
	Mezzanine	psf
	Floor	psf
Ground Snow Load:	psf	
Wind Load:	•	rd mph (ASCE-7)
	Exposure Catego	ry
SEISMIC DESIGN CATEGO	ORY:	
Provide the following Seismic	Design Parameter	rs:
Spectral Response Ac	celeration S_{S-}	%g S1%g
Site Classification (AS	SCE 7)	
Dat	a Source:	☐ Field Test ☐ Presumptive ☐ Historical Data
Basic structural syste	m (check one)	
Bearing Wall		☐ Dual w/Special Moment Frame
Building Frame		□ Dual w/Intermediate R/C or Special Steel
Moment Frame		□ Inverted Pendulum
Analysis Procedure:		□ Equivalent Lateral Force □ Dynamic
Architectural, Mecha	nical, Componer	nts anchored? Yes No
LATERAL DESIGN CONTI	ROL:	☐ Earthquake ☐ Wind
SOIL BEARING CAPACITI		
Field Test (provide cop	y of test report)_	psf
Presumptive Bearing capacity		psf
Pile size, type, and cap	acity	

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE) MECHANICAL SUMMARY

	ICE 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:		
	The state of the s	
Mechanical Spacing Condit	oning System	
Mechanical Spacing Condit	oning System	
Mechanical Spacing Condit Unitary		
Mechanical Spacing Condit Unitary description of unit		
Mechanical Spacing Condit Unitary description of unit heating efficiency:		
Mechanical Spacing Condit Unitary description of unit heating efficiency: cooling efficiency:		
Mechanical Spacing Condit Unitary description of unit heating efficiency: cooling efficiency: size category of unit:		
Mechanical Spacing Condit Unitary description of unit heating efficiency: cooling efficiency: size category of unit: Boiler		
Mechanical Spacing Condit Unitary description of unit heating efficiency: cooling efficiency: size category of unit: Boiler		

2018 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: □ Prescriptive □ Performance ASHRAE 90.1: □ Prescriptive □ Performance
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 presified versus allowed (whole building on press by green)
total interior wattage specified versus allowed (whole building or space by space) total exterior wattage specified versus allowed
Additional Prescriptive Compliance □ 506.2.1 More Efficient Mechanical Equipment □ 506.2.2 Reduced Lighting Power Density □ 506.2.3 Energy Recovery Ventilation Systems □ 506.2.4 Higher Efficiency Service Water Heating □ 506.2.5 On-Site Supply of Renewable Energy □ 506.2.6 Automatic Daylighting Control Systems