### 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:
______________________________

#### Address:
______________________________

#### Owner/Authorized Agent:
______________________________

#### Owned By:
- City/County
- Private
- State

#### Code Enforcement Jurisdiction:
- City
- County
- State

#### CONTACT:

<table>
<thead>
<tr>
<th>DESIGNER FIRM</th>
<th>NAME</th>
<th>LICENSE #</th>
<th>TELEPHONE #</th>
<th>E-MAIL</th>
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</thead>
<tbody>
<tr>
<td>Architectural</td>
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<tr>
<td>Civil</td>
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<tr>
<td>Sprinkler-Standpipe</td>
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<td>Retaining Walls &gt;5’ High</td>
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<tr>
<td>Other</td>
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</table>

(“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 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
- [ ] Change of Use

CONSTRUCTED: (date) __________

RENOVATED: (date) __________

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

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

#### OCCUPANCY 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
- [ ] 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

**Flood Hazard Area:**
- [ ] No
- [ ] Yes

**Special Inspections Required:**
- [ ] No
- [ ] Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)
### Gross Building Area Table

<table>
<thead>
<tr>
<th>FLOOR</th>
<th>EXISTING (SQ FT)</th>
<th>NEW (SQ FT)</th>
<th>SUB-TOTAL</th>
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<tbody>
<tr>
<td>3rd Floor</td>
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<td>2nd Floor</td>
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<tr>
<td>Mezzanine</td>
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<tr>
<td>1st Floor</td>
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<td>Basement</td>
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<tr>
<td>TOTAL</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### ALLOWABLE AREA

**Primary Occupancy Classification(s):**

- 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 1 2 [ ] I-2 Condition 1 2 [ ] I-3 Condition 1 2 3 4 5 [ ] I-4
- 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 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-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.

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

\[
\frac{\text{Actual Area of Occupancy } A}{\text{Allowable Area of Occupancy } A} + \frac{\text{Actual Area of Occupancy } B}{\text{Allowable Area of Occupancy } B} + \ldots \leq 1.00
\]
<table>
<thead>
<tr>
<th>STORY NO.</th>
<th>DESCRIPTION AND USE</th>
<th>(A) BLDG AREA PER STORY (ACTUAL)</th>
<th>(B) TABLE 506.2(^4) AREA</th>
<th>(C) AREA FOR FRONTAGE INCREASE(^{1,5})</th>
<th>(D) ALLOWABLE AREA PER STORY OR UNLIMITED(^{2,3})</th>
</tr>
</thead>
<tbody>
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</tbody>
</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 \(I = 100\left[\frac{F}{P} - 0.25\right] \times \frac{W}{30} = \) _______ (%)

\(^2\) 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).

\(^4\) The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

\(^5\) Frontage increase is based on the unsprinklered area value in Table 506.2.

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**ALLOWABLE HEIGHT**

<table>
<thead>
<tr>
<th>Building Height in Feet (Table 504.3)</th>
<th>ALLOWABLE</th>
<th>SHOWN ON PLANS</th>
<th>CODE REFERENCE</th>
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<tbody>
<tr>
<td>Building Height in Stories (Table 504.4)</td>
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\(^1\) Provide code reference if the “Shown on Plans” quantity is not based on Table 504.3 or 504.4.
## FIRE PROTECTION REQUIREMENTS

<table>
<thead>
<tr>
<th>BUILDING ELEMENT</th>
<th>FIRE SEPARATION DISTANCE (FEET)</th>
<th>RATING REQ'D</th>
<th>PROVIDED (W/_________ REDUCTION)</th>
<th>DETAIL # AND SHEET #</th>
<th>DESIGN # FOR RATED ASSEMBLY</th>
<th>SHEET # FOR RATED PENETRATION</th>
<th>SHEET # FOR RATED JOINTS</th>
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<tr>
<td>Structural Frame, including columns, girders, trusses</td>
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<td>Including supporting beams and joists</td>
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<td>Columns Supporting Roof</td>
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* Indicate section number permitting reduction
### PERCENTAGE OF WALL OPENING CALCULATIONS

<table>
<thead>
<tr>
<th>Fire Separation Distance (Feet) from Property Lines</th>
<th>Degree of Openings Protection (Table 705.8)</th>
<th>Allowable Area (%)</th>
<th>Actual Shown on Plans (%)</th>
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</tbody>
</table>

### 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 (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)
- [ ] 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
### ACCESSIBLE DWELLING UNITS
(SECTION 1107)

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

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<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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<td>VAN SPACES WITH 132” ACCESS AISLE</td>
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### PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

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<th>USE</th>
<th>WATERCLOSETS</th>
<th>URINALS</th>
<th>LAVATORIES</th>
<th>SHOWERS</th>
<th>DRINKING FOUNTAINS</th>
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### SPECIAL APPROVALS

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

<table>
<thead>
<tr>
<th>Description</th>
<th>U-Value of total assembly</th>
<th>R-Value of insulation</th>
<th>Skylights in each assembly</th>
<th>U-Value of skylight</th>
<th>total square footage of skylights in each assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Roof/ceiling Assembly</strong></td>
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</tr>
<tr>
<td>Description of assembly</td>
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<tr>
<td>U-Value of total assembly</td>
<td>________</td>
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<td>R-Value of insulation</td>
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<td>Skylights in each assembly</td>
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<tr>
<td>U-Value of skylight</td>
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<td>total square footage of skylights in each assembly</td>
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<table>
<thead>
<tr>
<th><strong>Exterior Walls</strong> (each assembly)</th>
<th>Description of assembly</th>
<th>U-Value of total assembly</th>
<th>R-Value of insulation</th>
<th>Openings (windows or doors with glazing)</th>
<th>U-Value of assembly</th>
<th>Solar heat gain coefficient</th>
<th>projection factor</th>
<th>Door R-Values</th>
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<thead>
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<th><strong>Walls below grade</strong> (each assembly)</th>
<th>Description of assembly</th>
<th>U-Value of total assembly</th>
<th>R-Value of insulation</th>
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<tr>
<th><strong>Floors over unconditioned space</strong> (each assembly)</th>
<th>Description of assembly</th>
<th>U-Value of total assembly</th>
<th>R-Value of insulation</th>
</tr>
</thead>
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<tr>
<th><strong>Floors slab on grade</strong></th>
<th>Description of assembly</th>
<th>U-Value of total assembly</th>
<th>R-Value of insulation</th>
<th>Horizontal/vertical requirement</th>
<th>slab heated</th>
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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors:
- Snow ($I_S$)
- 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 _______

SEISMIC DESIGN CATEGORY:
- □ A  □ B  □ C  □ D

Provide the following Seismic Design Parameters:

- Risk Category (Table 1604.5): □ I  □ II  □ III  □ IV
- Spectral Response Acceleration: $S_S$ _______ %g  $S_I$ _______ %g

Site Classification (ASCE 7): □ A  □ B  □ C  □ D  □ E  □ F
Data Source: □ Field Test  □ Presumptive  □ Historical Data

Basic structural system:
- □ Bearing Wall  □ Dual w/Special Moment Frame
- □ Building Frame  □ Dual w/Intermediate R/C or Special Steel
- □ Moment Frame  □ Inverted Pendulum

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 __________
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:** __________
2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

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 Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☐ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating