



June 26, 2025

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

Mike Hamm Chief Building Code Consultant, Manufactured Building Division North Carolina Department of Insurance Office of State Fire Marshal Manufactured Building Division 1202 Mail Service Center Raleigh, NC 27699-1202

RE: APOLLO MODULAR SYSTEMS, INC - DOUGLAS, GA Via NC webaccess/

RADCO Plan No.: AMS-11778 Bus 13-8x70-NC-Combined Set

Dear Mr. Hamm:

Please find enclosed the following documents, approved by RADCO, and submitted for file:

Document: Approval Date: No. of Sets:

1.RADCO NC Cover Letter

06/26/2025

1

2.NC Plans Checklist

3.NC Appendix B

5.NC Energy Calculations

6.NC HVAC Calculations

7.Truss No: P2030803

8.Plan: AMS 11778 Bus 13-8x70

Plan No.: AMS-11778 Bus 13-8x70 -NC-Combined Set

The "Installation Instructions" that are referenced on the list of attachments are not included with these copies of the plans. The "Installation Instructions" are included in the manufacturer's NC Modular Package which has been filed with the Department of Insurance. The repetitious attachment of the "Installation Instructions" with each and every plan set submitted to the Department would be an unnecessary volume of paperwork.

Should you need additional information, or if there are any questions, please feel free to contact James Slaght in our Tampa office at (813) 243-0370.

Sincerely,

James Slaght, MCP

Enclosures

(file: AMS- North Carolina Correspondence)

MODULAR PLANS REV Inturer In	PAGE 1 of 3 revised June 2018 Apollo Modular Systems AMS-11778 Bus 13-8x70 RADCO 6/26/2025 James Slaght Plan Sheet Page # and NOTES
cturer cumber/name y Date r QC MANUAL (current and complete) APPENDIX B (required and attached) PLAN SHEETS Each plan sheet third-party stamped with approver's name	PAGE 1 of 3 revised June 2018 Apollo Modular Systems AMS-11778 Bus 13-8x70 RADCO 6/26/2025 James Slaght Plan Sheet Page # and NOTES
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ach plan sheets is numbered and/or indexed	
GENERAL (cover sheet)	
Code References	1, Code Summary Block
statement regarding connection to public utilities	1, Plumbing notes
statement regarding bathrooms if not included	N/A
Construction type	1, Building Data Notes
Occupancy classification	1, Building Data Notes
ire resistance ratings (if required)	N/A
loor live load	1, Structural Load Limitations Block
Roof live load	1, Structural Load Limitations Block
Design wind velocity	1, Structural Load Limitations Block
	1, Structural Load Limitations Block
hermal zones	1, General notes
lotice to inspections department regarding items to be	1, Independent Block
ite inspected	
LOOR PLANS	
	2, Floor Plan
	2, Floor Plan
	N/A
	N/A
	QC Manual Pages C14.0 - C14.13
	1, General Notes
ire rating of Exterior walls (if applicable)	1, General Notes, Building Design Parameters
XTERIOR ELEVATIONS	2
xterior materials	3, Exterior Materials Block
attic ventilation requirements	
I LIMPING	
	2 Floor Plan
	2,Floor Plan 2,Floor Plan, Plumbing risers
	2,Floor Plan
	2,11001 11411
	2, Plumbing risers
	2, 1 tunionig fiscis
Vater heater (type and capacity)	2,Floor Plan
	H CAROLINA
MODULAR PLANS RE	
Flectrical	PAGE 2 of 3 revised June 2018
	Plan Sheet Page # and NOTES
FCHANICAL FIRM TO THE PROPERTY OF THE PROPERTY	i idii Oliceti age # aliu NO LO
	Stapled to the Plans
	2, Floor plan
	construction type ccupancy classification ire resistance ratings (if required) loor live load oof live load esign wind velocity eismic information (commercial projects) hermal zones otice to inspections department regarding items to be te inspected LOOR PLANS Iterior and exterior wall layouts oor and window schedule ight and Ventilation requirements ttic access (size and location) on-prescriptive headers afety glazing requirements ire rating of Exterior walls (if applicable) XTERIOR ELEVATIONS xterior materials ttic ventilation requirements LUMBING lan Il fixtures furnished by mfg. shown on plans laterials (water supply & distribution, DWV, storm rainage) upply and waste risers, including DWV system leneric) beneath the building. //ater heater (type and capacity)

James Slaght, MCP P-173, SMP 63 U02528

	Supply and returns (locations and sizes)	1,2 Mechanical Notes, Floor Plan
X v	Duct sizes	1,2 Mechanical Notes, Floor Plan 1,2 Mechanical Notes, Floor Plan
Λ v	Specifications (units, ducts)	1, Mechanical Notes 1, Mechanical Notes
v v	All appliances furnished by mfg. shown on plans	1,2 Mechanical Notes, Floor Plan
А	This appliances farmanea by mig. shown on plans	1,2 Meenamear Notes, 1 1001 Flair
X	ELECTRICAL	
X	Plan	2, Floor plan
X	Location of all electrical boxes	2, Floor plan
X	Electrical panel location	2, Floor plan
X	Note regarding main disconnect (if applicable)	1, Electrical Note #4
X	Exterior lighting and receptacles	2, Floor plan
X	Ground level receptacles (if applicable)	N/A
X	Smoke detector location(s)	N/A
	Electrical load calculations	1, Electrical Schedule
X	Electrical panel layout (breaker and wire sizes, circuit	1, Electrical Schedule
	schedule)	
X	Panel and service entrance sizes	1, Electrical Notes, Electrical Schedule
X	All fixtures furnished by mfg. shown on plans	2, Floor plan
	ACCESSIBILITY	
	(for other than 1 & 2 family dwellings)	
v	Entrances and means of egress	1, Accessibility notes
x	Doors, doorways, and door hardware	1. Accessibility notes
X	Stairs and handrails	1, Accessibity Notes 1, Accessibity Notes #1
X	Toilet rooms, plumbing fixtures, grab bars, etc	1, Accessibity Notes
X	Bathrooms and shower rooms	N/A
X	Occupancy specific requirements	2, Floor Plan
X	Multi-family dwellings: Type A and B units	N/A
X	FLOOR X-SECTION	
X	Joists and beam sizes and spacing	4, X-Section
X	Materials species and grade	4, X-Section
X	Sheathing, decking, and concrete as applicable	4, X-Section
X	Fastening instructions	QC Manual C2.0 - C2.4
X	Insulation	4, X-Section
X	Details as required for clarification	N/A
	WALL X-SECTION	
v	Stud and column sizes and spacing	4, X-Section
Y Y	Materials species and grade	4, X-Section
X	Sheathing and bracing	4, X-Section
X	Headers and lintels	OC Manual C14.0 - C14.13
X	Finishes	4, Inteior & Exterior, Finish Material Block
X	Fastening instructions	QC Manual C2.0 - C2.4
X	Insulation	4, X-Section
X	Details as required for clarification	N/A
	NOE	RTH CAROLINA
	MODULAR PLANS R	
		PAGE 3 of 3 revised June 2018
	OFILING / POOF V OFOTION	Plan Sheet Page # and NOTES
	CEILING / ROOF X-SECTION	4 V Continu
X	Truss, rafter, and beam spacing	4, X-Section
X	Lumber species and grade Sheathing and decking	QC Manual Truss Section
X	Finishes	4, X-Section 4, X-Section
x x	Fastening instructions	4, X-Section 4, X-Section
X X	Insulation	4, X-Section
	Details including NC sealed truss designs or manual	4, X-Section / QC Manual Truss Section
	reference	
	reference	Electrical
X	reference FOUNDATION PLAN	
		Electrical

x X-sections with dimensions 1 and 2 of 2, Foundation Plan x Anchorage - sill plate to piers and curtain wall N/A x Anchorage - building to sill plate N/A x Anchorage - tie downs (lateral and longitudinal) 1 and 2 of 2, Foundation Plan x Soil bearing capacity Foundation Note #10 x Minimum concrete compressive strength Foundation Note #6 x Mortar type Foundation Note #5 x Ventilation requirements (with and without vapor barrier) Elevation Notes x Crawl space access requirements Elevation Notes ENERGY COMPLIANCE With Plan set x Demonstrated compliance With Plan set SET-UP INSTRUCTIONS 4, X-Section x Floor and ceiling connections 4, X-Section x Marriage wall connections 4, X-Section x Roof set-up and connection 4, X-Section	
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x Marriage wall connections 4, X-Section	
x Roof set-up and connection 4, X-Section	
x Plumbing connections QC Manual IM-5	
x Mechanical connections QC Manual IM-7	
x Electrical connections QC Manual IM-6	
x Fire stopping 1, Local inspection Dept Block	
x Air infiltration elimination 1, Local inspection Dept Block	
x Notice to inspections department attachment if set- up	
instructions are by attachment	
ITEMS NOT INSPECTED IN PLANT	
x List of items not inspected by 3rd. Party 1, Site Installed Items Block	
x Notice to inspections department 1, Site Installed Items Block	

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project:	:11778 Bus	13-8x70			
_					ode
	ed Agent:			-	1
Owned By:		y/County	Private	St	
Code Enforceme		у, сошту У		<u>=</u>	ate
Code Emoreeme	in furisalction.	y	County	51	
CONTACT:					
DESIGNER Architectural	FIRM		LICENSE #	TELEPHONE # ()	E-MAIL
Civil	Kenneth Earl Dunmon	P.E	017400	_ ()	
Electrical				_ ()	
Fire Alarm Plumbing				_ ()	
Mechanical					
	pipe				
Structural				_ ()	
	>5' High		_	_ ()	
Other	include firms and individu			_ (<u>)</u>	ionoro eta)
CONSTRU	Phase possib FING BUILDING CODE CTED: (date)	cle additional process : EXISTING: Alteration: CURRI	Shell/Core- Controcedures and requires and requires and requires are prescriptive. Descriptive Hereigner Historic Property OCCUPAN	Repair Level II Coerty CY(S) (Ch. 3):	Change of Use
RENOVAT	ED: (date)	_ PROPO	OSED OCCUPA	NCY(S) (Ch. 3): _	
RISK CATEGO	DRY (Table 1604.5):		_ I		
BASIC BUILDI Construction Ty (check all that ap Sprinklers: Standpipes:	ype:	_ =		/et Dry	□ V-A □ V-B FPA 13D Electrical

		Gross Build	ling Area Table		
FLOOR	EXISTING (SQ FT)		NEW (SQ FT)		SUB-TOTAL
3 rd Floor	Ziminio (sqrr)		(2) (5(2))		D0D 1011111
2 nd Floor					
Mezzanine					
1st Floor			957 sf		
Basement					
TOTAL			957 sf		
		ALLOW	ABLE AREA		
Primary Occupa	ancy Classification(s):				
Assembly	☐ A-1 ☐ A-2 ☐	A-3	☐ A-5		
Business	X	_	_		
Educational					
Factory	F-1 Moderate	F-2 Low			
Hazardous	☐ H-1 Detonate ☐ H	H-2 Deflagrate	☐ H-3 Combust	H-4 Health	☐ H-5 HPM
Institutional	☐ I-1 Condition ☐ 1	\square 2			
	☐ I-2 Condition ☐ 1	\square 2			
	☐ I-3 Condition ☐ 1	2	3	5	
	☐ I-4				
Mercantile					
Residential	□ R-1 □ R-2 □	R-3			
Storage	S-1 Moderate	S-2 Low	☐ High-piled		
	☐ Parking Garage ☐	Open Encl	osed Repair G	arage	
Utility and M	Miscellaneous				
Accessory Occup	pancy Classification(s):				
Incidental Uses					
Special Uses (Ch	napter 4 – List Code Se	ctions):			
•	ns: (Chapter 5 – List C	,			
Mixed Occupan	· -		<u> </u>	Exception: _	
☐ Non-	-Separated Use (508.3) -	The required	type of construction	n for the buildin	g shall be determined by
			neight and area limi		
		-	o the entire buildin	•	• •
		construction,	so determined, shal	apply to the er	itire building.
☐ Sepa	rated Use (508.4) - See				
			n of the ratios of th area for each use sl		ea of each use divided by 1.
_Actua	l Area of Occupancy A	+ <u>Actu</u>	al Area of Occupar	$\underline{acy B} \leq 1$	
	le Area of Occupancy A		ble Area of Occupa		
					= < 1.00
		+		+	= \leq 1.00

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.2^4	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}
1	Bus	957 sf	9,000 sf		

¹ Frontage area increases from Section 506.3 are computed thus:

a.	Perimeter which fronts a	public way or open	space having 20 feet	minimum width =	(F)

b. Total Building Perimeter = ____(P)

c. Ratio $(F/P) = ____ (F/P)$

d. $W = Minimum width of public way = ____(W)$

e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ _____(%)

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1
Building Height in Feet (Table 504.3) ²	40 ft	<15 feet	
Building Height in Stories (Table 504.4) ³	2	1	

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

² Unlimited area applicable under conditions of Section 507.

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

⁴ The maximum area of open parking garages must comply with Table 406.5.4.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

² The maximum height of air traffic control towers must comply with Table 412.3.1.

³ The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separat	ion						-
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

^{*} Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

	LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Carbon Monoxide Detection:	No x Yes No x Yes x No Yes x No Yes x No Yes
	LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #:	
 X Exterior wall opening area X Occupancy Use for each area X Occupant loads for each area X Exit access travel distances X Common path of travel distances X Dead end lengths (1020.4) X Clear exit widths for each exit widths for exit widths for each exit widths for each exit widths for exit widths for each exit widths for exit widths for each exit widths for exit widths f	line locations (if not on the site plan) with respect to distance to assumed property lines (705.8) ea as it relates to occupant load calculation (Table 1004.1.2) ea s (1017) tances (Tables 1006.2.1 & 1006.3.2(1)) exit door pant load capacity each exit door can accommodate based on egress width (1005.3) each exit door indicating where fire rated floor/ceiling and/or roof structure is provided for
Location of doors with pan Location of doors with dela Location of doors with elec Location of doors equipped	ic hardware (1010.1.10) ayed egress locks and the amount of delay (1010.1.9.7) etromagnetic egress locks (1010.1.9.9) I with hold-open devices
-	

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

TOTAL	ACCESSIBLE	ACCESSIBLE	TYPE A	TYPE A	Түре В	Түре В	TOTAL
Units	Units	Units	Units	Units	Units	Units	ACCESSIBLE UNITS
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	PROVIDED

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING	TOTAL # OF PA	RKING SPACES	# OF ACC	TOTAL#				
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACE	ES WITH	ACCESSIBLE		
			5' ACCESS AISLE	132" ACCESS 8' ACCESS		5' ACCESS AISLE 132" ACCESS 8' ACCESS		PROVIDED
				AISLE	AISLE			
TOTAL								

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE WATERCLOSETS		URINALS	LAVATORIES		SHOWERS	DRINKING FOUNTAINS					
		MALE	FEMALE UNISEX MALE FEMALE		UNISEX	/TUBS	REGULAR	ACCESSIBLE			
SPACE	EXIST'G										
	NEW			1				1		1	1
	REQ'D			1				1		1	1

SPECIAL APPROVALS

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

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)	
Exempt Building: No Yes (Provide code or statutory reference):	
Climate Zone: \square 3A \boxed{x} 4A \square 5A	
Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here)	
THERMAL ENVELOPE (Prescriptive method only)	
Roof/ceiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: R-49 Skylights in each assembly: U-Value of skylight: total square footage of skylights in each assembly: Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: R-19 Openings (windows or doors with glazing) U-Value of assembly: Solar heat gain coefficient: projection factor: Door R-Values:	
Walls below grade (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Floors over unconditioned space (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: R-26	
Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated: Electrical Representation: Brian Wash	ko

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors:	$\begin{array}{ccc} \text{Snow} & (I_S) & \underline{ 1.0} \\ \text{Seismic} & (I_E) & \underline{ 1.0} \end{array}$
Live Loads:	Roof 20 psf Mezzanine psf Floor 50 psf
Ground Snow Load:	psf
	mate Wind Speed 120 mph (ASCE-7) osure Category C
SEISMIC DESIGN CATEGORY	7: □ A □ B
Provide the following Seismic Desi Risk Category (Table 160 Spectral Response Accele	04.5)
Site Classification (ASCE Data Sou	
Basic structural system	▼ Bearing Wall □ Dual w/Special Moment Frame □ Building Frame □ Dual w/Intermediate R/C or Special Steel □ Moment Frame □ Inverted Pendulum
Analysis Procedure:	X Simplified
Architectural, Mechanic	al, Components anchored? Yes No
LATERAL DESIGN CONTROL	: Earthquake Wind X
SOIL BEARING CAPACITIES: Field Test (provide copy of Presumptive Bearing capa	citypsf
Pile size, type, and capacit	



MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb:
summer dry bulb:
T
Interior design conditions
winter dry bulb:
summer dry bulb:
relative humidity:
Building heating load:
Building cooling load:
Mechanical Spacing Conditioning System
Unitary
description of unit:
heating efficiency:
cooling efficiency:
size category of unit:
Boiler
Size category. If oversized, state reason.:
Chiller
Size category. If oversized, state reason.:



ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive ASHRAE 90.1 ☒ Performance ☐ Prescriptive
Lighting schedule (each fixture type)
lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed
Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 □ C406.2 More Efficient HVAC Equipment Performance □ C406.3 Reduced Lighting Power Density □ C406.4 Enhanced Digital Lighting Controls □ C406.5 On-Site Renewable Energy □ C406.6 Dedicated Outdoor Air System □ C406.7 Reduced Energy Use in Service Water Heating

Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard

Project Title: 11778 NC

Location: Lillington, North Carolina

Climate Zone:

Project Type: New Construction

Vertical Glazing / Wall Area: 7%

Performance Sim. Specs: EnergyPlus 8.1.0.009 (EPW: USA_NC_Raleigh-

Durham.Intl.AP.723060 TMY3.epw)

Construction Site:

Owner/Agent:

TITAN / APOLLO MODULAR

SYSTEMS

162 INDUSTRIAL DRIVE / 2162 INDUSTRIAL BLVD.

ALMA / DOUGLAS, GA 31510 /31532

Designer/Contractor:

KENNETH EARL DUNMON, P.E. TOMMY HOOKS ROAD

Electrical

Brian Washko P-187

James Slaght, MCP

P-173, SMP 63

U02528

AMERCUS, GA 31709

Building Area Floor Area

1-Office : Nonresidential 957

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 - Office]	957	49.0	0.0	0.021	0.027
Floor 1: Wood-Framed, [Bldg. Use 1 - Office]	957	19.0	0.0	0.051	0.033
NORTH Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office] Window 2: Metal Frame, Perf. Specs.: Product ID CUSTOM, SHGC 0.24, VT 0.45, [Bldg. Use 1 - Office] (b) Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	560 45 40	19.0 	0.0	0.067 0.290 0.034	0.089 0.420 0.370
EAST Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office] Window 1: Metal Frame, Perf. Specs.: Product ID CUSTOM, SHGC 0.24, VT 0.45, [Bldg. Use 1 - Office] (b)	110 9	19.0 	0.0	0.067 0.290	0.089 0.420
SOUTH Exterior Wall 4: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office] Window 3: Metal Frame, Perf. Specs.: Product ID CUSTOM, SHGC 0.25, VT 0.45, [Bldg. Use 1 - Office] (b)	560 45	19.0 	0.0	0.067 0.290	0.089 0.420
<u>WEST</u> Exterior Wall 5: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office]	110	19.0	0.0	0.067	0.089

⁽a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Project Title: 11778 NC Report date: 06/16/25

Data filename: Page 1 of 18

⁽b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Envelope PASSES: Design 5% 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 90.1 (2019) Standard requireme

Neb and to comply with any applicable

Name - Title Date

Electrical

Brian Washko P-187

RADCO PROVED

James Slaght, MCP
P-173, SMP 63
U02528

Project Title: 11778 NC Report date: 06/16/25

Data filename:

Page 2 of 18

COM*check* **Software Version COM***checkWeb*

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard

Project Title: 11778 NC

Project Type: New Construction

Construction Site: Owner/Agent:

TITAN / APOLLO MODULAR SYSTEMS

162 INDUSTRIAL DRIVE / 2162 INDUSTRIAL BLVD.

ALMA / DOUGLAS, GA 31510 /31532

Electrical

Brian Washko P-187

A RADCO

PROPERTY OF THE PROPE

James Slaght, MCP P-173, SMP 63

U02528

Designer/Contractor: KENNETH EARL DUNMON, P.E. TOMMY HOOKS ROAD AMERCUS, GA 31709

Allowed Interior Lighting Power

	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Office		957	0.64	612
			Total Allowed Watts =	= 612

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Office				
LED 7: LED Linear 22W:	1	12	22	264
		Total Propos	sed Watts =	264

Interior Lighting PASSES: Design 57% 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 90.1 (2019) Standard requirements in COMcheck Version COMcheck Web and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: 11778 NC Report date: 06/16/25

Data filename:

Page 3 of 18

COMcheck Software Version COMcheckWeb Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard

11778 NC Project Title:

Project Type: **New Construction**

Exterior Lighting Zone 2 (Neighborhood business district (LZ2))

Electrical Brian Washko P-187

James Slaght, MCP P-173, SMP 63 U02528

Construction Site: Owner/Agent:

TITAN / APOLLO MODULAR

SYSTEMS

162 INDUSTRIAL DRIVE / 2162

INDUSTRIAL BLVD.

ALMA / DOUGLAS, GA 31510 /31532

Designer/Contractor:

KENNETH EARL DUNMON, P.E. TOMMY HOOKS ROAD AMERCUS, GA 31709

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)	
F1 (Entry canopy)	3 ft2	0.25	Yes	1	
F2 (Entry canopy)	3 ft2	0.25	Yes	1	
		Total Tradable Watts (a) =		2	
		2			
	Total Allo	wed Supplemer	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 Fixture	D Fixture Watt.	(C X D)
F1 (Entry canopy, 3 ft2): Tradable Wattage Incandescent 1: Incandescent 60W:	1	1	60	60
F2 (Entry canopy, 3 ft2): Tradable Wattage Incandescent 2: Incandescent 60W:	1	1	60	60
	Total Trac	dable Propos	sed Watts =	120

Exterior Lighting PASSES: Design 70% better than code

Exterior Lighting Compliance

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 90.1 (2019) Standard requirements in COMchack Varsion COMchack Washington and to comply with any applicable mandatory requirements listed in the Inspection Checklist. CA STATE

Name - Title	Signature	Signature Dai			
Project Title: 11778 NC		MOINES AND THE OUNTERNAMENT OF THE OUNTERNAMENT OF THE OWNER OWN	Report date: 06/16/25 Page 4 of 18		
Data filename:		49-74.25	Page 4 of		

/¹/

Construction Site:

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard

Project Title: 11778 NC

Location: Lillington, North Carolina

Climate Zone: 3

Project Type: New Construction

Owner/Agent: Designer/Contract

TITAN / APOLLO MODULAR SYSTEMS

162 INDUSTRIAL DRIVE / 2162

INDUSTRIAL BLVD.

ALMA / DOUGLAS, GA 31510 /31532

Electrical

Brian Washko P-187

A RADCO

PROPERTY OF THE PROPE

James Slaght, MCP P-173, SMP 63 U02528

Designer/Contractor: KENNETH EARL DUNMON, P.E. TOMMY HOOKS ROAD AMERCUS, GA 31709

Mechanical Systems List

Quantity System Type & Description

1 HVAC System 1 (Single Zone):

Heating: 1 each - Other, Electric, Capacity = 68 kBtu/h

No minimum efficiency requirement applies

Cooling: 1 each - Single Package DX Unit, Capacity = 36 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Humidity Requirements

Proposed Efficiency = 14.00 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

14/ 1 11 1 1

1

Electric Storage Water Heater, Capacity: 6 gallons w/ Heat Trace Tape Installed Proposed Efficiency: 4.80 SL, %/h (if > 12 kW), Required Efficiency: 4.80 SL, %/h (if > 12 kW)

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 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

mandatory requirements listed in the	mspection checklist.	
Name - Title	Signati Date	
	SEAL 017400	

Project Title: 11778 NC Report date: 06/16/25

Data filename: Page 5 of 18



COM*check* **Software Version COM***checkWeb*

Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Brian Washko P-187

RADCO PROPERTY

26-Jun-25

James Slaght, MCP P-173, SMP 63 U02528

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 #	Plan Review	Complies?	Comments/Assumptions
4.2.2, 5.4.3.1.1, 5.7 [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	
4.2.2, 6.4.4.2.1, 6.7.2 [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	
4.2.2, 7.7.1, 10.4.2 [PR3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	□Complies □Does Not □Not Observable □Not Applicable	
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	□Complies □Does Not □Not Observable □Not Applicable	
4.2.2, 9.4.3, 9.7 [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	

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

Project Title: 11778 NC Report date: 06/16/25
Data filename: Page 6 of 18

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
9.7 [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	
4.2.5.2 [PR5] ¹	Commissioning shall be performed as stated in Sections 5.9.2, 6.9.2, 7.9.2, 8.9.2, 9.9.2, 10.9.2, 11.2(d), and G1.2.1(c). Commissioning must utilize ASHRAE/IES Standard 202 or other generally accepted engineering standards acceptable to the building official. FPT and verification requirements for commissioning are as stated in Section 4.2.5.1. Commissioning shall document compliance of the building systems, controls, and building envelope with required provisions of this standard. Commissioning requirements shall be incorporated into the construction documents.	□Complies □Does Not □Not Observable □Not Applicable	



Project Title: 11778 NC Report date: 06/16/25
Data filename: Page 7 of 18

2 Medium Impact (Tier 2)

1 High Impact (Tier 1)

Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [FO1] ²	Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R	R	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
4.2.4 [FO3] ²	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R Unheated Heated	R Unheated Heated	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
5.8.1.7 [FO6] ¹	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.			□Complies □Does Not □Not Observable □Not Applicable	
5.8.1.7.3 [FO7] ¹	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			□Complies □Does Not □Not Observable □Not Applicable	
6.4.3.7 [FO9] ³	Freeze protection and snow/ice melting system sensors for future connection to controls.			□Complies □Does Not □Not Observable □Not Applicable	
6.4.4.1.5 [FO11] ³	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	R	R	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.



Project Title: 11778 NC Report date: 06/16/25

1 High Impact (Tier 1)

Data filename: Page 8 of 18

2 Medium Impact (Tier 2)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1] ³	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.			□Complies □Does Not □Not Observable □Not Applicable	
5.5.4.3a [FR8] ¹	Vertical fenestration U-Factor.	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
5.5.4.3b [FR9] ¹	Skylight fenestration U-Factor.	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.1 [FR10] ¹	Vertical fenestration SHGC value.	SHGC:	SHGC:	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.2 [FR11] ¹	Skylight SHGC value.	SHGC:	SHGC:	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12] ²	Fenestration products rated (U- factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.			□Complies □Does Not □Not Observable □Not Applicable	
5.8.2.2 [FR13] ¹	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			□Complies □Does Not □Not Observable □Not Applicable	
5.5.3.6 [FR14] ²	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U Swinging Nonswinging	U Swinging Nonswinging	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
5.4.3.1 [FR15] ¹	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			□Complies □Does Not □Not Observable □Not Applicable	

1 High Impact (Tier 1)



Project Title: 11778 NC Report date: 06/16/25
Data filename: Page 9 of 18

2 Medium Impact (Tier 2)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
7.4.4.1 [PL2] ³	Temperature controls installed on service water heating systems	\square Complies \square Does Not	
	($<=120$ $^{\circ}$ F to maximum temperature for intended use).	□Not Observable □Not Applicable	
7.4.4.2 [PL3] ¹	Automatic time switches installed to automatically switch off the	\square Complies \square Does Not	
	recirculating hot-water system or heat trace.	□Not Observable □Not Applicable	
7.4.6 [PL4] ³	Heat traps installed on non-circulating storage water tanks.	\square Complies \square Does Not	
		□Not Observable □Not Applicable	



Project Title: 11778 NC Report date: 06/16/25
Data filename: Page 10 of 18

2 Medium Impact (Tier 2)

1 High Impact (Tier 1)

Section #	Mechanical Rough-In	Plans Verified	Field Verified	Complies?	Comments/Assumptions
& Req.ID	Inspection	Value	Value	Compiles:	Comments/Assumptions
6.4.1.4, 6.4.1.5	HVAC equipment efficiency verified. Non-NAECA HVAC	Efficiency:	Efficiency:	□Complies □Does Not	See the Mechanical Systems list for values.
[ME1] ²	equipment labeled as meeting 90.1.			□Not Observable □Not Applicable	
6.4.3.4.1 [ME3] ³	Stair and elevator shaft vents have motorized dampers that			□Complies □Does Not	
	automatically close.			□Not Observable □Not Applicable	
6.4.3.4.5 [ME39] ³	Enclosed parking garage ventilation has automatic			□Complies □Does Not	
	contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			□Not Observable □Not Applicable	
6.4.3.4.4 [ME5] ³	Ventilation fans >0.75 hp have automatic controls to shut off fan			□Complies □Does Not	
	when not required.			□Not Observable □Not Applicable	
6.4.3.8 [ME6] ¹	Demand control ventilation provided for spaces >500 ft2 and			□Complies □Does Not	
	>25 people/1000 ft2 occupant density and served by systems			□Not Observable □Not Applicable	
	with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			шиот Аррисавіе	
6.5.3.2.1 [ME40] ²	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= ½ designed to vary supply fan airflow as a function of load and comply with operational requirements.			□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.4.4.1.1 [ME7] ³	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			□Complies □Does Not □Not Observable □Not Applicable	
6.4.4.1.2 [ME8] ²	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R	R	□Complies □Does Not □Not Observable □Not Applicable	
6.4.4.1.3 [ME9] ²	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	in.	in.	□Complies □Does Not □Not Observable □Not Applicable	
6.4.4.1.4 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			□Complieectrical □BeianoWashko □Mpt PsAy D □Mpt Applicable	P-187
6.4.4.2.1 [ME10] ²	Ducts and plenums having pressure class ratings are Seal Class A construction.			Somplias Jun-2 Somplias Jun-2	, MCP
				U02528	i 00
	1 High Impact (Tier	1) 2 Medium	Impact (Tier 2)	3 Low Impact (Ti	er 3)

Project Title: 11778 NC Report date: 06/16/25

Data filename:

Section #	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID			74140	Пс "	
6.8.1-15, 6.8.1-16	Electrically operated DX-DOAS units meet requirements per			☐Complies ☐Does Not	
[ME110] ²	Tables 6.8.1-15 or 6.8.1-16.			□Not Observable	
				□Not Applicable	1 1 1
6.4.4.2.2	Ductwork operating >3 in. water			□Complies	1
[ME11] ³	column requires air leakage			□Does Not	
	testing.			□Not Observable	
				☐Not Applicable	
6.5.2.3	Dehumidification controls			□Complies	
[ME19] ³	provided to prevent reheating,			□Does Not	1 1 1
	recooling, mixing of hot and cold airstreams or concurrent heating			□Not Observable	1 1 1
	and cooling of the same			□Not Applicable	1 1 1
	airstream.				
6.5.2.4.1	Humidifiers with airstream			Complies	
[ME68] ³	mounted preheating jackets have preheat auto-shutoff value set to			□Does Not	i !
	activate when humidification is			□Not Observable	i !
	not required.			□Not Applicable	1
6.5.2.4.2	Humidification system dispersion			Complies	i !
[ME69] ³	tube hot surfaces in the airstreams of ducts or air-			□Does Not	1
	handling units insulated >= R-			□Not Observable	1
	0.5.			□Not Applicable	1
6.5.2.5	Preheat coils controlled to stop			Complies	
[ME70] ³	heat output whenever mechanical cooling, including			□Does Not	i !
	economizer operation, is active.			□Not Observable	1 1 1
				□Not Applicable	
6.5.2.6 [ME106] ³	Units that provide ventilation air to multiple zones and operate in			☐Complies ☐Does Not	1 1 1
[MLIOO]	conjunction with zone heating				
	and cooling systems are			□Not Observable □Not Applicable	
	prevented from using heating or heat recovery to warm supply air			шиот Аррисавіе	! !
	above 60°F when representative				! !
	building loads or outdoor air				1
	temperature indicate that most zones demand cooling.				I I I
6.5.3.3	Multiple zone VAV systems with			☐Complies	See the Mechanical Systems list
[ME42] ³	DDC of individual zone boxes			Does Not	for values.
	have static pressure setpoint			□Not Observable	
	reset controls.			□Not Applicable	
6.5.4.2	HVAC pumping systems with >=			□Complies	
[ME25] ³	3 control values designed for			□Does Not	i !
	variable fluid flow (see section details).			□Not Observable	
	actans).			□Not Applicable	I I I
6.5.7.2.1	Kitchen hoods >5,000 cfm have			Complies	
[ME32] ²	make up air >=50% of exhaust air volume.			□Does Not	:
	an volunie.			□Not Observable	
				□Not Applicable Brian Washk	P-187
6.5.7.2.4	Approved field test used to			Complies	: ∩ >
[ME49] ³	evaluate design air flow rates and demonstrate proper capture			□ RADC	PP
	and containment of kitchen			Det Observable	APPROVE
	exhaust systems.			☐ Rot Applicable	

James Slaght, MCP P-173, SMP 63 U02528

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

Project Title: 11778 NC Data filename:

Report date: 06/16/25 Page 12 of 18

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.8.1 [ME34] ²	Unenclosed spaces that are heated use only radiant heat.			□Complies □Does Not	
				□Not Observable □Not Applicable	
6.5.9 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 15% >240 kBtu/h - 10%			□Complies □Does Not	
				□Not Observable □Not Applicable	
7.4.2 [ME36] ²	Service water heating equipment meets efficiency requirements.			□Complies □Does Not	
				□Not Observable □Not Applicable	
6.4.3.9 [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	
6.5.10 [ME73] ³	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.			□Complies □Does Not □Not Observable □Not Applicable	



Project Title: 11778 NC Report date: 06/16/25

1 High Impact (Tier 1)

Data filename: Page 13 of 18

2 Medium Impact (Tier 2)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	20-Amp receptacles are controlled by an automatic control device.	□Complies □Does Not □Not Observable	
8.4.3 [EL11] ²	New buildings have electrical energy	□Not Applicable □Complies □Does Not □Not Observable □Not Applicable	
9.4.1.1 [EL1] ²		□Complies □Does Not □Not Observable □Not Applicable	
9.4.1.1 [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	□Complies □Does Not □Not Observable □Not Applicable	
9.4.1.1f [EL13] ¹	roof monitors that have more than 150 W combined input power for general lighting are controlled by	□Complies □Does Not □Not Observable □Not Applicable	
9.4.1.4 [EL3] ²	-	□Complies □Does Not □Not Observable □Not Applicable	
9.4.1.3 [EL4] ¹	specific uses installed per approved lighting plans.	□Complies □Does Not □Not Observable □Not Applicable	
9.6.2 [EL8] ¹	allowed for special functions per the approved lighting plans and is automatically controlled and	□Complies □Does Not □Not Observable □Not Applicable	
10.4.1 [EL9] ²	where applicable.	□Complies □Does Not □Not Observable □Not Applicable	

1 High Impact (Tier 1)



Project Title: 11778 NC Report date: 06/16/25
Data filename: Page 14 of 18

2 Medium Impact (Tier 2)

	Value	Value	Complies?	Comments/Assumptions
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.	R Above deck Metal Attic	R Above deck Metal Attic	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.			□Complies □Does Not □Not Observable □Not Applicable	
Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R Mass Metal Steel Wood	R Mass Metal Steel Wood	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
Above-grade wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R Mass Steel Wood	R Mass Steel Wood	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
Floor insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.			□Complies □Does Not □Not Observable □Not Applicable	
Building envelope insulation extends over the full area of the component at the proposed rated R or U value.			□Complies □Does Not □Not Observable □Not Applicable	
Eaves are baffled to deflect air to above the insulation.			□Complies □Does Not □Not Observable □Not Applicable	
Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			☐Complies ☐Does Not Electrical ☐Net-Observable ☐Not Applicable	P-187
Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			es Not Jun-2	25 OVED
	R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection. Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12. Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. Above-grade wall insulation installed per manufacturer's instructions. Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. Floor insulation installed per manufacturer's instructions. Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data. Building envelope insulation extends over the full area of the component at the proposed rated R or U value. Eaves are baffled to deflect air to above the insulation. Insulation is installed in substantial contact with the inside surface separating conditional space. Recessed equipment installed in building envelope assemblies does not compress the adjacent	R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection. Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12. Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. Above-grade wall insulation installed per manufacturer's instructions. Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data. Building envelope insulation extends over the full area of the component at the proposed rated R or U value. Eaves are baffled to deflect air to above the insulation. Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space. Recessed equipment installed in building envelope assemblies does not compress the adjacent	R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection. Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12. Installed above-grade wall insulation specifications reported in plans and COMcheck reports. Above-grade wall insulation specifications reported in plans and COMcheck reports. Above-grade wall insulation installed per manufacturer's instructions. Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. Revelue consistent with insulation specifications reported in plans and COMcheck reports. Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data. Building envelope insulation extends over the full area of the component at the proposed rated R or U value. Eaves are baffled to deflect air to above the insulation. Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space. Recessed equipment installed in building envelope assemblies does not compress the adjacent	R-value consistent with insulation precifications reported in plans and COMcheck reports. For some celling systems, verification may need to occur during Framing Inspection. Roof insulation installed per manufacturer's instructions. Roof insulation is installed only where the celling slope is <= 3:12. Installed above-grade wall insulation specifications reported in plans and COMcheck reports. Above-grade wall insulation specifications reported in plans and COMcheck reports. Above-grade wall insulation installed per manufacturer's instructions. Real Mass Does Not Does Not Does Not Steel Wood Mod District Mod Observable Wood Mod District Mod Observable M

Project Title: 11778 NC Report date: 06/16/25
Data filename: Page 15 of 18

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

1 High Impact (Tier 1)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.1 [IN15] ²	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment			□Complies □Does Not	
	access.			□Not Observable □Not Applicable	
5.8.1.7.2 [IN16] ²	Foundation vents do not interfere with insulation.			□Complies □Does Not	
				□Not Observable □Not Applicable	
5.8.1.8 [IN17] ³	Insulation intended to meet the roof insulation requirements			□Complies □Does Not	
	cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			□Not Observable □Not Applicable	



Project Title: 11778 NC Report date: 06/16/25
Data filename: Page 16 of 18

2 Medium Impact (Tier 2)

1 High Impact (Tier 1)

Section # & Reg.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1] ¹	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-	□Complies □Does Not	
	8.	□Not Observable □Not Applicable	
6.4.3.1.2 [FI3] ³	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not	
		□Not Observable □Not Applicable	
6.4.3.2 [FI20] ³	Temperature controls have setpoint overlap restrictions.	□Complies □Does Not	
		□Not Observable □Not Applicable	
6.4.3.3.1 [FI21] ³	HVAC systems equipped with at least one automatic shutdown control.	□Complies □Does Not	
		□Not Observable □Not Applicable	
6.4.3.3.2 [FI22] ³	Setback controls allow automatic restart and temporary operation as	□Complies □Does Not	
	required for maintenance.	□Not Observable □Not Applicable	
6.4.3.6 [FI6] ³	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	□Complies □Does Not	
		□Not Observable □Not Applicable	
6.7.2.1 [FI7] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	□Complies □Does Not	
		□Not Observable □Not Applicable	
6.7.2.2 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system	□Complies □Does Not	
	acceptance.	□Not Observable □Not Applicable	
6.7.2.3 [FI9] ¹	An air and/or hydronic system balancing report is provided for HVAC	□Complies □Does Not	
	systems serving zones >5,000 ft2 of conditioned area.	□Not Observable □Not Applicable	
7.4.4.3 [FI11] ³	Public lavatory faucet water temperature <=110°F.	□Complies □Does Not	
		□Not Observable □Not Applicable	
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days	□Complies □Does Not	Electrical
	of system acceptance.	□Not Observable □Not Applicable	Brian Washko P-187
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the	□Complies □Does Not	RADCO PROVED
	building owner or designated representative.	□Not Observable □Not Applicable	ହୁଁ 26-Jun-25 ହୁଁ ଅ ଅ James Slaght, MCP
			P-173, SMP 63

1 High Impact (Tier 1)2 Medium Impact (Tier 2)3 Low Impact (Tier 3)Project Title:11778 NCReport date: 06/16/25Data filename:Page 17 of 18

U02528

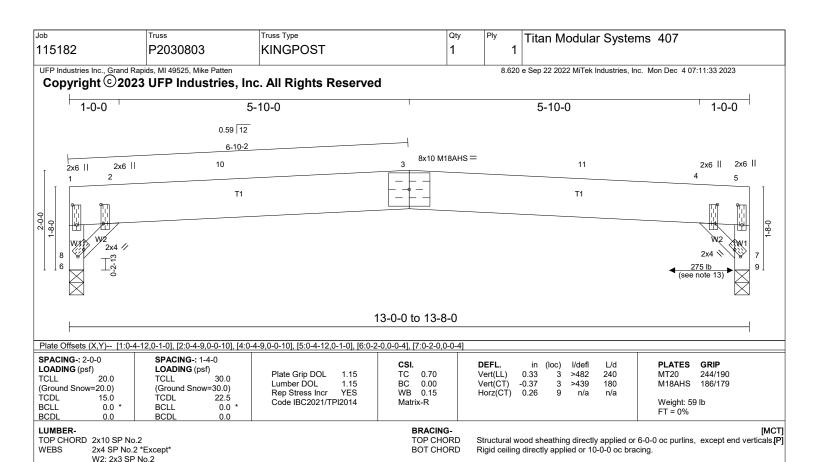
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what	\square Complies \square Does Not	See the Interior Lighting fixture schedule for values.
	is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Not Observable □Not Applicable	
9.4.2 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved	□Complies □Does Not	See the Exterior Lighting fixture schedule for values.
	lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Not Observable □Not Applicable	
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	□Complies □Does Not	
		□Not Observable □Not Applicable	
10.4.3 [FI24] ²	Elevators are designed with the proper lighting, ventilation power, and standby mode.	\square Complies \square Does Not	
		□Not Observable □Not Applicable	
7.4.3 [FI45] ²	First 8 ft of outlet piping in nonrecirculating storage system, or	□Complies □Does Not	
	branch piping connected to recirculated, heat traced, or impredance heated piping is insulated.	□Not Observable □Not Applicable	
7.4.3 [FI46] ²	All heat traced or externally heated piping insulated	□Complies □Does Not	
		□Not Observable □Not Applicable	



Project Title: 11778 NC Report date: 06/16/25
Data filename: Page 18 of 18

2 Medium Impact (Tier 2)

1 High Impact (Tier 1)



REACTIONS. (lb/size) 8=468/0-3-8 (min. 0-1-8), 9=468/0-3-8 (min. 0-1-8)

Max Horz 8=-49(LC 8)

Max Uplift8=-197(LC 8), 9=-197(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension

1-2=-36/49, 2-3=-337/359, 3-4=-337/359, 4-5=-36/49, 6-8=-468/547, 1-6=-464/507, 7-9=-468/547, 5-7=-464/507 TOP CHORD

WEBS 2-6=-590/596, 4-7=-590/596

NOTES-

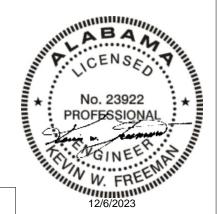
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph @24in o.c.; TCDL=6.0psf; BCDL=0.0psf; (Alt. 147mph @16in o.c.; TCDL=9.0psf; BCDL=0.0psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; Pg=20.0 psf; Ps=20.0 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; IBC 1607.11.2
- minimum roof live load applied where required.; Min. flat roof snow load governs. 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.
 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) All plates are MT20 plates unless otherwise indicated.
- 7) * 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.
- 8) Bearing at joint(s) 8, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 8 and 197 lb uplift at joint 9.

 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
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 12) When adjusting the variable span dimension, adjust the post placement dimensions proportional to the change in span.
- 13) This truss has been designed for a horizontal wind load as shown.
- 14) This design has been checked for Alpine Wave 20 gauge plates. 15) Based on P2030801 IBC 2021, Alpine plates, 13-0-0 to 13-8-0 span

Electrical **Brian Washko P-187 APPROVED**

James Slaght, MCP P-173, SMP 63 U02528

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.

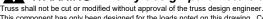




WARNING - Verify design parameters and READ NOTES

UFP Industries. Inc PHONE (616)-364-6161

2801 EAST BELTLINE RD, NE GRAND RAPIDS, MI 49525



This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for

an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding

fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MitekSupp\templates\ufp.tpe





Job	Truss	MFG	Customer
115182	P2030803	407	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.











Electrical

Brian Washko P-187

RADCO

PROPERTY OF THE PROPERT

James Slaght, MCP P-173, SMP 63 U02528

PLUMBING NOTES:

- TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
- REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. FLOORS SHALL HAVEA SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS
- UPWARD ONTO THE WALLS AT LEAST 6 INCHES. 3. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM
- IF THESE ARE AVAILABLE. 4. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
- WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR,
 T & P RELIEF VALVE WITH DRAIN TO PAN WITH 2" TO 6" AIR GAP AND A SHUT OFF
 VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
- 6. DWV SYSTEM SHALL BE PVC DWV.
- 7. WATER SUPPLY LINES SHALL BE PEX AND SHALL BE INSTALLED IN
- ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH VALVE TYPE UNLESS OTHERWISE SPECIFIED
- BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS,
- BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.

 SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120T (48.8°C).

 MAXIMUM WATER OUTLET TEMPERATURE OF 120T (48.8°C).

 THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL
- 12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION.
- 13. WATER, SOIL AND WASTE PIPES IN UNCONDITION SPACES SHALL BE INSULATED AND PROTECTED FROM FREEZING.
- 14. CUSTOMER ASSUMES ALL RESPONSIBILTY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.
- TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMP LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A
- 16. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER CODE ARE 10. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER CODE 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

 1. THE FIRST 8 FEET OF HOT WATER PIPING FROM WATER HEATER SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH AS A SECONDUCTIVITY OF EXCEEDING 0.27 BTU PER INCH AS A SECONDUCTIVE OF THE PIPING FROM WATER HEATER SHALL BE INSULATED.

MECHANICAL NOTES:

- ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES x 24 INCHES ADJUSTABLE WITH 8 INCHES x 18 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R-6 MINIMUM INSULATION AND R-8 INSULATION WHERE LOCATED OUTSIDE THE
- 2. INTERIOR DOORS SHALL BE LINDERCLIT 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 5 CFM PER PERSON & 0.06 CFM PER S.F. BLDG. AREA PER SECTION 403.3 OF THE NCMC.

C5.0-C5.6

C10.0-C10.2

C27.0-C27.16

C29.0-C29.9

- C14.0-C14.6

- D24.0-D24.9

- D25.0-D25.3

D16.0-D16.1

- D6.0-D6.1

- D5.0

- C4.0

- THE NOMC.

 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

 6. THERMOSTAT MUST BE PROGRAMMABLE

CONSTRUCTION DETAILS INDEX-PAGES FLOOR SYSTEM DESIGN PAGES

PLYWOOD MATELINE BEAM PAGES

WINDOW AND DOOR HEADER PAGES

FOUNDATION OVERTURNING/SLIDING TIE DOWN PAGES

FOUNDATION LONGITUDINAL TIE DOWN PAGES

BUILDING RIM JOIST PAGES

FOUNDATION MATELINE COLUMN TIE DOWN PAGES

LAG CHASSIS TO FLOOR PAGES

OUTRIGGER & CROSS MEMBER PAGES

FLOOR I-BEAMS PAGES

MATELINE COLUMN PAGES

NORTH CAROLINA PKG. REFERENCES

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

THE INTERCONNECTION BETWEEN BUILDING MODULES AT THE FLOOR AND ROO SHALL BE SPECIFIED ON THE CROSS SECTION DRAWING ON THE PLAN SET. BUILDING TIE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON

FOUNDATION PLAN. 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).

MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.0, E2.4, E2.5 of the installation instructions (if applicable) plumbing interconnections between building modules shall be per pages e1.1, e1.2, E2.3, E4.1 of the installation instructions

(F APPLICABLE).
FIRE BLOCKING SHALL BE PROVIDED PER SECTION 717.2 AND 1408.2.3 OF THE
N.C. BULDING CODE (AS APPLICABLE).
ARI 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.

AN ATTACHMENT ENTITLED INSTALLATION THE PLAN SET AND INSTALLATION FOR IMPORTANT INFORMATION CONCERNING THE INSTALLATION OF THE MODULAR BUILDING.

STRUCTURAL LOAD SPECIFICATIONS-ASCE 7-10

FLOOR LIVE LOAD:

A. 50 PSF
B. 2000# CONCENTRATED LOAD OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR.

- ROOF SNOW LOAD:
 A. GROUND SNOW LOAD:
 B. FLAT-ROOF SNOW LOAD:
 C. SNOW EXPOSURE FACTOR:
 D. SNOW IMPORTANCE FACTOR:
 E. SNOW THERMAL FACTOR:
 F. ROOF SLOPE FACTOR:
 C. SLOPED PROCE SNOW LOAD: ROOF SNOW LOAD:

 A, GROUND SNOW LOAD:
 B, FLAT-ROOF SNOW LOAD:
 C, SNOW EXPOSURE FACTOR:
 C, SNOW EXPOSURE FACTOR:
 C, SNOW EXPOSURE FACTOR:
 C, SNOW HIPPORTANCE FACTOR:
 C, SNOW HIPPORTANCE FACTOR:
 C, SNOW THERMAL FACTOR:
 C, SNOW THERMAL FACTOR:
 C, SNOW THEOOF SNOW LOAD:
 C, SLOPED ROOF SNOW LOAD:
 C, SLOPED R
- WIND LOAD: WIND LOAD:
 A. BASIC WIND SPEED (3-SEC GUST):
 B. ASD WIND SPEED (3-SEC GUST):
 C. RISK CATEGORY:
 D. WIND EXPOSURE CATEGORY:
 E. INTERNAL PRESSURE COEFFICIENT: V = 120 MPH Vasd = 93 MPH
- F. COMPONENT & CLADDING BASIC DESIGN PRESSURES (ASD DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES:
- WALL ZONE 5: P = +/- 42.0 PSF (Pasd = +/- 25.2 PSF) WALL ZONE 4: P = +/- 34.0 PSF (Pasd = +/- 20.4 PSF) ROOF ZONE 3: P = 89.5 PSF (Pasd = 53.9 PSF) ROOF ZONE 2: P = 65.8 PSF (Pasd = 39.5 PSF) ROOF ZONE 1: P = 50.0 PSF (Pasd = 30.0 PSF) ROOF ZONE 1: P = 28.7 PSF (Pasd = 17.2 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:
 Sa = 0.52 S1 = 0.29
 S. SEISMIC DESIGN CATEGORY IS C.
 F. SEISMIC DESIGN CATEGORY IS C.
 F. SEISMIC FORCE RESISTING SYSTEM IS A15.
 G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
 H. RESPONSE COEFFICIENT Ca = 0.08

FLOOD LOAD:
THE MODULAR BUILDING UNITS ARE NOT DESIGNED TO BE
SUBMERGED OR SUBJECT TO WAVE ACTION. IF INSTALLED
IN A FLOOD PLAIN, THE MODULAR BUILDING UNITS MUST
BE INSTALLED ABOVE THE MINIMUM BASE FLOOD ELEVATION
DERIVED FROM APPROPRIATE FLOOD ELEVATION MAPS FOR
THE BUILDING SITE OR SET ON A FOUNDATION DESIGNED
FOR FLOOD LEVELS.

GENERAL NOTES:

- I. 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.
- 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 CONNECTIONS AND THE DOWN REQUIRMENTS

 5. STRAPBING MILES HE TESTED AND/OR CERTIFIED TO VERIETY THE STRUCTURAL CAPACIT

- TIE DOWN REQUIRMENTS

 5. STRAPPING MUST BE TESTED AND/OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY.

 APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.

 6. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN
 PRESSURE FOR COMPONENTS AND CLADDING.

 7. STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED

 ACCORDING TO THE APPROVED STRUCTURAL MANUAL.
- ACCORDING TO THE APPROVED STRUCTIRAL MANUAL.

 8. PROVISIONS FOR EXIT DISCHARGE LICHTING ARE THE RESPONSIBILITY OF THE GENRAL CONTRACTOR AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).

 9. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
- AND SUBJECT TO LOCAL JURISDICTION.

 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 NORC
- 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).

 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 6 INCHES FROM "CLOSET STORAGE SPACE" AS DEFINED BY NEC ARTICLE 410.2.

 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 SHEAKER SHALL BE PERMITED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT SHEAKER SHALL BE PERMITED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT SHEAKER IS WITHIN SIGHT FROM THE WATER HEATER OF IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.

 HAVAC 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 HAVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS WHERE OTHER DISCONNECTING FRANCE.

 5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WARTICLES TIO.9 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.

 6. THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WARTICLES TIO.9 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.

 7. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE IN WEATHER INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.

 7. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTERCRY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PUG CAP IS INSERTED OR REMOVED. THE RECEPT ITSELF SHALL ALSO BE LISTED AS WEATHER RESISTANT AS PER NICE.

- 9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
- AUTOMATIC RECEPTACLE CONTROLS IF REQUIRED SHALL BE SITE INSTALLED PER THE REQUIRMENTS OF 2021 IECC SECTION C405.11.1 SUBJECT TO THE REVIEW AND APPROVAL OF AUTHORITY HAVING JURISDICTION.

EXT. DR. SPECIFICATIONS:

- MFTAI
- 2. SOLID STEEL
- 0.034SHGC = 0.25
- 5. SWINGING
- 6. MAX. ALLOWABLE AIR LEAKAGE RATE: 0.3 CFM

(PER SQ. FT. OF DOOR AREA)

WINDOW SPECIFICATIONS:

- 1. VINYL, LOW-E
- 2. VERTICAL SLIDER
- 3. DOUBLE PANE TINTED GLASS 4. Up = 0.29
- 5. SHGC = 0.24
- 6. VT = .45
- 7. MAX. ALLOWABLE AIR LEAKAGE RATE: 0.3 CFM

(PER SQ. FT. OF WINDOW AREA)

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.

ACCESSIBILITY NOTES:

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES APPLAYED INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
- 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.
- SHALL BE MADE FOR INDIVIOLALS WHO HAVE DIFFICULTY BENDING.

 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 EXCEDS 10 INCHES). SHELVES IN KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
- 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.
- 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 BO 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.
- EACED 3 LES. FOR ALL SIDING, FOLDING, AND INITION FINIONED DOORS.

 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 SHAL
 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.
- ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.

 8. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES, MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR WALL.
- ACCESSIBLE URINALS SHALL BE STALL—TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
- 10. ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. KNEE CLEARANCE OF AT MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE, AND 9 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE, THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
- 11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERMSE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
- 12. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESIBLE FAUCETS (I.E. LEVER-OPERATED PUSH TYPE, ELECTRONICALLY CONTROLLED).
- 13. MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
- 14. GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.2: INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
- 15. WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 36 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. 16. 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.
- 17. TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.
- 18 A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVTORIES

Electrical **Brian Washko P-187**

RADCO 26-Jun-25

James Slaght, MCP P-173, SMP 63 U02528

BUILDING DESIGN PARAMETERS USE/OCCUPANCY

VB NO 956 S.F. ≤15 FEET SPRINKLER SYSTEM: BUILDING AREA: BUILDING HEIGHT: NUMBER OF STORIES: NUMBER OF MODULES: OCCUPANT LOAD 10 BASED ON 100 SF/PERSON

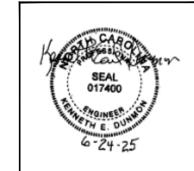
THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY NCBC 602 AND SECTION 705.3.

9. EXTERIOR WALL FIRE RATING: NOT RATED

ENGERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS. MANUFACTURERS DATA PLATE, STATE LABELS AND RADCO LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

CODE SUMMARY:								
STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILTY	ENERGY CODE		
N. CAROLINA	NCBC 2018 2018 NCFPC	2020 N.C. ELECT. CODE	2018 NCMC	2018 NCPC	NCBC 2018 CHPT. 11 AND ICC/ANSI A117.1-2009	2018 NC ENERGY CODE		

CONSULTING ENGINEER KENNETH EARL DUNMON - 195 TOMMY HOOKS RD. - AMERICUS, GEORGIA 31709 - 229-942-2020



162 INDUSTRIAL DRIVE (912) 632-3344 ALMA, GA 31510 APOLLO MODULAR SYSTEMS, INC. 2162 INDUSTRIAL BLVD. DOUGLAS, GA 31533 (912) 632-3344 DATE: 5-29-25

TITAN MODULAR SYSTEMS, INC.

THIRD PARTY: RADCO 5801 BENJAMIN CENTER, SUITE 102 TAMPA, FLORIDA 33634 813-243-0370 SCALE: NO SCALE

CODES: SEE NOTES REVISIONS STATES: NC. K.E.D. REFERENCE: 11778 TMS/AMS 11778 13'-8" x 70'-0" BUSINESS 1 OF 4 COVER SHEET

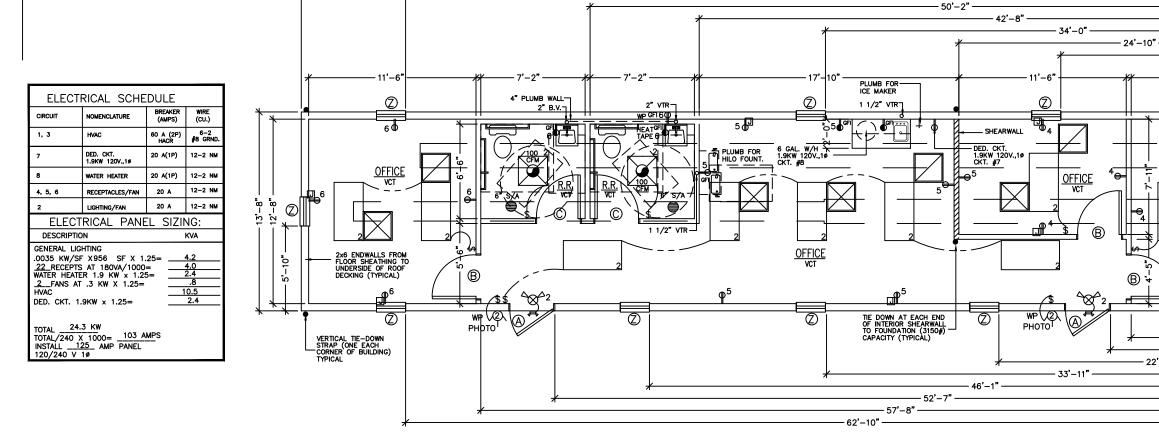
BUNI EVEL

THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING. PORTABLE FIRE EXTINGUISHER'S). BUILDING DRAINS, CLEANOUTS, DRINKING FOUNTAIN, HOCK-UP TO PLUMBING SYSTEM. 5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING. IHE BUILDING. 6. GLAZING OPENING PROTECTION—SEE GENERAL NOTE 10 7. GUTTER AND DOWN SPOUTS. 8. EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCY) 9. CONTROLED RECEPTACLES WHEN REQUIRED

ATTENTION LOCAL INSPECTIONS DEPARTMENT N.C. INSTALLATION INSTRUCTIONS ATTENTION LOCAL INSPECTIONS DEPARTMENT

SITE INSTALLED ITEMS

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY RADOO AND ARE NOT CETRIFIED 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

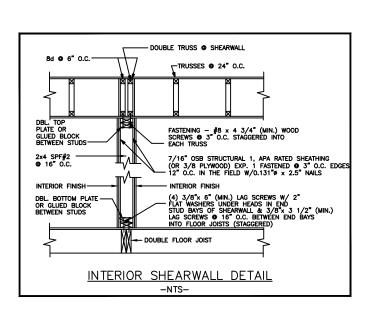


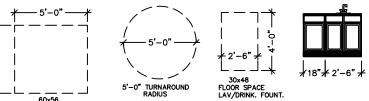
DWV RISER NOTES:

- . THE DWV RISER INDICATES ONE METHOD OF INSTALLING THE BELOW THE FLOOR PIPING. OTHER APPROVED METHODS MAY BE USED AS NEEDED TO ACCOMMODATE THE ACTUAL SITE CONDITIONS.
- 2. ALL BELOW FLOOR PIPING AND FITTINGS ARE TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS.
- 3. 1 1/2 INCH AND 2 INCH HORIZONTAL DRAIN LINES SHALL BE INSTALLED WITH A SLOPE OF 1/4 INCH PER FOOT. 4. 3 AND 4 INCH HORIZONTAL DRAIN LINES SHALL BE INSTALLED WITH A SLOPE OF 1/8 INCH PER FOOT.
- 5. BELOW FLOOR HORIZONTAL DRAIN LINES ARE 3 INCH MINIMUM DIAMETER UNLESS INDICATED OTHERWISE.
- INDICATED OTHERWISE.

 6. A MAXIMUM OF 3 WATER CLOSETS MAY DISCHARGE INTO A 3 INCH LINE.

 7. CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS AS INDICATED IN TABLE 706.3. VERTICAL TO HORIZONTAL AND HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION ARE TO BE MADE WITH LONG SWEEP FITTINGS.





FLOOR SPACE WC

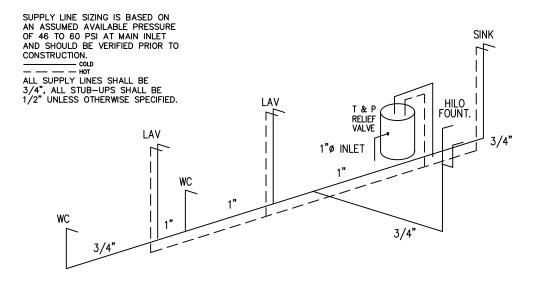
DOOR SCHEDULE 3680 — STEEL DOOR W/10"X10" SAFETY VISION PANEL — STEEL JAMB — CLOSER — KEYED LEVER 3680 - SOLID CORE - FLUSH DOOR STEEL JAMB - LEVER/PASSAGE В 3680 - SOLID CORE - FLUSH DOOR STEEL JAMB - LEVER/PRIVACY С

- 70'-0"

- 62'-10"

WINDOW SCHEDULE

24W x 54H VERTICAL SLIDER DP 50 INSULATED LOW-E TINTED GLASS WHITE VINYL FRAME - VINYL MINI BLINDS

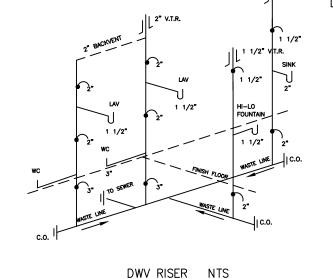


-NTS-

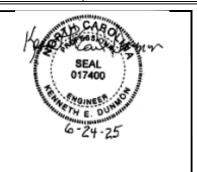
SUPPLY RISER

Electrical **Brian Washko P-187** RADCO 26-Jun-25

James Slaght, MCP P-173, SMP 63 U02528



CONSULTING ENGINEER KENNETH EARL DUNMON - 195 TOMMY HOOKS RD. - AMERICUS, GEORGIA 31709 - 229-942-2020



– 17'–10" ·

₫4

OFFICE VCT

Ø

14'-5"

- 22'-1"

- 13'-0"

— 6'−2"

125 AMP E.P. 120/240V.,1ø

TITAN MODULAR SYSTEMS, INC. 162 INDUSTRIAL DRIVE ALMA, GA 31510 (912) 632-3344

APOLLO MODULAR SYSTEMS, INC. 2162 INDUSTRIAL BLVD.

SYMBOLS J-BOXES ONLY

FIRE ALARM PULL STATION

FIRE ALARM HORN/STROB

FIRE ALARM STROBE LIGHT

JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)

SMOKE DETECTOR

DUPLEX RECEPTACLE 120 V.

LED PORCH LIGHT WITH 1-11 W. BULB

COMB. VENT FAN & LIGHT

SUPPLY AIR REGISTER

THERMOSTAT

RETURN AIR REGISTER

LED LIGHT FIXTURE

EXIT/EMERGENCY COMBO W/BATTERY BACKUP

EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP

EXIT/EMERGENCY COMBO W/BATTERY BACKUP

EXIT SIGN W/BATTERY BACKUP

LED EMERGENCY LIGHT WITH BATTERY BACKUP

TELEPHONE JACK

\$\$ SWITCH & 3 WAY SWITCH AUTO SHUT-OFF SEE ELECTRICAL NOTES 11

OS OCCUPANCY SENSOR

FIRE EXTINGUISHER

WITH 16W PANEL

SINGLE RECEPTACLE 240 V.

J

(3)

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EXIT

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LINE PLENUM W/ 1/2" GYP. BOARD (TYPICAL)

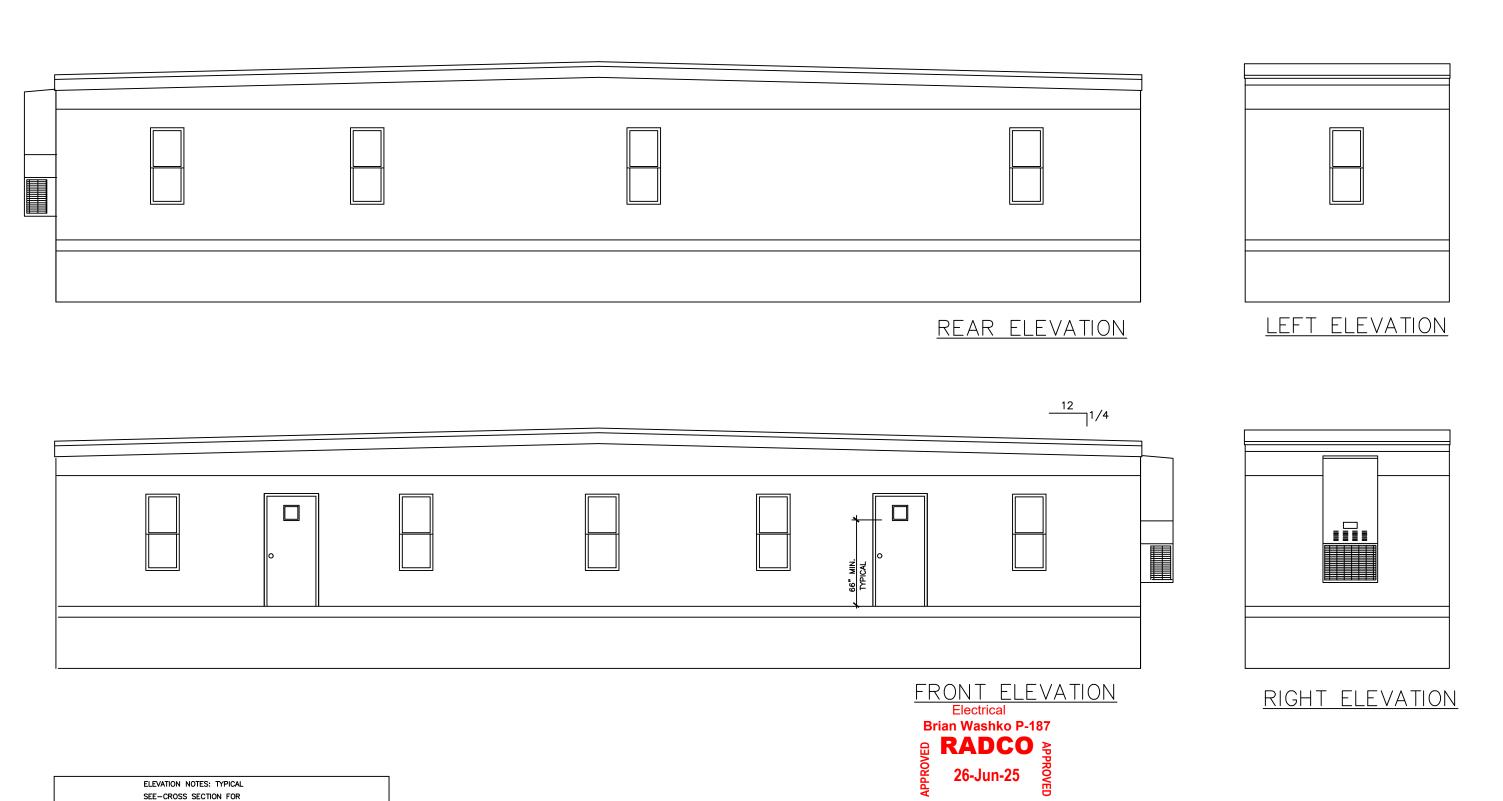
8x18 OVERHEAD FIBERGLASS DUCT W/24"x24" R/A GRILLE STUBBED DOWN INTO PLENUM (TYP.)

3 TON HVAC W/10 KW HEAT STRIP 1150 CFM @ .15 IWC ESP 240 V. 10 HVAC UNIT PROVIDED W/ FRESH AIR INTAKE. CKT# 1,3A

| 1 1/2" V.T.R.

DOUGLAS, GA 31533 (912) 632-3344

ı	DATE: 5-29-25	THIRD PARTY: RADO	×o	
ı	SCALE: NO SCALE	TAMP	BENJAMIN CENTER, S A, FLORIDA 33634	UITE 102
ı	CODES: SEE NOTES	813-	-243-0370	
ı	STATES: NC.	REVISIONS:		BY:
ı	REFERENCE: 11778			K.E.D.
		'AMS 11778 70'-0" BUSIN	NESS	SHEET
ı	FLOOR PLAN		DESTINATION:	2 OF



ELEVATION NOTES: TYPICAL SEE-CROSS SECTION FOR METHOD OF ROOF VENTILATION

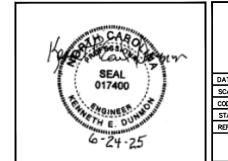
ACCESSIBLE RAMP(S), STAIR(S), AND HANDRAILS ARE SITE INSTALLED, DESIGNED BY OTHERS, AND SUBJECT TO LOCAL JURISDICTION.

FOUNDATION ENCLOSURE
(WHEN PROVIDED) MUST HAVE
1 SQUARE FOOT NET VENT AREA
PER 1/15OTH OF THE FLOOR AREA,
AND AN 18" X 24" MINIMUM CRAWL
SPACE ACCESS, SITE INSTALLED BY
OTHERS SUBJECT TO LOCAL
JURISDICTION.

ELEVATIONS SHOWN ON THIS PAGE
REPRESENT BASIC COMPONENTS & ARE
NOT INTENEDED TO BE ALL INCLUSIVE
NOR DO THESE ELEVATIONS DETAIL EVERY
CODE REQUIRED ASPECT OF THIS BLDG..
SITE BUILT STOOPS, STEPS, DECKS,
PORCHES, HANDRAILS AND/OR SIMILAR
ITEMS MUST BE PROVIDED BY OTHERS ON
SITE FOR COMPLIANCE WITH APPLICABLE
CODES. COMPLIANCE WITH ALL APPLICABLE
CODES PER LOCAL AUTHORITY HAVING
JURISDICTION, WHETHER DETAILED IN THIS
SET OR NOT, MUST BE MET

James Slaght, MCP P-173, SMP 63 U02528

CONSULTING ENGINEER KENNETH EARL DUNMON -



_	195	TOMMY	HOOKS	RD	AMERICUS,	GEORGIA	31709	-	229-942-202
	Г	T	ITAN	I M(DULAI	R SYS	ГЕМ	S, I	NC.

162 INDUSTRIAL DRIVE ALMA, GA 31510 (912) 632-3344 APOLLO MODULAR SYSTEMS, INC.

2162 INDUSTRIAL BLVD. DOUGLAS, GA 31533 (912) 632-3344

	•	•	
ATE: 5-29-25	THIRD PARTY: RAD	co	
CALE: NO SCALE	580 TAM	1 BENJAMIN CENTER, S PA. FLORIDA 33634	UITE 102
ODES: SEE NOTES	813	-243-0370	
TATES: NC.	REVISIONS:		BY:
EFERENCE: 11778			K.E.D.
TMS/	SHEET		
	70'-0" BUSI	NESS	7 05 4
LEVATIONS		DESTINATION: BUNLEVEL	3 OF 4

INTERIOR FINISH MATERIAL:

CEILING - T-GRID CEILING INSTALLED PER MANUFACTURERS

SPECIFICATIONS,

NOTE:

WALLS - 5/8" TYPE 'X' GYPSUM BOARD (VCG THROUGHOUT) INSTALLED

PÉR MANUFACTURERS SPECIFICATIONS

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

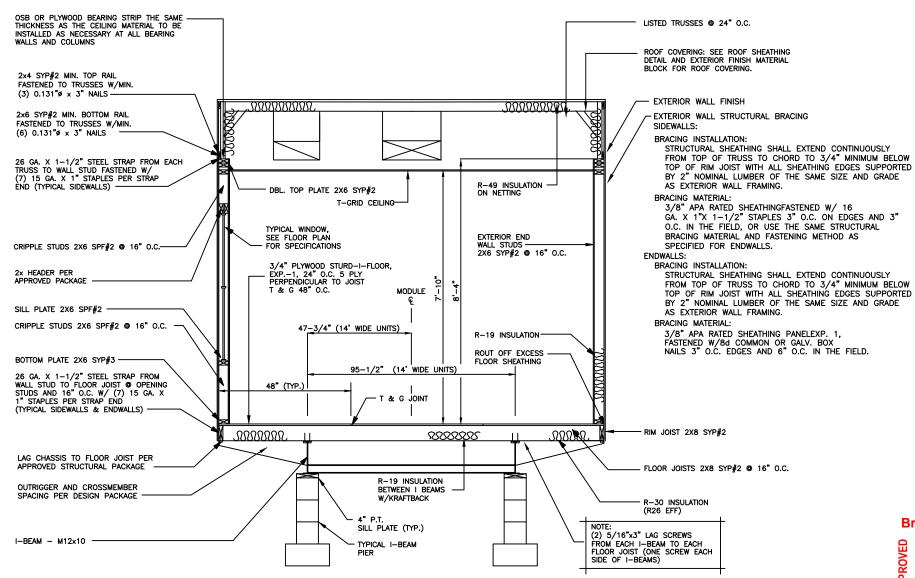
- INTERIOR FINISHES SHALL BE CLASS 'A' FOR EXITS AND OTHER THAN EXITS SHALL BE 'A' OR 'B'

EXTERIOR FINISH MATERIAL:

ROOF - MULE-HIDE 45 MIL (BLACK) EPDM (ESR-1463) FULLY ADHERED TO 7/16" OSB OR 1/2" PLYWOOD WITH MULE-HIDE FR ADHESIVE IN ACCORDANCE WITH INTERTEK REPORT CCCR-1078 (CLASS C ROOF)

WALL - 7/16" HARDI PANEL (SIERRA) SIDING OVER APPROVED MOISTURE BARRIER INSTALLED PER MANUFACTURERS SPECIFICATIONS

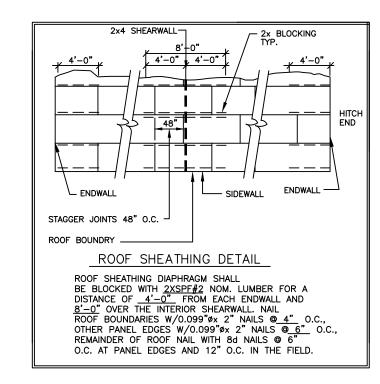
SEE MECHANICAL NOTES AND FLOOR PLAN FOR CEILING DUCT SPECIFICATIONS

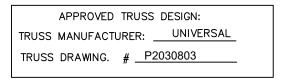


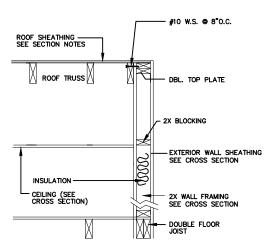
Electrical
Brian Washko P-187

RADCO
RADCO
26-Jun-25

James Slaght, MCP P-173, SMP 63 U02528







BALLOON END WALL DETAIL

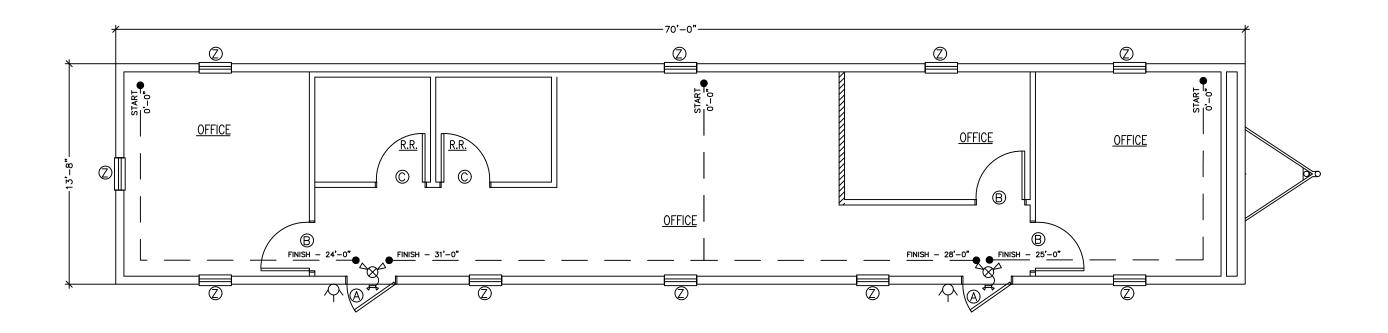
CONSULTING ENGINEER | KENNETH EARL DUNMON - 195 TOMMY HOOKS RD. - AMERICUS, GEORGIA 31709 - 229-942-2020



TITAN MODULAR SYSTEMS, INC. 162 INDUSTRIAL DRIVE ALMA, GA 31510 (912) 632-3344 APOLLO MODULAR SYSTEMS, INC. 2162 INDUSTRIAL BLVD. DOUGLAS, GA 31533 (912) 632-3344 DATE: 5-29-25 THIRD PARTY: RADCO 5801 BENJAMIN CENTER, SUITE 102 TAMPA, FLORIDA 33634 813-243-0370 SCALE: NO SCALE CODES: SEE NOTES REVISIONS STATES: NC. K.F.D. REFERENCE: 11778 TMS/AMS 11778 13'-8" x 70'-0" BUSINESS OF 4 DESTINATIO CROSS SECTION BUNLEVEL

GENERAL CROSS-SECTION NOTES:

- 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 $F_{YR} = 60$ KSI MINIMUM.
- SEE FOUNDATION PLAN FOR PIER AND TIE—DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.



	DOOR SCHEDULE
Α	3680 — STEEL DOOR W/10"X10" SAFETY VISION PANEL — STEEL JAMB — CLOSER — KEYED LEVER
J	3680 - SOLID CORE - FLUSH DOOR

B STEEL JAMB - LEVER/PASSAGE

3680 - SOLID CORE - FLUSH DOOR STEEL JAMB - LEVER/PRIVACY

WINDOW SCHEDULE

24W x 54H VERTICAL SLIDER DP 50 INSULATED LOW-E TINTED GLASS WHITE VINYL FRAME - VINYL MINI BLINDS

Electrical

Brian Washko P-187 RADCO PROPERTY OF THE PROPERTY

James Slaght, MCP P-173, SMP 63 U02528

LIFE SAFETY PARAMETERS

- USE/OCCUPANCY: BUSINESS
 AREA: 957 S.F.
 OCCUPANT LOAD:

OCCUPANT LOAD 10 BASED ON 100 SQ/FT PERSON

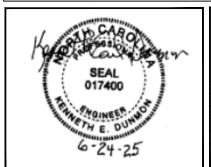
NOTE: EACH EXIT DOOR IS ABLE TO ACCOMMODATE:

36x80 DOOR: 32" CLEAR WIDTH EACH DOOR 32/0.20 = 160 EACH (2) TOAL DOORS 320 PERSON TOTAL CAPACITY

MAXIMUM TRAVEL DISTANCE: 75 FT FOR SGL. EXIT BUILDING

NUMBER OF EXITS: REQUIRED: PROVIDED: 1 2

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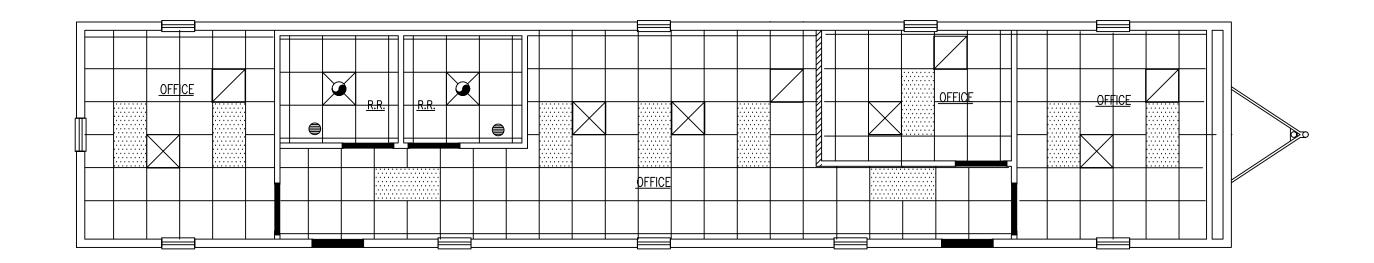
TITAN MODULAR SYSTEMS, INC. 162 INDUSTRIAL DRIVE ALMA, GA 31510 (912) 632-3344

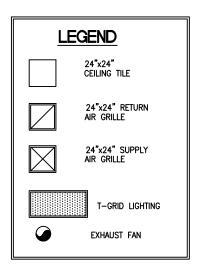
APOLLO MODULAR SYSTEMS, INC.
2162 INDUSTRIAL BLVD.
DOUGLAS, GA 31533 (912) 632–3344

DATE: 5-29-25

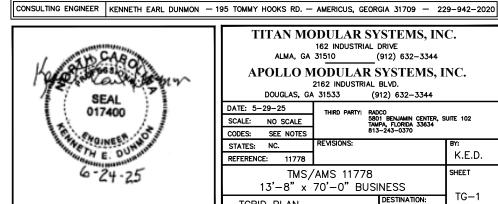
SCALE: NO SCALE CODES: SEE NOTES STATES: NC. K.E.D. REFERENCE: 11778 TMS/AMS 11778 13'-8" x 70'-0" BUSINESS SHEET

DESTINATION: BUNLEVEL LS-1 LIFE SAFETY





Electrical Brian Washko P-187 RADCO POR SOLUTION POR SOLUTION PROPERTY OF THE PROPERTY OF TH James Slaght, MCP P-173, SMP 63 U02528



TITAN MODULAR SYSTEMS, INC. 162 INDUSTRIAL DRIVE ALMA, GA 31510 (912) 632-3344 APOLLO MODULAR SYSTEMS, INC. 2162 INDUSTRIAL BLVD.
DOUGLAS, GA 31533 (912) 632–3344 DATE: 5-29-25 SCALE: NO SCALE CODES: SEE NOTES STATES: NC. REVISIONS: K.E.D. REFERENCE: 11778

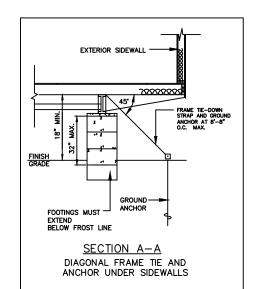
> TMS/AMS 11778 13'-8" x 70'-0" BUSINESS

TGRID PLAN

SHEET

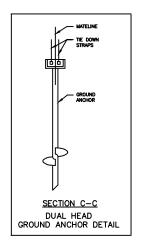
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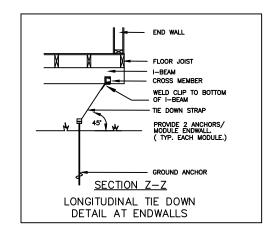
DESTINATION: BUNLEVEL



ALL POINTS ALONG I-BEAM SHALL BE WITHIN HALF OF THE SPECIFIED DIMENSIONS OF THE STRAP/ANCHOR LOCATIONS

THE FIRST STRAP/ANCHOR LOCATION FROM EACH END WALL SHALL NOT EXCEED HALF OF THE SPECIFIED DIMENSIONS AT END WALLS



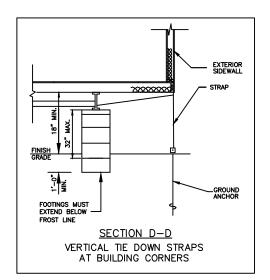


NOTE:

THIS REFERENCED FOUNDATION AND ANCHORAGE PLAN IS DESIGNED FOR GRAVITY AND WIND LOADS ONLY. A SITE SPECIFIC FOUNDATION PLAN AND ANCHORAGE PLAN FOR THE SPECIFIC BUILDING SITE AND DESIGN CONDITIONS MUST BE DESIGNED BY A LICENSED ENGINEER AND SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL

NOTE:

THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY.



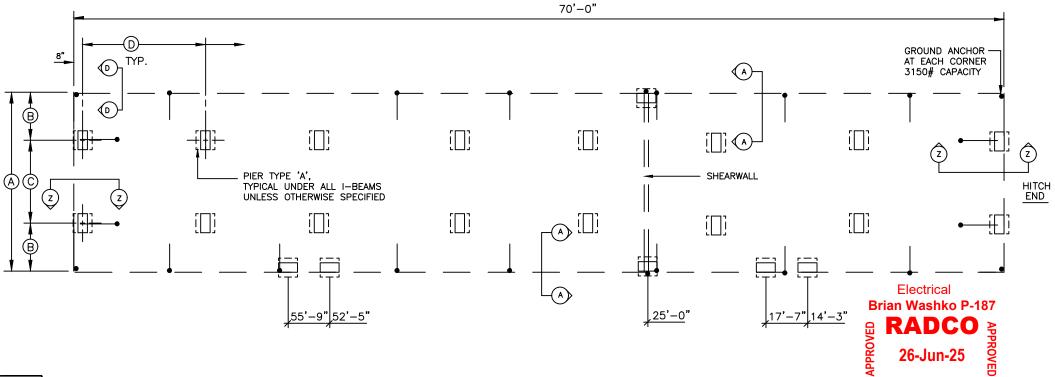
James Slaght, MCP P-173, SMP 63

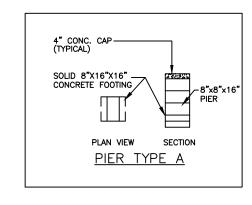
U02528

FOUNDATION NOTES:

- ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
- 2. TIE-DOWN STRAPS TO BE 1-1/4"x .035" TYPE-1, FINISH B, GRADE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953-91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY.
- SHALL HAVE STOP MINIMOM WORKING CAPACITY.

 S. EACH GROUND ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TIE DOWN STRAPS CONNECTED TO THE GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIMMETER OF HELIXES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
- 4. THE FIRST TIE-DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 12".
- 5. ALL PIERS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE.
- 6. MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
- ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
- 8. SEE SHEET 1 OF 4 FOR BUILDING DESIGN LOADS.
- 9. I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90' FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE.
- 10. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
- 11. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
- 12. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION
- 13. THE FOUNDATION DIMENSIONS SHOWN ARE NOMINAL AN INCREASE IN MODULE WIDTH SHOULD BE EXPECTED DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PROIR TO CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ABOVE.





FOUNDATION ENCLOSURE (WHEN PROVIDED)
MUST HAVE 1 SQ. FOOT NET VENT AREA
PER 1/150TH OF THE FLOOR AREA, AND AN
18" X 24" MINIMUM CRAWL SPACE ACCESS
SITE INSTALLED BY OTHER, SUBJECT TO LOCAL

FOUNDATION DIMENSIONS

A MODULE WIDTH		PIER TO MODULE EDGE	C STEEL BEAM SPACING
13'-8"		34 1/4"	95 1/2"
D MAXIMUM PIER SPACING		MINIMUM SOIL BEARING CAF	_
5'-0" 7'-8"		2000 PSF 3000 PSF	

NOTE:
THE NUMBER OF PIERS SHOWN ON THIS FOUNDATION
PLAN IS NO INDICATION OF THE AMOUNT OF PIERS
REQUIRED AND NEEDED FOR THIS BUILDING, SEE
MAXIMUM PIER SPACING CHARTS ABOVE FOR
HE CORRECT NUMBER OF PIERS REQUIRED FOR
EACH SOIL BEARING CAPACITY. ALSO THE NUMBER
STRAPS (SPACING) WILL BE DETERMIND IN SECTION
A-A. THE NUMBER OF ALL COMPONENTS OF THIS
FOUNDATION PLAN CAN BE FOUND IN THE CHARTS
AND DTAILS ABOVE.

NOTICE TO FOUNDATION CONTRACTOR:

NOTICE TO FOUNDATION CONTRACTORS:

ALL DIMENSIONS, DETAILS AND NOTES ON THIS FOUNDATION PLAN MUST BE REVIEWED AND VERIFIED BY THI FOUNDATION CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE FOUNDATION. ANY APPARENT CONFLICTS, ERRORS OR OMISSIONS MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL FOR RESOLUTION PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR MUST OBTAIN APPROVAL OF THE FOUNDATION PLAN FROM THE LOCAL BUILDING DEPARTMENT PRIOR TO COMMENCING CONSTRUCTION AND MUST COMPLY WITH ALL STATE AND LOCAL CODE, APPROVAL AND AND INSPECTION REQUIREMENTS. EMM IS MOT THE DESIGNER OF THE BUILDING OR THE FOUNDATION AND IS MOT RESPONSIBLE OR LIBBLE FOR ANY CONFLICTS, ERRORS, OMMISSIONS OR FAILURES TO COMPLY WITH STATE ON LOCAL CODES.

TYPICAL FOUNDATION LAYOUT SHOWN IS TO AID THE SITE ENGINEER/ARCHITECT FOR ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE LOADS. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHMOR THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGTUDINAL SHEAR, UPLIET AND DOWNWARD FORCES IN BOTH DIRECTIONS. TYPICAL FOUNDATION IS NOT INTENDED TO BE ALL INCLUSIVE, NOT DOES THIS SET DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING, COMPLANCE WITH ALL APPLICATED CODES PEN SILOCAL AUTHORITY HAVING JURISDICTION WHETHER DETAILED IN THIS SET OR NOT MUST BE MET.

CONSULTING ENGINEER KENNETH EARL DUNMON — 195 TOMMY HOOKS RD. — AMERICUS, GEORGIA 31709 — 229-942-2020



TITAN MODULAR SYSTEMS, INC.

162 INDUSTRIAL DRIVE ALMA, GA 31510 (912) 632-3344

APOLLO MODULAR SYSTEMS, INC.

2162 INDUSTRIAL BLVD.

DOUGLAS, GA	31533 (9	12) 632–3344		
DATE: 5-29-25	THIRD PARTY: RAD	co		
SCALE: NO SCALE	580	1 BENJAMIN CENTER, S PA. FLORIDA 33634	UITE 102	
CODES: SEE NOTES	813	813-243-0370		
STATES: NC.	REVISIONS:		BY:	
REFERENCE: 11778			K.E.D.	
TMS/	SHEET			
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FOUNDATION	1 01 1			