2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

Assembly (303)

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: HUSTLE HOUSE FITNESS
Address: 550 STONEWALL STREET Zip Code: 28277
Owner or Authorized Agent: DESTINY WELLENREITER Phone #: 704.488.0828
E-Mail: DESTINY@HUSTLEHOUSE.COM

Owned By: ☐ City/County ☑ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☑ County ☐ State

CONTACT: ______________________

Designer	Firm	Name	License #	Phone #	Email
Architectural	OVERCASH DEMMITT ARCHITECTS	STEPHEN OVERCASH	3876	704.332.1615	SOVERCASH@ODA.US.COM
Civil	--	--	--	--	--
Electrical	WAVE ENGINEERING	MICHAEL SENUTA	37734	980-256-7728	INFO@WAVE-ENGINEERING.COM
Fire Alarm	--	--	--	--	--
Plumbing	WAVE ENGINEERING	MICHAEL SENUTA	37734	980-256-7728	INFO@WAVE-ENGINEERING.COM
Mechanical	WAVE ENGINEERING	BANDON DILLARD	46819	980-256-7728	INFO@WAVE-ENGINEERING.COM
Sprinkler-Standpipe	--	--	--	--	--
Structural	--	--	--	--	--
Precast	--	--	--	--	--
Trusses	--	--	--	--	--
Retaining Walls > 5'	--	--	--	--	--
Landscape	--	--	--	--	--
Other	--	--	--	--	--

2018 NC BUILDING CODE: ☐ New Building ☐ Shell/ Core ☑ 1st Time Interior Completions ☐ Addition ☐ Phased Construction – Shell Core

2018 NC EXISTING BUILDING CODE ☐ Prescriptive ☐ Alteration Level I ☐ Historic Property ☐ Repair ☐ Alteration Level II ☐ Change of Use ☐ Chapter 14 ☐ Alteration Level III

CONSTRUCTED: (date) CURRENT USE(S) (Ch. 3) :
RENOVATED: (date) PROPOSED USE(S) (Ch. 3) :
OCCUPANCY CATEGORY (Table 1604.5): Current: II Proposed: II

BASIC BUILDING DATA YEAR BUILT: 2001

Construction Type: ☑ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ☐ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☑ Yes ☐ Partial ☑ 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

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6th Floor	10,623	--	--
5th-19th Floor	13,037	--	--
4th Floor	13,635	--	--
3rd Floor	14,175	--	--
2nd Floor	10,780	--	--
1st Floor A	2,153	--	--
1st Floor B	3,760	2,796 (upfit)	--
TB	1,071	--	--
TOTAL	251,732	2,796 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-1 Condition ☐ 1 ☐ 2
I-2 Condition ☐ 1 ☐ 2
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 Occupancy Classification(s):_______________________
Incidental Uses (Table 509):_______________________
This separation is not exempt as a Non-Separated Use (see exceptions).
Special Uses (Chapter 4 – List Code Sections): _______________________
Special Provisions: (Chapter 5 – List Code Sections): _______________________
Mixed Occupancy: ☐ No ☑ Yes Separation : ☐ 1 HR ☐ 2 HR Exception:_______ ☐ 3 HR ☐ 4 HR
☑ Non-Separated Use (508.3)
☐ 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.

Actual Area of Occupancy A / Allowable Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy B ≤ 1

-- / -- + -- / -- = -- / -- ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE	(D) ALLOWABLE AREA PER STORY OR UNLIMITED
1	BUSINESS	3,760	9,000	6,750	15,750
1A	BUSINESS	2,153	9,000	6,750	15,750
2	BUSINESS	10,780	9,000	6,750	15,750
3	R-2	14,175	9,000	6,750	15,750
4	R-2	12,939	9,000	6,750	15,750
5-19	R-2	13,037	9,000	6,750	15,750
20	A-3	1,990	--	--	--
20	R-2	8,691	--	--	--
TOTAL		--	--	--	31,500

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 =_____ ft (F)
b. Total Building Perimeter =_____ ft (P)
c. Ratio (F/P) =_______ (F/P)
d. W = Minimum width of public way =_____ ft (W)

N/A

2 Unlimited area applicable under conditions of Section 507.
3 Maximum Building Area = total number of stories in the building x D (maximum3 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.

ALLOWABLE HEIGHT

	ALLOWABLE HEIGHT (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet	UL	241'-6"	504.2
Building Height in Stories	UL	20	504.2

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

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ ___ HR* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural frame, including columns, girders, trusses		3HR	3HR EX	REFERENCE SHELL PERMIT SET FOR DETAILS ON EXISTING CONSTRUCTION RATINGS			
Bearing Walls		3HR	3HR EX				
Exterior		--					
North		3	N/A				
East		3	N/A				
West		3	N/A				
South		3	N/A				
Interior		0					
Nonbearing Walls and Partitions							
Exterior walls							
North	>30	0	0				
East	16'-0"	0	0				
West	>30	0	0				
South	18'-11"	1	1 EX				
Interior walls and partitions		0	0				
Floor Construction including supporting beams and joists.		2	2 EX				
Roof construction, including supporting beams and joists		1 1/2	2 ROOF EX 1.5 SECON. EX				
Shafts - Exit Enclosures		2	2 EX				
Shafts - Other		2	2 EX				
Corridor Separation		1/2	1 EX				
Occupancy/Fire Barrier Separation		0	0				
Party/Fire Wall Separation		1	n/a				
Smoke Barrier Separation		1	1 EX				
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation		1	1 EX				
Incidental Use Separation		2	2 EX				

* 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 (%)
N: X> 30'-0"	UP,S	NO LIMIT	N/A
E: 10'-0"< X > 15'-0"	UP,S	45%	<45%
E: 20'-0"< X < 25'-0"	UP,S	NO LIMIT	75%
S: 10'-0"< X < 15'-0"	UP,S	45%	<45%
S: 15'-0"< X < 20'-0"	UP,S	75%	<75%
S: 20'-0"< X < 25'-0"	UP,S	NO LIMIT	<75%
W: X> 30'-0"	UP,S	NO LIMIT	N/A
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--

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 #: G-101
☑ 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
☐ 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 exception or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(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
143	143	143	6	6	137	137	143

ACCESSIBLE PARKING
(Section 1106)

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
	REFER TO LOW RISE PACKAGE IN SHELL PERMIT SET FOR DEVELOPMENT DETAILS					

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
1ST FLOOR	REQUIRED	1	1	0	0	1	1	0	0	1	1
	PROVIDED	1	1	0	0	1	1	0	2	1	1

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

N/A

ENERGY SUMMARY BELOW IS EXISTING AND APPROVED UNDER SHELL BUILDING PERMIT

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
Climate Zone: ☐ N/A ☑ 3A ☐ 4A ☐ 5A
Method of Compliance: ☐ Energy Code - Prescriptive ☐ ASHRAE 90.1 - Prescriptive ☑ Energy Code - Performance ☐ ASHRAE 90.1 - Performance ☐ Other - Performance (If "Other" specify source here) ________

THERMAL ENVELOPE: REFER TO MECHANICAL DRAWINGS OF SHELL PERMIT

Roof/Ceiling Assembly (each assembly)
Description of assembly: FULLY ADHERED SINGLE PLY ROOF MEMBRANE OVER TAPERED RIGID INSULATION BOARD (5" MIN) ON CONCRETE ROOF DECK
U-Value of total assembly: MAX U-FACTOR: 0.039
R-Value of insulation: MIN R-25 CONTINUOUS INSULATION
Skylights in each assembly: NONE
U-Value of skylight: NONE
total square footage of skylights in each assembly: NONE

Exterior Walls (each assembly)
Description of assembly: EXTERIOR INSULATION FINISHING SYSTEM (EIFS) OVER FLUID APPLIED WEATHER RESISTIVE BARRIER, OVER 5/8" GYPSUM SHEATHING ON MTL STUDS, PRE-FINISHED ALUMINUM CURTAINWALL & STOREFRONT SYSTEMS
U-Value of total assembly: MAX U-FACTOR FOR METAL FRAME WALL: 0.064 CURTAINWALL/STOREFRONT: 0.45
R-Value of insulation: MIN R13 + R7.5 CONTINUOUS INS FOR MTL FRAMED WALL
Openings (windows or doors with glazing): WINDOWS & DOORS % OF ABOVE GRADE WALLS: 6.15% @ 1, 35.61% & 77.8% @ B1
U-Value of assembly: 0.064 FOR MTL FRAMED WALL. 0.45 FOR CURTAIN WALL
Solar heat gain coefficient: 0.40 FOR PF FACTORS ABOVE 0.5
Projection factor: AVERAGE OF 0.81
Door R-Values: 0.77

Walls below Grade (each assembly): CIP CONC WALL (W/GRAN. FILL ON PROTECT. BD. ON FULLY ADH WTRPRFNG. MEMB @EXT), 5/8" GWB ON 2 1/2" MTL STD ON 2" RIGID INS. BD @ BELOW-GRADE LOCATIONS
Description of assembly
U-Value of total assembly: MAX. U FACTOR = 0.104
R-Value of insulation: MIN. R-9.5 CONTINUOUS INSUALTION

Floors Over Unconditioned Space (each assembly)
Description of assembly: 12" P.T. CONCRETE SLAB OVER TRASH ROOM
U-Value of total assembly: MAX U VALUE = 0.064
R-Value of insulation: MIN. R-12.5 CONTINUOUS INSULATION

Floors Slab on Grade (each assembly)
Description of assembly: 4" CONC SLAB ON MIN 15 MIL. VAPOR BARRIER ON 6" GRAVEL BASE
U-Value of total assembly: N/A
R-Value of insulation: R-10 FOR 24" - UNHEATED SLAB
Horizontal / Vertical Requirement: ________
Slab Heated: ________

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)

DESIGN LOADS:
Importance Factors: Wind (I_W) ☐ 1.0
Snow (I_S) ☐ 0.8 ☐ 1.0 ☐ 1.1 ☐ 1.2
Seismic (I_E) ☐ 1.0 ☐ 1.25 ☐ 1.5
Live Loads: Roof: ________ psf
Mezzanine: ________ psf
Floor: ________ psf
Ground Snow Load: ________ psf
Wind Load: Basic Wind Speed ________ mph (ASCE-7)
Exposure Category ☐ N/A ☐ B ☐ C ☐ D

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________ %g S_1________ %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data
Basic Structural System (check one)
☐ Bearing Wall ☐ Dual with Special Moment Frame
☐ Building Frame ☐ Dual with 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 ________

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 --
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 - Prescriptive ☐ ASHRAE 90.1 - Prescriptive ☐ Energy Code - Performance ☐ ASHRAE 90.1 - Performance
Lighting Schedule (each fixture type)
Lamp type required in fixture --
Number of lamps in fixture --
Ballast type used in 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

NUMBER AND ARRANGEMENT OF EXITS (TABLE 1021.1)

FLOOR, ROOM, OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS: REQUIRED	MINIMUM NUMBER OF EXITS: SHOWN ON PLANS	TRAVEL DISTANCE: ALLOWABLE TRAVEL DISTANCE	TRAVEL DISTANCE: ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS: REQ'D DISTANCE BETWEEN EXIT DOORS	ARRANGEMENT MEANS OF EGRESS: ACTUAL DISTANCE SHOWN ON PLANS
BUSINESS	2	2	300'	55'-11"	26'-2"	N/A
--	--	--	--	71'-5"	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--

1 - CORRIDOR DEAD ENDS (SECTION 1018.4)
2 - BUILDINGS WITH SINGLE EXITS (TABLE 1021.2) SPACES WITH ONE MEANS OF EGRESS (TABLE 1015.1)
3 - COMMON PATH OF TRAVEL (SECTION 1014.3)

OCCUPANT LOAD AND EXIT WIDTH (TABLE 1004.1.1)

USE GROUP OR SPACE DESCRIPTION	(A) AREA (sq. ft.) 1	(B) AREA PER OCCUPANT	(C) EGRESS WIDTH PER OCCUPANT: STAIR	(C) EGRESS WIDTH PER OCCUPANT: LEVEL	EXIT WIDTH (in) REQUIRED WIDTH (A/B) x C: STAIR	REQUIRED WIDTH: LEVEL	ACTUAL WIDTH SHOWN ON PLANS: STAIR	ACTUAL WIDTH SHOWN ON PLANS: LEVEL
BUSINESS	984	100= 9.8 PEOPLE	3	2	--	8.06	---	136
EXERCISE	1525	50= 30.5 PEOPLE	--	--	--	--	--	--
--	--		--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
TOTAL	--	41 PEOPLE	--	--	--	--	--	--

1 - SEE TABLE 1004.1.1 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE. SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002)
2 - MINIMUM STAIRWAY WIDTH (SECTION 1009.1) MIN CORRIDOR WIDTH (SECTION 1018.2) MIN DOOR WIDTH (SECTION 1008.1.1)
3 - MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1023.2)
4 - SEE SECTION 1004.5 FOR CONVERGING EXITS.
5 - THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50 PERCENT OF THE TOTAL REQUIRED (SECTION 1005.1)
6 - ASSEMBLY OCCUPANCIES (SECTION 1028)
7 - SPACES WITHIN OCCUPANCIES OR USE GROUPS SHALL BE CALCULATED INDEPENDENTLY. (EX. LOBBIES, LOUNGES, BREAKROOMS, CONFERENCE ROOMS)

ODa
overcash demmitt
2010 south tryon st. suite 1a
charlotte north carolina 28203
office.704.332.1615
web.www.odarch.com

STEPHEN F. OVERCASH REGISTERED ARCHITECT 3876 NORTH CAROLINA CHARLOTTE, N.C. 06.27.2019

Hustle House
ODA Project No. 183324
Charlotte, NC

FOR CONSTRUCTION

06.28.2019

REVISIONS

No.	Description	Date
	FOR CONSTRUCTION	06.28.19

CODE SUMMARY

G-001

Order Plans @ WWW.LDIILine.com