

TABLE S-1 FLOOD HAZARD INFORMATION & FLOOD LOADS

FLOOD HAZARD AREA
 Base Flood Elevation: NA
 Design Flood Source: NA
 Flood Hazard Category: NA

NON-HIGH VELOCITY WAVE ACTION
 Elevation of Lowest Proposed Floor: NA
 Dry Floodproofing: No

HIGH VELOCITY WAVE ACTION
 Elevation of bottom of lowest horizontal structural member of lowest floor: NA
 Flood-resistant: No
 Breakaway wall: No

IBC 1612 and 58-960, as applicable

ZONING CERTIFICATION

"I hereby certify that, to the best of my knowledge, these plans comply with applicable zoning ordinances, and that plans have been submitted to appropriate authority for their review and/or approval."

Signed: *[Signature]* 11/20/16
 Date

EROSION AND SEDIMENT REDUCTION/STORMWATER MANAGEMENT

Designer's Certification:
 "I hereby certify that the measures in this plan are designed to control erosion, retain sediment on the site, and manage stormwater in a manner that neither any on-site nor off-site damage or problem is caused or increased, that all structural measures are designed to the minimum standards for health and safety, and that all provisions of the plan are in compliance with the Regulations contained in Chapter 72, Article 2, SC Code of Regulations Erosion and Sediment Reduction and Stormwater Management Regulations."

Signed: *[Signature]* 0/23/16
 Date

TABLE S-2 SOILS & SITE

SOILS INVESTIGATION (if required): no yes per IBC 1803.2

SOIL CLASSIFICATION
 Site Class: U per IBC 1803.3.2
 Allowable Bearing Pressure: 2500 psf per IBC 1803.3.3

MINIMUM DESIGN SOIL BEARING LOAD: 2500 psf per IBC Table 1806.2

COMPACTIVITY
 Subgrade: 36 Percent
 Base: 100 Percent
 Other: 98 Percent

MINIMUM DESIGN SOIL LATERAL LOAD: --- per IBC 1610.1

FOUNDATION
 Unvalued footings: no yes
 Compacted fill material: no yes

ELEVATIONS
 Elevation of Water Table: 7.88ft BGS
 Elevation of Lowest Footing: 7.88ft BGS
 Elevation of Highest Footing: 7.88ft BGS

TABLE S-3 BASIC BUILDING CODE INFORMATION

CONSTRUCTION CLASSIFICATION: Type V-B

OCCUPANCY GROUP (indicate all):
 (State IBC 506.3)
 Assembly (A-3)
 Business (B)

OCCUPANCY GROUP (indicate highest restrictive):
 Assembly (A-3)

Does building require incidental Use Area separation? no yes (IBC 506.3.1)

Does building have Accessory Occupancy? no yes (IBC 506.2.1)

If no, what percent of story is Accessory Occupancy? _____

Is Mixed Occupancy? no yes (IBC 508)

Is Non-separated? no yes (IBC 507.1)

Is Separated? no yes (IBC 507.2)

OTHER FIRE PROTECTION SYSTEMS, DEVICES OR FEATURES
 If the building has any special or notable fire protection or safety feature or hazard the designer should identify them here, describe the performance characteristics and refer to local jurisdiction requirements. No extinguishers, smoke, evacuation/control/compartments. Note IBC 411.

TABLE S-4 BUILDING AREA

AREA LIMIT BY TABLE 503 OF IBC (Do not indicate increases for sprinklers & street frontage): 4,200 SF

AREA MODIFICATION FROM EQUATION 5-1 OF IBC (Repeat equation for each story of differing occupancies, IBC 506.5.2):
 Equation 5-1: $A_{max} = A_t + (A_f \times F) + (A_p \times F_p)$
 A_t = Tabular area per story in accordance with Table 503
 F = Area increase factor due to frontage (percent) as calculated in accordance with Section 506.2
 A_p = Allowable area per story (square feet)
 F_p = Area increase factor due to frontage (percent) as calculated in accordance with Section 506.2

Maximum modified area per story: 27,750 SF

TOTAL ALLOWED AREA OF BUILDING (Sum of all stories): 27,750 SF

AREA AS DESIGNED PER STORY (Repeat for each story): 15,000 SF

TOTAL DESIGNED AREA OF BUILDING: 15,000 SF

TABLE S-5 BUILDING HEIGHT

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
Without any Allowable Increase (per IBC Table 503)			40'	3
Allowable Height Increase (per IBC 904.2)			20'	1
Total Height, including any Allowable Increase	60' ± 0"	4	60'	4

TABLE S-6 BUILDING DESIGN OCCUPANT LOAD

Stories & Levels	Function of Space (L)	A		B		C		D
		Floor Area (L)	Design Occupant Load (L)	Floor Area (L)	Design Occupant Load (L)	Floor Area (L)	Design Occupant Load (L)	
1	Assembly without fixed seats (Theater, concert hall, lecture hall, etc.)	2,841 sqf	15	15	189			364
	Educational - Classroom Area	2,413 sqf	20	20	120			
	Educational - Shops and other vocational areas	1,409 sqf	50	50	25			
	Business Areas	1,836 sqf	100	100	19			
Accessory storage areas, mechanical equipment rooms		1,966 sqf	300	300	7			
Subtotal Design Occupant Load for This Story								364
Total Building Design Occupant Load								364

FOOTNOTES
 1. Provide the complete name of the Function of Space using the left column of Table 1009.1.2 of the IBC.
 2. Design Area per each occupant of this function on this floor in either Gross or Net square footage.
 3. Allowable Floor Areas in SF per Occupant per right column of Table 1009.1.2 of the IBC.
 4. Divide Column A (2) by Column B (3) for each function and enter result, rounded up to the nearest integer (1).
 5. Subtotal all Column C values for this floor to yield the Design Occupant Load (5).
 6. Total Building Design Occupant Load - sum of all Column D values (6).

TABLE S-10 PLUMBING INFORMATION

WATER SYSTEM
 Service Line Size: 2"
 Peak Flow: 77 GPM
 Total Demand: 143 No. Fixture Units

SEWAGE SYSTEM
 Loading: 10 per fixture (1) for staff
 Service Line Size: 4" (Schedule 40)
 Slope: 1/8" min velocity

MINIMUM PLUMBING FIXTURES REQUIRED/PROVIDED Per IFC Section 403.8 & Table 403.1

Fixture	Male-Required	Male-Provided	Female-Required	Female-Provided
Water Closets	4	6	4	6
Laboratory	2	3	2	3
Urinals*	3	3	3	3

OTHER FIXTURES (Per IFC Section 403.8, Table 403.1):
 Drinking Fountains: 3
 Lavatories: 3
 Service Sinks: 1
 Other (04): 1

* Urinals - See IFC 419.2
 Where more occupancies occur within buildings, expand this table to indicate Occupant Loads for each. The minimum required toilet fixtures are calculated for the total Design Occupant Load indicated in Table S-6.

TABLE S-11 MECHANICAL INFORMATION

AIR CONDITIONING SYSTEMS
 Overall Thermal Transfer Value (OTTV): 1.1
 Building Cooling Load: 357 SF/Year
 Building Heating Load: 5.0 BTUH/7.5 SF (BTUH = BTU/Hour)

OTHER LOADING FEATURES
 Glass: 0.75 U-factor
 Insulation Values: R-20 Roof, R-13 Exterior Walls

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT
 Briefly describe mechanical system: 1) Two VRF systems that provide space heating and cooling. 2) Two ECOS (indicated outdoor air units) that provide pre-conditioned outdoor air to the ducted air handling units or directly to the space. 3) Ceiling mounted exhaust fans for individual restrooms, toilet exhaust fan for group restrooms, 4) Exhaust fans with exhaust fans and make-up air fan for Cjinary Classroom. 5) HVAC Controls will utilize a Building Automation System that will integrate via BMS to the VRF system controllers.

TABLE S-8 FIRE RESISTANCE RATING OF BUILDING ELEMENTS

BUILDING ELEMENT	Rating As Required (In hours)	Rating As Designed (In hours)	Testing Agency & Design No. (UL, FM, etc.)	Designs Walls/Partitions/Door/Frame
Structural Frame (per IBC Table 601)	0	0		
Bearing Walls (Interior) (per IBC Table 601)	0	0		
Non-bearing Walls & Partitions (Interior) (per IBC Table 601 & 602)	0	0		
Fire Walls (per IBC Section 706)	0	0		
Fire Doors (per IBC Section 707)	0	0		
Fire Partitions (per IBC Section 708)	0	0		
Opening & Protective Listing by Category (from shutters, doors, etc. per IBC Section 705)	0	0		
Others (As required by Designer)	0	0		

TABLE S-9 STRUCTURAL DESIGN INFORMATION

RISK CATEGORY: III IBC Table 1604.5

LIVE LOADS
 Mezz. Fin. Use Load: 40 PSF
 Roof Live Load: 20 PSF
 Ground Snow Load: 10 PSF

WIND LOADS
 Analysis Procedure: Envelope
 Ultimate Design Wind: 126 MPH
 Exposure Category: B
 Internal Pressure Coefficient: CL
 External Pressure Coefficient: GC

SEISMIC LOADS
 Seismic Risk Category: II
 Seismic Design Category: D
 Analysis Procedure: Equivalent Lateral Force Procedure

ARCHITECTURAL-MECHANICAL LOADS
 Provide as applicable: architectural forms, mechanical, plumbing, etc. per ASCE 7

SPECIAL LOADS
 Provide as applicable: abnormal rears, moving loads, impact, hoisting, etc. per ASCE 7

*Per IBC Chapter 16 and ASCE 7 - Information may be shown on a Structural Steel of the Drawings or on Sheet with other code information, but floor design loads on structural plans.

TABLE S-12 ELECTRICAL INFORMATION

SERVICE TRANSFORMER: By Utility Company By Agency (If by Agency) KVA/Primary Voltage/Phase

ELECTRICAL SERVICE INFORMATION
 Service Voltage/Phase: _____
 Service Entrance Conductors Size: _____
 Total Connected Load: _____ KVA
 Estimated Maximum Demand: _____ KVA
 Available Fault Current in System (Amperes): _____
 Interrupting Capacity of Service Overcurrent Device: _____ (MCC 250)
 Grounding Electrode System Components: _____

EMERGENCY SERVICE INFORMATION
 Emergency Generator: No Yes Voltage/Phase: _____ Fuel: _____
 Exit/Emergency Light Backup Power: Integral Battery Generator
 Fire Alarm System: Manual Automatic Addressable: Non-addressable Class A: Class B

LIGHTNING PROTECTION PROVIDED: No Yes

COMMUNICATIONS COORDINATED: Not Required Yes
 Contact: DSI Network Infrastructure Planning for applicability at 1803 936-0001

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1890 EXTENSION SC STATE UNIVERSITY
CAMP HARRY G. DANIELS 1890 EXTENSION FACILITY - RE - BID
 Agency Review ID: H24-9649-CA
 116 Camp Daniels Road, Ellenton, SC

OSI REVIEW SUBMITTAL 11/17/2017

BD SET

SHEET TITLE: CODE SUMMARY

SHEET NO. **G1.01** PROJ. NO. **13140.00**

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