



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

CODE INFORMATION
APPENDIX B

DATE 12.04.2020
PROJECT NO 20003
REVISIONS
NUM. DATE DESCRIPTION:

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SEAL

G001

SHEET NUMBER

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

SEE SHEET E001FOR ELECTRICAL SUMMARY

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)

Roofing Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: U-0.02 _____
R-Value of insulation: R-25 _____
Skylights in each assembly: NA _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: U-0.02 _____
R-Value of insulation: R-25 _____
Openings (windows or doors with glazing): _____
U-Value of assembly: U-0.02 _____
Solar heat gain coefficient: 1" Insulating Glass SHGC-0.27, Bullet Resisting Glass SHGC-0.27
projection factor: 0.03 _____
Door R-Value: 1.1 _____

Walls below grade (each assembly)
Description of assembly: NA _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: NA _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: 4" or 8" Concrete Slab-on-Grade, 10 mil Poly, Vapor Retarder, 6" Gravel
U-Value of total assembly: _____
R-Value of insulation: R-8 _____
Horizontal/vertical requirement: NA _____
slab tested: NA _____

2018 NC Administrative Code and Policies

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	R/C ¹	RATING PROVIDED (N/A = REDUCTION)	DETAIL # & SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, beams		0	0				
Exterior Walls	> 30'	0	0				
Roofing	> 30'	0	0				
North	> 30'	0	0				
East	> 30'	0	0				
West	> 30'	0	0				
South	> 30'	0	0				
Interior		0	0				
Nonbearing Walls and Partitions							
Exterior walls	> 30'	0	0				
North	> 30'	0	0				
East	> 30'	0	0				
West	> 30'	0	0				
South	> 30'	0	0				
Interior walls and partitions							
North							
East							
West							
South							
Floor Construction including supporting beams and joists		0	0				
Floor Ceiling Assembly		0	0				
Column Supporting Floor		-					
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Column Supporting Roof		0	0				
Shaft Enclosures - Exit		-					
Shaft Enclosures - Other		-					
Corridor Separation		0	0				
Stairways/Elevator Enclosure Separation		2		G110	UL1005L49	G110*	
Party/Fire Wall Separation		-					
Smoke Barrier Separation		-					
Smoke Partition		-					
Tramway/Dwelling Unit Separation		1/2	1/2	G110	UL1419	G110*	G110
Incidental Use Separation		-	Sprinklered				

* Indicate section number permitting reduction

G110* - Penetration details referred to specific F/P/M/E sheets from G110.

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PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'	UP	NO LIMIT	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes

Exit Signs: ☐ No ☒ Yes

Fire Alarm: ☐ No ☒ Yes

Smoke Detection System: ☐ No ☒ Yes ☐ Partial _____

Carbon Monoxide Detection: ☐ No ☒ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G101

☒ Fire and/or smoke rated wall locations (Chapter 7)

☒ Assumed and real property line locations (if not on the site plan)

☒ 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 1006.1.2)

☒ Occupant loads for each area

☒ 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

☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

☒ Actual occupant load for each exit door

☐ 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 (1020)

☐ The square footage of each fire area (202)

☐ The square footage of each smoke compartment for Occupancy Classification 1-2 (407.5)

☐ Note any code exceptions or table notes that may have been utilized regarding the items above

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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
11	1	11			1	11

ACCESSIBLE PARKING (SECTION 1106)					
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED		
			REGULAR WITH 5' ACCESSIBLE	132" ACCESSIBLE	VAN SPACES WITH 8' ACCESSIBLE
17050	79	2			
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)									
USE	WATER CLOSETS			URINALS			SHOWERS		
	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	7-FOOT	REGULAR	ACCESSIBLE
SPACE	3	5	4	2	3	3	4	9+*	2
REQ'D	6	7			4	4		4	1

* emergency eye wash

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc. describe below)
North Carolina Department of Insurance/Office of the State Fire Marshal: Public Building > 20,000 s.f.
City of Clinton Planning and Zoning Board: Land Development Ordinance, Sign Permit

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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: Sampson County 911 and Emergency Services Facility

Address: 530 Commerce Street, Clinton, NC

Owner/Authorized Agent: James G. Powell, Phone # (910) 292 - 4508

E-Mail: james@adwarchitects.com

Owned By: ☒ City/County ☐ Private ☐ State

Code Enforcement Jurisdiction: ☒ City Zoning ☒ County - AHJ ☒ State OSFM Review

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	ADW Architects	James G. Powell, AIA	5424	(204) 379-1919	jpowell@adwarchitects.com
Civil	Bousch	Wesley L. Bousch, PE	15471	(204) 271-9880	Wbousch@bousch.com
Electrical	Optima Engineering	Franklin L. Miller, PE	28297	(204) 218-2192	franklin@optimaengineering.com
Fire Alarm	Optima Engineering	Franklin L. Miller, PE	28297	(204) 218-2192	franklin@optimaengineering.com
Plumbing	Optima Engineering	Daniel A. Revilla, PE	43866	(204) 218-2192	drevilla@optimaengineering.com
Mechanical	Optima Engineering	Ronald M. Almond, PE	17238	(204) 218-2192	ralmond@optimaengineering.com
Sprinkler-Standpipe	Optima Engineering	Daniel A. Revilla, PE	43866	(204) 218-2192	drevilla@optimaengineering.com
Structural	Stewart	Lance D. Williams, PE	26485	(204) 218-2192	LWilliams@stewart.com
Landscape	Bousch	Wesley L. Bousch, PE	15471	(204) 271-9880	Wbousch@bousch.com
Interiors	ADW Architects	James G. Powell, AIA	5424	(204) 379-1919	jpowell@adwarchitects.com

2018 NC BUILDING CODE: ☒ New Building ☐ Addition ☐ Renovation

☐ 1" Time Interior Completion

☐ Shell/Corr - Contact the local inspection jurisdiction for possible additional procedures and requirements

☐ Phased Construction - Shell/Corr - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14

Alteration: ☐ Level I ☐ Level II ☐ Level III

☐ Historic Property

CONSTRUCTED: (date) _____

RENOVATED: (date) _____

CURRENT OCCUPANCY(S) (Ch. 3): _____

PROPOSED OCCUPANCY(S) (Ch. 3): _____

RISK CATEGORY (Table 1604.5): Current: ☐ I ☐ II ☐ III ☐ IV

Proposed: ☐ I ☐ II ☐ III ☐ IV

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: ☐ No ☐ Partial ☒ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Flood Hazard Area: ☒ No ☐ Yes

Special Inspections Required: ☐ No ☒ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

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Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor		36,587	
Basement			
TOTAL		36,587	

ALLOWABLE AREA

Primary Occupancy Classification(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 Condition ☐ I-2 ☐ I-3 Condition ☐ I-4

Residential ☐ R-1 ☐ R-2 ☒ R-3 ☐ R-4 See Section 310.5 Residential Group R-3

Storage ☐ S-1 Moderate ☒ S-2 Low ☐ High-piled

Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): N/A

Incidental Uses (Table 309): Laundry Room > 100 S.F., UPS Battery Storage > 1,000 lbs.

Special Uses (Chapter 4 - List Code Section): Section 420 Residential Group R-3

Special Provisions: (Chapter 5 - List Code Section): N/A

Mixed Occupancy: ☐ No ☒ Yes Separation: 0 Hr. Exception: R-3 (1/2-HR), Server Room (2-HR)

☒ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \dots = \text{_____} \leq 1.00$$

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STORY	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL) AREA	(B) TABLE 506.2 ¹ AREA FOR FRONTAGE INCREASE ²	(C) ALLOWABLE AREA PER STORY (UNLIMITED) ³
1	911 & E.S.	36,587	24,000	42,000

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 = 1353 (F)
b. Total Building Perimeter = 1353 (P)
c. Ratio (P/F) = 1.00 (F/P)
d. W = Minimum width of public way = 30 (W)
e. Percent of frontage increase $I = 100(P/F - 0.25) \times W/30 = 75$ (%)
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	55'	26'	-
Building Height in Stories (Table 504.4) ³	2	1	-

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