Code Summary

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:I	Building S1 Baucom Bus	iness Plaza	
Address:	11132 US 401 N., Fuqua	y-Varina, NC	Zip Code <u>27526</u>
Owner/Authorized Agent: [Γhaddeus C. McLean	Phone # <u>919-601-1402</u>	E-Mail tmclean0520@gmail.com
Owned By:	City/County	✓ Private	State
Code Enforcement Jurisdict	tion: Lity	$oxed{oxed}$ County $oxed{ ext{Ha}}$	<u>rnett</u> State
Code Enforcement Jurisdict	cion: City	\times County <u>Ha</u>	mett State
Code Enforcement Jurisdict	ion:	⊠ County <u>Ha</u>	mett State
Code Enforcement Jurisdict CONTACT: Steve Hall, A			mett State
		LICENSE TELEPHONE	E-MAIL
CONTACT: Steve Hall, A	JA NAME		
CONTACT: Steve Hall, A	JA NAME	LICENSE TELEPHONE	E-MAIL
CONTACT: Steve Hall, A DESIGNER FIRM Architectural Steve Hall Architect	NAME Steve Hall Jack Hobbs	LICENSE TELEPHONE 9868 919-685-7874	E-MAIL steve@stevehallarchitecture.com
CONTACT: Steve Hall, A DESIGNER FIRM Architectural Steve Hall Architect Civil ECLS Global, Inc.	NAME Steve Hall Jack Hobbs & Cons. Daniel Sharpe	LICENSE TELEPHONE 9868 919-685-7874 054296 910-897-3257	E-MAIL steve@stevehallarchitecture.com jackh@eclsglobalinc.com
CONTACT: Steve Hall, A DESIGNER FIRM Architectural Steve Hall Architect Civil ECLS Global, Inc. Electrical Sharpe Engineering	NAME Steve Hall Jack Hobbs & Cons. Daniel Sharpe & Cons. Daniel Sharpe	LICENSE TELEPHONE 9868 919-685-7874 054296 910-897-3257 056419 336-425-5815	E-MAIL steve@stevehallarchitecture.com jackh@eclsglobalinc.com dsharpe@sharpeengineers.com

Sprinkler-Standpipe Structural Centerline Structural Engineering Coleman D. Larsen 045112 402-429-4347 cole.larsen@centerlinese.com ("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.) **2018 NC BUILDING CODE:** New Building Addition Renovation 1st Time Interior Completion Shell/Core - Contact the local inspection jurisdiction for possible additional

procedures and requirements Phased Construction - Shell/Core - Contact the local inspection jurisdiction procedures and requirements Chapter 14 **2018 NC EXISTING BUILDING CODE:** Level III Level II Historic Property Change of Use

CONSTRUCTED: (new) CURRENT OCCUPANCY(S) (Ch. 3): Storage RENOVATED: PROPOSED OCCUPANCY(S) (Ch. 3): _ **RISK CATEGORY** (Table 1604.5): **Proposed:** I II III IV

Partial Yes NFPA 13 NFPA 13R NFPA 13D Flood Hazard Area: No Yes Fire District: **Special Inspections Required:** No Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

U-A

Gross Building Area Table SUB-TOTAL NEW (SQ FT) EXISTING (SQ FT) 23,505 1st Floor

47,010 TOTAL

2018 NC Administrative Code and Policies

BASIC BUILDING DATA

ALLOWABLE AREA

Primary Occupancy Classification(s): \square A-1 \square A-2 \square A-3 \square A-4 \square A-5 Assembly Business Educational F-1 Moderate Factory F-2 Low H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM Hazardous H-1 Detonate I-2 Condition 1 \Box I-3 Condition \Box 1 \Box 2 \Box 3 \Box 4 \Box 5 I-4 Mercantile Residential \square R-1 \square R-2 \square R-3 \square R-4

S-1 Moderate S-2 Low Parking Garage Open Enclosed Repair Garage

Utility and Miscellaneous **Accessory Occupancy Classification(s):**

Incidental Uses (Table 509): Special Uses (Chapter 4 – List Code Sections): **Special Provisions: (Chapter 5 – List Code Sections):**

Mixed Occupancy: No Yes Separation: ____Hr. Exception: _ Non-Separate 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.

Actual Area of Occupancy A + Actual Area of Occupancy B Allowable Area of Occupancy A Allowable Area of Occupancy B

_____ + _____ + = ____

ALLOWABLE AREA PER BLDG AREA PER TABLE 506.24 AREA FOR STORY (ACTUAL) FRONTAGE STORY OR UNLIMITED^{2,3} AREA Level 1 Storage Level 0 Storage TOTAL 47,010 105,000 78,750 183,750

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 = 640 (F) b. Total Building Perimeter = <u>640</u> (P) c. Ratio (F/P) = 1 (F/P) d. W = Minimum width of public way

e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30$ 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). 2018 NC Administrative Code and Policies

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

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	75'	30'-2"	
Building Height in Stories (Table 504.4) ³	3	2 (both on-grade exits)	

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.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0					
Bearing Walls		0					
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions		0					
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists		0					
Floor Ceiling Assembly		0					
Columns Supporting Floors		0					
Roof Construction, including supporting beams and joists		0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shaft Enclosures - Exit		N/A					
Shaft Enclosures - Other		N/A					
Corridor Separation		N/A					
Occupancy/Fire Barrier Separat	ion	N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

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 (%)	
	(1111111)			

LIFE SAFETY SYSTEM REQUIREMENTS

		•
Emergency Lighting:	☐ No	⊠ Yes
Exit Signs:	No	⊠ Yes
Fire Alarm:	No	⊠ Yes
Smoke Detection Systems:	\boxtimes No	Yes Partial
Carbon Monoxide Detection:	\boxtimes No	Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A1

- 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 1004.1.2)
- 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 (1030)
- imes 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

TOTAL	ACCESSIBLE	ACCESSIBLE	TYPLA	TYPE A	Туре]	Түре В	TOTAL
Units	Units	Units	Unrs A	UNI	J û ! [+	Units	ACCESSIBLE UNITS
	Required	Provided	REQUIRED	PR VIDED	KEQUIRED	Provided	PROVIDED

LOT OR PARKING	TOTAL # OF PA	ARKING SPACES	# OF ACC	TOTAL #		
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPAC	ES WITH	ACCESSIBLE
			5' ACCESS	132" ACCESS	32" ACCESS 8' ACCESS	
			AISLE	AISLE	AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS

Not required: NC Plumbing Code table 403.1 notes m. Self-service mini-storage facilities without an office area are exempt.

USE		W	ATERCLOS	ETS	URINALS		LAVATORIE	S	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)

See applicable

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

Existing building envelope complies with code: Select one **Exempt Building:** No Yes Provide code or statutory reference:

Climate Zone: \square 3A \square 4A \square 5A **Method of Compliance:** Energy Code Performance Prescriptive

ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here)___

THERMAL ENVELOPE (Prescriptive method only)

2018 NC Administrative Code and Policies

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:

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:

total square footage of skylights in each assembly:

Walls below grade (each assembly)

Description of assembly: U-Value of total assembly: R-Value of insulation:

Floors over unconditioned space (each assembly)

projection factor:

Door R-Values:

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 NC Administrative Code and Policies

ACCESSIBLE DWELLING UNITS (SECTION 1107)

ACCESSIBLE PARKING (SECTION 1106)

			(SECTION 110	<u> </u>				
LOT OR PARKING	TOTAL # OF PA	RKING SPACES	# OF ACC	# OF ACCESSIBLE SPACES PROVIDED				
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACES WITH		ACCESSIBLE		
			5' ACCESS	132" ACCESS	8' ACCESS	PROVIDED		
			AISLE	AISLE	AISLE			

(TABLE 2902.1)

n. Unheated storage buildings that are used periodically are not required to have toilet rooms.

USE		WATERCLOSETS		URINALS	LAVATORIES			SHOWERS/	DRINKING	FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	TUBS	REGULAR	ACCESSIBL
SPACE	EXIST'G										
	NEW										
	REQ'D										

engineering sheets

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

winter dry bulb:

2018 NC Administrative Code and Policies

summer dry bulb:_ **Interior design conditions**

winter dry bulb: summer dry bulb:

Building heating load:

Building cooling load:

size category of unit:

Size category. If oversized, state reason.:

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

Snow (I_S) Select one **Importance Factors:** $Seismic \ (I_E) \qquad \text{Select one}$ Live Loads:

DESIGN LOADS:

Ground Snow Load:

Wind Load: Ultimate Wind Speed mph (ASCE-7) Exposure Category Select one

SEISMIC DESIGN CATEGORY: Select one Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) **Spectral Response Acceleration**

Site Classification (ASCE 7) Data Source: Select one Basic structural system Select one **Analysis Procedure:**

Architectural, Mechanical, Components anchored? Select one LATERAL DESIGN CONTROL: Select one

SOIL BEARING CAPACITIES:

Pile size, type, and capacity

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

Thermal Zone

relative humidity:

Mechanical Spacing Conditioning System

Unitary description of unit: heating efficiency: cooling efficiency:

Size category. If oversized, state reason.:

List equipment efficiencies:

2018 NC Administrative Code and Policies

2018 NC Administrative Code and Policies

11132 US 401 N Fuquay-Varina, NC 27526 ARCHITECT'S SCOPE OF WORK

The architect's scope of work is limited to

the life safety plan and building code

Baucom Business Plaza

Building S1

eveHall/\rchitectur

www.SteveHallArchitecture.com

OF N.C. LLC

RESIDENTIAL / COMMERCIAL

465 Cedar Rock Trl

Fuquay Varina, NC 27526

2054 Kildaire Farm Rd. #312 Cary, North Carolina 27518-6614

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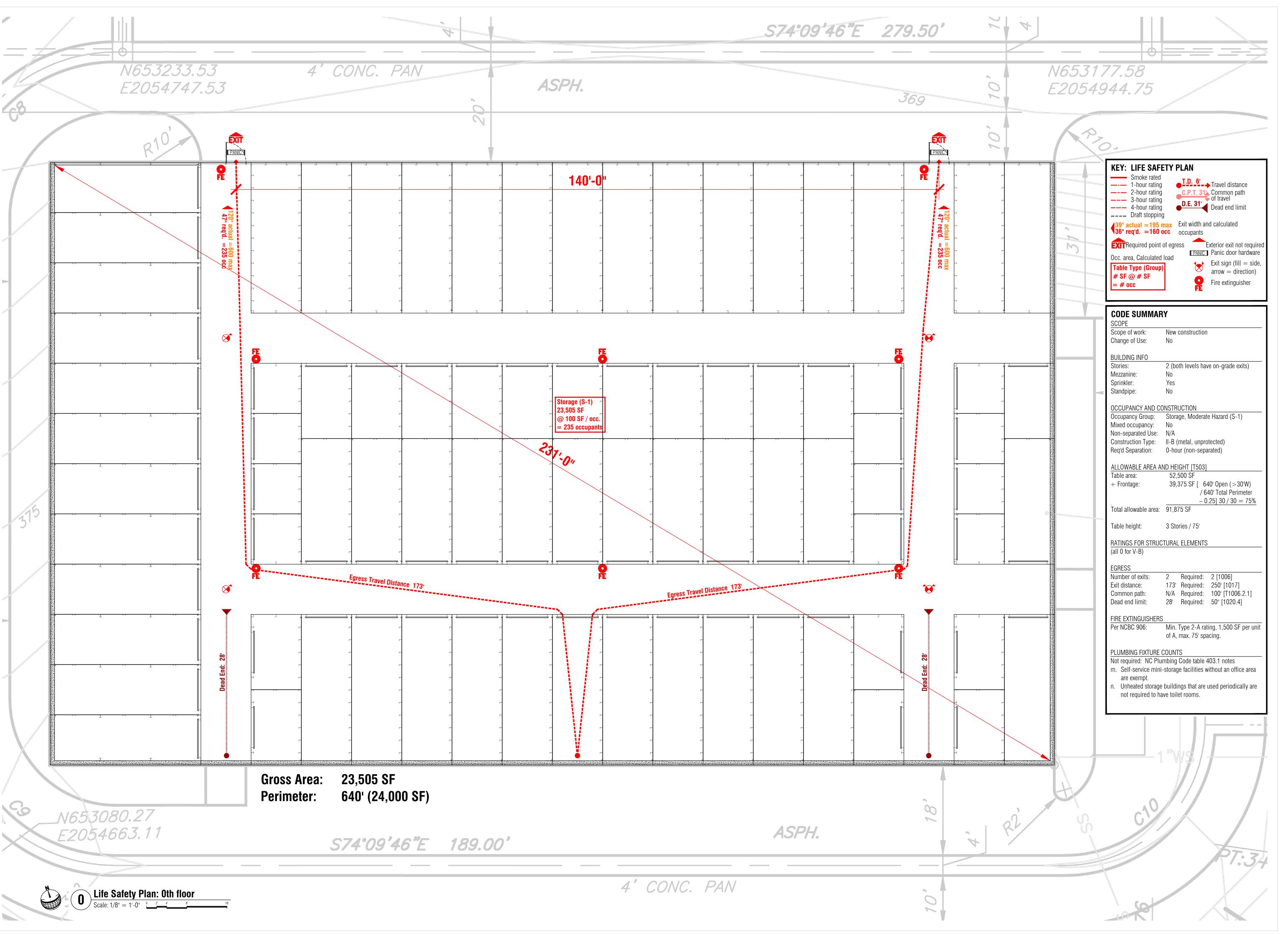




2024-10-05

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CORNERSTONE BUILDERS RESIDENTIAL / COMMERCIAL

465 Cedar Rock Trl Fuquay Varina, NC 27526

> Building S1 **Baucom Business Plaza**

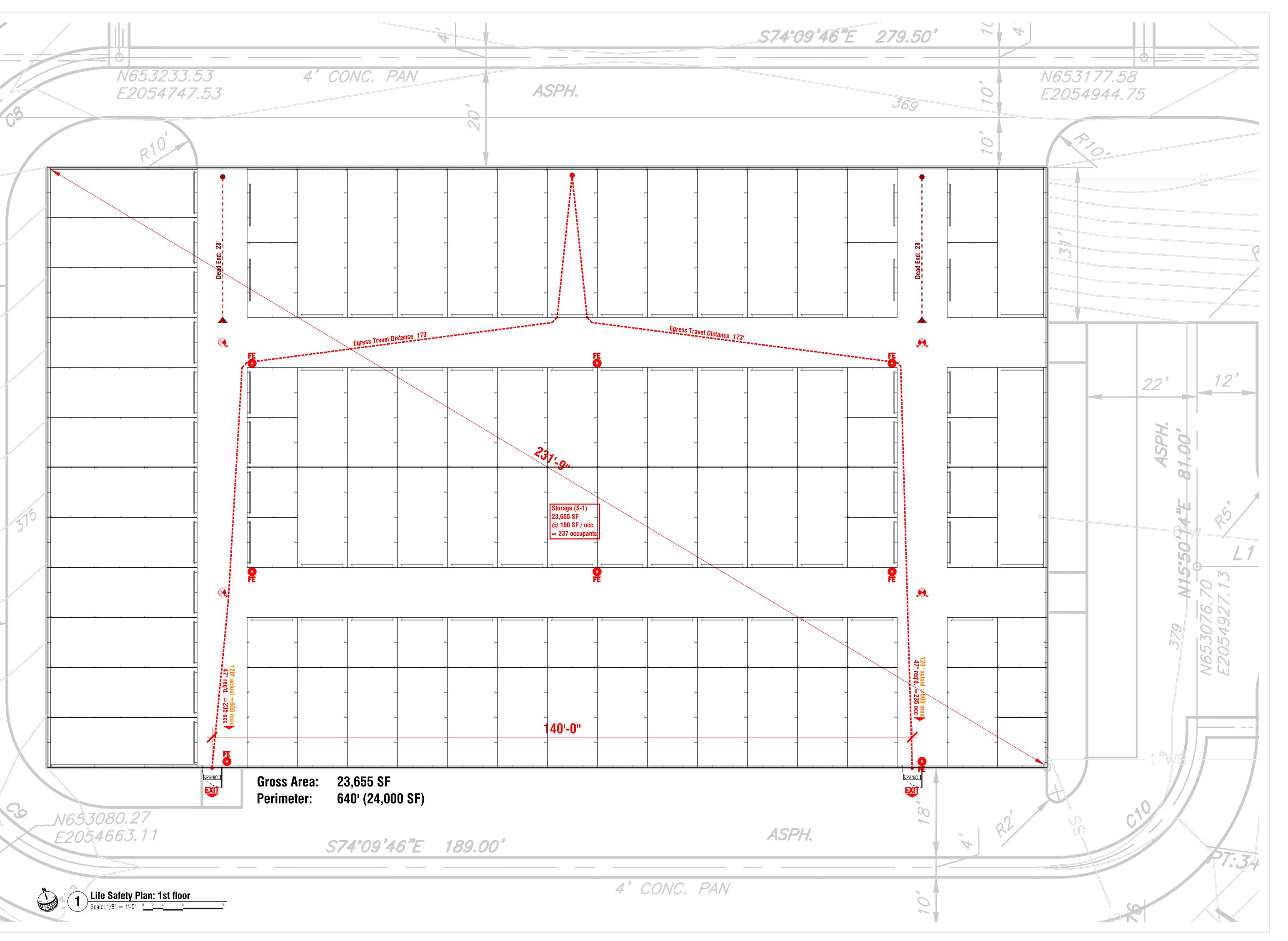
11132 US 401 N Fuquay-Varina, NC 27526 ARCHITECT'S SCOPE OF WORK The architect's scope of work is limited to the life safety plan and building code summary "Appendix B", and was not employed for any portions of design, documentation, coordination, or activities





for Construction

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• Life Safety Plan: 0th Floor



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Building S1 Baucom Business Plaza

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ARCHITECT'S SCOPE OF WORK
The architect's scope of work is limited to the life safety plan and building code summary "Appendix B", and was not employed for any portions of design,





Revisions

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• Life Safety Plan: 1st Floor