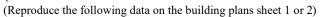
BUILDING CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS & TOWNHOUSES)





Name of Project:				
Address:			Zip Cod	e
Owner/Authorized Agent:				
_	City/County		Stat	
CONTACT:				
DESIGNER FIRM	NAME	LICENSE#	TELEPHONE#	E-MAIL
Architectural			. ()	
Civil				-
E: A1			()	
Dll.:			<i>(</i>)	
Mechanical			()	
Sprinkler-Standpipe			/	-
Structural Retaining Walls >5' High				
Other				-
("Other" should include firms and in			ered, interior design	ners, etc.)
	New Building 1st Time Interior Comples Shell/Core - Contact the procedures and requirer Phased Construction - Spossible additional procedures and procedures and requirer Phased Construction - Spossible additional procedures and requirer Phased Construction - Spossible additional procedures are procedured as a procedure and procedure and procedure are procedured as a procedure and procedure are procedured as a procedure and procedure are procedured as a procedure and procedure and procedure are procedured as a procedure and procedure and procedure are procedured as a procedure are procedured as a procedure and procedure are procedured as a procedure and procedure are procedured as a procedure are procedured as procedured are procedured as a procedure are procedured as a pro	letion blocal inspection junents chell/Core- Contactedures and requires	urisdiction for poss t the local inspection	on jurisdiction for
2018 NC EXISTING BUILDING			Repair	Chapter 14 Level III
		☐ Level I ☐ Historic Prope	_	Change of Use
CONSTRUCTED: (date)		-	CY(S) (Ch. 3):	•
RENOVATED: (date)			CY(S) (Ch. 3):	
· / —			`	
RISK CATEGORY (Table 1604.5)		: = =	III 🔲 IV	
	Proposea: _	I II I	III	
BASIC BUILDING DATA				
Construction Type:	□II-A	□III-A	□IV	□V-A
(check all that apply)	□II-B	□III-B	_	□V-B
Sprinklers: No Partial			PA 13R □NFP	A 13D
Standpipes: No Yes	Class I II	_ =	et Dry	-
Fire District: No Yes	Flood Hazard	_ =		
Special Inspections Required:		· · · · · · · · · · · · · · · · · · ·	n jurisdiction for ad	ditional
r		es and requiremen		

FLOOR 3 rd Floor 2 nd Floor	EXISTING (SQ FT)	3 T ()	
		NEW (SQ FT)	Sub-Total
7110 LTO 0**			
Mezzanine 1 st Floor			
Basement			
TOTAL			
TOTAL			
		ALLOWABLE AREA	
Primary Occupa	ancy Classification(s): S	elect one Select one Select one Select	ect one Select one Select one
Assembly	□ A-1 □ A-2 □ A	A-3	
Business			
Educational			
Factory	☐ F-1 Moderate ☐ F-	2 Low	
Hazardous	H-1 Detonate H-	-2 Deflagrate H-3 Combust H-4	4 Health ☐ H-5 HPM
Institutional	I-1 Condition 1	\square 2	
	☐ 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 I	<u> </u>	
Storage		S-2 Low High-piled	
	· · · —	Open Enclosed Repair Garage	
•	Miscellaneous		
ncidental Uses			
-	=	etions):	
-	ns: (Chapter 5 – List Co	· ·	
Mixed Occupan	cy: No Yes	Separation: Hr. Exce	eption:
□ Non-		The required type of construction for t applying the height and area limitatio occupancies to the entire building. The construction, so determined, shall approximately	ns for each of the applicable he most restrictive type of
☐ Sepa	be su	pelow for area calculations for each sto such that the sum of the ratios of the actu llowable floor area for each use shall r	ual floor area of each use divided by
	l Area of Occupancy A le Area of Occupancy A	+ <u>Actual Area of Occupancy B</u> Allowable Area of Occupancy B	

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)
- = (P)Total Building Perimeter b.

- c. Ratio (F/P) = ____(F/P) d. W = Minimum width of public way = ___(W) e. Percent of frontage increase $I_f = 100[F/P 0.25] \times W/30 =$ ____(%)

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.

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.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE		RATING	DETAIL#	DESIGN#	SHEET # FOR	SHEET#
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR
	DISTANCE (FEET)		(W/* REDUCTION)	SHEET #	RATED ASSEMBLY	PENETRATION	RATED JOINTS
Structural Frame,	(LLLI)		,		TISSENTE I		001.115
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 Separati	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 (%)

		LIFE SAFETY SYSTEM	M REQUIREMENTS					
	Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Carbon Monoxide Detection:	No Yes No Yes No Yes No Yes No Yes No Yes						
_		LIFE SAFETY PLAN R	EQUIREMENTS					
	Life Safety Plan Sheet #:							
	Fire and/or smoke rated wall Assumed and real property lin Exterior wall opening area wi Occupancy Use for each area Occupant loads for each area Exit access travel distances (1 Common path of travel distan Dead end lengths (1020.4) Clear exit widths for each exi Maximum calculated occupan Actual occupant load for each A separate schematic plan ind purposes of occupancy separate	ne locations (if not on the sith respect to distance to as a as it relates to occupant location (Tables 1006.2.1 & 10 it door nt load capacity each exit door dicating where fire rated flocation	ssumed property lines (705. ad calculation (Table 1004. 06.3.2(1))	1.2) d on egress width (1005.3)				
	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	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 SPAC	ES WITH	ACCESSIBLE
			5' ACCESS AISLE	132" ACCESS	8' ACCESS	PROVIDED
				AISLE	AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

J	JSE	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: 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:

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors:	Snow (Is) Seismic (I _E)
	Roof psf Mezzanine psf Floor psf
Ground Snow Load:	psf
	c Wind Speed mph (ASCE-7)
SEISMIC DESIGN CATEGORY:	:
Provide the following Seismic Desiş Risk Category (Table 160 Spectral Response Accele	4.5) 🔲 I 💮 III 🔲 IV
Site Classification (ASCE Data Sour	
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
Architectural, Mechanica	ll, Components anchored? Yes No
LATERAL DESIGN CONTROL:	Earthquake Wind Wind
	f test report)psf citypsf

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:	

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	