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:					
				Zip Code	
Owner/Authorized Agent:			-	E-Mail	
Owned By:	☐ City/County	☐ Private	☐ State		
Code Enforcement Jurisdiction:	☐ City	☐ County	☐ State		
CONTACT:					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural					
Civil				, ,	
Electrical					
Fire Alarm					
Plumbing				()	
Mechanical					
Sprinkler-Standpipe					
Structural				()_	
Retaining Walls > 5 feet High				_ ()	
Other				()	
("Other" should include firms	and individuals such as tr	ıss, precast, pre-engineere	d, interior designers, etc)	
2018 NC BUILDING CODE:	☐ New Ruilding	☐ Shell/Core	☐ 1 st Time Interior C	ompletions	
2010 NO BOILDING CODE.	☐ Addition	□ Phased Construction		ompletions	
2018 NC EXISTING BUILDIN		☐ Prescriptive		I □ Historic Property	V
(check all that apply)		□ Repair		II □ Change of Use	,
(Control of Proj)		□ Chapter 14	☐ Alteration Level I		
CONSTRUCTED: (date)	CURI	RENT USE(S) (Ch. 3):			
RENOVATED: (date)		POSED USE(S) (Ch. 3): _			
OCCUPANCY CATEGORY (
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 Haz		□ No □ Yes	
Special Inspections Required:		riood Haz	aru Arca.	3 110 3 163	
special inspections required.	2110 2163	GROSS BUILDING AI	REA TABLE		
Floor Ex	isting (sq ft) New	(sq ft)	Subtotal		
3rd Floor	noting (oq 10)	(oq xi)	Sacrota		
2nd Floor					
Mezzanine					
1st Floor					
Basement			-	-	
TOTAL					

		A	LLOWABLE ARE			
Primary Occupancy Cla	ssification(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-4		
I-3 Conditi						
I-2 Conditi						
I-3 Conditi		3 4	□ 5			
Mercantile						
Residential		□ R-2	□ R-3	□ R-4		
Storage	□ S-1 Moderate	□ S-2 L		☐ High-piled		
T7/11/		e□ Open □ Enclo	osed	☐ Repair Garage	2	
Utility and M	iscellaneous					
Accessory Occupancy C	lassification(s):		<u></u>			
Incidental Uses (Table 50	09):					
•	not exempt as a Nonsep	•	•			
Special Uses (Chapter 4						
Special Provisions: (Cha						
Mixed Occuupancy:		Separation:	Hr.	Exception:		
□ Non-separated Use (50			. a ca		1 at a d	
☐ Separated Use (508.4)-of the ratios of the actual						
Select one		·				
			-			
Actual Are	ea of Occupancy A rea of Occupancy A	+ Actual Area	of Occupancy B	<u>-</u> ≤ 1		
Allowable A	геа ог Оссирансу А	Allowable Ar	еа от Оссирансу 1	5		
					< 1.00	
		H	+	+ = <u> </u>	_≤1.00	
	DESCRIPTION	(A) BLDG AR	FΔ	(B)	(C) AREA FOR	(D) ALLOWABLE
STORY NO.	AND USE	PER STO	RY IAB	SLE 506.2 ⁴ AREA	FRONTAGE_	AREA PER STORY OR UNLIMITED ^{2, 3}
		(ACTUA	L)		INCREASE ^{1, 5}	UNLIMITED-, 5
1. Frontage area increases						
	onts a public way or ope	n space having 20 f	eet minimum width	=(F)		
b. Total Building Pering.	$meter = \underline{\qquad} (P)$					
	h of public way =	(W)				
2. Unlimited area applicab	le under conditions of S	ection 507.				
3. Maximum Building Are					air traffic sants-1 to-	o must comply with T-11
4. The maximum area of 412.3.1.	open parking garages r	nust comply with T	able 406.5.4. The f	maximum area of a	air traffic control tower	s must comply with Table
5. Frontage increase is bas	ed 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.

FIRE PROTECTION REQUIREMENTS

		1 1112 1 11012					
BUILDING ELEMENT	FIRE SEPARATION DISTANCE	RA REQ'D	PROVIDED (W/ *	DETAIL #	DESIGN # FOR RATED	SHEET # FOR RATED	SHEET # FOR RATED
	(feet)	REQU	REDUCTION)	SHEET#	ASSEMBLY	PENETRATION	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 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

		INCENTAGE 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 (%)
Emarganay Lighting	☐ Yes ☐ No		EM REQUIREMENTS	
Emergency Lighting:				
Exit Signs:	☐ Yes ☐ No			
Fire Alarm:	☐ Yes ☐ No			
Smoke Detection Systems:	☐ Yes ☐ No			
Carbon Monoxide Detection:	☐ Yes ☐ No)		
Tree of the property of		LIFE SAFETY PLA	IN REQUIREMENTS	
Life Safety Plan Sheet #:	11.1			
☐ Fire and/or smoke rated v				
 Assumed and real proper 	•	•		
☐ Exterior wall opening are	_	_		
☐ Occupancy Use for each		to occupant load calcula	ation (Table 1004.1.2)	
Occupant loads for each :				
 Exit access travel distance 	es (1017)			
 Common path of travel d 	listances [Tables	s 1006.2.1 & 1006.3.2(1)	0]	
☐ Dead end lengths (1020.4	4)			
 Clear exit widths for each 	h exit door			
 Maximum calculated occ 	cupant load capa	city each exit door can a	ccommodate based on egress width	(1005.3)
 Actual occupant load for 	each exit door			
☐ A separate schematic plan	n indicating who	ere fire rated floor/ceiling	g and/or roof structure is provided for	or purposes of occupancy separation
☐ Location of doors with pa	anic hardware (1010.1.10)		
☐ Location of doors with do	elayed egress lo	cks and the amount of de	elay (1010.1.9.7)	
 Location of doors with el 				
☐ Location of doors equipp				
☐ Location of emergency e	-			
☐ The square footage of each	_			
☐ The square footage of each			Classification I-2 (407.5)	
•	•		zed regarding the items above	

ACCESSIBLE DWELLING UNITS (SECTION 1107)

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

ACCESSIBILE PARKING (SECTION 1106)

	TOTAL # OF PA	RKING SPACES	# OF AC	CESSIBLE SPACES P	ROVIDED		
LOT OR PARKING				VAN SPA	CES WITH	TOTAL # ACCESSIBLE	
AREA	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	PROVIDED	
TOTAL							

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	w	ATERCLOSET	rs	URINALS	LAVATORIES			SHOWERS/	DRINKING FOUNTAINS	
USL	Male	Female	Unisex	UNINALS	Male	Female	Unisex	TUBS	Regular	Accessible
SPACE	EXIST'G									
	NEW									
	REQ'D									

SPECIAL APPROVALS

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.

Existing building envelope complies with code: \Box (If checked, the remainder of this section is not applicable.)
Exempt Building: Provide code or statutory reference:
Climate Zone: □ 3A □ 4A □ 5A
Method of Compliance: Energy Code: □ Performance □ Prescriptive ASHSAE 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:

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)	
	Snow (I_S)	
	Seismic (I_E)	
Live Loads:	Roof	psf
	Mezzanine	psf
	Floor	psf
Ground Snow Load:	psf	
Wind Load:	Basic Wind Spee Exposure Catego	d mph (ASCE-7) ry
SEISMIC DESIGN CATEG	ORY:	□ A □ B □ C □ D
Provide the following Seismic	Design Parameter	S:
Spectral Response Ac	cceleration S_{S}	%g S1%g
Site Classification (A	SCE 7)	OA OBOC OD OEOF
Da	ta 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, Componen	ts anchored? Yes No
LATERAL DESIGN CONT	ROL:	□ Earthquake □ Wind
SOIL BEARING CAPACIT	IES:	
Field Test (provide co	y of test report) _	psf
Presumptive Bearing of	apacity	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

winter dry bulb:		
summer dry bulb:		
summer dry build.		
Interior design conditions		
winter dry bulb:		
summer dry bulb:		
relative humidity:		
rotati to monimum,		
Building heating load:		
Building cooling load:		
Mechanical Spacing Condi	ioning System	
Unitary		
heating efficiency:		
cooling efficiency:		
size category of unit:		
Boiler	· · · · · · · · · · · · · · · · · · ·	
	sized, state reason.:	
	, <u></u>	
Chiller		
Chiller Size category. If over	sized, state reason.:	

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 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