2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT I AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

N. C	D DDIVÆ	TIPU ENGLOSIDE FOR TOTA	AL CYCTER HEATING COOLING		
Name of	1.0,000		AL SYSTEMS HEATING - COOLING		
Address:	13341 NC HIG	HWAY 210, SPRING LAKE, NC		Zip Code _28390	
Proposed	Use: OFFICE	5			
		MILLIAM T. ALLEN	Phone (910) 323-0191	E-Mail	
Owned By:		□ Çity/County	▼ Private	□ State	
Code Enfo	proement Jurisdiction	n: City FAYETT	EVILLE County	State NORTH CAROLI	NA

CONTACT:	GE	EORGE M. ROSE, P.E.			
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	
Architectural Civil	GEORGE M. ROSE, P.E.	GEORGE M. ROSE, P.E.	11315	910-977-5822	qeorqe@qmrpe.com
Electrical	WA	N/A		_	
Fire Alarm	N/A	N/A			
Plumbing	WA	N/A			
Mechanical	WA	N/A			
Sprinkler-Standpipe	WA	N/A			
Structural :	WA	N/A			
Precast:	WA	N/A			
Retaining Walls >5' High	N/A	N/A		7.	
Building	GEORGE M. ROSE, P.E.	GEORGE M. ROSE, P.E.	11315	910-977-5822	george@gmrpe.com

2018 NC CODE FOR:	☐ New Const	truction				
	☐ 1st Time	Interior Completi	on			
	☐ Shell/Core					
	☐ Phased Co	onstruction - Sh	ell/Core			
	Renovation	1				
2018 NC EXISTING BUIL	DING CODE:	□ Prescriptive			□ Chapter	14
	Alteration:	☐ Level I	Level		☐ Level III	
		☐ Historic Prope	rty		☐ Change	of Use
CONSTRUCTED:		ORIGINAL OCCUI	PANCY(S) ((Ch. 3): _		
RENOVATED:		CURRENT OCCU	PANCY(S)	(Ch. 3):_		
RISK CATEGORY (to	able 1604.5)	Current: □			□ IV	
		Proposed: 🗆 I			□ IV	

□ II-A

TOTAL EXISTING + PROPOSED = 2,123 SQUARE FEET

BASIC BUILDING DATA

Construction Type:

(che	ck all that	apply)	□ I-B		□ II-B		I-B		▼ V−B
Sprir	nklers:	N	o 🗆 Partial	☐ Yes	□ NFPA	A 13 🗆 N	IFPA 13R	□ NFPA 13D	
	dpipes:	N		Class:			□Wet	□ Dry	
	District:	_ ✓ No		rimary)	Flood	Hazard Area:	No	☐ Yes	
Spec	cial Inspecti	ons Required	: No [⊒ Yes					
					0	Duilding Asset			
					Gross	Building Area:			
FLOC)R	EXISTING (SQ FT)	NEW	(SQ FT)	RENO	VATED (SQ	FT)	SUB-TOTAL
6th	Floor								
5th	Floor								
4th	Floor								
3rd	Floor								
2nd	Floor								
Mezz	zanine								
1st	Floor	1,763		360 (EN	CLOSURE A	REA)			
Base	ment								
	TOTAL			210					

□ III−A

□ IV

		ALLOWABLE AREA
Primary Occupancy Classifi Assembly Business		□ A-3 □ A-4 □ A-5
Educational		
Factory Hazardous	F−1 ModerateH−1 Detonate	☐ F-2 Low ☐ H-2 Deflagerate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional	□ I-1 CONDITION □ I-2 CONDITION □ I-3 CONDITION □ I-4	
Mercantile		
Residential Storage	□ R-1 □ R-2 □ S-1 Moderate	
3.67.490	☐ Parking Garage	
Utility and Miscellaneous		
Accessory Occupancy Class	sification(s):	
1 1		tions):
Mixed Occupancy:	□ No Yes S	eparation:2 Hr. Exception:
□ Non-Separated Use (50		

ed	Occupancy:	□ No	Yes	Separation:	_2_	Hr.	Exception:			
	Non-Separated Use (5 The required type of c		for the build	ling shall be	determine	ed by	applying the height	and area limit	ations for each of	
	the applicable occupar	ncies to the	entire building	ng. The mos	t restrict	ive ty	pe of construction,	so determined,	shall apply to the entire building	j.
	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 Allowable Area			+ -	Actual	Area Area	of Occupancy B	<u><</u> 1		

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
I	BUSINESS	2,123	9,000		

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

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

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 504.3)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40'	13' +-	
Building Height in Stories (Table 504.4)	2		

1 Provide code reference if the "Show 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	RATING		DETAIL #	DESIGN #	DESIGN # FOR	DESIGN #
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (w/* REDUCTION	AND SHEET #	FOR " RATED ASSEMBLY	RATÉD PENETRATION	FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0					
Bearing walls Exterior							
North		N/A					
East		N/A					
West		N/A					
South		N/A					
Interior							
Nonbearing walls and Partitions Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor construction including supporting beams and	joists						
Roof construction including supporting beams and	joists						
Roof construction including supporting beams and	joists						
Roof ceiling Assembly							
Column supporting roof							
Shafts Enclosures — Exit							
Shafts Enclosures — Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant/Dwelling Unit/Sleeping Unit	Separation						
Incidental Use Separation							

* Indicate section number permitting reduction

Life Safety Plan Sheet #: 61

PERCENTAGE OF WALL OPENINGS CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

☐ 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 types for each area as it relates to occupant load calculation (Table 1004.1.2) ☑ Occupant loads for each area Exit access travel distance (1017) ☑ Common path of travel distances (1006.2.1 & 2006.3.2(1) ☑ Dead end lengths (1020.4) Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accompdate based on egress width (1005.3) ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.

✓ Location of doors with panic hardware (1010.1.10) ✓ Location of doors with electromagnetic egress locks (1010.1.9.9)

□ Location of emergency escape windows (1030)

☐ The square footage of each fire area (202)

 \square 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

Section/Table/Note	Title

ACCESSIBLE DWELLING UNITS (SECTION 1107)

REQUIRED PROVIDED REQUIRED PROVIDED PROVIDED PROVIDED	TOTAL	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
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ACCESSIBLE PARKING

	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SP	TOTAL //	
LOT OR PARKING AREA	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE AISLE	TOTAL # ACCESSIBLE PROVIDED
		II EXISTING			
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATER CLOSETS		URINALS	LAVATORIES			SHOWERS/	DRINKING FOUNTAINS		
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	TUBS	REGULAR	ACCESSIBLE
SPACE	EXISTING										
	NEW			N/A							
	REQUIRED										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, 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 North Carolina Energy Conservation 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)

Existing building:

No Yes (Provide Code or Statury reference) Existing building: No Yes (Provide Code or Statury reference)

Climate Zone: □ 3A ■ 4A □ 5A Method of Compliance: Energy Code ☐ Performance ASHRAE 90.1 □ Performance ☐ Prescriptive (If "Other" specify source here) ___

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly) Description of assembly: EXISTING UNCHANGED U-Value of total assembly: R-Value of insulation: Skylights in each assembly: ______ Total square footage of skylights in each assembly: _____

Exterior Walls (each assembly) Description of assembly: MOOD STUD WALLS WITH BRICK VENEER

U-Value of total assembly: ____ R-Value of insulation: Openings (windows or doors with glazing) U-Value of assembly: Solar heat gain coefficient: ____ UA-Value of assembly: ____ 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: Floor slab on grade Description of assembly: U-Value of total assembly:

R-Value of insulation: Horizontal/Vertical requirement:

R-Value of insulation: Slab Heated:

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) _______ Live Loads: Ground Snow Load: Ultimate Wind Speed _____ mph (ASCE-7)

Exposure Category _____ SEISMIC DESIGN CATEGORY: Provide the following Seismic Design Parameters: Occupancy Category (Table 1604.5) Spectral Response Acceleration S_S___ Site Classification (ASCE 7) Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data system ☐ Bearing Wall ☐ Dual w/Special Moment Frame Basic structural system ☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum

☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored?

Yes

No LATERAL DESIGN CONTROL: Earthquake □ Wind □ SOIL BEARING CAPACITIES:

> Field Test (provide copy of test report) Presumptive Bearing Capacity _____

Pile size, type, and capacity _____

Analysis Procedure:

(SECTION 1106)

(THIS SECTION REQUIRED FOR ALL SHELL, ALTERATIONS TO SHELL AND INTERIOR COMPLETION PROJECTS) Check each applicable line to match scope of work. Edit as necessary to provide clear detail of installation. Mechanical □ No work □ Equipment sets with without power □ Trunk line installed with without outlets □ Gas Line □ Install complete operational system

Plumbing □ Install water service and sewer □ Install building drain □ and or water distribution main with

 without branches ☐ Install complete plumbing system Other - ROUGH-INS ARE INCOMPLETE, ADD'L IN-SLAB WORK IS REQUIRED. WATER SERVICE IS EXISTING (PRESENTLY INSTALLED).

SHELL VARIABLE FORM (for all spaces — see plan)

□ Install complete sprinkler system

□ Install slab □ partial complete □ Install demising walls □ Install interior partitioning □ partial□ complete

 Install Ceilings □ White box (additional interior completion permits are required for Certificate of Occupancy and power)

Electrical

 House panel ☐ Service laterals to meter centers/panels located on buildings

 Demise wall and ceilings only □ Conduit, duct, raceway in slab

□ Power and lighting circuits to "J" Box Install light fixtures

□ Instate Heat/Ac Elevator Generator Parking lot lighting

□ Install complete system Other - SUITE PANEL AND SERVICE ARE EXISTING (PRESENTLY INSTALLED).

Please provide full information on any alternate methods and means incorporated into the design of this project. Provide specific details and incorporate into plan submittal any supporting documents or agreement

SPECIAL INSTRUCTIONS (CHAPTER 17) SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN BUILDING CATEGORIES AND/OR CONTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704.

To schedule a required pre-construction meeting with the City of Fayetteville, please call Doug Maples at (910) 433-1703. The main line number for the Development Services Center is (910)

List whom will inspect the required special inspections: Fabricator of load bearing components Soil tests

Concrete, caissons, piles, piers, pre-cast Post tension concrete Modular construction

Steel and connections, welds, bolts, anchors Fire spray tests Smoke control Seismic, wind designs, Quality Assurance

Retaining walls Wood Alternate Methods

EIFS Other (describe) Other (describe) Owner or agent .

SPECIAL APPROVALS:

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

C O U N T Y

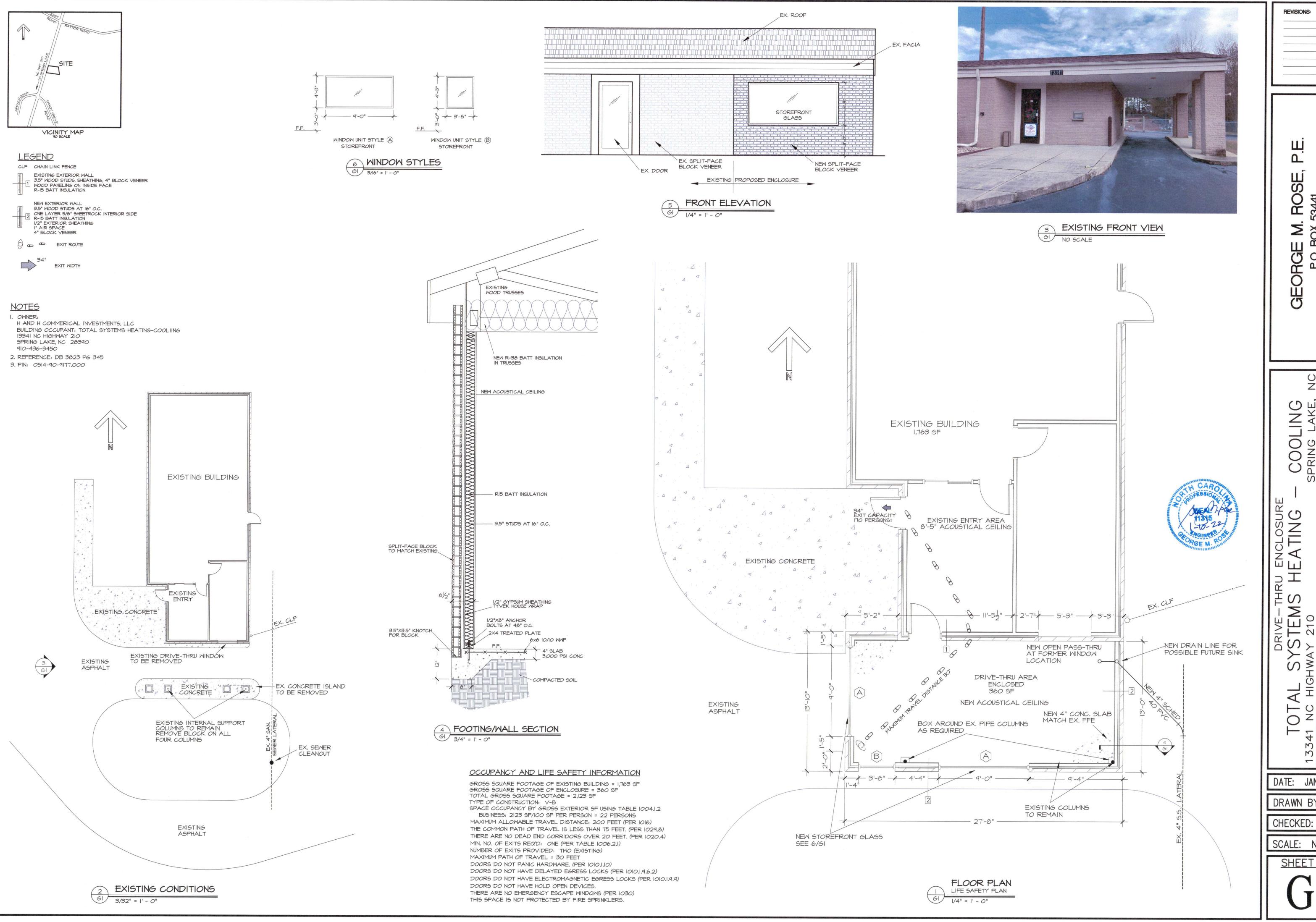
01/25/2022

COUNTY OF HARNETT 2018 APPENDIX B BUILDING CODE SUMMARY for:

DRIVE-THRU ENCLOSURE TOTAL SYSTEMS HEATING - COOLING

13341 NC HIGHWAY 210 SPRING LAKE, NORTH CAROLINA 28390





N V Z

DATE: JAN 2022

DRAWN BY: GMR

SCALE: NOTED

SHEET NO.