APPENDIX B

2012 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: _________________________________________________________________________________________________
Address: ___________________________________________________________________ Zip Code _____________________
Proposed Use: ____________________________________________________________________________________________________
Owner/Authorized Agent: _________________________ Phone # ( ____ ) _____ - _______ E-Mail _______________________

Owned By: □ City/County □ Private □ State

Code Enforcement Jurisdiction: □ City___________ □ County_________ □ State

LEAD DESIGN PROFESSIONAL:
_____________________________________________________________
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural __________________ __________________ __________________ (____)____________ __________________
Civil __________________ __________________ __________________ (____)____________ __________________
Electrical __________________ __________________ __________________ (____)____________ __________________
Fire Alarm __________________ __________________ __________________ (____)____________ __________________
Plumbing __________________ __________________ __________________ (____)____________ __________________
Mechanical __________________ __________________ __________________ (____)____________ __________________
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) ___________ ORIGINAL USE(S) (Ch. 3): ________________________________________

RENOVATED: (date) ___________ CURRENT USE(S) (Ch. 3): _________________________________________
PROPOSED USE(S) (Ch. 3): ________________________________________

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) ___________

Gross Building Area:

Floor  Existing (sq ft)  New (sq ft)  Subtotal

6th Floor
5th Floor
4th Floor
3rd Floor
2nd Floor
Mezzanine
1st Floor
Basement

TOTAL

2012 NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES
## APPENDIX B

### ALLOWABLE AREA

#### Occupancy:
- 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:
- 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:
- 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

*continued*
### ALLOWABLE AREA—cont'd

#### Mixed Occupancy:

- [ ] No
- [ ] Yes

- Separation: _____ Hr.
  - Exception: ___________________

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

- Nonseparated Use (508.3.2)
  - 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 (508.3.3) - 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.

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

\[
\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \ldots = \leq 100
\]

<table>
<thead>
<tr>
<th>STORY NO.</th>
<th>DESCRIPTION AND USE</th>
<th>(A) BLDG AREA PER STORY (ACTUAL)</th>
<th>(B) TABLE 503 AREA</th>
<th>(C) AREA FOR FRONTAGE INCREASE</th>
<th>(D) AREA FOR SPRINKLER INCREASE</th>
<th>(E) ALLOWABLE AREA OR UNLIMITED</th>
<th>(F) MAXIMUM BUILDING AREA</th>
</tr>
</thead>
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<tr>
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</table>

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 \(I_f = \frac{100(F/P - 0.25)}{W/30} = _____ \) (%)

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 \(E\) (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.
APPENDIX B

ALLOWABLE HEIGHT

<table>
<thead>
<tr>
<th>Type of Construction</th>
<th>ALLOWABLE (TABLE 503)</th>
<th>INCREASE FOR SPRINKLERS</th>
<th>SHOWN ON PLANS</th>
<th>CODE REFERENCE</th>
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<tbody>
<tr>
<td>Building Height in Feet</td>
<td>Feet = H + 20' = ______</td>
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<tr>
<td>Building Height in Stories</td>
<td>Stories + 1 = _________</td>
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FIRE PROTECTION REQUIREMENTS

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<tr>
<th>BUILDING ELEMENT</th>
<th>FIRE SEPARATION DISTANCE (FEET)</th>
<th>RATING</th>
<th>PROVIDED (W/ REDUCTION)</th>
<th>DESIGN # FOR RATED ASSEMBLY</th>
<th>DESIGN # FOR RATED PENETRATION</th>
<th>DESIGN # FOR RATED JOINTS</th>
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<tr>
<td>Structural Frame Including columns, girders, trusses</td>
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<td>Bearing Walls Exterior</td>
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<td>South</td>
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<tr>
<td>Interior</td>
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<tr>
<td>Interior walls and partitions</td>
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<td>Floor Construction Including supporting beams and joists</td>
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<tr>
<td>Roof Construction Including supporting beams and joists</td>
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<td>Shaft Enclosures — Other</td>
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<td>Party/Fire Wall Separation</td>
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<td>Incidental Use Separation</td>
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* 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 #: _____________________________

❑ 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)
❑ Existing structures within 30 feet of the proposed building
❑ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
❑ Occupant loads for each area
❑ Exit access travel distances (1016)
❑ Common path of travel distances (1014.3 & 1028.8)
❑ Dead end lengths (1018.4)
❑ Clear exit widths for each exit door
❑ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
❑ 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 (1008.1.10)
❑ Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)
❑ Location of doors with electromagnetic egress locks (1008.1.9.8)
❑ Location of doors equipped with hold-open devices
❑ Location of emergency escape windows (1029)
❑ The square footage of each fire area (902)
❑ The square footage of each smoke compartment (407.4)
❑ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

<table>
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<tr>
<th>TOTAL UNITS</th>
<th>ACCESSIBLE UNITS REQUIRED</th>
<th>ACCESSIBLE UNITS PROVIDED</th>
<th>TYPE A UNITS REQUIRED</th>
<th>TYPE A UNITS PROVIDED</th>
<th>TYPE B UNITS REQUIRED</th>
<th>TYPE B UNITS PROVIDED</th>
<th>TOTAL ACCESSIBLE UNITS PROVIDED</th>
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ACCESSIBILITY PARKING
(SECTION 1106)

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<tr>
<th>LOT OR PARKING AREA</th>
<th>TOTAL # OF PARKING SPACES</th>
<th># OF ACCESSIBLE SPACES PROVIDED</th>
<th>TOTAL # ACCESSIBLE PROVIDED</th>
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</table>

TOTAL
APPENDIX B

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors:
- Wind ($I_W$)
- Snow ($I_S$)
- Seismic ($I_E$)

Live Loads:
- Roof _______ psf
- Mezzanine _______ psf
- Floor _______ psf

Ground Snow Load: _______ psf

Wind Load:
- Basic Wind Speed _______ mph (ASCE-7)
- Exposure Category

Wind Base Shears (for MWFRS): $V_x = _______$, $V_y = _______

SEISMIC DESIGN CATEGORY:

- A
- B
- C
- D

Provide the following Seismic Design Parameters:

- Occupancy Category (Table 1604.5)
- Spectral Response Acceleration $S_x$, $S_y$ (%)
- Site Classification (Table 1613.5.2)
- 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: $V_x = _______$, $V_y = _______

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 _______ psf
- Pile size, type, and capacity

SPECIAL INSPECTIONS REQUIRED: Yes No

PLUMBING FIXTURE REQUIREMENTS

(TABLE 2902.1)

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<tr>
<th>USE</th>
<th>WATERCLOSETS</th>
<th>LAVATORIES</th>
<th>SHOWERS/TUBS</th>
<th>DRINKING FOUNTAINS</th>
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<td>URINALS</td>
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SPECIAL APPROVALS

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

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
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 versus the 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: ___________________________________________________
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 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: ___________________________________________________
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: _______________
APPENDIX B

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: __________________

ELECTRICAL SUMMARY

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