# 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: Self Storage Facility   Zip Code 27244     Address: 931 East Haggard Ave   Zip Code 27244     Owner/Authorized Agent: DJ Thomas   Phone # ( 407) 720- 8562   E-Mail DThomas@st     Owned By:Store Space CAP Elon LLP   City/County   Private   State     Code Enforcement Jurisdiction:   City   County   State	orespace.com
CONTACT:	
Mechanical J. Schreur Consulting Vasilios Artemiou 052180 (201)675-7080 jschreur.con	Eng.com sulting@gmail.com sulting@gmail.com sulting@gmail.com sulting@gmail.com sulting@gmail.com
2018 NC BUILDING CODE:   X New Building   Addition   Renovation     1 <sup>st</sup> 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 jurisdiction 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 Us	
CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch. 3):	
RENOVATED:   (date)   PROPOSED OCCUPANCY(S) (Ch. 3):     RISK CATEGORY (Table 1604.5):   Current:   I   II   III   IV     Proposed:   I   X   II   III   IV	
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 X Yes   NFPA 13   NFPA 13R   NFPA 13D     Standpipes:   X No   Yes   Class   I   II   III   Wet   Dry     Fire District:   X No   Yes   Flood Hazard Area:   X No   Yes   Special Inspections Required:   X No   Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)	

Gross Building Area Table									
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL						
3 <sup>rd</sup> Floor									
2 <sup>nd</sup> Floor		15,000 SF							
Mezzanine									
1 <sup>st</sup> Floor		15,000 SF							
Basement									
TOTAL		30,000 SF							

### ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly $\square$ A-1 $\square$ A-2 $\square$ A-3 $\square$ A-4 $\square$ 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 Condition I I 2
$\Box$ I-2 Condition $\Box$ 1 $\Box$ 2
$\Box$ 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
Storage 🔀 S-1 Moderate 🗌 S-2 Low 🗌 High-piled
🗌 Parking Garage 🗌 Open 🗌 Enclosed 📄 Repair Garage
Utility and Miscellaneous
Accessory Occupancy Classification(s): <u>NA</u>
Incidental Uses (Table 509): NA
Special Uses (Chapter 4 – List Code Sections): NA
Special Provisions: (Chapter 5 – List Code Sections):
Mixed Occupancy:   X   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.
+ + = <u></u> ≤ 1.00

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)	
NO.	USE BLDG AREA PER		TABLE 506.2 <sup>4</sup>	AREA FOR FRONTAGE	ALLOWABLE AREA PER	
		STORY (ACTUAL)	AREA	INCREASE <sup>1,5</sup>	STORY OR UNLIMITED <sup>2,3</sup>	
1	S-1 Moderate Hazard Stora	ge 15,000 SF	70,000 SF	NA	70,000 SF	
2	S-1 Moderate Hazard Stora	<sub>ge</sub> 15,000 SF	70,000 SF	NA	70,000 SF	

<sup>1</sup> 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 = \_\_\_\_\_ (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  $I_f = 100[F/P 0.25] \times W/30 =$  (%)
- <sup>2</sup> Unlimited area applicable under conditions of Section 507.

<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).

<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4.

<sup>5</sup> Frontage increase is based on the unsprinklered area value in Table 506.2.

# ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE <sup>1</sup>
Building Height in Feet (Table 504.3) <sup>2</sup>	75'-0"	30'-9"	
Building Height in Stories (Table 504.4) <sup>3</sup>	4	2	

<sup>1</sup> Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

<sup>2</sup> The maximum height of air traffic control towers must comply with Table 412.3.1.

<sup>3</sup> The maximum height of open parking garages must comply with Table 406.5.4.

# FIRE PROTECTION REQUIREMENTS

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Tenant/Dwelling Unit/ Sleeping Unit Separation NA			
Incidental Use Separation NA			

\* Indicate section number permitting reduction

### 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 (%)
All Sides Greater than 30'			

#### LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	🗌 No I Yes
Exit Signs:	🗌 No 🗴 Yes
Fire Alarm:	🗌 No I Yes
Smoke Detection Systems:	🗌 No 🕱 Yes 🗌 Partial
Carbon Monoxide Detection:	🗌 No 🚺 Yes

### LIFE SAFETY PLAN REQUIREMENTS

Life Safety	Plan Sheet #:	G5.0

**X** 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)

X Occupant loads for each area

- **X** Exit sign locations (1013)
- $\mathbf{X}$  Exit access travel distances (1017)
- X Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- $\mathbf{X}$  Dead end lengths (1020.4)
- $\mathbf{X}$  Clear exit widths for each exit door
- X Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- $\mathbf{X}$  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

- $\mathbf{X}$  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)
- $\mathbf{X}$  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)

UNIT CLASSIFICATION	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
NA								

#### ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PA	RKING SPACES	# OF ACCESSIBLE S	PACES PROVIDED	TOTAL # ACCESSIBLE
	REQUIRED	PROVIDED	96" SPACES 132" SPACES		PROVIDED
5340 SF		5	1	1	2
TOTAL		5	1	1	2

# PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

τ	JSE	WATER CLOSETS		URINALS		LAVATORIES		SHOWERS	DRINKING	FOUNTAINS	
MAI		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G	NA									
	NEW	Provided	at Adjecent k	uilding							
	REQ'D										

## 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: X No Yes (Provide code or statutory reference):
Climate Zone: 3A X 4A 5A
Method of Compliance: Energy Code   Image: Performance   Prescriptive     ASHRAE 90.1   Performance   Prescriptive     (If "Other" specify source here)   Prescriptive
THERMAL ENVELOPE (Prescriptive method only)
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:

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

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

# **DESIGN LOADS:**

Importance Factors:	Snow     (Is)       Seismic     (IE)
Live Loads:	Roof20psfMezzanineNApsfFloor125psf
Ground Snow Load:	psf
	mate Wind Speed mph (ASCE-7)
SEISMIC DESIGN CATEGORY	$X: \mathbf{X} \mathbf{A} \square \mathbf{B} \square \mathbf{C} \square \mathbf{D}$
Provide the following Seismic Desi Risk Category (Table 160 Spectral Response Accel	(4.5) I I II III IV
Site Classification (ASCE Data Sou	
Basic structural system	Image: Section of the section of th
Analysis Procedure:	X Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanica	al, Components anchored?  Yes X No
LATERAL DESIGN CONTROL	Earthquake Wind X
SOIL BEARING CAPACITIES: Field Test (provide copy o Presumptive Bearing capa Pile size, type, and capacit	

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

### MECHANICAL SUMMARY

## MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

### **Thermal Zone**

winter dry bulb:	17.1
•	89.9

### Interior design conditions

winter dry bulb: 72 summer dry bulb: 75
relative humidity: 50 - 60%
Building heating load:468 MBH
Building cooling load: <u>24 Tons</u>
Mechanical Spacing Conditioning System
Unitary
description of unit: Condensing Gas Furnace
heating efficiency: <u>96.5 AFUE %</u>
cooling efficiency: <u>14.0 SEER</u>
size category of unit:
Boiler
Size category. If oversized, state reason.: NA
Chiller
Size category. If oversized, state reason.: NA
List equipment efficiencies: <u>96%</u>

# 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	X Performance	Prescriptive
ASHRAE 90.1	Performance	Prescriptive

Lighting schedule (each fixture type) Refer to Lighting Fixture Schedule on Sheet E1.0

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

X 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