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	t:								
			Zip Code						
Owner/Authoriz	Owner/Authorized Agent:			E-Mai	1				
Owned By									
Code Enforceme	ent Jurisdiction:								
	his section. Code Enforcemer	nt Jurisdiction refers to	the jurisdiction having o	authority. For Fayetteville	e, you would enter "City				
of Fayetteville".									
CONTACT: _									
DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE #	E-MAIL				
Architectural				_ ()					
Civil				_ ()					
Electrical			_		·				
Fire Alarm Plumbing									
Mechanical				_ ()	·				
	pipe			_ ()					
Structural				()					
Retaining Walls	>5' High			()					
Other				()	·				
	include firms and indiv								
	ou will enter the appropriate	information on who p	repared the plan packag	ge. Write "N/A" in lines th	nat no one helped in				
preparation of the p	искиуе.								
2010 NG PUIL	DIVIG GODE								
2018 NC BUIL									
This section refers to	o which codes will apply to yo	our project:							
_	footing, slab, foundation, w	_	The state of the s	oof coverings, etc.					
	ical= HVAC, refrigeration, exh l= wiring including low-volta								
	g= drain, waste, and vent pip			nd irriaation: etc.					
	prevention systems, etc.	5, 111 pp 5	. g, g, .	J. 1. 7					
2018 NC EXIS	TING BUILDING CO	DDE							
This selection is for the standard codes.	when you have opted to use	the North Carolina Exis	sting Code. Please note t	that this code only allows	some modifications to				
To view the free	online abbreviated code	es, please visit: http	os://www.ncosfm.gov	v/codes					
CONSTRU	JCTED: (date)	CUR	RENT OCCUPAN	NCY(S) (Ch. 3): _					
RENOVA	ΓΕD: (date)	PRO	POSED OCCUPA	NCY(S) (Ch. 3): _					
	dates, you can visit the Cumb gis.com/apps/webappviev	•		177366288589be7					
Current and propose	ed occupancy refers to the O	ccupancy Classification	n. This information can b	be found in Chapter 3 of t	the North Carolina				

2018 NC Administrative Code and Policies

Building Code.

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Commentary in this color and font.

RISK CATEGORY (Table 1604.5): Current:

Proposed:

Risk categories will apply to a <u>Change of Occupancy Classification</u> and in particular if there is no construction part of the project. Chapter 10 of the North Carolina Existing Code covers the requirements and you can find the particular **RISK CATEGORY** at these charts:

- Sprinkler Hazard Categories; Table 1012.2.1
- Means of Egress Hazard Categories; Table 1012.4
- Heights and Areas Hazard Categories; Table 1012.5
- Exposure of Exterior Walls Hazard Categories; Table 1012.6

BASIC BUILDING DATA

Construction Type:

See North Carolina Building Code chapter 6:

- 602.2; Types I and II
- 602.3; Type III
- 602.4; Type IV
- 602.5; Type V

Sprinklers:

See North Carolina Building Code chapter 9, section 903. If the fire area for the occupancy classification meets the square footage, fire sprinklers will have to be installed. If none or none required, enter "N/A"

Standpipes:

See North Carolina Building Code chapter 9, section 905. If none or none required, enter "N/A"

Primary Fire District:

Flood Hazard Area:

You can find if your property is in the Fire District by visiting: (If not in district, enter "NO"

https://www.fayettevillenc.gov/city-services/development-services/permitting-inspections/guidance-documents

To see if the property is in a designated flood hazard area visit: (if not in flood hazard area, enter "NO"

https://www.fayettevillenc.gov/city-services/public-services/engineering/stormwater

Special Inspections Required:

See North Carolina Building Code chapter 17 to see if a specialized engineering professional is required to inspect a particular component, element, and/ or system of your project. If yes, then list the system, code section, and professional or firm doing the inspection. If none, then enter "N/A".

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

Enter the square footage into the appropriate section. If none, enter "0"

ALLOWABLE AREA

Primary Occupancy Classification(s):

See North Carolina Building Code chapter 3

Accessory Occupancy Classification(s):

See North Carolina Building Code chapter 3 and section 508.2. If none, enter "N/A"

Incidental Uses (Table 509):

See North Carolina Building Code chapter 5, section 509, Table 509. If none, enter "N/A"

Special Uses (Chapter 4 – List Code Sections):

See North Carolina Building Code 4. Example: If your project includes Hazardous Materials, you would enter NCBC section 414. If none, enter "N/A"

Special Provisions: (Chapter 5 – List Code Sections):

See North Carolina Building Code chapter 5. Example: If your project includes mixed-use occupancy classifications, you would enter NCBC section 508. If none, enter "N/A"

Mixed Occupancy: Separation:

See North Carolina Building Code chapter 5, section 508, Table 508.4 for separation requirements. This refers to fire-rated assemblies such as walls, floors, ceilings, etc. If none, enter "N/A". If there is, then enter the required rating. It is best to ensure that any existing walls, floors, ceilings, etc. that will be required to be rated are rated on site as this may add unexpected costs to your project.

Exception:

Select one

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 506.3 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 $I_f = 100[F/P 0.25] \times W/30 =$ _____(%)

This area is generally used for new construction. If it does not apply, enter "N/A"

² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4.

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

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1
Building Height in Feet (Table 504.3) ²			
Building Height in Stories (Table 504.4) ³			<u> </u>

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

See North Carolina Chapter 5 Table 504.3/504.4. This is generally for new construction however; the RISK CATEGORY for building heights in the North Carolina Existing Building Code (Table 1012.5) may prevent you from using an existing property for your project.

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
C 1F	(FEEI)		REDUCTION		ASSEMBLY		JOINTS
Structural Frame,			_				
including columns, girders, trusses							
Bearing Walls				*			
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East	7						
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							

² The maximum height of air traffic control towers must comply with Table 412.3.1.

³ The maximum height of open parking garages must comply with Table 406.5.4.

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Commentary in this color and font.

Sommentary in inis color and joni.			
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

See North Carolina Building Code chapter 7. Enter the distance and fire ratings in the appropriate section. All fire rated assemblies and/or penetrations should include a copy of the UL spec sheet in the plan package.

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 (%)
	(TABLE 103.0)		/

See North Carolina Building Code chapter 7, Table 705.8. This section determines the distance to property lines and due to the distance how many windows and doors may be on the building.

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: North Carolina Building Code section 1008

Exit Signs: North Carolina Building Code section 1013 Fire Alarm: North Carolina Building Code section 907

Smoke Detection Systems: North Carolina Building Code chapter 9
Carbon Monoxide Detection: North Carolina Building Code section 915

Enter "Yes" if these items are present or will be installed for the project.

LIFE SAFETY PLAN REQUIREMENTS

Life Sa	afety Plan Sheet #:
	Fire and/or smoke rated wall locations (Chapter 7)
	Assumed and real property line locations
	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 (Table 1004.1.2)
	Exit sign locations (1013)
	Exit access travel distances (1017)
	Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
	Dead end lengths (1020.4)
	Clear exit widths for each exit door (1007)
	Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
	Actual occupant load for each exit door

APPENDIX B GUIDANCE FORM. NOT FOR SUBMITTAL PURPOSES Commentary in this color and font. 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 Select each applicable item and have shown on the plan package. ACCESSIBLE DWELLING UNITS (SECTION 1107) Unit TOTAL ACCESSIBLE ACCESSIBLE TYPE A TYPE A TYPE B TYPE B TOTAL CLASSIFICATION Units Units Units Units Units Units Units ACCESSIBLE REQUIRED PROVIDED REQUIRED **PROVIDED** REQUIRED **PROVIDED** UNITS PROVIDED This section is applicable to apartments, hotels, etc. Enter "N/A" if not apartments, hotels, etc. See North Carolina Building Code Table 1107 **ACCESSIBLE PARKING** (SECTION 1106) # OF ACCESSIBLE SPACES PROVIDED LOT OR PARKING AREA TOTAL # OF PARKING SPACES TOTAL # ACCESSIBLE 96" SPACES 132" SPACES REQUIRED PROVIDED PROVIDED TOTAL

See North Carolina Building Code section 1106.1

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Commentary in this color and font.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		W	ATERCLOSI	ETS	URINALS	LAVATORIES		SHOWERS	DRINKING	FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW										
	REQ'D										

See North Carolina Building Code Chapter 29. This area cannot be blank or N/A.

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

PLEASE CONTACT THE CITY OF FAYETTEVILLE TO SEE IF ANY SPECIAL APPROVALS ARE REQUIRED.

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: Select one
Exempt Building: Select one Provide code or statutory reference:
Climate Zone: Select one
Method of Compliance: Select one (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 Walle (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: R-Value of total assembly: U-Value of total assembly: U-Value of total 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:
This information can be filled out by referencing the North Carolina Energy Conservation Code or submit a COMCHECK from: https://www.energycodes.gov/comcheck

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STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS: Importance Factors: Snow (I_S) Select one Seismic (I_E) Select one **Live Loads:** Roof Mezzanine ____ psf Floor ____ psf **Ground Snow Load:** ____ psf mph (ASCE-7) Wind Load: Ultimate Wind Speed Exposure Category Select one SEISMIC DESIGN CATEGORY: Select one Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) Select one **Spectral Response Acceleration** S_S_ _ %g **Site Classification** (ASCE 7) Select one Data Source: Select one **Basic structural system** Select one **Analysis Procedure:** Select one Architectural, Mechanical, Components anchored? Select one LATERAL DESIGN CONTROL: Select one

psf

See North Carolina Building Code chapter 16.

SOIL BEARING CAPACITIES:Select one

Pile size, type, and capacity

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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:

This section can be filled out using the ACCA Manual N or other accepted engineering practice. If no new mechanical systems are to be installed on an existing project, then enter "N/A". Please note that the ventilation will have to be updated in accordance to the North Carolina Mechanical Code section 403.

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ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM A	ND EQUIPMENT
---------------------	--------------

cure type) in fixture fixture the fixture n fixture ture e specified vs. allowed (whole building or space by space)
fixture the fixture n fixture ture e specified vs. allowed (whole building or space by space)
the fixture n fixture ture e specified vs. allowed (whole building or space by space)
n fixture ture e specified vs. allowed (whole building or space by space)
ture e specified vs. allowed (whole building or space by space)
e specified vs. allowed (whole building or space by space)
ge specified vs. allowed
age Options
CC; not required for ASHRAE 90.1)
ficient HVAC Equipment Performance
Lighting Power Density
d Digital Lighting Controls
Renewable Energy
ed Outdoor Air System
Energy Use in Service Water Heating

The City of Fayetteville cannot fill this form out for you, only guide you to where you can find the information.