TI RADCO, LLP

3220 E.59TH STREET
LONG BEACH, CA 90805
Tel (562) 272-7231
Fax (562) 529-7513
www.RADCOinc.com
Email: info@RADCOinc.com

June-24-2021

DLLR in Baltimore, MD
Norman C. Wang, RA, & Mr. Jun Zhao
Director, Building Codes Administration
Mr. Jun Zhao PE, Program Manager

Submitted-E-mail

Director, Building Codes Administration

Division of Labor and Industry

Maryland Department of Labor, Licensing and Regulation

1100 North Eutaw Street, Room 606

Baltimore, Maryland 21201

RE: SPECIALIZED STRUCTURES, INC.- DOUGLAS, GA

Dear Norman C. Wang, R.A, Mr. Jun Zhao PE, Program Manager

Please find enclosed for your files the following documents, approved by RADCO under the Maryland Industrialized Buildings Program, and submitted.

RADCO Approval Letter
Plan Number: SSI-6005-21 -23'-4"x34'-0-MD-Plans-Business (MD-SET)
Energy Calculations
Truss: F0350652_signed
No Plan Review Record Form (7 Module) Required
Site Plan (7 Module)- Not Required
No Site plan (Initial installation- Not MD, if this building is to be installed in
The future in the state of MD, a site plan shall be provided and attached to the
Permit application for the building

STATE OF MARYLAND PACKAGE REFERENCES:
FRAME I-BEAM DESIGN - C10.1
FLOOR SYSTEM DESIGN - C5.2
MATELINE COLUMNS - C27.7
MATELINE PLYWOOD BEAMS - C29.1 & C29.3
OVERTURNING AND SLIDING - D24.0
LONGITUDINAL TIE DOWN - D25.0

RADCO's review confirmed that the design complies with the following codes:

COMMERCIAL CODES:

ASCE	7-16
Building	2018-International Building Code w/ MD Amendments
	2018-NFPA 101 with MD Amendments
Life Safety	2018-NFPA 101 Life Safety Code w/ MD Amendments
Plumbing	2018-IPC with MD Amendments
Mechanical	2018-International Mechanical Code (IMC)
Electrical	2017-National Electrical Code (NEC)
	with MD Amendments
Energy	2018-International Energy Conservation Code IECC
	with MD Amendments
	2013-ASHRAE-90.1
Accessibility	2012 Maryland Accessibility Code. (2012 M.A.C) Per MD
	2010 ADA CHAPTER 02 MD
	Accessibility Code, 2012-ADAAG- 2012 M.A.C

Please feel free to contact me in our Tampa office at (813) 243-0370 if additional information is needed.
Sincerely,

James Slaght

James Slaght, MCP
Plan Review Manager-Eastern Region RADCO, A Twining Company
enclosures
cc: Ms. cheyenne@specializedstructures.com Specialized Structures, Inc.
(file: SSI - Maryland Correspondence)

COM*check* Software Version 4.1.5.1

Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	SSI 6005-21 23-4X34 EDUCATION-STOCK
Location:	Baltimore, Maryland
Climate Zone:	4a
Project Type:	New Construction
Vertical Glazing / Wall Area:	5%

APPROVED RADCO APPROVED
24-Jun-21
James Slaght, MCP

Construction Site:

Owner/Agent:
SPECIALIZED STRUCTURES,INC
2400 SPRINGHEAD CHURCH ROAD
WILLACHOOCHEE, GA 31650

Designer/Contractor:
WALTER E. WOOD P.E.
168 W. LONGLEAF DRIVE
SYLVESTER, GA 31791

Additional Efficiency Package(s)

On-site Renewable Energy

Building Area	Floor Area
1-School/University : Nonresidential	794

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - School/University]	794	49.0	0.0	0.021	0.027
Floor 1: Wood-Framed, [Bldg. Use 1 - School/University]	794	30.0	0.0	0.033	0.033
SOUTH					
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - School/University]	974	19.0	0.0	0.067	0.064
Window 1: Metal Frame with Thermal Break:Operable, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - School/University] (b)	27	---	---	0.450	0.450
Window 2: Metal Frame with Thermal Break:Operable, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - School/University] (b)	19	---	---	0.450	0.450
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - School/University]	40	---	---	0.292	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Envelope PASSES: Design 9% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature VALID

06-24-2021

Date

APPROVED RADCO APPROVED
24-Jun-21
James Slaght, MCP

COM*check* Software Version 4.1.5.1

Interior Lighting Compliance Certificate

APPROVED RADCO APPROVED
24-Jun-21
James Slaght, MCP

Project Information

Energy Code: 2018 IECC
Project Title: SSI 6005-21 23-4X34 EDUCATION-STOCK
Project Type: New Construction

Construction Site:

Owner/Agent:
SPECIALIZED STRUCTURES,INC
2400 SPRINGHEAD CHURCH ROAD
WILLACHOOCHEE, GA 31650

Designer/Contractor:
WALTER E. WOOD P.E.
168 W. LONGLEAF DRIVE
SYLVESTER, GA 31791

Additional Efficiency Package(s)

On-site Renewable Energy

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-School/University	794	0.81	643
		Total Allowed Watts =	643

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-School/University				
LED 1: LED Linear 33W:	2	9	66	594
			Total Proposed Watts =	594

Interior Lighting PASSES: Design 8% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.1 and will comply with any applicable mandatory requirements listed in the Inspection Checklist.

VALID

STATE OF MARYLAND WALTER E. WOOD 50946 PROFESSIONAL ENGINEER

Name - Title | Signature | Date: 06-24-2021

COMcheck Software Version 4.1.5.1

Exterior Lighting Compliance Certificate

APPROVED RADCO APPROVED
24-Jun-21
James Slaght, MCP

Project Information

Energy Code:	2018 IECC
Project Title:	SSI 6005-21 23-4X34 EDUCATION-STOCK
Project Type:	New Construction
Exterior Lighting Zone	2 (Residential mixed use area)

Construction Site:

Owner/Agent:
SPECIALIZED STRUCTURES,INC
2400 SPRINGHEAD CHURCH ROAD
WILLACHOOCHEE, GA 31650

Designer/Contractor:
WALTER E. WOOD P.E.
168 W. LONGLEAF DRIVE
SYLVESTER, GA 31791

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking near 24-hour retail entrance	3 main	400	No	1200
Outdoor sales area/lot	3 ft2	0.2	Yes	1
			Total Tradable Watts (a) =	1
			Total Allowed Watts =	1201
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking near 24-hour retail entrance (3 main entrys): Non-tradable Wattage				
Incandescent 1: Incandescent 60W:	1	1	60	60
Outdoor sales area/lot (3 ft2): Tradable Wattage				
Incandescent 2: Incandescent 60W:	1	1	60	60
			Total Tradable Proposed Watts =	60

Exterior Lighting PASSES: Design 85% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.1 and will comply with any applicable mandatory requirements listed in the Inspection Checklist.

STATE OF MARYLAND WALTER E. WOOD 30946 PROFESSIONAL ENGINEER

VALID

Name - Title	Signature	Date
		06-24-2021

COM*check* Software Version 4.1.5.1

Mechanical Compliance Certificate

APPROVED RADCO APPROVED
24-Jun-21
James Slaght, MCP

Project Information

Energy Code:	2018 IECC
Project Title:	SSI 6005-21 23-4X34 EDUCATION-STOCK
Location:	Baltimore, Maryland
Climate Zone:	4a
Project Type:	New Construction

Construction Site:

Owner/Agent:
SPECIALIZED STRUCTURES,INC
2400 SPRINGHEAD CHURCH ROAD
WILLACHOOCHEE, GA 31650

Designer/Contractor:
WALTER E. WOOD P.E.
168 W. LONGLEAF DRIVE
SYLVESTER, GA 31791

Additional Efficiency Package(s)

On-site Renewable Energy

Mechanical Systems List

Quantity	System Type & Description
1	HVAC System 1 (Single Zone):
	Heating: 1 each - Other, Electric, Capacity = 34120 kBtu/h
	No minimum efficiency requirement applies
	Cooling: 1 each - Single Package Vertical AC Unit, Capacity = 42000 kBtu/h, Air-Cooled Condenser, Air Economizer
	Proposed Efficiency = 9.00 EER, Required Efficiency: 8.60 EER
	Fan System: None

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

STATE OF MARYLAND WALTER E. WOOD 50946 PROFESSIONAL ENGINEER

VALID

Name - Title	Signature	Date
		06-24-2021

COM*check* Software Version 4.1.5.1

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR10][1]	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR11][1]	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C402.4.2 [PR14][1]	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2.1 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.12.2, C403.12.3 [FO9][3]	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12][2]	Fenestration products rated in accordance with NFRC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.1.3 [FR13][1]	Fenestration products are certified as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.3 [FR10][1]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8][1]	Vertical fenestration U-Factor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.4 [FR14][2]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.2.1 [FR19][1]	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.2, C402.5.4 [FR18][3]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.7 [FR17][3]	Vestibules are installed on all building entrances. Doors have self-closing devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.7 [PL8][3]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.5, C403.2.4.3 [ME3][3]	Stair and elevator shaft vents have motorized dampers that automatically close. Refernece section C403.7.7 for operational details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.1 [ME65][3]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.8.3 [ME117][2]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.12.1 [ME71][2]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.3 [ME55][2]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.6 [ME141][3]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.1, C403.11.2 [ME60][2]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.5 [EL28][null]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3][1]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.2.1 [IN20][1]	Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roor/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.1 [IN10][2]	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2, C402.2.4 [IN9][2]	Floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2.1 [IN14][2]	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.3 [IN8][2]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18][3]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.1 [IN1][1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.6 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.6 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.6 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.6 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.8 [FI26][3]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4.2.1, C403.2.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.1 [FI31][1]	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.2 [FI10][1]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI7][3]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.3 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.4 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Job	Truss	Truss Type	Qty	Ply	Specialized Structures 316 GA
95430	F0350652	FLAT	1	1	Ref. #10002617

Universal Forest Products Inc., Grand Rapids, MI 49525, Weston Gorby 8.220 e Aug 13 2018 MiTek Industries, Inc. Fri Mar 22 11:11:03 2019 Page 1 of 1

- This replaces the drawing issued on 3/21/2019 -
- Wind loading changes -

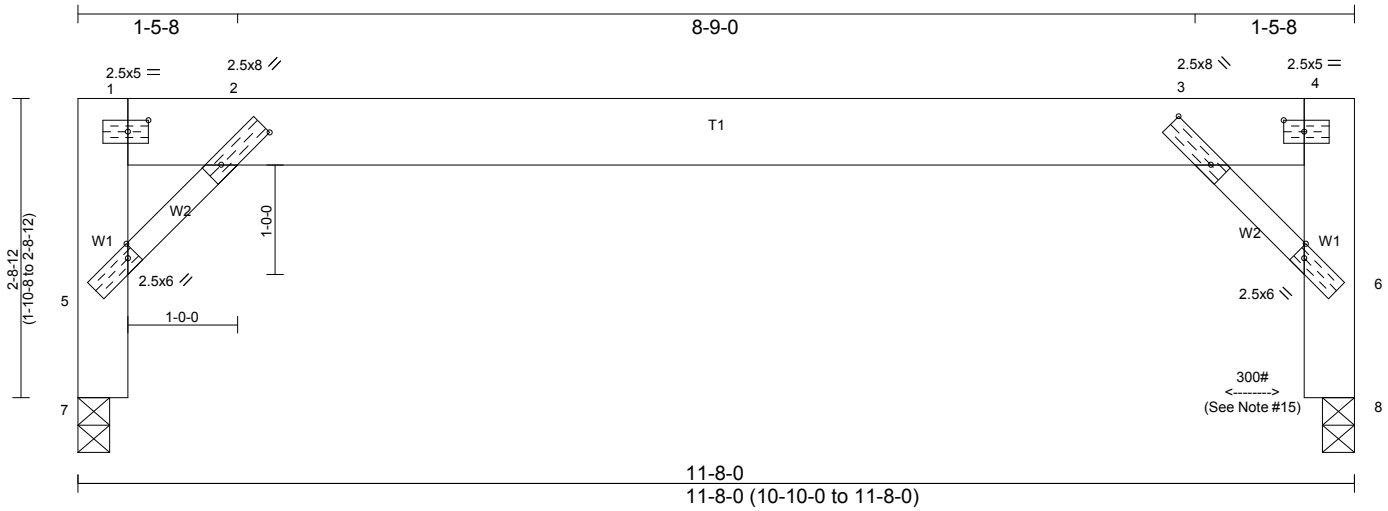

Plate Offsets (X,Y)-- [1:0-2-4,0-1-4], [2:0-6-4,0-1-4], [3:0-6-4,0-1-4], [4:0-2-4,0-1-4], [5:0-1-0,0-1-4], [6:0-1-0,0-1-4]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	46.2	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.48	2-3	>282	240	MT20	244/190
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.00	Vert(CT)	0.45	2-3	>302	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	-0.74	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-R							Weight: 49 lb	FT = 0%
BCDL	0.0		IBC2015/TPI2014									
			IBC2012/TPI2007									

LUMBER-
TOP CHORD 2x8 SP DSS
WEBS 2x6 SP No.2 *Except*
W2: 2x3 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=457/0-3-8 (min. 0-1-8), 8=457/0-3-8 (min. 0-1-8)
Max Horz 7=-101(LC 7)
Max Uplift 7=-215(LC 7), 8=-215(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-7=-457/438, 1-5=-489/1180, 1-2=-274/328, 2-9=-400/400, 9-10=-400/400, 10-11=-400/400, 3-11=-400/400, 3-4=-270/331, 6-8=-457/463, 4-6=-489/1238
WEBS 2-5=-1061/982, 3-6=-1066/977

APPROVED RADCO APPROVED
18-Jun-21
James Slaght, MCP

NOTES-
1) Wind: ASCE 7-16; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=0.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and, Exterior(2) 2-2-12 to 5-8-0, Corner(3) 5-8-0 to 11-5-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pg=60.0 psf; Ps=46.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Roof design snow load has been reduced to account for slope.
4) Provide adequate drainage to prevent water ponding.
5) The bottom chord dead load shown is sufficient only to cover the truss weight itself and does not allow for any additional load to be added to the bottom chord.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 7, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 7 and 215 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) This truss is designed in accordance with the 2012 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
13) This truss is designed in accordance with the 2015 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
14) When adjusting the variable span dimension, adjust the post placement dimensions proportional to the change in span.
15) This design has been checked for a horizontal wind load as shown.
16) Based on: F0350651
17) Revision: Increased wind speed

4/27/2020

The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

Universal Forest Products, Inc.
PHONE (616)-364-6161 FAX (616)-365-0060
2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525

UFP INDUSTRIES

Job	Truss	MFG	Customer
95430	F0350652	316	TITAN MODULAR SYSTEMS

The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use a design in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

APPROVED RADCO APPROVED
18-Jun-21
James Slaght, MCP

Corporate Engineering
2801 East Beltline, NE Grand Rapids, MI 49525-9736 (616) 364-6161 Fax (616) 365-0060
ufpi.com

KENNETH A. GODFREY, P.E. CONSULTING ENGINEER 490 RUSTIC BARN TRAIL MORGANTON, GA 30560	CONSTRUCTION DETAILS INDEX FOR 2018 IBC	SPECIALIZED STRUCTURES, INC. 2400 SPRINGHEAD CHURCH RD. WILLACOOCHEE, GA 31650

RADCO APPROVED
Jan 06, 2020
RESOURCES, APPLICATIONS, DESIGN & CONTROLS, INC.
EASTERN NATIONAL REGION
5801 BENJAMIN CENTER DRIVE, SUITE 102
TAMPA, FL 33634
(813) 243-0370 - O | (813) 243-1314 - F
www.radcoinc.com
RADCO
YOUR VISION · OUR MISSION
THIRD PARTY DESIGN APPROVAL & INSPECTION AGENCY

GEORGIA REGISTERED 21147 PROFESSIONAL ENGINEER KENNETH A. GODFREY

STATE OF MARYLAND KENNETH A. GODFREY NO. 19336 REGISTERED PROFESSIONAL ENGINEER

STATE OF NEW JERSEY KENNETH A. GODFREY No. GE-35038 LICENSED PROFESSIONAL ENGINEER

STATE OF MARYLAND KENNETH A. GODFREY NO. 19336 REGISTERED PROFESSIONAL ENGINEER

12-11-2019

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19336, EXPIRATION DATE: 08–18–21."

DATE: 05–28–19

PAGE: C0.0

KENNETH A. GODFREY, P.E. CONSULTING ENGINEER 490 RUSTIC BARN TRAIL MORGANTON, GA 30560	CONSTRUCTION DETAILS INDEX FOR 2018 IBC	SPECIALIZED STRUCTURES, INC. 2400 SPRINGHEAD CHURCH RD. WILLACOOCHEE, GA 31650

GEORGIA REGISTERED NO. 21147 PROFESSIONAL ENGINEER KENNETH A. GODFREY

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APPROVED RADCO Jan 06, 2020 APPROVED

DATE: 05–28–19

PAGE: C0.1

KENNETH A. GODFREY, P.E. CONSULTING ENGINEER 490 RUSTIC BARN TRAIL MORGANTON, GA 30560	11'–8" WIDE FLOOR SYSTEMS SUMMARY	SPECIALIZED STRUCTURES, INC. 2400 SPRINGHEAD CHURCH RD. WILLACOOCHEE, GA 31650

OCCU–PANCY USE GROUPS	FLOOR SYSTEM	MAX. FLOOR LOADS (PSF)	MAX. ROOF LOADS (PSF)	MAX. WALL HEIGHT	MAX. ROOF OVER–HANG	I–BEAM SIZE (MIN.) & SPACING	SPACING (C–C)		O.R. ITEM NO.	C.M. ITEM NO.
							O.R.	C.M.		
A,B E	2x6 SYP#2 16" O.C. (1)(2)	100 LL 2000# 10 DL	20 LL 30 SL 12 DL	9'–0"	0'–10"	10" & 95.5"C–C	96"	48"	5	2
A,B E	2x6 SYP#2 16" O.C. (1)(2)	100 LL 2000# 10 DL	20 LL 55 SL 12 DL	9'–0"	1'–6"	10" & 95.5"C–C	48"	48"	5	2
A,B E,S	2x8 SYP#2 16" O.C. (1)(2)	125 LL(10) 2000# 10 DL	20 LL 55 SL 12 DL	9'–0"	1'–6"	10" & 95.5"C–C	N.R.	48"	N.R.	2

11'–9" WIDE FLOOR SYSTEMS SUMMARY

OCCU–PANCY USE GROUPS	FLOOR SYSTEM	MAX. FLOOR LOADS (PSF)	MAX. ROOF LOADS (PSF)	MAX. WALL HEIGHT	MAX. ROOF OVER–HANG	I–BEAM SIZE (MIN.) & SPACING	SPACING (C–C)		O.R. ITEM NO.	C.M. ITEM NO.
							O.R.	C.M.		
A,B E	2x6 SYP#2 16" O.C. (1)(2)	100 LL 2000# 10 DL	20 LL 30 SL 12 DL	9'–0"	0'–6"	10" & 95.5"C–C	96"	48"	7	2
A,B E	2x6 SYP#2 16" O.C. (1)(2)	100 LL 2000# 10 DL	20 LL 55 SL 12 DL	9'–0"	1'–6"	10" & 95.5"C–C	48"	48"	7	2
A,B E,S	2x8 SYP#2 16" O.C. (1)(2)	125 LL(10) 2000# 10 DL	20 LL 55 SL 12 DL	9'–0"	1'–6"	10" & 95.5"C–C	N.R.	48"	N.R.	2
A,B E,S	2x8 SYP#2 16" O.C. (1)(2)	125 LL 2000# 10 DL	20 LL 55 SL 12 DL	9'–0"	1'–6"	10" & 99.5"C–C	N.R.	48"	N.R.	3

SEE "FOOTNOTES TO FLOOR SYSTEMS SUMMARY CHARTS" FOR ADDITIONAL INFORMATION.

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Jan 06, 2020

DATE: 05–28–19

PAGE: C5.2

KENNETH A. GODFREY, P.E. CONSULTING ENGINEER 490 RUSTIC BARN TRAIL MORGANTON, GA 30560	CHASSIS OR PERIMETER I–BEAM SPAN SUMMARIES	SPECIALIZED STRUCTURES, INC. 2400 SPRINGHEAD CHURCH RD. WILLACOOCHEE, GA 31650

MAXIMUM CENTER–TO–CENTER I–BEAM SPAN FOR M12X10.8 OR M12X11.8 OR PACO 12.25X9.91:

MAXIMUM MODULE WIDTH:	GROUND SNOW LOAD: 25 PSF FLOOR LIVE LOAD: 50 PSF	100 PSF	125 PSF	250 PSF
12'–0"	13'–3"	11'–9"	11'–0"	8'–6"
14'–0"	12'–6"	11'–0"	10'–3"	8'–0"
16'–0"	11'–9"	10'–6"	9'–9"	7'–6"

MAXIMUM MODULE WIDTH:	GROUND SNOW LOAD: 35 PSF FLOOR LIVE LOAD: 50 PSF	100 PSF	125 PSF	250 PSF
12'–0"	13'–0"	11'–6"	10'–9"	8'–6"
14'–0"	12'–0"	10'–9"	10'–0"	8'–0"
16'–0"	11'–6"	10'–3"	9'–6"	7'–6"

MAXIMUM MODULE WIDTH:	GROUND SNOW LOAD: 45 PSF FLOOR LIVE LOAD: 50 PSF	100 PSF	125 PSF	250 PSF
12'–0"	12'–6"	11'–3"	10'–6"	8'–6"
14'–0"	11'–9"	10'–6"	10'–0"	7'–9"
16'–0"	11'–0"	10'–0"	9'–3"	7'–3"

MAXIMUM MODULE WIDTH:	GROUND SNOW LOAD: 55 PSF FLOOR LIVE LOAD: 50 PSF	100 PSF	125 PSF	250 PSF
12'–0"	12'–3"	11'–0"	10'–6"	8'–3"
14'–0"	11'–6"	10'–3"	9'–9"	7'–9"
16'–0"	10'–9"	9'–9"	9'–0"	7'–3"

APPROVED RADCO Jan 06, 2020 APPROVED

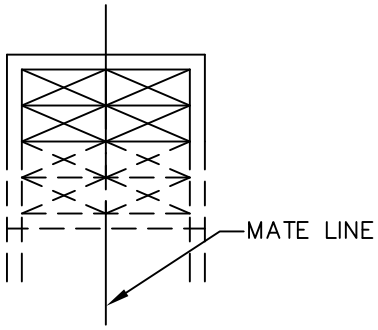
DATE: 05–28–19

PAGE: C10.1

KENNETH A. GODFREY, P.E. CONSULTING ENGINEER 490 RUSTIC BARN TRAIL MORGANTON, GA 30560	COLUMN SUMMARY CHART 9' COLUMN HEIGHT, SYP #2 LUMBER	SPECIALIZED STRUCTURES, INC. 2400 SPRINGHEAD CHURCH RD. WILLACOOCHEE, GA 31650

FREE STANDING COLUMNS AND COLUMNS IN WALLS PARALLEL TO MATE LINE.					MAXIMUM TRIBUTARY SPAN FROM MATE LINE BEAM IN FEET					
NO. OF STUDS PER HALF (2X4 SYP #2, 9' MAX. HEIGHT)	MINIMUM MATE LINE BEAM THICKNESS (INCHES)	MODULE WIDTH			11'–8"	13'–8"	15'–8"	11'–8"	13'–8"	15'–8"
		ROOF LIVE LOAD (PSF)	ATTIC LIVE LOAD (PSF)	GRND. SNOW LOAD (PSF)	WITHOUT MATE LINE BEAM BEARING STIFFENER			WITH MATE LINE BEAM BEARING STIFFENER (2X4 SYP #3 GLUE/NAILED)		
2	1.44	20	0	20	9.2	7.8	6.8	12.3	10.5	9.1
		20	0	35	6.8	5.8	5.0	9.0	7.6	6.7
		20	0	45	5.6	4.7	4.1	7.5	6.4	5.5
2	2.15	20	0	20	10.3	8.7	7.6	16.0	13.6	11.9
		20	0	35	7.6	6.5	5.6	11.8	10.0	8.7
		20	0	45	6.3	5.3	4.7	9.8	8.3	7.3
2	2.88	20	0	20	12.1	10.3	9.0	16.0	13.6	11.9
		20	0	35	8.9	7.6	6.6	11.8	10.0	8.7
		20	0	45	7.4	6.3	5.5	9.8	8.3	7.3
3	1.44	20	0	20	18.2	15.5	13.5	27.9	23.8	20.7
		20	0	35	13.4	11.4	10.0	20.4	17.4	15.1
		20	0	45	11.2	9.5	8.3	17.0	14.5	12.6
3	2.15	20	0	20	24.1	20.5	17.9	31.9	27.2	23.7
		20	0	35	17.7	15.1	13.1	23.4	20.0	17.4
		20	0	45	14.7	12.5	10.9	19.5	16.6	14.5
3	2.88	20	0	20	27.5	23.4	20.4	31.9	27.2	23.7
		20	0	35	20.2	17.2	15.0	23.4	20.0	17.4
		20	0	45	16.8	14.3	12.5	19.5	16.6	14.5
4	1.44	20	0	20	24.4	20.8	18.1	39.0	33.2	29.0
		20	0	35	17.9	15.2	13.3	28.8	24.5	21.4
		20	0	45	14.9	12.7	11.1	24.0	20.4	17.8
4	2.15	20	0	20	36.2	30.9	26.9	42.0	35.8	31.2
		20	0	35	26.5	22.6	19.7	31.2	26.6	23.2
		20	0	45	22.0	18.7	16.3	26.0	22.2	19.3
4	2.88	20	0	20	39.4	33.6	29.3	42.0	35.8	31.2
		20	0	35	28.9	24.6	21.5	31.2	26.6	23.2
		20	0	45	24.0	20.5	17.8	26.0	22.2	19.3

NOTE: ALLOWABLE TRIBUTARY SPANS SHOWN IN CHART SHALL BE REDUCED 25% FOR INTERMEDIATE COLUMNS SUPPORTING MATE LINE BEAMS THAT ARE CONTINUOUS OVER THE COLUMN (I.E. COLUMN SUPPORTS MATE LINE BEAM SPANS ON BOTH SIDES OF COLUMN). SEE "NOTES TO COLUMN CHARTS" PAGE FOR ADDITIONAL INFORMATION.



APPROVED RADCO APPROVED
Jan 06, 2020

DATE: 05–28–19

Kenneth A. Godfrey, P.E.
Consulting Engineer
490 Rustic Barn Trail
Morganton, GA 30560

Plywood Ridge Beam Clear Spans
11'-8" Wide Modules

Specialized Structures, Inc.
2400 Springhead Church Rd.
Willacoochee, GA 31650
Date: 6/4/2019

2 layers 3/4" Plywood Rated Sheathing, Exposure 1, Structural I, 5 ply/5 layer, 48/24 index (each side of mate line)

Beam Height | **Basic wind speed in mph**

BH_k in	$w120_k$ ft	$w130_k$ ft	$w140_k$ ft	$w150_k$ ft	$w160_k$ ft	$w170_k$ ft	$w180_k$ ft	$w190_k$ ft	$w200_k$ ft
12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
16.0	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
18.0	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
20.0	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
24.0	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
28.0	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
30.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
32.0	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
36.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2

Beam Height | **Ground snow load in psf**

BH_k in	$s16_k$ ft	$s20_k$ ft	$s25_k$ ft	$s30_k$ ft	$s35_k$ ft	$s40_k$ ft	$s45_k$ ft	$s55_k$ ft
12.0	11.0	10.6	10.6	10.1	9.6	9.2	8.8	8.0
16.0	14.6	14.0	14.0	13.4	12.8	12.2	11.7	10.6
18.0	16.4	15.7	15.7	15.1	14.3	13.7	13.1	12.0
20.0	18.2	17.5	17.5	16.7	15.9	15.2	14.6	13.3
24.0	21.8	20.9	20.9	20.0	19.0	18.2	17.4	15.9
28.0	25.3	24.2	24.2	23.2	22.1	21.1	20.3	18.5
30.0	27.0	25.9	25.9	24.8	23.6	22.6	21.7	19.8
32.0	28.8	27.6	27.6	26.4	25.2	24.1	23.1	21.1
36.0	32.2	30.9	30.9	29.6	28.2	27.0	25.9	23.7

Notes:
1. Maximum span is the lessor of the maximum span from the wind speed chart and from the snow load chart for the specific beam height and applicable design loads. All spans in wind speed chart are capable of supporting a 20 psf roof live load or 16 psf ground snow load. All spans in snow load chart are capable of resisting a 115 mph wind load.
2. These charts are not valid for buildings with a least horizontal dimension greater than 150 feet.
3. Snow loads are based on risk category I or II buildings. For risk category III or IV buildings see page C1.3.
4. All beams must have full height lateral bracing at all support locations and at 24" o.c. or closer.
5. Beam spans are based on 12 psf dead load for snow loads of 45 psf or less, and 14 psf for snow loads greater than 45 psf. These dead load do not include the beam weight. These dead loads have been reduced by 2 psf for wind design.
6. Duration factor is 1.25 for live load and 1.15 for snow load.
7. Beams spans are based on 0 psf of attic live load.
8. Beams are designed to comply with code required deflection limits, however the building designer must specify adequate roof slope and camber to prevent roof ponding and other undesirable effects from deflection.
9. Required beam bearing length is designed by others.

Kenneth A. Godfrey, P.E.
Consulting Engineer
490 Rustic Barn Trail
Morganton, GA 30560

Plywood Ridge Beam Clear Spans
11'-8" Wide Modules

Specialized Structures, Inc.
2400 Springhead Church Rd.
Willacoochee, GA 31650
Date: 6/4/2019

3 layers 3/4" Plywood Rated Sheathing, Exposure 1, Structural I, 5 ply/5 layer, 48/24 index (each side of mate line)

Beam Height | **Basic wind speed in mph**

BH_k in	$w120_k$ ft	$w130_k$ ft	$w140_k$ ft	$w150_k$ ft	$w160_k$ ft	$w170_k$ ft	$w180_k$ ft	$w190_k$ ft	$w200_k$ ft
12.0	15.5	15.5	15.5	15.5	15.5	15.5	14.9	14.3	13.7
16.0	20.5	20.5	20.5	20.5	20.5	20.5	19.9	19.1	18.3
18.0	23.0	23.0	23.0	23.0	23.0	23.0	22.5	21.5	20.7
20.0	25.5	25.5	25.5	25.5	25.5	25.5	25.0	23.9	23.0
24.0	30.4	30.4	30.4	30.4	30.4	30.4	30.1	28.8	27.6
28.0	35.3	35.3	35.3	35.3	35.3	35.3	35.2	33.7	32.3
30.0	37.7	37.7	37.7	37.7	37.7	37.7	37.7	36.1	34.6
32.0	40.1	40.1	40.1	40.1	40.1	40.1	40.1	38.6	37.0
36.0	44.8	44.8	44.8	44.8	44.8	44.8	44.8	43.5	41.7

Beam Height | **Ground snow load in psf**

BH_k in	$s16_k$ ft	$s20_k$ ft	$s25_k$ ft	$s30_k$ ft	$s35_k$ ft	$s40_k$ ft	$s45_k$ ft	$s55_k$ ft
12.0	15.5	14.8	14.8	14.2	13.5	12.9	12.4	11.3
16.0	20.5	19.7	19.7	18.8	17.9	17.1	16.4	15.0
18.0	23.0	22.1	22.1	21.1	20.1	19.2	18.4	16.8
20.0	25.5	24.4	24.4	23.4	22.3	21.3	20.4	18.7
24.0	30.4	29.2	29.2	27.9	26.6	25.4	24.4	22.3
28.0	35.3	33.8	33.8	32.4	30.9	29.5	28.4	26.0
30.0	37.7	36.1	36.1	34.6	33.0	31.6	30.3	27.8
32.0	40.1	38.4	38.4	36.8	35.1	33.6	32.3	29.6
36.0	44.8	43.0	43.0	41.2	39.3	37.7	36.2	33.1

Notes:
1. Maximum span is the lessor of the maximum span from the wind speed chart and from the snow load chart for the specific beam height and applicable design loads. All spans in wind speed chart are capable of supporting a 20 psf roof live load or 16 psf ground snow load. All spans in snow load chart are capable of resisting a 115 mph wind load.
2. These charts are not valid for buildings with a least horizontal dimension greater than 150 feet.
3. Snow loads are based on risk category I or II buildings. For risk category III or IV buildings see page C1.3.
4. All beams must have full height lateral bracing at all support locations and at 24" o.c. or closer.
5. Beam spans are based on 12 psf dead load for snow loads of 45 psf or less, and 14 psf for snow loads greater than 45 psf. These dead load do not include the beam weight. These dead loads have been reduced by 2 psf for wind design.
6. Duration factor is 1.25 for live load and 1.15 for snow load.
7. Beams spans are based on o psf of attic live load.
8. Beams are designed to comply with code required deflection limits, however the building designer must specify adequate roof slope and camber to prevent roof ponding and other undesirable effects from deflection.
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11'-8" Wide Modules

Specialized Structures, Inc.
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Date: 6/4/2019

4 layers 3/4" Plywood Rated Sheathing, Exposure 1, Structural I, 5 ply/5 layer, 48/24 index (each side of mate line)

Beam Height — **Basic wind speed in mph**

BH_k in	$w120_k$ ft	$w130_k$ ft	$w140_k$ ft	$w150_k$ ft	$w160_k$ ft	$w170_k$ ft	$w180_k$ ft	$w190_k$ ft	$w200_k$ ft
12.0	17.8	17.8	17.8	17.8	17.8	17.3	16.5	15.8	15.1
16.0	23.7	23.7	23.7	23.7	23.7	23.1	22.0	21.1	20.2
18.0	26.6	26.6	26.6	26.6	26.6	26.1	24.8	23.8	22.8
20.0	29.5	29.5	29.5	29.5	29.5	29.0	27.6	26.4	25.4
24.0	35.3	35.3	35.3	35.3	35.3	35.0	33.3	31.8	30.5
28.0	41.1	41.1	41.1	41.1	41.1	41.0	39.0	37.2	35.7
30.0	44.0	44.0	44.0	44.0	44.0	44.0	41.8	40.0	38.3
32.0	46.8	46.8	46.8	46.8	46.8	46.8	44.7	42.7	40.9
36.0	52.6	52.6	52.6	52.6	52.6	52.6	50.5	48.2	46.2

Beam Height — **Ground snow load in psf**

BH_k in	$s16_k$ ft	$s20_k$ ft	$s25_k$ ft	$s30_k$ ft	$s35_k$ ft	$s40_k$ ft	$s45_k$ ft	$s55_k$ ft
12.0	17.8	17.8	17.8	17.3	16.5	15.7	15.1	13.8
16.0	23.7	23.7	23.7	22.9	21.8	20.8	20.0	18.3
18.0	26.6	26.6	26.6	25.7	24.4	23.4	22.4	20.5
20.0	29.5	29.5	29.5	28.4	27.1	25.9	24.9	22.7
24.0	35.3	35.3	35.3	33.8	32.3	30.9	29.7	27.1
28.0	41.1	40.9	40.9	39.2	37.4	35.8	34.4	31.5
30.0	44.0	43.6	43.6	41.9	39.9	38.3	36.8	33.7
32.0	46.8	46.3	46.3	44.5	42.5	40.7	39.1	35.9
36.0	52.6	51.7	51.7	49.7	47.5	45.5	43.8	40.2

Notes:
1. Maximum span is the lessor of the maximum span from the wind speed chart and from the snow load chart for the specific beam height and applicable design loads. All spans in wind speed chart are capable of supporting a 20 psf roof live load or 16 psf ground snow load. All spans in snow load chart are capable of resisting a 115 mph wind load.
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Jan 06, 2020

Kenneth A. Godfrey, P.E.
Consulting Engineer
490 Rustic Barn Trail
Morganton, GA 30560

Structural Calculations for
Specialized Structures, Inc.
2400 Springhead Church Rd.
Willacoochee , GA 31650

Date 12/11/2019

KAG# 052619SSI

2018 IBC Calculation Index

Note: These calculations do not include all aspects of the building's structural system and they must be reviewed and verified for applicability by the building designer prior to construction. Designer of these calculations is not the "Designer or Record" for any specific project. See certified model plans for "Designer of Record" information.

12-11-2019

Note: All wind design calculations assume a ground elevation factor of Ke = 1.

"Professional certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, license no. 19336; expiration date: 08-18-21."

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APPROVED RADCO APPROVED
Jan 06, 2020

Date 6/4/2019

KAG# 052619SSI

Overturning and Sliding Analysis

Reference: 2018 IBC &
ASCE 7-16 Chp. 27.

$plf := \frac{lb}{ft}$ $psi := \frac{lb}{in^2}$ $psf := \frac{lb}{ft^2}$ $k := 1 .. 10$

This analysis is applicable to the tie down of the exterior side wall I-beams of outrigger frame single wide buildings with module widths of 8'-0" to 13'-8" wide. This analysis is only applicable to buildings within the variables specified below. The building designer must verify that the floor system is adequately attached to the steel frame so as to transfer all horizontal and vertical wind loads for this analysis to be valid.

Variables:

Exposure Category: C

Zone: All zones

Mean Roof Height: 15 ft max.

Coefficients:*

Internal: $GCpi := 0.18$

Windward Wall: $WWCp := 0.8 \cdot 0.85$

Windward Roof: $WRCp := -1.3 \cdot 0.85$

Leeward Roof: $LRCp := -0.7 \cdot 0.85$

Leeward Wall: $LWCp := -0.5 \cdot 0.85$

Overhang: $OCp := 0.8 \cdot 0.85$

Wind Direction Factor: $Kd := 0.85$

Velocity Pressure Exp.: $Kz := 0.85$

Topographic Factor:** $Kzt := 1.0$

* Positive indicates towards surface
Negative indicates away from surface

**Building shall not be located on the upper half of a hill or escarpment exceeding 15 ft. in height.

Exterior Module Width: $BW := 13.67 \cdot ft$

Overhang Length (max.): $OL := 2 \cdot in$

Roof Dead Load (min.): $RD := 8 \cdot psf$

Floor Dead Load (min.): $FD := 8 \cdot psf$

Wall Dead Load (min.): $WD := 6 \cdot psf$

Wall Height (max.): $WH := 9 \cdot ft$

Truss Heel Height (max.): $TH := 20 \cdot in$

Floor height (max.): $FH := 8 \cdot in$

I-beam height (max.): $IH := 12 \cdot in$

Basic Wind Speed in mph:

$V_k :=$

200
190
180
170
160
150
140
130
120
115

Maximum Roof Pitch Angle at Exterior Sidewall (Deg): $RA := 20$

Module Centerline to Overturning Point: $A := 4 \cdot ft$

Turning Point to Tie Down Strapping: $B := 8 \cdot ft$

Tie Down Strapping Working Capacity: $FTD := 3150 \cdot lb$

Angle Between Tie Down Strap & Ground (Deg.): $TA := 45$

Overturning:

Wind Pressure: Conversion to ASD: $Vasd := V \cdot \sqrt{0.6}$ $q_k := 0.00256 \cdot Kd \cdot Kz \cdot Kzt \cdot \left[\left(Vasd_k \right)^2 \right] \cdot psf$

Windward Wall: $WW := WWCp$ Leeward Wall: $LW := LWCp$

Windward Roof: $WR := WRCp - GCpi$ Leeward Roof: $LR := LRCp - GCpi$

Windward Overhang: $WOH := WRCp - OCp$ Leeward Overhang: $LOH := LRCp - OCp$

$H := WH + TH + FH + IH$ $H = 12.33\,ft$

$RH := 0.5 \cdot BW \cdot \tan(RA \cdot deg)$ $HLw_k := (WW - LW) \cdot q_k \cdot H$ $HLr_k := (WR - LR) \cdot q_k \cdot RH$

$HLr1_k := if\left[\left(HLr_k < 0 \cdot plf \right), 0 \cdot plf, HLr_k \right]$

$OTh_k := HLw_k \cdot \left(H \cdot 0.5 \right) + HLr1_k \cdot \left(H + RH \cdot 0.5 \right)$

$OTv_k := -WR \cdot q_k \cdot \left(BW \cdot 0.5 \right) \cdot \left[A + \left(BW \cdot 0.25 \right) \right] + -LR \cdot q_k \cdot \left(BW \cdot 0.5 \right) \cdot \left[A - \left(BW \cdot 0.25 \right) \right]$

Kenneth A. Godfrey, P.E.
Consulting Engineer
490 Rustic Barn Trail
Morganton, GA 30560

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APPROVED RADCO APPROVED
Jan 06, 2020

Date 12/11/2019

KAG# 052619SSI

Longitudinal Tie Down Analysis for Roof Slopes of 1.05:12 or Less

This analysis will determine the quantity of longitudinal tie down anchors required for an individual on-frame module supported on two rows of I-Beam piers with the parameters as specified below.

Reference: 2018 IBC & ASCE 7-16 Chp. 27.

$plf := \frac{lb}{ft}$ $psi := \frac{lb}{in^2}$ $psf := \frac{lb}{ft^2}$ $k := 1 .. 10$

Variables:

Exposure category:	C	Maximum module width:	$MW := 188 \cdot in$
Mean roof height:	15 ft max.	Maximum sidewall overhang:	$SH := 2 \cdot in$
Coefficients:*		Maximum wall height:	$WH := 108 \cdot in$
Wall end zone:	$GCpe := 0.61 - (-0.43)$	Maximum floor height:	$FH := 8 \cdot in$
Wall interior zone:	$GCpi := 0.40 - (-0.29)$	Roof height at low end:	$HH := 20 \cdot in$
Bldg. least horz. dim.:	30 ft max.	Roof height at high end:	$RH := 24 \cdot in$
End zone length:	$a := 3 \cdot ft$	Anchor/strap working capacity:	$AC := 3150 \cdot lb$
Wind direction factor:	$Kd := 0.85$	Angle from ground to tie down strap (must be > 25 deg.):	$AG := 45 \cdot deg$
Velocity pressure exp.:	$Kz := 0.85$	Angle from steel beam length axis to tie down strap projected on to a horizontal plane:	$AB := 10 \cdot deg$
Topographic factor:**	$Kzt := 1.0$		

* Positive indicates towards surface
Negative indicates away from surface
**Building shall not be located on the upper half of a hill or escarpment exceeding 15 ft. in height.

Note: The ground anchor angle of installation from vertical shall be 20 deg. with bottom of anchor positioned in the windward direction.

Basic Wind speed in mph: $V_k :=$

200
190
180
170
160
150
140
130
120
115

Analysis:

Conversion to ASD: $Vasd := V \cdot \sqrt{0.6}$

Wind pressure: $q_k := 0.00256 \cdot Kd \cdot Kz \cdot Kzt \cdot \left[\left(Vasd_k \right)^2 \right] \cdot psf$

End zone length: $EZ := if\left[(2 \cdot a < MW), 2 \cdot a, MW \right]$

Interior zone length: $IZ := if\left[(EZ < MW), MW - EZ, 0 \cdot ft \right]$

D25.0

PLUMBING NOTES:

1. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER IPC SECTION 403 ARE NOT PROVIDED WITHIN THE BUILDING, A HANDICAPPED ACCESSIBLE FACILITY MUST BE PROVIDED ON SITE WITHIN THE ALLOWABLE DISTANCE PER CODE. THE REQUIRED FACILITY SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER AND IS SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY. THIS NOTE SHALL BE INDICATED ON THE DATA PLATE

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 14 INCHES x 14 INCHES ADJUSTABLE WITH 8 INCHES x 18 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS SHALL BE INSULATED PER THE REQUIREMENTS OF THE APPLICABLE ENERGY CODES.
2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN (FOR UNRATED DOORS)
3. HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 10 CFM PER PERSON & 0.12 CFM PER S.F. BLDG. AREA PER SECTION 403.3 OF THE IMC.
4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
5. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER CLOSET AND URINAL.
6. THERMOSTATS MUST BE PROGRAMMABLE

ATTENTION LOCAL INSPECTIONS DEPARTMENT

SITE INSTALLED ITEMS

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY RADCO AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL. NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS
7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINE(S) - (MULTI-UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
9. FIRE INSPECTION

MARYLAND NOTES:

1. REFER TO STATE PACKAGE PAGE NO. C34.0 FOR REQUIRED DUCT PROTECTION AT CONNECTION TO HVAC UNIT.
2. THE FOLLOWING NOTE SHALL BE ON THE BLDG. DATA PLATE: THIS BUILDING HAS NOT BEEN DESIGNED FOR AND IS NOT APPROVED FOR INSTALLATION IN THE FOLLOWING MARYLAND COUNTIES: ALLEGANY
3. HVAC SYSTEM SHALL COMPLY WITH NFPA 90B WHEN BUILDING VOLUME DOES NOT EXCEED 25,000 CUBIC FEET, OTHERWISE HVAC SYSTEM SHALL COMPLY WITH NFPA 90A.
4. THESE PLANS ARE PREPARED TO FACILITATE CONSTRUCTION OF THE PRE-ENGINEERED FACTORY BUILT MODULAR BUILDING, AND THEY INCLUDE MINIMUM ON-SITE SUPPORT AND TIE DOWN REQUIREMENTS FOR THE MODULAR BUILDING. THE PROJECT ARCHITECT OF RECORD IS RESPONSIBLE FOR INCORPORATION AND COORDINATION OF THESE PLANS INTO THE OVERALL PROJECT DESIGN.
5. TO LOCAL BUILDER AND/OR SITE DEVELOPER: ALL SITE WORK INCLUDING THE LOCATION OF THE BUILDING, IS REQUIRED TO BE REVIEWED AND APPROVED BY A MD. REG. ARCH. OR ENG. TO VERIFY CODE COMPLIANCE INCLUDING BUT NOT LIMITED TO FIRE RESISTANCE RATINGS FOR EXTERIOR PROTECTION, MEANS OF EGRESS, HEIGHT AND AREA LIMITATIONS, OTHER PERTINENT SITE RELATED MATTERS. DOCUMENTS RELATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERMENT AGENCY FOR REVIEW AND APPROVAL.
6. INSTALL STATE INSIGNIA AND BUILDING DATA PLATE IN THE VICINITY OF ELECTRICAL DISTRIBUTION PANEL OR OTHER LOCATION THAT IS READILY ACCESSIBLE FOR INSPECTION, BUT NOT ON ANY READILY REMOVABLE FEATURE.
7. WHEN THE 2018 IECC IS THE APPLICABLE ENERGY CODE. SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THRU 4 AND A MINIMUM OF R-12 INSUL. IN CLIMATE ZONE 5. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THRU 4 AND A MINIMUM OF R-12 INSULATION IN CLIMATE ZONE 5.

N.C. INSTALLATION INSTRUCTIONS

ATTENTION LOCAL INSPECTIONS DEPARTMENT

INSTALLATION INSTRUCTIONS FOR THIS MODULAR BUILDING ARE INCLUDED BY ATTACHMENT TO THESE PLANS. ANY PLANS SET WHICH DOES NOT CONTAIN AN ATTACHMENT ENTITLED "INSTALLATION INSTRUCTIONS" IS INCOMPLETE. REFER TO THE FOLLOWING SECTIONS OF THE PLAN SET AND INSTALLATION FOR IMPORTANT INFORMATION CONCERNING THE INSTALLATION OF THE MODULAR BUILDING.

1. THE INTERCONNECTION BETWEEN BUILDING MODULES AT THE FLOOR AND ROOF SHALL BE SPECIFIED ON THE CROSS SECTION DRAWING ON THE PLAN SET.
2. BUILDING TIE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON FOUNDATION PLAN.
3. ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.2, E2.0, E2.1, E2.2, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
4. MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.0, E2.4, E2.5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
5. PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.1, E1.2, E2.3, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
6. FIRE BLOCKING SHALL BE PROVIDED PER SECTION 717.2 AND 1406.2.3 OF THE N.C. BUILDING CODE (AS APPLICABLE).
7. AIR INFILTRATION AT MODULE MATE LINES SHALL BE LIMITED BY INSTALLING SILL TAPE ALONG THE MATE LINES DURING SET UP AND/OR BY INSTALLING CONTINUOUS SHEATHING ACROSS THE MATE LINE JOINTS AFTER SET UP.

GENERAL NOTES:

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
4. SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTION REQUIRMENTS.
5. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
6. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
7. WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6" OF OVERHANG, GUTTERS AND DOWN SPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
8. IN WIND-BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIRMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC AND NCBC.
9. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
10. STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED ACCORDING TO THE MANUFACTURERS STATE APPROVED BUILDING SYSTEM MANUAL.
11. A FIRE ALARM MUST BE SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
12. THIS BUILDING IS DESIGNED FOR NORTH CAROLINA CLIMATE ZONE 4a

ELECTRICAL NOTES:

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410-8(a).
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110-9 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
7. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
8. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED. THE RECEPT ITSELF SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS PER NEC AND NCEC.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
10. THE BUILDINGS FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION SYSTEMS, ETC.) SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 101 AND NFPA 72 AND SITE INSTALLED BY OTHERS SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL. THE FIRE ALARM CONTROL PANEL MUST BE INSTALLED IN A HIGHLY VISIBLE LOCATION ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. (THE FACP CANNOT BE INSTALLED IN A CLOSET OR BATHROOM).
11. ALL 15 AND 20 AMPERE, 125 AND 250 VOLT NONLOCKING-TYPE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.

ACCESSIBILITY NOTES:

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.
3. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (I.E. TOUCH LATCHES, U-SHAPED PULLS); SPACES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH; CLOTHES RODS OR COAT HOOKS SHALL BE A MAXIMUM OF 48 INCHES ABOVE THE FLOOR (46 INCHES MAXIMUM WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES). SHELVES IN KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION; HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING,WHICHEVER IS LOWER.
6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR HINGED DOORS.
7. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER - OPERRATED, PUSHTYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.

WINDOW & DOOR SPECIFICATIONS

1. DBL. PANE WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE COMCHECK ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U-FACTOR AND SHGC.
2. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.3 CFM PER SQUARE FEET OF WINDOW AREA.
3. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.3 CFM PER SQUARE FEET OF DOOR AREA.

MARYLAND, N.J. STRUCTURAL LOAD LIMITATIONS:

FLOOR DEAD AND LIVE LOAD:
A. DEAD LOAD = 12 PSF (AVERAGE).
B. UNIFORM LIVE LOAD = 40 PSF
C. CONCENTRATED LIVE LOAD = 1000 LB. OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR. NOTE: UNIFORM AND CONCENTRATED LIVE LOADS ARE NOT SIMULTANEOUSLY APPLIED.

ROOF DEAD AND LIVE LOAD:
A. DEAD LOAD = 13 PSF (AVERAGE).
B. LIVE LOAD = 20 PSF.

ROOF SNOW LOAD:
A. GROUND SNOW LOAD: Pg = 50 PSF
B. FLAT-ROOF SNOW LOAD: Pf = 40.8 PSF
C. SNOW EXPOSURE FACTOR: Ce = 1.0
D. SNOW IMPORTANCE FACTOR: Is = 1.0
E. SNOW THERMAL FACTOR: Ct = 1.1
F. ROOF SLOPE FACTOR: Cs = 1.0
G. SLOPED ROOF SNOW LOAD: Ps = Pf X Ce
H. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-16.

WIND LOAD:
A. BASIC WIND SPEED (3-SEC GUST): V = 130 MPH
B. ASD WIND SPEED (3-SEC GUST): Vasd = 101 MPH
C. RISK CATEGORY: II
D. WIND EXPOSURE CATEGORY: C
E. INTERNAL PRESSURE COEFFICIENT: GCpi = 0.18
F. COMPONENT & CLADDING BASIC DESIGN PRESSURES (ASD DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES:
WALL ZONE 5: P = +/-49.2 PSF (Pasd = +/-29.5 PSF)
WALL ZONE 4: P = +/-39.9 PSF (Pasd = +/-24.0 PSF)
ROOF ZONE 3: P = -105.4 PSF (Pasd = -63.2 PSF)
ROOF ZONE 2: P = -77.3 PSF (Pasd = -46.4 PSF)
ROOF ZONE 1: P = -56.8 PSF (Pasd = -35.1 PSF)
ROOF ZONE 1': P = -33.6 PSF (Pasd = -20.2 PSF)

G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
H. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.
I. BUILDING MEAN ROOF HEIGHT SHALL NOT EXCEED 15 FEET.

SEISMIC LOAD:
A. RISK CATEGORY IS II.
B. SEISMIC IMPORTANCE FACTOR IS 1.0
C. SEISMIC SITE CLASS IS D.
D. SPECTRAL RESPONSE COEFFICIENTS:
Ss = 0.537 S1 = 0.285
Sds = 0.48 Sd1 = 0.19
E. SEISMIC DESIGN CATEGORY IS C.
F. SEISMIC FORCE RESISTING SYSTEM IS A13.
G. SIMPLIFIED SEISMIC ANALYSIS PROCEDURE HAS BEEN USED.
H. RESPONSE MODIFICATION FACTOR R = 6.5.
I. SEISMIC RESPONSE COEFFICIENT Cs = 0.08.
J. DESIGN BASE SHEAR V = 1612# FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

ROOF RAIN LOAD:
A. RAIN INTENSITY: I = 4.0 INCHES/HOUR

OTHER STATES STRUCTURAL LOAD LIMITATIONS:

FLOOR LIVE LOAD:
A. 40 PSF ELSEWHERE.
B. 1000# CONCENTRATED LOAD OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR.

ROOF LIVE LOAD:
A. 30 PSF.

ROOF SNOW LOAD:
A. GROUND SNOW LOAD: Pg = 30 PSF
B. FLAT-ROOF SNOW LOAD: Pf = 23.1 PSF
C. SNOW EXPOSURE FACTOR: Ce = 1.0
D. SNOW IMPORTANCE FACTOR: Is = 1.0
E. SNOW THERMAL FACTOR: Ct = 1.1
F. ROOF SLOPE FACTOR: Cs = 1.0
G. SLOPED ROOF SNOW LOAD: Ps = Pf X Cs
H. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-10.

WIND LOAD:
A. ULTIMATE WIND SPEED (3-SEC GUST): Vult = 130 MPH
B. NOMINAL WIND SPEED (3-SEC GUST): Vasd = 100 MPH
C. RISK CATEGORY II
D. WIND EXPOSURE CATEGORY: EXP. = C
E. INTERNAL PRESSURE COEFFICIENT: GCpi = 0.18
F. COMPONENT & CLADDING ULTIMATE DESIGN PRESSURES (NOMINAL DESIGN PRESSURE) FOR ROOF ANGLES >7 TO 27 DEGREES:
WALL ZONE 5: Pult = +/-22.1 PSF (Pasd = +/-29.5 PSF)
WALL ZONE 4: Pult = +/-24.0 PSF (Pasd = +/-24.0 PSF)
ROOF ZONE 3: Pult = - 55.8 PSF (Pasd = -52.0 PSF)
ROOF ZONE 2: Pult = - 37.0 PSF (Pasd = -35.1 PSF)
ROOF ZONE 1: Pult = - 22.1 PSF (Pasd = -20.2 PSF)

G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
H. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.
I. BUILDING MEAN ROOF HEIGHT SHALL NOT EXCEED 15 FEET.

SEISMIC LOAD:
A. RISK CATEGORY IS II.
B. SEISMIC IMPORTANCE FACTOR IS 1.0
C. SEISMIC SITE CLASS IS D.
D. SPECTRAL RESPONSE COEFFICIENTS:
Ss = 0.537 S1 = 0.285
Sds = 0.48 Sd1 = 0.19
E. SEISMIC DESIGN CATEGORY IS C.
F. SEISMIC FORCE RESISTING SYSTEM IS A15.
G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
H. RESPONSE MODIFICATION FACTOR R = 6.5.
I. SEISMIC RESPONSE COEFFICIENT Cs = 0.08
J. DESIGN BASE SHEAR V = 1612 LBS

FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

ROOF RAIN LOAD (IPC APPENDIX B):
A. RAIN INTENSITY: I = 4.3 INCHES/HOUR

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILTY	ENERGY CODE
NEW JERSEY	2018 IBC W/ N.J. AMENDS	2017 NEC W/N.J. AMENDS	2018 IMC N.J. AMENDS	2018 NATL. STD PC (NSPC) W/ N.J. AMENDS	ANSI A117.1-2009 CHPT. 11 OF 2018 IBC & NJAC 5:23-7	2018 ASHRAE 90.1 W/N.J. AMENDS 2018 IECC
N. CAROLINA	NCBC 2018 2018 NCFC	2017 N.C. ELECT. CODE	2018 NCMC	2018 NCPC	NCBC 2018 CHPT. 11 AND ICC/ANSI A117.1-2009	2015 NC ENERGY CODE 2015 IECC
MARYLAND	2018 IBC W/ MD. AMENDMENTS; FIRE CODE: 2018 NFPA 1 AND NFPA 101 WITH MD. AMENDMENTS	2017 NEC W/MD. AMEND.	2018 IMC. W/ MD. AMEND.	2018 IPC W/ MD. AMEND.	2010 ADA 2012 MARYLAND ACCESS. CODE	2018 IECC W/MD. AMEND.
VIRGINIA	2015 VA. UNIFORM STATEWIDE BLDG. CD. 2015 IBC 2015 VA. STATEWIDE FIRE PREVENTION CODE 2015 IFC W/VA. AMENDS	2014 NEC	2015 IMC.	2015 IPC	ICC/ANSI A117.1-2009	2015 IECC

BUILDING DESIGN PARAMETERS

1.	USE/OCCUPANCY:	EDUCATION ELEMENTARY
2.	CONSTRUCTION TYPE:	VB
3.	SPRINKLER SYSTEM:	NO
4.	BUILDING AREA:	794 S.F.
5.	BUILDING HEIGHT:	15 FEET
6.	NUMBER OF STORIES:	1
7.	NUMBER OF MODULES:	2
8.	OCCUPANT LOAD 36 BASED ON 20 NET SF/PERSON	C
9.	EXTERIOR WALL FIRE RATING:	NOT RATED
10.	THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC & NCBC TABLE 602 AND SECTION 705.3	
11.	ENGERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS.	
12.	MANUFACTURERS DATA PLATE, STATE LABELS AND RADCO LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.	

APPROVED RADCO APPROVED
18-Jun-21
James Slaght, MCP

MARYLAND SERIAL NO.: STOCK

CONSULTING ARCHITECT
ROBERT E. GREGG R.A. LIC. #15414
18167 US 19 NORTH, SUITE 105
CLEARWATER, FL. 33764 (727) 544-8199

STATE OF NEW JERSEY ROBERT E. GREGG REGISTERED ARCHITECT 15414

VALID — STATE OF MARYLAND WALTER E. WOOD 30946 PROFESSIONAL ENGINEER — 06-18-2021

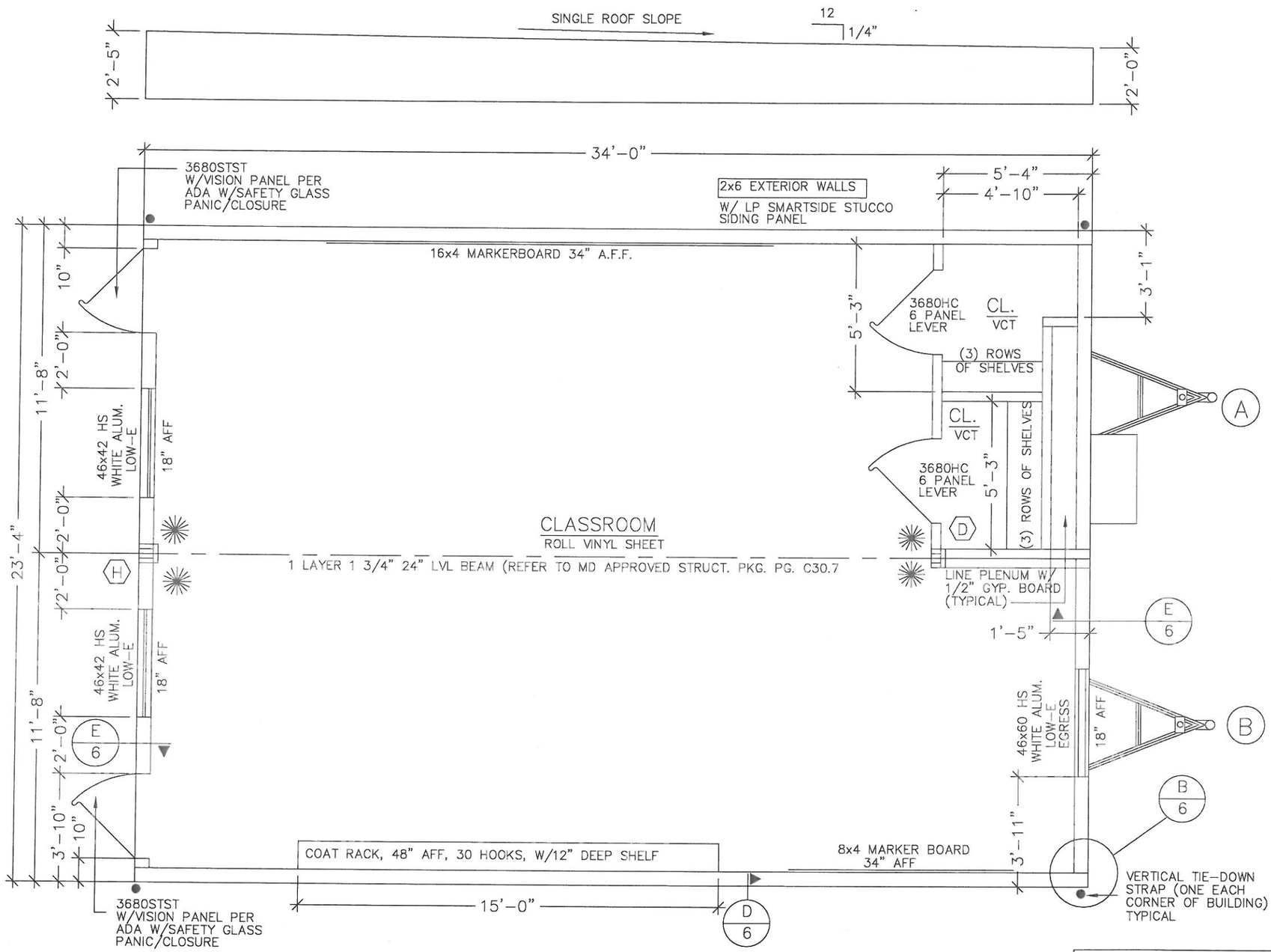
VALID — NORTH CAROLINA PROFESSIONAL SEAL 044853 ENGINEER WALTER E. WOOD — 06-18-2021

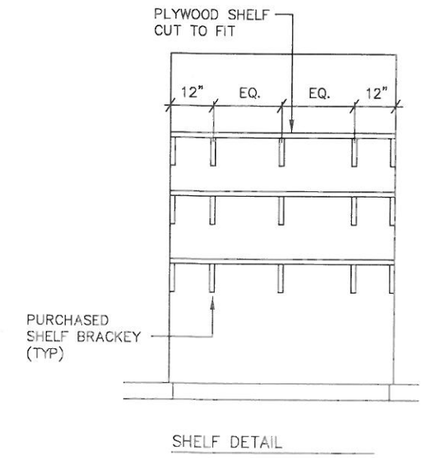
VALID — COMMONWEALTH OF VIRGINIA WALTER E. WOOD Lic. No. 57881 PROFESSIONAL ENGINEER — 06-18-2021

CONSULTING ENGINEER: WALTER E. WOOD, P.E. - 168 W. LONGLEAF DR. - SYLVESTER, GA. 31791

SPECIALIZED STRUCTURES INC.
2400 SPRINGHEAD CHURCH ROAD WILLACOOCHEE, GA 31650
1-912-384-7565 FAX: 1-912-384-4943

DATE: 5-25-21	THIRD PARTY: RADCO 5801 BENJAMIN CENTER, SUITE 102 TAMPA, FLORIDA 33634 813-243-0370	
SCALE : NO SCALE		
CODES: SEE NOTES		
STATES: MD, VA, NJ, NC.	REVISIONS:	BY: W.E.W.
REFERENCE: 5637		
SSI6005-21 A/B 23'-4" x 34'-0" ED.-STOCK		SHEET 1 OF 7
COVER SHEET	MD. PLAN NO: SSI-6005 MD	





SHELF DETAIL

APPROVED **RADCO** APPROVED
18-Jun-21
James Slaght, MCP

COLUMN STRAPPING SCHEDULE:

A	(2) 2x4 SPF #2 THIS HALF.	B	(2) 2x4 SPF #2 EACH HALF
C	(3) 2x4 SPF #2 THIS HALF.	D	(3) 2x4 SPF #2 EACH HALF.
E	(4) 2x4 SPF #2 THIS HALF.	F	(4) 2x4 SPF #2 EACH HALF.
G	(3) 2x6 SPF #2 THIS HALF.	H	(3) 2x6 SPF #2 EACH HALF.

✹ WITH RIDGE BEAM BEARING STIFFENER

NOTES:
1. ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER. PVA GLUE WITH 100% COVERAGE SHALL BE USED.
2. INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
3. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

CONSULTING ARCHITECT
ROBERT E. GREGG R.A. LIC.#15414
18167 US 19 NORTH–SUITE 120
CLEARWATER, FL. 33764 (727) 644-8377

STATE OF NEW JERSEY · ROBERT E. GREGG · R.A. 15414 · REGISTERED ARCHITECT

VALID 06-18-2021 — STATE OF MARYLAND · WALTER E. WOOD · 30946 · PROFESSIONAL ENGINEER

VALID 06-18-2021 — NORTH CAROLINA · PROFESSIONAL SEAL 044853 · ENGINEER · WALTER E. WOOD

VALID 06-18-2021 — COMMONWEALTH OF VIRGINIA · WALTER E. WOOD · Lic. No. 57881 · PROFESSIONAL ENGINEER

CONSULTING ENGINEER: WALTER E. WOOD, P.E. – 168 W. LONGLEAF DR. – SYLVESTER, GA. 31791

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DATE: 5-25-21	THIRD PARTY: RADCO 5801 BENJAMIN CENTER, SUITE 102 TAMPA, FLORIDA 33634 813-243-0370	
SCALE : 1/4"=1'-0"		
CODES: SEE NOTES		
STATES: MD, VA, NJ, NC.	REVISIONS:	BY: W.E.W.
REFERENCE: 5637		
SSI6005-21 A/B 23'-4" x 34'-0" ED.-STOCK		SHEET 2 OF 7
FLOOR PLAN	MD. PLAN NO: SSI-6005 MD	

SYMBOLS

J–BOXES ONLY

- P / H / S — FIRE ALARM PULL STATION / FIRE ALARM HORN/STROBE / FIRE ALARM STROBE LIGHT
- J — JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- S — SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- BLACK LED PORCH LIGHT WITH 1– 11 W. BULB
- COMPACT FLOURESENT LIGHT 1–60 W. BULB
- HIGH PRESSURE SODIUM LIGHT
- METAL HAUDE WALL PACK
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT 2–150W BULBS
- T — THERMOSTAT
- LED LIGHT FIXTURE WITH 30W. PANEL
- EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/DBL. REMOTE HEAD W/BATTERY BACKUP
- EXIT — EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT SIGN W/BATTERY BACKUP
- EMERGENCY LIGHT WITH BATTERY BACKUP
- TELEPHONE
- $ $3 — SWITCH & 3 WAY SWITCH
- OS3 $ — OCCUPANCY SENSOR WITH 3–WAY SWITCH COOPER CONTROLS: MODEL NO.: VAC–DT–1000–R
- F.E. — FIRE EXTINGUISHER

NOTE:
NM CABLE SHALL NOT BE USED WHERE INTERIOR FINISH HAS LESS THAN A 15 MIN. FIRE RATING TYPE AC OR OTHER APPROVED WIRING METHODS SHALL BE USED WHEN USING LESS THAN 1/2" GYP. WALL SHEATHING.

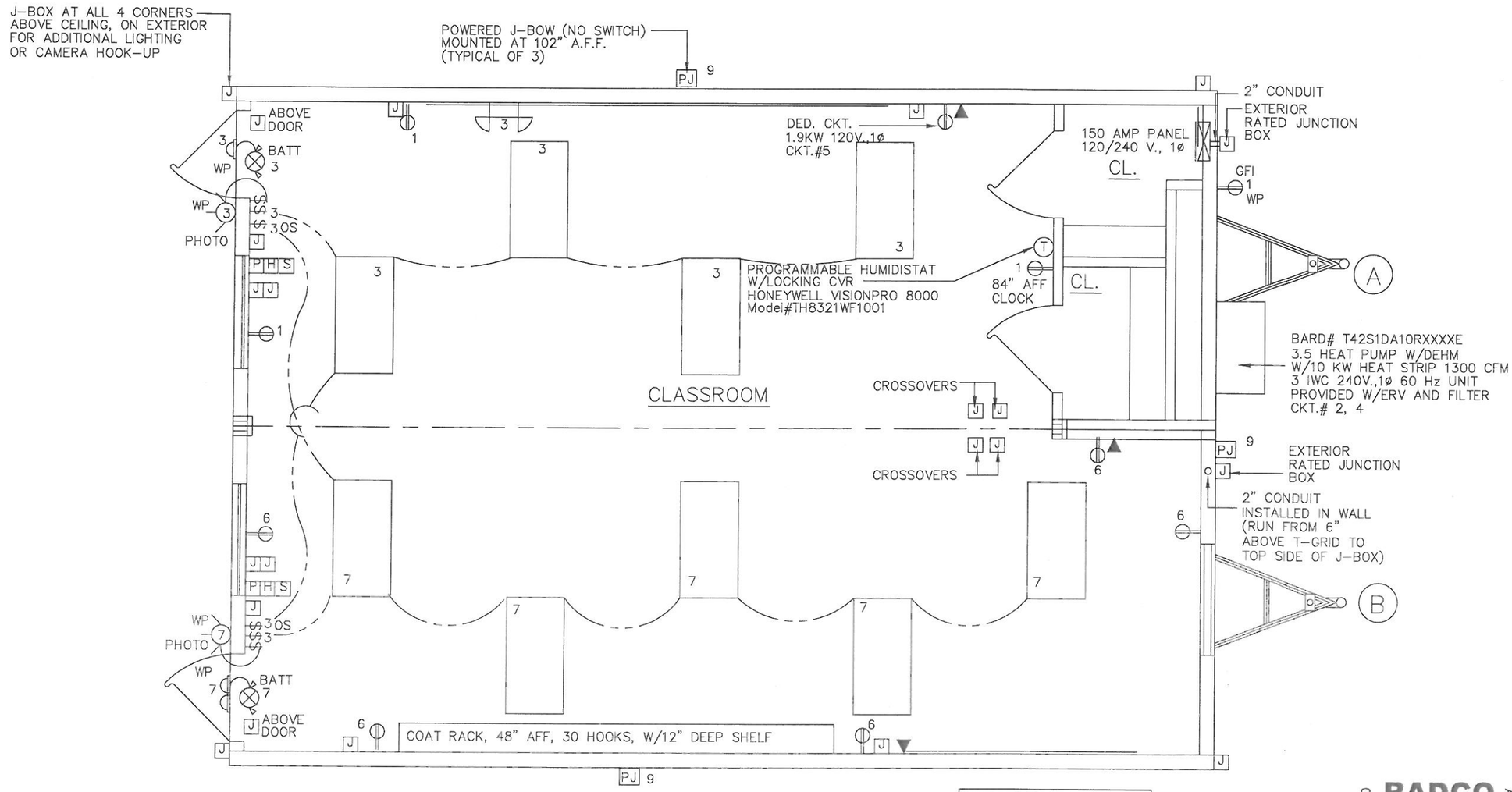
ELECTRICAL SCHEDULE

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
2, 4	HVAC	90 A (2P) HACR	4–2 #8 GRND.
5	DED. CKT. 1.9KW 120V.,1ø	20A(1P)	12–2 MC
9	POWERED J–BOX	20 A	12–2 MC
1, 6	RECEPTACLES	20 A	12–2 MC
3, 7	LIGHTING	20 A	12–2 MC

ELECTRICAL PANEL SIZING:

DESCRIPTION	KVA
GENERAL LIGHTING	
.0030 KW/SF X 793 SF X 1.25=	3.0
9 RECEPTS AT 180VA/1000=	1.6
DED. CKT. 1.9KW x 1.25=	2.4
3 PWD J–B .5 KW X 1.25=	1.9
HVAC	21.6

TOTAL 30.5 KW
TOTAL/240 X 1000= 128 AMPS
INSTALL 150 AMP PANEL
120/240 V 1ø



APPROVED **RADCO** APPROVED
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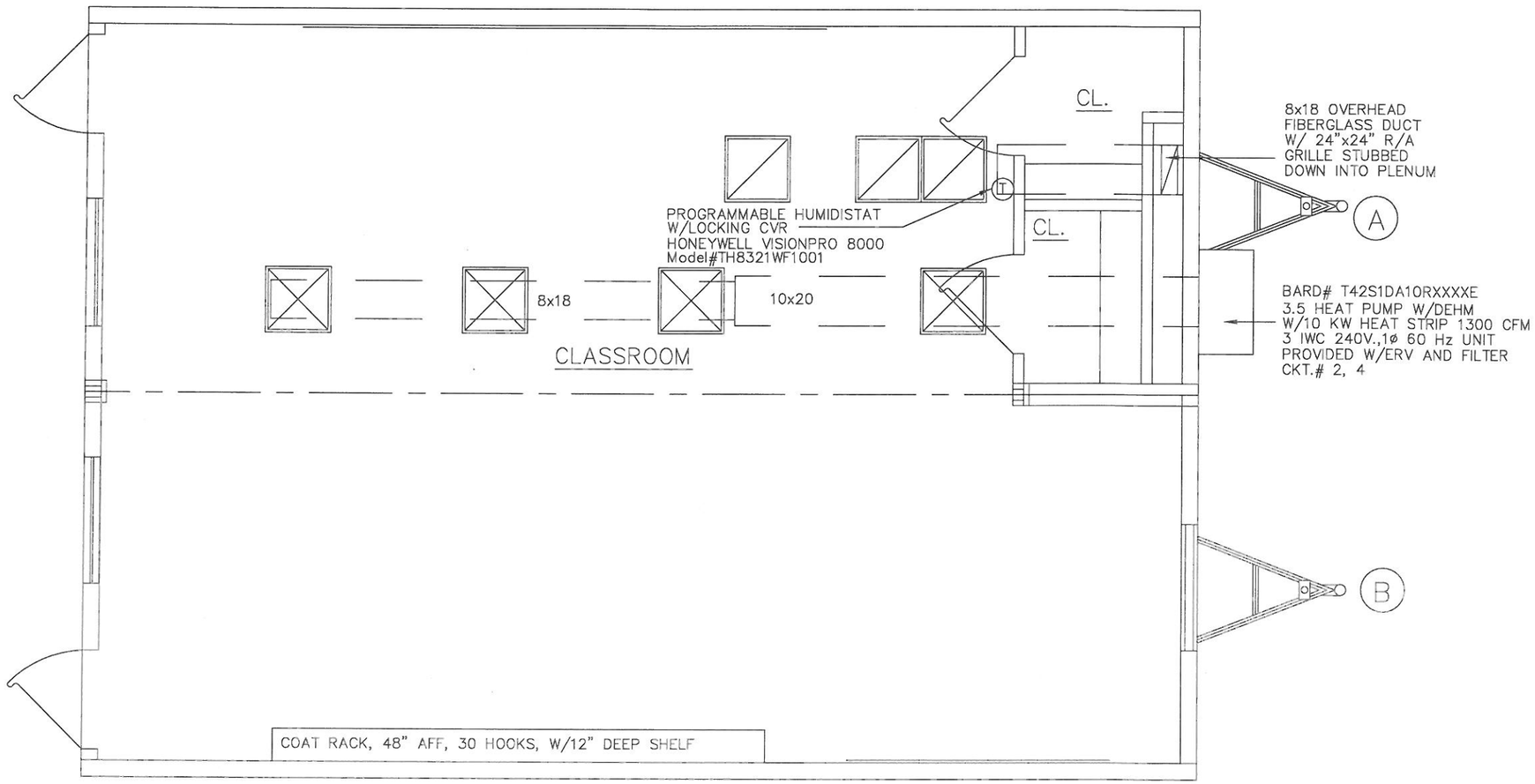
CODES: SEE NOTES	
STATES: MD, VA, NJ, NC.	REVISIONS:
REFERENCE: 5637	BY: W.E.W.
SSI6005–21 A/B 23'–4" x 34'–0" ED.–STOCK	SHEET 3 OF 7
ELECTRICAL PLAN	MD. PLAN NO: SSI–6005 MD



LEGEND

- 24"x24" RETURN AIR GRILLE WITH
- 24"x24" SUPPLY AIR GRILLE WITH (4-WAY THROW)
- (T) THERMOSTAT W/ LOCKING COVER

NOTES:
ACOUSTICAL CEILING TILE:
DONN X DX TILES BY ARMSTRONG 2910
(INSTALLED PER MANUFACTURES SPEC'S)

APPROVED **RADCO** APPROVED
18-Jun-21
James Slaght, MCP

CONSULTING ENGINEER: WALTER E. WOOD, P.E. – 168 W. LONGLEAF DR. – SYLVESTER, GA. 31791

CONSULTING ARCHITECT
ROBERT E. GREGG R.A. LIC.#15414
18167 US 19 NORTH, SUITE 120
CLEARWATER, FL. 33764 (727) 447-8199

STATE OF NEW JERSEY · ROBERT E. GREGG · 15414 · REGISTERED ARCHITECT

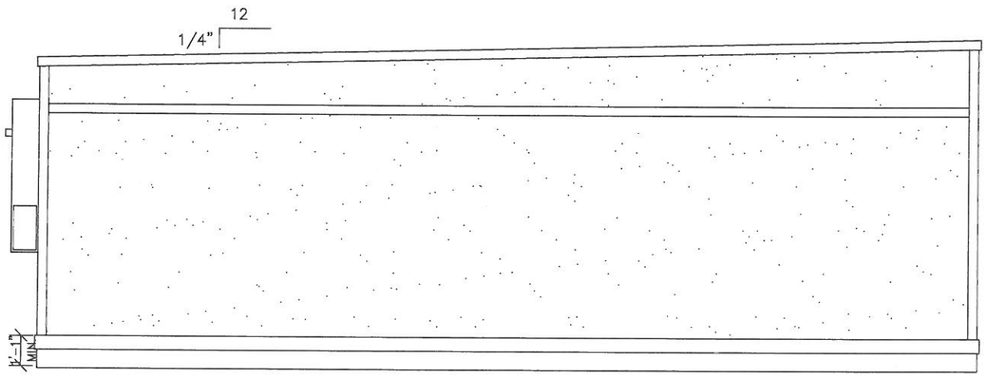
VALID — STATE OF MARYLAND · WALTER E. WOOD · 30946 · PROFESSIONAL ENGINEER — 06-24-2021

VALID — NORTH CAROLINA PROFESSIONAL SEAL 044853 ENGINEER WALTER E. WOOD — 06-24-2021

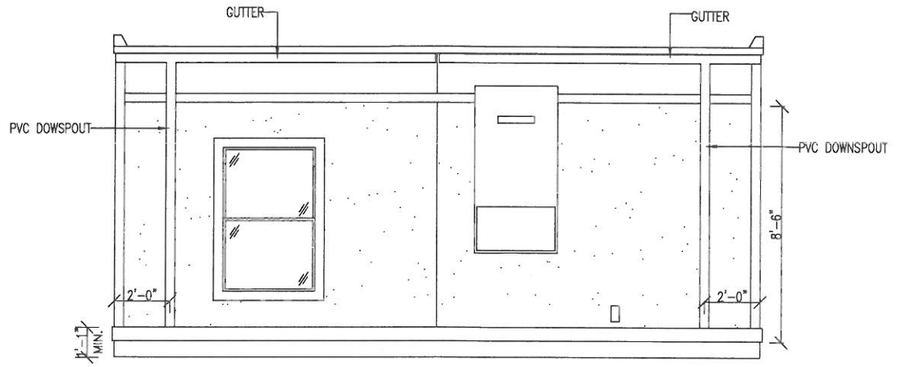
VALID — COMMONWEALTH OF VIRGINIA · WALTER E. WOOD Lic. No. 57881 · PROFESSIONAL ENGINEER — 06-24-2021

SPECIALIZED STRUCTURES INC.
2400 SPRINGHEAD CHURCH ROAD, WILLACOOCHEE, GA 31650
1-912-384-7565 FAX: 1-912-384-4943

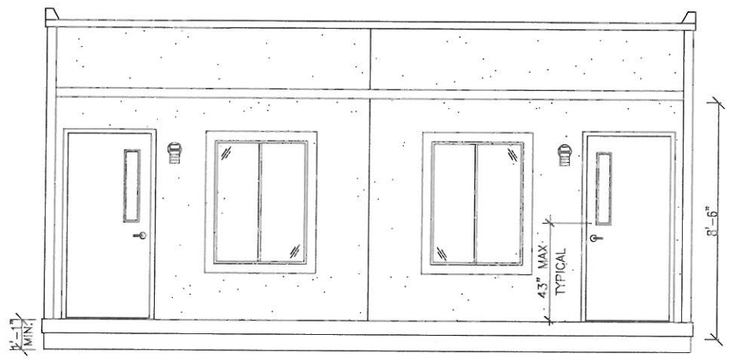
DATE: 5-25-21	THIRD PARTY: RADCO, 5801 BENJAMIN CENTER, SUITE 102, TAMPA, FLORIDA 33634, 813-243-0370
SCALE : 1/4"=1'-0"	
CODES: SEE NOTES	
STATES: MD, VA, NJ, NC.	REVISIONS: / BY: W.E.W.
REFERENCE: 5637	
SSI6005-21 A/B 23'-4" x 34'-0" ED.-STOCK	SHEET 4 OF 7
MECH PLAN	MD. PLAN NO: SSI-6005 MD



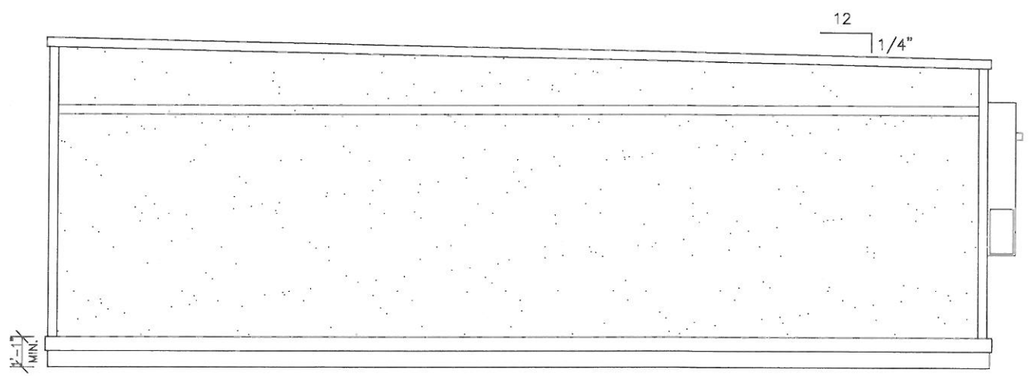
LEFT



REAR



FRONT



RIGHT

ELEVATIONS 1/4"=1'-0"

APPROVED **RADCO** APPROVED
18-Jun-21
James Slaght, MCP

ELEVATION NOTES (TYP.)

SEE CROSS SECTION FOR METHOD OF ROOF VENTILATION

1.) HANDICAP RAMP(S), STAIR(S), AND HANDRAILS ARE TO BE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION AND APPROVAL.

2.) FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150th OF THE FLOOR AREA, AND AN 18" x 24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION AND APPROVAL

CONSULTING ARCHITECT
ROBERT E. GREGG R.A. LIC.#15414
18167 US 19 NORTH, SUITE 120
CLEARWATER, FL. 33764 (727) 644-8193

STATE OF NEW JERSEY · ROBERT E. GREGG · 15414 · REGISTERED ARCHITECT

VALID — STATE OF MARYLAND · WALTER E. WOOD · 50646 · PROFESSIONAL ENGINEER — 06-18-2021

VALID — NORTH CAROLINA PROFESSIONAL SEAL 044853 ENGINEER WALTER E. WOOD — 06-18-2021

VALID — COMMONWEALTH OF VIRGINIA · WALTER E. WOOD Lic. No. 57881 · PROFESSIONAL ENGINEER — 06-18-2021

CONSULTING ENGINEER: WALTER E. WOOD, P.E. – 168 W. LONGLEAF DR. – SYLVESTER, GA. 31791

SPECIALIZED STRUCTURES INC.
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1-912-384-7565 FAX: 1-912-384-4943

DATE: 5-25-21	THIRD PARTY: RADCO 5801 BENJAMIN CENTER, SUITE 102 TAMPA, FLORIDA 33634 813-243-0370	
SCALE : 1/4"=1'-0"		
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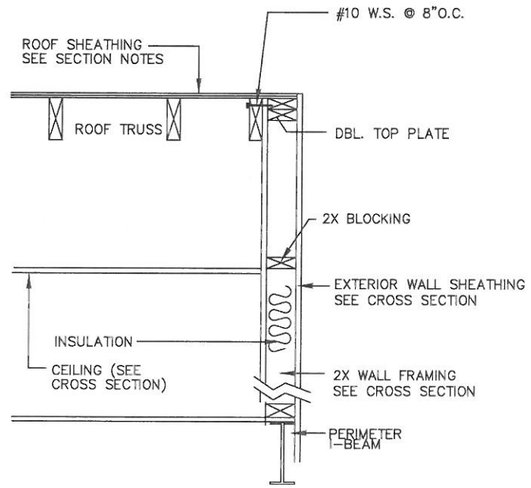
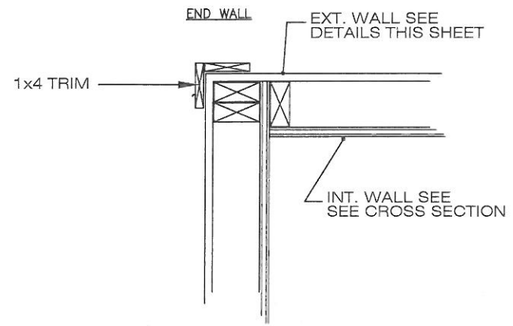
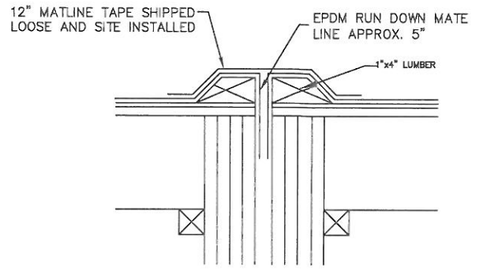
REFERENCE: 5637		
SSI6005-21 A/B 23'-4" x 34'-0" ED.-STOCK		SHEET 5 OF 7
ELEVATIONS	MD. PLAN NO: SSI-6005 MD	



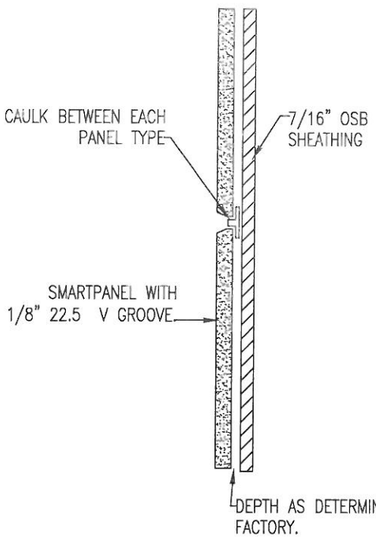
A SECTION EXTERIOR WALL (PERIMETER)
N.T.S.



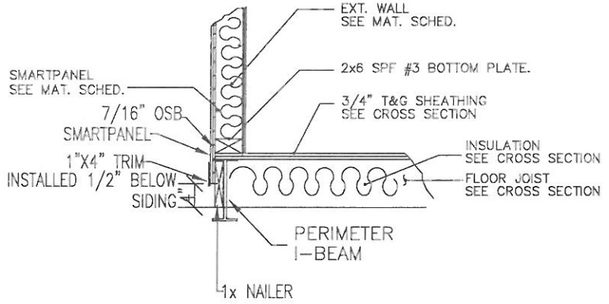
B SECTION CORNER ROOF
N.T.S.



C SECTION ROOF MATELINE
N.T.S.



D WALL FINISH SECTION
EXTERIOR WALL
N.T.S.



E SECTION CORNER FLOOR
N.T.S.

APPROVED RADCO APPROVED
18-Jun-21
James Slaght, MCP

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CONSULTING ARCHITECT
ROBERT E. GREGG R.A. LIC.#15414
18167 US 19 NORTH-SUITE 120
CLEARWATER, FL. 33764 (727) 641-8103

STATE OF NEW JERSEY ROBERT E. GREGG 15414 REGISTERED ARCHITECT

VALID STATE OF MARYLAND WALTER E. WOOD 50946 PROFESSIONAL ENGINEER
06-18-2021

VALID NORTH CAROLINA PROFESSIONAL SEAL 044853 ENGINEER WALTER E. WOOD
06-18-2021

VALID COMMONWEALTH OF VIRGINIA WALTER E. WOOD Lic. No. 57881 PROFESSIONAL ENGINEER
06-18-2021

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1-912-384-7565 FAX: 1-912-384-4943

DATE: 5-25-21	THIRD PARTY: RADCO 5801 BENJAMIN CENTER, SUITE 102 TAMPA, FLORIDA 33634 813-243-0370	
SCALE : NO SCALE		
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STATES: MD, VA, NJ, NC.	REVISIONS:	BY: W.E.W.
REFERENCE: 5637		
SSI6005-21 A/B 23'-4" x 34'-0" ED.-STOCK		SHEET 6 OF 7
DETAILS	MD. PLAN NO: SSI-6005 MD	

EXTERIOR FINISH MATERIAL:

ROOF – MULE–HIDE 60 MIL (WHITEK) EPDM (ESR–1463) FULLY ADHERED TO 1/2" PLYWOOD WITH MULE–HIDE FR ADHESIVE IN ACCORDANCE WITH INTERTEK REPORT CCCR–1078 (CLASS C ROOF)

WALL – 7/16" SMART PANEL OVER APPROVED MOISTURE BARRIER INSTALLED PER MANUFACTURERS SPECIFICATIONS.

INTERIOR FINISH MATERIAL:

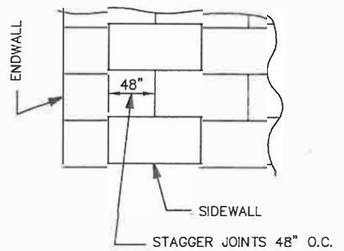
CEILING – T–GRID CEILING INSTALLED PER MANUFACTURER'S SPECIFICATIONS

WALL – 5/8" TYPE 'X'. GYP. BOARD (VCG THROUGHOUT) INSTALLED PER MANUFACTURERS SPECIFICATIONS

FLOOR – FLOOR FINISHES SHALL BE NO LESS THAN CLASS II LISTED PRODUCT

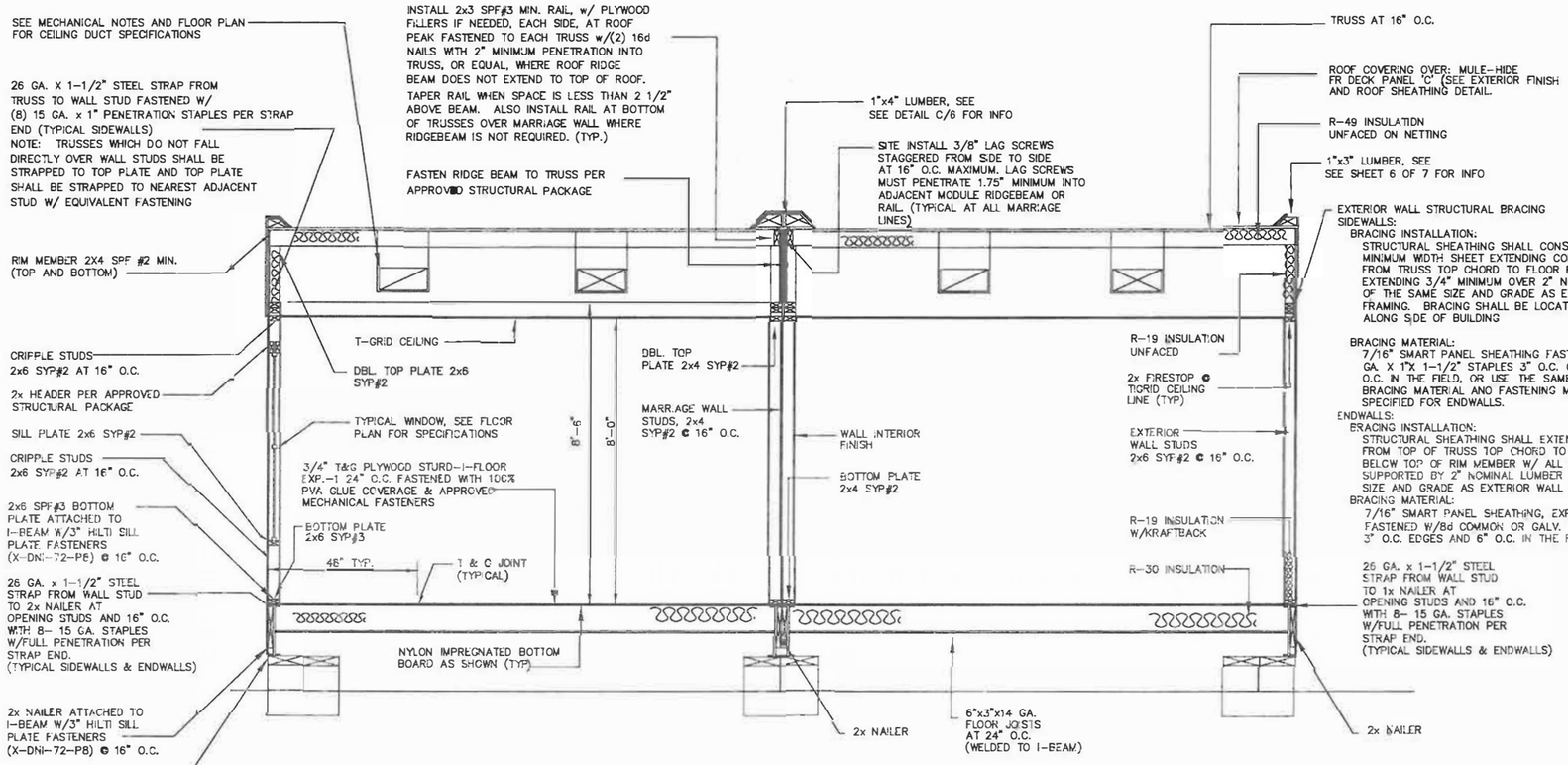
NOTE: – INTERIOR FINISHES SHALL BE CLASS 'A' FOR EXITS AND OTHER THAN EXITS SHALL BE 'A' OR 'B'

APPROVED RADCO APPROVED
18-Jun-21
James Slaght, MCP



1/2" PLYWOOD SHTG. TO BE FASTENED TO RAFTERS PER APPROVED STRUCTURAL PACKAGE

ROOF SHEATHING DETAIL



APPROVED TRUSS DESIGN:

TRUSS MANUFACTURER: UNIVERSAL

TRUSS DRAWING. # F0350652

GENERAL CROSS–SECTION NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A36, YIELD STRENGTH = 36 KSI.
2. ALL LAG SCREWS MUST COMPLY W/ ANSI/ ASME B18.2.1 F_{YB}= 60 KSI MINIMUM.
3. SEE FOUNDATION PLAN FOR PIER AND TIE–DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

MICROLAM BEAM CONSTRUCTION

1 LAYER(S) 1 3/4" x 24" MICROLAM, EACH MODULE.

NOTES:

1. MICROLAM F_B= 2750 PSI
2. MICROLAM MUST BE CONTINUOUS OVER CLEARSPAN(S).
3. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL
4. FASTEN ROOF SHEATHING INTO TOP EDGE OF MICROLAM TO PROVIDE CONTINUOUS LATERAL SUPPORT OF BEAM.
5. INSTALL (2 X 4) X 20" SPF# 3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS WHEN SPECIFIED ON FLOOR PLAN; FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM WITH 100% GLUE COVERAGE AND 6–16 GA. STAPLES WITH 3/4" MINIMUM PENETRATION INTO MICROLAM BEAM.
6. WHEN MORE THAN ONE LAYER OF MICROLAM IS INSTALLED ON EITHER SIDE OF THE MATING LINE, LAYERS ON THAT SIDE OF THE MATING LINE MUST BE FASTENED TOGETHER WITH 16 GA. STAPLES X 7/16" MINIMUM CROWN (INSTALLED PARALLEL TO BEAM SPAN) X 3/4" MINIMUM PENETRATION INTO CONNECTING LAYER STAPLES SHALL BE PLACED AT 6" O.C. MAXIMUM VERTICALLY AND HORIZONTALLY WITH FIRST AND LAST ROW OF STAPLES LOCATED 1" FROM TOP AND BOTTOM EDGE OF BEAM RESPECTIVELY.

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15167 US 19 NORTH– SUITE 120
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ROBERT E. GREGG
15414
REGISTERED ARCHITECT

VALID
STATE OF MARYLAND
WALTER E. WOOD
50946
PROFESSIONAL ENGINEER
06-18-2021

VALID
NORTH CAROLINA
PROFESSIONAL
SEAL
044853
ENGINEER
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COMMONWEALTH OF VIRGINIA
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SSI6005–21 A/B
23'–4" x 34'–0" ED.–STOCK

CROSS SECTION

MD. PLAN NO: SSI MD

SHEET 7 OF 7