

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Repeals the following data on the building plan sheet 1 or 2.)

Name of Project: **FUSION ACADEMY TENANT BUILD-OUT**
Address: **3540 TORRINGTON WAY, SITE 100, CHARLOTTE, NC** Zip Code: **28277**
Owner/Addressed Agent: **CHIPMAN ARCHITECTURE** Phone #: **847 1 238 - 8900** E-Mail: **chips@chipmanarch.com**
Owner: **Private**
Code Enforcement Jurisdiction: **CITY, CHARLOTTE**

CONTACT:

DESIGNER	NAME	ADDRESS	PHONE	EMAIL
Architect	CHIPMAN DESIGN	10000 W. VALENTINE BLVD., SUITE 100	(817) 298-0907	chips@chipmanarch.com
City	N/A	N/A	N/A	N/A
Structural	NATIONAL ENGINEERING	1000 W. 30TH ST., SUITE 200	(704) 771-9810	info@national-engineering.com
Fire Alarm	NATIONAL ENGINEERING	1000 W. 30TH ST., SUITE 200	(704) 771-9810	info@national-engineering.com
Plumbing	NATIONAL ENGINEERING	1000 W. 30TH ST., SUITE 200	(704) 771-9810	info@national-engineering.com
Mechanical	NATIONAL ENGINEERING	1000 W. 30TH ST., SUITE 200	(704) 771-9810	info@national-engineering.com
Sprinkler	CHIPMAN DESIGN	10000 W. VALENTINE BLVD., SUITE 100	(817) 298-0907	chips@chipmanarch.com
Electrical	CHIPMAN DESIGN	10000 W. VALENTINE BLVD., SUITE 100	(817) 298-0907	chips@chipmanarch.com
Life Safety	CHIPMAN DESIGN	10000 W. VALENTINE BLVD., SUITE 100	(817) 298-0907	chips@chipmanarch.com
Other	N/A	N/A	N/A	N/A

2018 NC BUILDING CODE: TENANT FIT-OUT
2018 NC EXISTING BUILDING CODE: ALTERATION LEVEL 4 NA CHANGE OF USE
CONSTRUCTED: 2019 CURRENT OCCUPANCY(S) (C, 3): R-BUSINESS
RENOVATED: N/A PROPOSED OCCUPANCY(S) (C, 3): R-EDUCATION
RISK CATEGORY (Table 106.5.5.1): Corridor: 0 Proposed: EXISTING TO REMAIN

BASIC BUILDING DATA
Construction Type: 10
Sprinklers: YES NFPA 13
Stairwells: YES CLASS 1
Fire Alarm: YES Flood Hazard Area: NC
Special Inspections Required: NO

Green Building Area Table

Floor	Existing (sq ft)	New (sq ft)	Sub-TOTAL
LEVEL 01	24,500		24,500
LEVEL 02	24,500		24,500
LEVEL 03	24,500		24,500
LEVEL 04	24,500		24,500
LEVEL 05	24,500		24,500
LEVEL 06	24,500		24,500
LEVEL 07	24,500		24,500
LEVEL 08	24,500		24,500
TOTAL	204,200		204,200

114.42 P.000 1/2"=1'-0" 1/8"=1'-0" 1/16"=1'-0"

EXISTING TO REMAIN NO CHANGE

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attributes required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan, but not if performance method, state the annual energy use for the standard reference design vs annual energy use for the proposed design.

Existing building envelope complies with code: Select one
Envelope Building: Select one Provide code or statutory reference:
Climate Zone: Select one
Method of Compliance: Select one
If "Other" specify exterior level:

THERMAL ENVELOPE (Prescriptive method only)

Roofing Assembly (each assembly):
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Sky light 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: _____
Shading Factor: _____
Door R-Value: _____

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 Insulation: _____

114.42 P.000 1/2"=1'-0" 1/8"=1'-0" 1/16"=1'-0"

ALLOWABLE AREA

Primary Occupancy Classification: R-EDUCATION
Accessory Occupancy Classification: None
Incidental Uses (Table 509): None
Special Uses (Chapter 4 - List Code Sections): None
Special Provisions (Chapter 5 - List Code Sections): None
Mixed Occupancy: SEPARATED USE
Select one: None

Actual Area of Occupancy A: _____
Allowable Area of Occupancy A: _____
Actual Area of Occupancy B: _____
Allowable Area of Occupancy B: _____

ALLOWABLE HEIGHT

Floor	Occupancy	Height	Area	Use
LEVEL 01	R-BUSINESS/EDUCATION	24,500	1A	1A
LEVEL 02	R-BUSINESS/EDUCATION	24,500	1A	1A
LEVEL 03	R-BUSINESS/EDUCATION	24,500	1A	1A
LEVEL 04	R-BUSINESS/EDUCATION	24,500	1A	1A
LEVEL 05	R-BUSINESS/EDUCATION	24,500	1A	1A
LEVEL 06	R-BUSINESS/EDUCATION	24,500	1A	1A
LEVEL 07	R-BUSINESS/EDUCATION	24,500	1A	1A
LEVEL 08	R-BUSINESS/EDUCATION	24,500	1A	1A

ALLOWABLE HEIGHT

Building Height in Feet (Table 506.2.1)	Area	Use
Building Height in Feet (Table 506.2.1)	24,500	1A
Building Height in Feet (Table 506.2.1)	24,500	1A

534.42 P.000 1/2"=1'-0" 1/8"=1'-0" 1/16"=1'-0"

EXISTING TO REMAIN NO CHANGE

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

DESIGN LOADS:

Importance Factors: Snow (Ld) Select one
Seismic (Fs) Select one
Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor _____ psf

Ground Snow Load: _____ psf
Wind Load: Ultimate Wind Speed _____ mph (ASCE-7)
Exposure Category: Select one

SEISMIC DESIGN CATEGORY: Select one
Provide the following Seismic Design Parameters:
Risk Category (Table 1069.5.1): Select one
Spectral Response Acceleration Sa _____ g
Site Classification (ASCE 7.10): Select one
Data Source: Select one

LATERAL DESIGN CONTROL: Select one
Basic structural system: Select one
Analysis Procedure: Select one
Architectural, Mechanical, Composites anchor? Select one

SOIL BEARING CAPACITIES: Select one
Pile size, type, and capacity: _____

534.42 P.000 1/2"=1'-0" 1/8"=1'-0" 1/16"=1'-0"

FIRE PROTECTION REQUIREMENTS

Item	Code	Requirement	Proposed	Remarks
Structural Frame	IBC 703	Steel frame	Steel frame	
Interior Finish	IBC 903	1 (E) 903.1.2	1 (E) 903.1.2	
Roofing	IBC 1503	1503.1	1503.1	
Exterior Wall	IBC 703	1 (E) 703.1.1	1 (E) 703.1.1	
Exterior Window	IBC 703	1 (E) 703.1.2	1 (E) 703.1.2	
Exterior Door	IBC 703	1 (E) 703.1.3	1 (E) 703.1.3	
Exterior Wall and Window	IBC 703	1 (E) 703.1.4	1 (E) 703.1.4	
Exterior Wall and Window	IBC 703	1 (E) 703.1.5	1 (E) 703.1.5	
Exterior Wall and Window	IBC 703	1 (E) 703.1.6	1 (E) 703.1.6	
Exterior Wall and Window	IBC 703	1 (E) 703.1.7	1 (E) 703.1.7	
Exterior Wall and Window	IBC 703	1 (E) 703.1.8	1 (E) 703.1.8	
Exterior Wall and Window	IBC 703	1 (E) 703.1.9	1 (E) 703.1.9	
Exterior Wall and Window	IBC 703	1 (E) 703.1.10	1 (E) 703.1.10	
Exterior Wall and Window	IBC 703	1 (E) 703.1.11	1 (E) 703.1.11	
Exterior Wall and Window	IBC 703	1 (E) 703.1.12	1 (E) 703.1.12	
Exterior Wall and Window	IBC 703	1 (E) 703.1.13	1 (E) 703.1.13	
Exterior Wall and Window	IBC 703	1 (E) 703.1.14	1 (E) 703.1.14	
Exterior Wall and Window	IBC 703	1 (E) 703.1.15	1 (E) 703.1.15	
Exterior Wall and Window	IBC 703	1 (E) 703.1.16	1 (E) 703.1.16	
Exterior Wall and Window	IBC 703	1 (E) 703.1.17	1 (E) 703.1.17	
Exterior Wall and Window	IBC 703	1 (E) 703.1.18	1 (E) 703.1.18	
Exterior Wall and Window	IBC 703	1 (E) 703.1.19	1 (E) 703.1.19	
Exterior Wall and Window	IBC 703	1 (E) 703.1.20	1 (E) 703.1.20	
Exterior Wall and Window	IBC 703	1 (E) 703.1.21	1 (E) 703.1.21	
Exterior Wall and Window	IBC 703	1 (E) 703.1.22	1 (E) 703.1.22	
Exterior Wall and Window	IBC 703	1 (E) 703.1.23	1 (E) 703.1.23	
Exterior Wall and Window	IBC 703	1 (E) 703.1.24	1 (E) 703.1.24	
Exterior Wall and Window	IBC 703	1 (E) 703.1.25	1 (E) 703.1.25	
Exterior Wall and Window	IBC 703	1 (E) 703.1.26	1 (E) 703.1.26	
Exterior Wall and Window	IBC 703	1 (E) 703.1.27	1 (E) 703.1.27	
Exterior Wall and Window	IBC 703	1 (E) 703.1.28	1 (E) 703.1.28	
Exterior Wall and Window	IBC 703	1 (E) 703.1.29	1 (E) 703.1.29	
Exterior Wall and Window	IBC 703	1 (E) 703.1.30	1 (E) 703.1.30	
Exterior Wall and Window	IBC 703	1 (E) 703.1.31	1 (E) 703.1.31	
Exterior Wall and Window	IBC 703	1 (E) 703.1.32	1 (E) 703.1.32	
Exterior Wall and Window	IBC 703	1 (E) 703.1.33	1 (E) 703.1.33	
Exterior Wall and Window	IBC 703	1 (E) 703.1.34	1 (E) 703.1.34	
Exterior Wall and Window	IBC 703	1 (E) 703.1.35	1 (E) 703.1.35	
Exterior Wall and Window	IBC 703	1 (E) 703.1.36	1 (E) 703.1.36	
Exterior Wall and Window	IBC 703	1 (E) 703.1.37	1 (E) 703.1.37	
Exterior Wall and Window	IBC 703	1 (E) 703.1.38	1 (E) 703.1.38	
Exterior Wall and Window	IBC 703	1 (E) 703.1.39	1 (E) 703.1.39	
Exterior Wall and Window	IBC 703	1 (E) 703.1.40	1 (E) 703.1.40	
Exterior Wall and Window	IBC 703	1 (E) 703.1.41	1 (E) 703.1.41	
Exterior Wall and Window	IBC 703	1 (E) 703.1.42	1 (E) 703.1.42	
Exterior Wall and Window	IBC 703	1 (E) 703.1.43	1 (E) 703.1.43	
Exterior Wall and Window	IBC 703	1 (E) 703.1.44	1 (E) 703.1.44	
Exterior Wall and Window	IBC 703	1 (E) 703.1.45	1 (E) 703.1.45	
Exterior Wall and Window	IBC 703	1 (E) 703.1.46	1 (E) 703.1.46	
Exterior Wall and Window	IBC 703	1 (E) 703.1.47	1 (E) 703.1.47	
Exterior Wall and Window	IBC 703	1 (E) 703.1.48	1 (E) 703.1.48	
Exterior Wall and Window	IBC 703	1 (E) 703.1.49	1 (E) 703.1.49	
Exterior Wall and Window	IBC 703	1 (E) 703.1.50	1 (E) 703.1.50	
Exterior Wall and Window	IBC 703	1 (E) 703.1.51	1 (E) 703.1.51	
Exterior Wall and Window	IBC 703	1 (E) 703.1.52	1 (E) 703.1.52	
Exterior Wall and Window	IBC 703	1 (E) 703.1.53	1 (E) 703.1.53	
Exterior Wall and Window	IBC 703	1 (E) 703.1.54	1 (E) 703.1.54	
Exterior Wall and Window	IBC 703	1 (E) 703.1.55	1 (E) 703.1.55	
Exterior Wall and Window	IBC 703	1 (E) 703.1.56	1 (E) 703.1.56	
Exterior Wall and Window	IBC 703	1 (E) 703.1.57	1 (E) 703.1.57	
Exterior Wall and Window	IBC 703	1 (E) 703.1.58	1 (E) 703.1.58	
Exterior Wall and Window	IBC 703	1 (E) 703.1.59	1 (E) 703.1.59	
Exterior Wall and Window	IBC 703	1 (E) 703.1.60	1 (E) 703.1.60	
Exterior Wall and Window	IBC 703	1 (E) 703.1.61	1 (E) 703.1.61	
Exterior Wall and Window	IBC 703	1 (E) 703.1.62	1 (E) 703.1.62	
Exterior Wall and Window	IBC 703	1 (E) 703.1.63	1 (E) 703.1.63	
Exterior Wall and Window	IBC 703	1 (E) 703.1.64	1 (E) 703.1.64	
Exterior Wall and Window	IBC 703	1 (E) 703.1.65	1 (E) 703.1.65	
Exterior Wall and Window	IBC 703	1 (E) 703.1.66	1 (E) 703.1.66	
Exterior Wall and Window	IBC 703	1 (E) 703.1.67	1 (E) 703.1.67	
Exterior Wall and Window	IBC 703	1 (E) 703.1.68	1 (E) 703.1.68	
Exterior Wall and Window	IBC 703	1 (E) 703.1.69	1 (E) 703.1.69	
Exterior Wall and Window	IBC 703	1 (E) 703.1.70	1 (E) 703.1.70	
Exterior Wall and Window	IBC 703	1 (E) 703.1.71	1 (E) 703.1.71	
Exterior Wall and Window	IBC 703	1 (E) 703.1.72	1 (E) 703.1.72	
Exterior Wall and Window	IBC 703	1 (E) 703.1.73	1 (E) 703.1.73	
Exterior Wall and Window	IBC 703	1 (E) 703.1.74	1 (E) 703.1.74	
Exterior Wall and Window	IBC 703	1 (E) 703.1.75	1 (E) 703.1.75	
Exterior Wall and Window	IBC 703	1 (E) 703.1.76	1 (E) 703.1.76	
Exterior Wall and Window	IBC 703	1 (E) 703.1.77	1 (E) 703.1.77	
Exterior Wall and Window	IBC 703	1 (E) 703.1.78	1 (E) 703.1.78	
Exterior Wall and Window	IBC 703	1 (E) 703.1.79	1 (E) 703.1.79	
Exterior Wall and Window	IBC 703	1 (E) 703.1.80	1 (E) 703.1.80	
Exterior Wall and Window	IBC 703	1 (E) 703.1.81	1 (E) 703.1.81	
Exterior Wall and Window	IBC 703	1 (E) 703.1.82	1 (E) 703.1.82	
Exterior Wall and Window	IBC 703	1 (E) 703.1.83	1 (E) 703.1.83	
Exterior Wall and Window	IBC 703	1 (E) 703.1.84	1 (E) 703.1.84	
Exterior Wall and Window	IBC 703	1 (E) 703.1.85	1 (E) 703.1.85	
Exterior Wall and Window	IBC 703	1 (E) 703.1.86	1 (E) 703.1.86	
Exterior Wall and Window	IBC 703	1 (E) 703.1.87	1 (E) 703.1.87	
Exterior Wall and Window	IBC 703	1 (E) 703.1.88	1 (E) 703.1.88	
Exterior Wall and Window	IBC 703	1 (E) 703.1.89	1 (E) 703.1.89	
Exterior Wall and Window	IBC 703	1 (E) 703.1.90	1 (E) 703.1.90	
Exterior Wall and Window	IBC 703	1 (E) 703.1.91	1 (E) 703.1.91	
Exterior Wall and Window	IBC 703	1 (E) 703.1.92	1 (E) 703.1.92	
Exterior Wall and Window	IBC 703	1 (E) 703.1.93	1 (E) 703.1.93	
Exterior Wall and Window	IBC 703	1 (E) 703.1.94	1 (E) 703.1.94	
Exterior Wall and Window	IBC 703	1 (E) 703.1.95	1 (E) 703.1.95	
Exterior Wall and Window	IBC 703	1 (E) 703.1.96	1 (E) 703.1.96	
Exterior Wall and Window	IBC 703	1 (E) 703.1.97	1 (E) 703.1.97	
Exterior Wall and Window	IBC 703	1 (E) 703.1.98	1 (E) 703.1.98	
Exterior Wall and Window	IBC 703	1 (E) 703.1.99	1 (E) 703.1.99	
Exterior Wall and Window	IBC 703	1 (E) 703.1.100	1 (E) 703.1.100	

534.42 P.000 1/2"=1'-0" 1/8"=1'-0" 1/16"=1'-0"

REFER TO MECHANICAL SHEETS

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

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____
winter wet bulb: _____
summer wet bulb: _____
relative humidity: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____
Building cooling load: _____

Mechanical Spacing Conditioning System
Type: _____
Capacity: _____
Efficiency: _____
Controls: _____
Sizing: _____

List equipment efficiencies: _____

534.42 P.000 1/2"=1'-0" 1/8"=1'-0" 1/16"=1'-0"

REFER TO ELECTRICAL SHEETS

PERCENTAGE OF WALL OPENING CALCULATIONS

Item	Code
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