2012 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: Emma's of Salisbury Restaurant
Address: 203 S Lee Street, Salisbury NC Zip Code 28144
Proposed Use: Restaurant
Owner/Authorized Agent: Gray Stout AIA Phone # (704) 603 -8117 E-Mail gray@stoutstudio.com
Owned By: ☐ City/County ☒ **Private** ☐ State
Code Enforcement Jurisdiction: ☐ City_____ ☒ County Rowan ☐ State

LEAD DESIGN PROFESSIONAL: Gray Stout AIA

DISCIPLINE	FIRM NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	stoutstudio.architecture Gray Stout AIA	5727	704-603-8117	gray@stoutstudio.com
Civil			( )	
Electrical	Design Engineering Inc. David Smith PE see plans	336-224-0100	dsmith5@fexcominc.net	
Fire Alarm			( )	
Plumbing	Businger Design Co, PC James Businger PE see plans	704-796-1445	james @bcdesignco.com	
Mechanical	Businger Design Co, PC James Businger PE see plans	704-796-1445	james @bcdesignco.com	
Sprinkler-Standpipe			( )	
Structural			( )	
Retaining Walls >5' High			( )	
Other			( )	

2012 EDITION OF NC CODE FOR: ☐ New Construction ☐ Addition ☒ **Upfit**
EXISTING: ☐ Reconstruction ☐ Alteration ☐ Repair ☐ Renovation
CONSTRUCTED: (date) on 1900 **ORIGINAL USE(S)** (Ch. 3) Residential Single Family
RENOVATED: (date) n/a **CURRENT USE(S)** (Ch. 3): none (vacant)
PROPOSED USE(S) (Ch. 3): Business

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
Fire District: ☒ **No** ☐ Yes (Primary) **Flood Hazard Area:** ☐ No ☐ Yes
Building Height: (feet) 15
Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6th Floor			
5th Floor			
4th Floor			
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor	1798 sf		
Basement			
TOTAL	1798 sf		

ALLOWABLE AREA

Occupancy:
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 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancies:
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 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Incidental Uses (Table 508.2.5):
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
☐ Refrigerant machine room
☐ Hydrogen cutoff rooms, not classified as Group H
☐ Incinerator rooms
☐ Paint shops, not classified as Group H, located in occupancies other than Group F
☐ Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
☐ Laundry rooms over 100 square feet
☐ Group I-3 cells equipped with padded surfaces
☐ Group I-2 waste and linen collection rooms
☐ Waste and linen collection rooms over 100 square feet
☐ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
☐ Rooms containing fire pumps
☐ Group I-2 storage rooms over 100 square feet
☐ Group I-2 commercial kitchens
☐ Group I-2 laundries equal to or less than 100 square feet
☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427

Special Provisions: ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8 ☐ 509.9

Mixed Occupancy: ☒ No ☐ Yes Separation: ____ Hr. Exception: _____

☐ Incidental Use Separation (508.2.5)
This separation is not exempt as a Non-Separated Use (see exceptions).

☐ 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.

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

$$____ + ____ + \ldots = ____ \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(a) BLDG AREA PER STORY (ACTUAL)	(b) TABLE 503[1] AREA	(c) AREA FOR FRONTAGE INCREASE[2]	(d) AREA FOR SPRINKLER INCREASE[3]	(e) ALLOWABLE AREA OR UNLIMITED[4]	(f) MAXIMUM BUILDING AREA[5]
1	A-2 Restaurant	1798 sf	6,000 sf	n/a	n/a	6,000 sf	6,000 sf

[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)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30$ = _____ (%)
[2] The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building I_s = 200 percent
b. Single story building I_s = 300 percent
[3] Unlimited area applicable under conditions of Section 507.
[4] Maximum Building Area = total number of stories in the building x E (506.4).
[5] The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type V-B		Type V-B	
Building Height in Feet	40	Feet = H + 20' = _____	15'	
Building Height in Stories	1	Stories + 1 = _____	1	

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____* DEDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		n/a					
Bearing Walls		n/a					
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions		n/a					
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists		n/a					
Roof Construction Including supporting beams and joists		n/a					
Shaft Enclosures - Exit		n/a					
Shaft Enclosures - Other		n/a					
Corridor Separation		n/a					
Occupancy Separation		n/a					
Party/Fire Wall Separation		n/a					
Smoke Barrier Separation		n/a					
Tenant Separation		n/a					
Incidental Use Separation		n/a					

* Indicate section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial _____
Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A-1

☐ Fire and/or smoke rated wall locations (Chapter 7) **n/a**
☐ Assessed and real property line locations **see site plan**
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8) existing building
☐ Existing structures within 30' of the proposed building (seee site plan)
☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
A-2 – dining areas : 592 sf / 15 sf / person = 39 people. Kitchen – commercial- 602 sf /200 sf gross = 3 people
☒ Occupant loads for each area **42 persons in building**
☒ Exit access travel distances (1016) **20 feet**
☐ Common path of travel distances (1014.3 & 1028.8) **16 feet**
☐ Dead end lengths (1018.4) **none**
☐ Clear exit widths for each exit door **36"**
☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1) **42 people x .02= .84"**
☐ Actual occupant load for each exit door **21 people**
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation **n/a**
☐ Location of doors with panic hardware (1008.1.10) **none**
☐ Location of doors with delayed egress locks and the amount of delay (1008.1.9.7) **none**
☐ Location of doors with electromagnetic egress locks (1008.1.9.8) **none**
☐ Location of doors equipped with hold-open devices **none**
☐ Location of emergency escape windows (1029) **none**
☐ The square footage of each fire area (902) **1798 sf**
☐ The square footage of each smoke compartment (407.4) **n/a**
☐ Note any code exceptions or table notes that may have been utilized regarding the items above
Project complies with Chapter 3411.4.2, complete change of occupancy

ACCESSIBLE DWELLING UNITS NONE, N/A
(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	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING
(SECTION 1106)
PARKING EXEMPT DISTRICT (DMX,) NO PARKING REQUIRED OR PROVIDED

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
	0	0	0		0	0
TOTAL	0	0	0	0	0	0

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	NEW	1	1	0	1	1	0	0	0
	EXISTING	To be	removed						
	REQUIRED	1	1		1	1	0	0	0

SPECIAL APPROVALS

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

Salisbury Fire and Zoning, Historic Building / Tax Credit Project, NC SHPO **approval** and NPS approval required

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (I_W) 1.15
Snow (I_S) 1.1
Seismic (I_E) 1.25

Live Loads: Roof 20 psf
Mezzanine n/a _____ psf
Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Basic Wind Speed 90 mph (ASCE-7)
Exposure Category C
Wind Base Shears (for MWFRS) Vx = 26k Vy = 49k

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☒ C ☐ D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_S 0.306 %g S_{1} 0.096 %g
Site Classification (Table 1613.5.2) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic structural system (check one)
☒ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Seismic base shear: V_X = 49k V_Y = 49k
Analysis Procedure: ☒ 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) _____ psf
Presumptive Bearing capacity **3000 psf**
Pile size, type, and capacity n/a

SPECIAL INSPECTIONS REQUIRED: ☐ Yes ☒ No

ENERGY SUMMARY - SEE MECH PLANS

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.

Climate Zone: ☐ 3 ☐ 4 ☐ 5

Method of Compliance:
☐ Prescriptive (Energy Code)
☐ Performance (Energy Code)
☐ Prescriptive (ASHRAE 90.1)
☐ Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)
Description of assembly: blown in fiberglass insulation at ceiling joists
U-Value of total assembly: R-38
R-Value of insulation: R-38
Skylights in each assembly: none
U-Value of skylight: n/a
total square footage of skylights in each assembly: n/a

Exterior Walls (each assembly)
Description of assembly: blown in insulation between existing 2x4 studs
U-Value of total assembly: R-13
R-Value of insulation: R-13
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values:

Walls below grade (each assembly) n/a
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

Floors over unconditioned space (each assembly) n/a
Description of assembly: batt insulation in between each floor joist
U-Value of total assembly: n/a
R-Value of insulation: R-19

Floors slab on grade
Description of assembly: n/a
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement: n/a
slab heated: n/a

MECHANICAL SUMMARY SEE MECH PLANS

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:

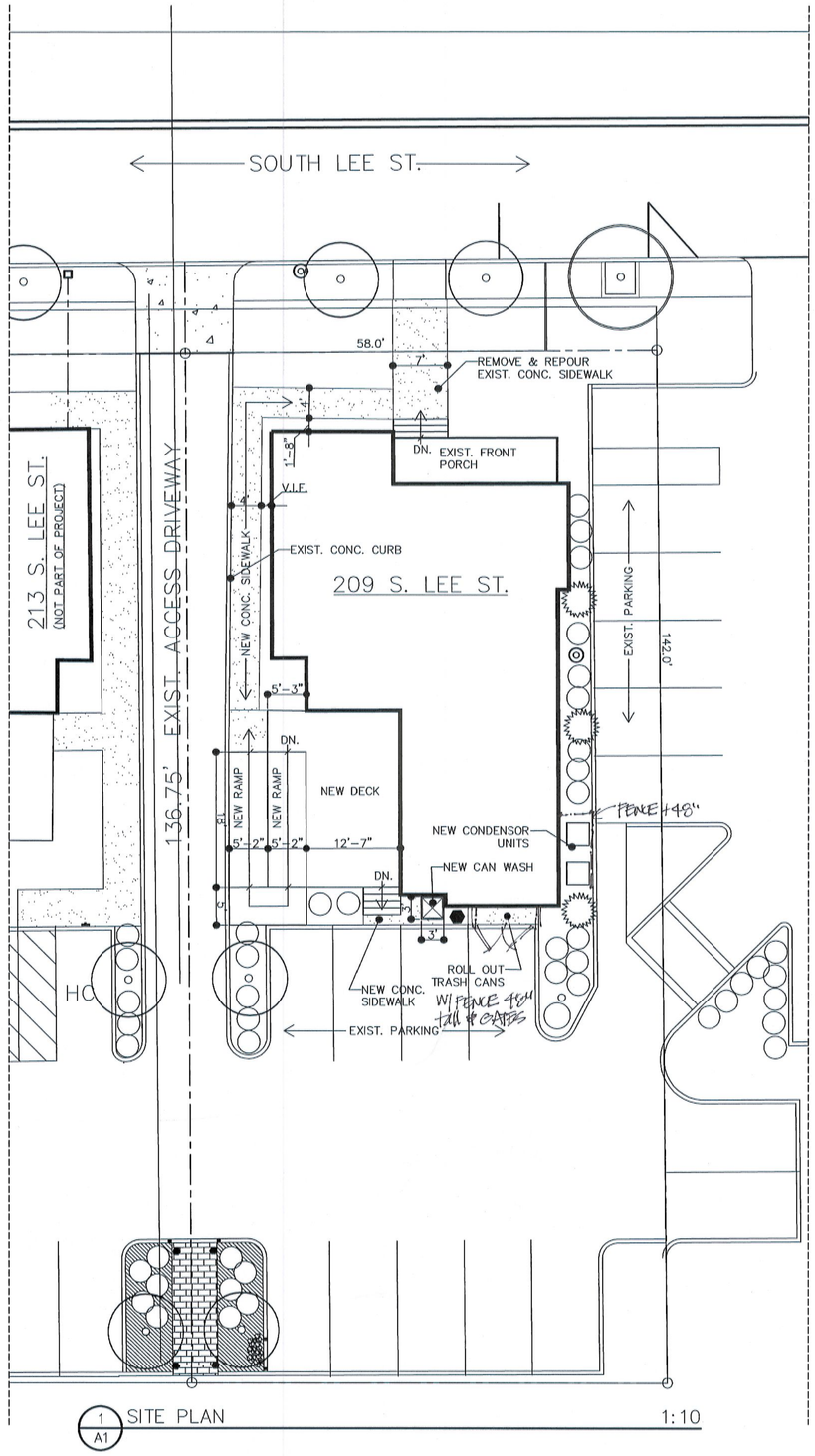
ELECTRICAL SUMMARY SEE ELEC PLANS

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

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 Prescriptive Compliance
☐ 506.2.1 More Efficient Mechanical Equipment
☐ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy Recovery Ventilation Systems
☐ 506.2.4 Higher Efficiency Service Water Heating
☐ 506.2.5 On-Site Supply of Renewable Energy
☐ 506.2.6 Automatic Daylighting Control Systems



1 / A1 SITE PLAN 1:10

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P1	PLUMBING PLAN
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E1	ELECTRICAL PLAN
E2	LIGHTING PLAN

S2.A
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EMMA'S

209 S. LEE ST.
SALISBURY, NC

APPENDIX B & SITE PLAN

9/18/12
10/23/12 REVISED

A1