

May 1, 2025

Modular Connections, LLC
1090 Industrial Blvd
Bessemer, AL 35022

RE: MFT-4193-MCP1410-FL

NTA JOB NUMBER: MCL040125-97

Dear Mr. Chad Pearson,

The referenced manufactured building has been reviewed and approved. ICC-NTA LLC certifies this plan is in compliance with 8TH Edition (2023) Florida Codes with 2024 Supplement 1-as referenced in the approved drawings. This approval covers the factory build structure only. Any alterations to the factory-built structure, on site, voids the approval. This plan is subject to the following limitations:

1. Signed and sealed plans are on file with ICC NTA, LLC
2. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
3. Items installed on site are subject to review and approval by the local authority having jurisdiction. Please reference the list of site installed items on the approved plans.
4. This review included products for compliance with 553.8425 or FAC Chapter 61G20-3.
5. This building is **NOT** designed for HVHZ.

If you have any additional questions or comments regarding this matter, please contact me at your convenience at (574) 773-7975.

Respectfully,

Michael Faller

Michael Faller SMP-056
Account Manager
ICC NTA, LLC



A MEMBER OF THE ICC FAMILY OF SOLUTIONS

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:



Const. Type: VB
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 150 MPH Valt
Fire Rating of Ext. Walls: 0
Plan No.: MFT-4193-MCP1410
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC

License No. MFT-4193

Address 1090 Industrial Blvd., Bessemer, AL 35022


PRODUCT APPROVAL SPECIFICATION SHEET

Manufacturer: Modular Connections, LLC **Plan #:** MFT-4193-MCP1410

As required by Florida Statute 553.842 and Florida Administrative Code 61G20-3.006 please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the manufactured building for which you are applying for a DBPR insignia. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org.

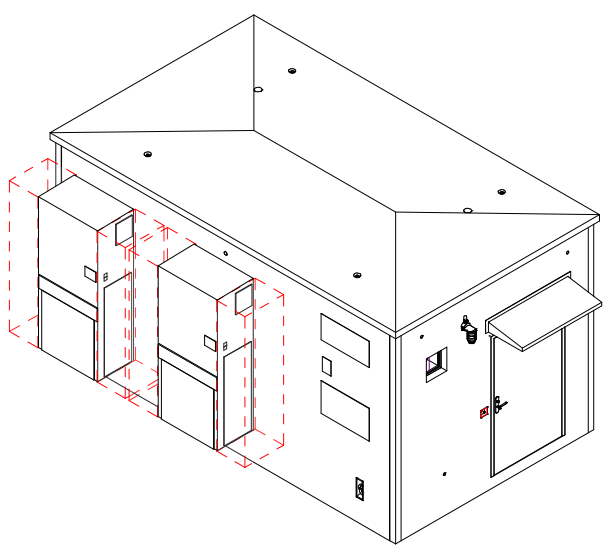
Category	Manufacturer	Product Description	Approval #(s)
EXTERIOR DOORS			
Swinging	Ceco Door Products	Door/Door Frame	FL4553 R15
Sliding			
Sectional			
Roll-up			
Automatic			
Other			
WINDOWS			
Single Hung			
Horizontal Slider			
Casement			
Double Hung			
Fixed			
Awning			
Pass-through			
Projected			
Mullion			
Wind Breaker			
Dual Action			
Other			
PANEL WALL			
Siding			
Soffits			
EIFS			
Storefronts			
Curtain Walls			
Wall Louver	United Entertech	WALL LOUVER	FL41627_R1
Glass Bloc			

PRODUCT APPROVAL SPECIFICATION SHEET

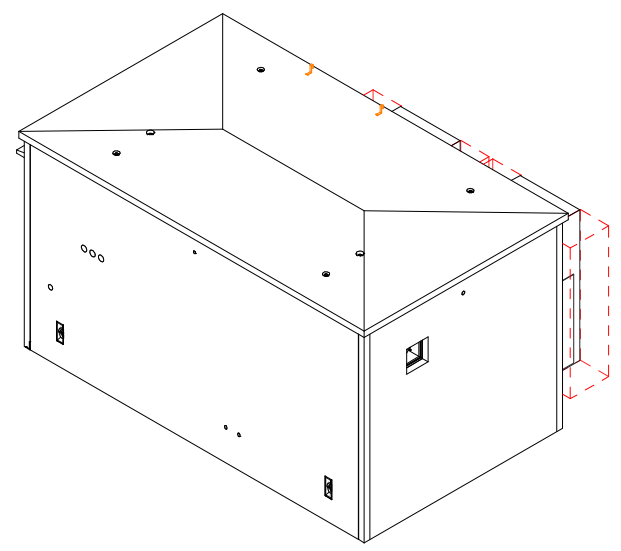
Category	Manufacturer	Product Description	Approval #(s)
STRUCTURAL COMPONENTS		<div><div>These prints comply with the</div><div>Block Manufacturing Building</div><div>Act and adopted Codes and</div><div>adhere to the following criteria:</div><div>APPROVED BY</div><div></div></div> <div><div>Const. Type:</div><div>VB</div><div>Allowable No.</div><div>83</div><div>of Floors:</div><div>1</div><div>Wind Velocity:</div><div>150 MPIL Valt</div><div>Fire Rating of</div><div>Ext. Walls:</div><div>0</div><div>Min. Ribs:</div><div>200</div><div>Allow. Floor Load:</div><div>500</div><div>Approval Date:</div><div>5/7/2025</div><div>Manufacturer:</div><div>Modular Connections, LLC</div></div>	
	Wood Connector / Anchor		
	Truss Plates		
	Engineered Lumber		
	Railing		
	Coolers & Freezers		
	Concrete Admixtures		
	Material		
	Insulation Forms		
	Plastics		
	Deck & Roof		
	Wall		
	Sheds		
	Other		
NEW EXTERIOR ENVELOPE PRODUCTS			
Wood Construction Connectors (cont.)			
<p>The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector at the manufacturing plant: (1) Copy of the product approval from the Local or State Building Commission, or supply all of the information listed on Form No. 9B-72.130(5). (2) Copy of the applicable manufacturers' installation requirements.</p> <p>I understand these products may have to be removed if approval cannot be demonstrated during inspection.</p>			
<div><div>Chad Pearson</div><div><div>Digitally signed by Chad Pearson</div><div>DN: C=US, E=cpearson@modularconnections.com, O="Modular Connections, LLC", OU=VP Engineering & QA, CN=Chad Pearson</div><div>Date: 2025.03.31 11:18:41-05'00'</div></div></div>			
Manufacturer's Authorized Agent Signature		Printed Name	Date

DATE 5/1/2025 CERT. NO SMP-056
PLAN NUMBER MCL040125-97
APPROVED BY Michael Faller


(signature)




1 3D VIEW 1



2 3D VIEW 2

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
 NIA INC.

Const. Type:	N/B
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	150 MPH VgH
Fire Rating of Ext. Walls:	0
Plan No.:	MFC-4192-MCP1410
Allow. Floor Load:	7000
Approval Date:	5/1/2025
Manufacturer:	Modular Connections, LLC



MODULAR CONNECTIONS, LLC

CONCRETE BUILDING

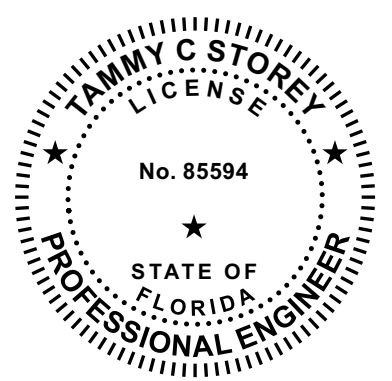
1090 INDUSTRIAL BLVD.
BESSEMER, AL 35022

PHONE: 205-980-4565
FAX: 877-675-5851

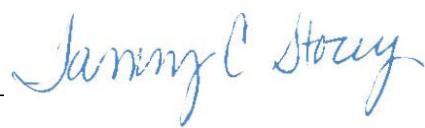
DRAWING INDEX (ELECTRICAL PERMITTING)


SHEET #	SHEET DESCRIPTION	REV. #	REV. DATE	REV. DESCRIPTION
EP0.0	COVER PAGE			
G0.1	PROJECT DATA			
G0.2	GENERAL SPECIFICATIONS			
EP0.3	EQUIPMENT LIST			
EP0.4	ELECTRICAL ABBREVIATIONS & SYMBOLS LEGEND			
EP1.0	WIRING PLAN (FLOOR)			
EP1.1	WIRING PLAN (CEILING)			
EP1.2	MDP PANEL SCHEDULE			
EP1.3	INV-1 PANEL SCHEDULE			
EP1.4	AC WIRING DIAGRAM(S)			
EP2.0	ENDWALL PANEL A (EXTERIOR)			
EP2.1	SIDEWALL PANEL B (EXTERIOR)			
EP2.2	ENDWALL PANEL C (EXTERIOR)			
EP2.3	SIDEWALL PANEL D (EXTERIOR)			
Grand total: 14				

STATE: FLORIDA

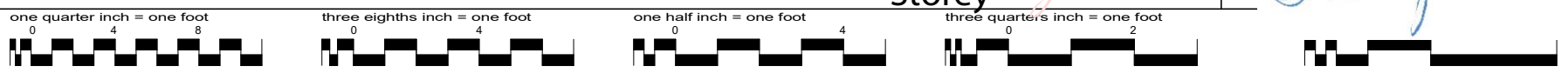


Tammy Storey
Digitally signed by Tammy Storey
Date: 2025.04.30 13:16:41 -04'00'



No. 		Date		By	
1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com		© MODULAR CONNECTIONS, LLC All Rights Reserved			
Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH					
Site: FORT WHITE, FLORIDA					
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24		
Drawing Number: D22119					
Sheet Name: COVER PAGE					
Project Number: MCP1410 - MC5116				Sheet Number: EP0.0	

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PROJECT DATA - FLORIDA

DESIGN CODES:

8TH EDITION (2023) FLORIDA BUILDING CODE W/ 2024 SUPPLEMENT 1, 2, 3
8TH EDITION (2023) FLORIDA ENERGY CONSERVATION CODE W/ 2024 SUPPLEMENT 1 EXCEPTION C101.4.2.4 ITEM 4
8TH EDITION (2023) FLORIDA FUEL GAS CODE
2020 NATIONAL ELECTRIC CODE (NFPA 70)
8TH EDITION (2023) FLORIDA PLUMBING CODE W/ 2024 SUPPLEMENT 1
8TH EDITION (2023) FLORIDA MECHANICAL CODE W/ 2024 SUPPLEMENT 1 & 5
8TH EDITION (2023) FLORIDA BUILDING CODE: ACCESSIBILITY

DESIGN CODES
12" = 1'-0"

DESIGN LOADS:

FLOOR LIVE LOAD	200 PSF
FLOOR DEAD LOAD	56.3 PSF
ROOF LIVE LOAD	35 PSF
ROOF DEAD LOAD	46.7 PSF
RISK CATEGORY	II
GROUND SNOW LOAD	4 PSF
SNOW LOAD IMPORTANCE FACTOR	1
SNOW EXPOSURE FACTOR	1.2
THERMAL FACTOR	1.2
FLAT ROOF SNOW LOAD	4.1 PSF
WIND VELOCITY (3-SEC GUST, Vult)	150.00 MPH
WIND VELOCITY (3-SEC GUST, Vasd)	116.19 MPH
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	±0.18
WIND LOAD HORIZONTAL (MWFRS)	35.8 PSF
WIND LOAD (UPLIFT) (MWFRS)	53.5 PSF
WIND LOAD HORIZONTAL (C & C, ZONE 4)	53.3 PSF
WIND LOAD HORIZONTAL (C & C, ZONE 5)	65.8 PSF
WIND LOAD (UPLIFT) (C & C, ZONE 1)	78.2 PSF
WIND LOAD (UPLIFT) (C & C, ZONE 2)	103.2 PSF
WIND LOAD (UPLIFT) (C & C, ZONE 3)	140.7 PSF
WIND LOAD HORIZONTAL (C & C, ZONE 4, Vasd)	32 PSF
WIND LOAD HORIZONTAL (C & C, ZONE 5, Vasd)	39.5 PSF
SEISMIC IMPORTANCE FACTOR	1
SPECTRAL RESPONSE ACCELERATION S _{DS}	0.09
SPECTRAL RESPONSE ACCELERATION S _{D1}	0.08
SEISMIC DESIGN CATEGORY	B
SITE CLASS	D
BASIC SEISMIC-FORCE RESISTING SYSTEM	A.5 - BEARING WALL SYSTEMS - INTERMEDIATE PRECAST SHEAR WALLS
DESIGN BASE SHEAR	0.02W
ANALYSIS PROCEDURE	EQUIVALENT LATERAL-FORCE PROCEDURE
OCCUPANCY USE GROUP	S2
CONSTRUCTION TYPE	VB
MINIMUM SETBACK	SEE NOTES FOR A COMMON OR ASSUMED PROPERTY LINE TO COMPLY WITH IBC

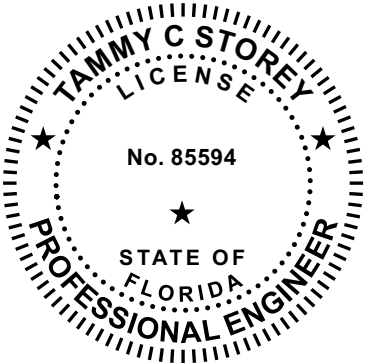
DESIGN LOADS
12" = 1'-0"

NOTES:

- THE INTENDED OCCUPANCY OF THIS EQUIPMENT BUILDING IS FOR PERFORMING THE REQUIRED SERVICE/MAINTENANCE OF EQUIPMENT ONLY.
- PER IBC, 4" SAND-LIGHTWEIGHT CONCRETE WALLS HAVE FIRE RESISTANCE RATING OF 2 HOURS WITH UNPROTECTED OPENINGS.
- ALL SETBACK REQUIREMENTS SHALL CONFORM TO THE REFERENCED IBC AND LOCAL CODE REQUIREMENTS.
- THIS BUILDING IS REQUIRED TO BE CONNECTED TO PUBLIC UTILITIES.
- THE USE OF THIS BUILDING WITHOUT RESTROOM FACILITIES IS SUBJECT TO LOCAL REVIEW AND APPROVAL.
- THESE PLANS COMPLY WITH RULE 61G20-3.006 (PRODUCT APPROVAL) PROCEDURES OR SAFETY PRECAUTIONS.
- THE SEALED SET OF PLANS ARE ON FILE IN THE THIRD AGENCY'S OFFICE AS DIRECTED BY DBPR.
- THIS BUILDING IS NOT APPROVED FOR CHAPTER 633 FIRE SAFETY CODE AND IS SUBJECT TO REVIEW AND INSPECTION BY FIRE INSPECTOR ON SITE.
- BUILDINGS IN COASTAL AREAS THAT ARE SUBJECT TO SALT WATER SPRAY SHALL HAVE THE CONCRETE AT A MINIMUM OF 5000PSI @ 28 DAYS.
- PLACEMENT OF THE PROJECT DATA PLATE AND THE DBPR INSIGNIA MUST BE ON OR NEAR THE MAIN ELECTRICAL PANEL.
- THESE STRUCTURES ARE NOT DESIGNED OR APPROVED FOR PLACEMENT IN HIGH-VELOCITY HURRICANE ZONES (HVHZ), IE. DADE OR BROWARD COUNTIES.
- THESE STRUCTURES HAVE BEEN DESIGNED FOR ERECTION OR INSTALLATION ON A SITE-BUILT PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.
- MODULAR CONNECTIONS FLORIDA CERTIFICATION ID MFT-4193.
- THESE STRUCTURES ARE NOT DESIGNED FOR FLOOD HAZARD AREAS.
- THIS BUILDING IS NOT DESIGNED FOR OCCUPANCY EXCEPT FOR SHORT DURATIONS OF MONITORING, SERVICE, OR MAINTENANCE OF EQUIPMENT ONLY. LIGHTING IS FOR THE SAFETY AND SECURITY OF THE OCCUPANT(S) DURING THESE SHORT DURATIONS WHILE WORKING ON EQUIPMENT. THE 2023 FECC C4053231 REQUIREMENT FOR OCCUPANCY SENSOR CONTROLS WOULD NOT BE APPLICABLE. C101.3 2023 FECC STATES THAT THE INTENT IS NOT TO ABRIDGE SAFETY, HEALTH, OR ENVIRONMENTAL REQUIREMENTS CONTAINED IN OTHER APPLICABLE CODES OR ORDINANCES. SECTION 110.26 NEC 2020 SUBSECTION (D) STATES ILLUMINATION SHALL BE PROVIDED FOR ALL WORKING SPACES ABOUT SERVICE EQUIPMENT, SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, OR MOTOR CONTROL CENTERS INSTALLED INDOORS AND SHALL NOT BE CONTROLLED BY AUTOMATIC MEANS ONLY.

SITE WORK, FOUNDATION CONSTRUCTION, BUILDING CONNECTIONS TO UTILITIES, ETC. ARE NOT INSPECTED BY A THIRD PARTY. THESE ITEMS ARE SUBJECT TO CODE REVIEW/COMPLIANCE WITH THE AUTHORITY(S) HAVING JURISDICTION.

STATE: FLORIDA



Tammy C Storey

No. Revision Description

Date

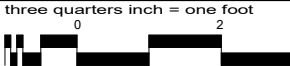
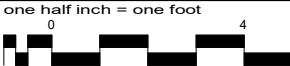
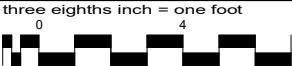
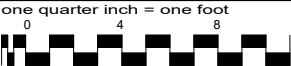
By

1090 Industrial Blvd.
Bessemer, AL 35022
Ph# 205-980-4565
Email: info@modularconnections.com

MODULAR CONNECTIONS, LLC
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Title:			
PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site:			
FORT WHITE, FLORIDA			
Drawn By:	Checked By:	Project Manager:	Date:
KML	CLP	CLP	08/30/24
Drawing Number:			
D22119			
Sheet Name:			
PROJECT DATA			
Project Number:		Sheet Number	
MCP1410 - MC5116		G0.1	

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GENERAL SPECIFICATIONS

1. **SCOPE**

A. THE SPECIFICATIONS CONTAINED HEREIN ENCOMPASS THE LABOR, EQUIPMENT AND MATERIALS FOR THE FABRICATION OF A TRANSPORTABLE, BULLET RESISTANT, VANDAL RESISTANT CONCRETE EQUIPMENT BUILDING.

B. THE BUILDING SHALL WITHSTAND 30/06 RIFLE FIRE AT 15' DISTANCE PER UL752 STANDARDS.
2. **GENERAL**

A. BUILDING TYPE:

a. THE BUILDING SHALL BE PRECAST, PRE-ASSEMBLED CONCRETE.

B. BUILDING SIZES:

a. PER BUILDING SIZE SCHEDULE.

C. OPERATING ENVIRONMENT:

a. THE BUILDING SHALL BE SEALED TO RESIST DUST INFILTRATION AND BE WATERTIGHT.

D. DESIGN LOADING:

a. SEE SHEET G0.1.

E. LOCATE STATE DECAL AT LOAD DISTRIBUTION PANEL.
3. **SEALING**

A. JOINTS:

a. ALL JOINTS SHALL BE SEALED WITH A COMPRESSIBLE, RESILIENT SEALANT.

b. THERE SHALL BE NO EXPOSED ROOF TO WALL OR WALL TO FLOOR JOINTS.

B. EXTERIOR WALLS AND ROOF:

a. EXTERIOR SURFACES OF WALLS AND ROOF SHALL BE SEALED WITH TWO COATS OF THOROGLAZE H SEALER, OR ACCEPTABLE EQUAL IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.
4. **THERMAL**

A. THERMAL INSULATION REQUIREMENTS SHALL MEET THE MINIMUM REQUIREMENT PER DESIGN CODES ON SHEET G0.1.

B. ADDITIONAL REQUIREMENT REFER TO INTERIOR FINISH SHEETS.
5. **DOOR**

A. GENERAL:

a. DOOR OPENING 4'-0"W X 7'-0"H.

B. FRAME:

a. SHALL BE MINIMUM 1 3/4" 18 GAUGE GALVANIZED STEEL, PRIMED, PAINTED, AND CAST INTO THE WALL PANEL.

C. DOOR:

a. SHALL BE MINIMUM 1 3/4" 18 GAUGE GALVANIZED STEEL, INSULATED, PRIMED, PAINTED, AND INSTALLED FLUSH.

D. HARDWARE:

a. INSTALLED WITH DOOR CHECK, DOOR STOP, WEATHER STRIPPING, MORTISE LOCKSET, AND STAINLESS STEEL BALL BEARING HINGES.

E. ADDITIONAL REQUIREMENTS REFER TO WALL PANEL SHEETS.

F. OPTIONAL BULLET RESISTENT, FIRE RESISTENT, ETC. DOOR ASSEMBLIES ARE AVAILABLE.S.
6. **INTERIOR FINISHES:**

A. SEE INTERIOR FINISH SHEETS.SHEETS.
7. **STRUCTURAL**

A. STRUCTURAL DESIGN AND MANUFACTURING SHALL CONFORM TO REQUIREMENTS OF ACI 318.

B. BUILDING CONCRETE SPECIFICATIONS:

a. 28 DAY COMPRESSIVE STRENGTH SHALL BE 5000 PSI.

b. MIX DESIGN SHALL BE 118 LB./CU.FT. STRUCTURAL LIGHTWEIGHT CONCRETE USING EXPANDED SHALE OR EXPANDED CLAY AGGREGATE. MIX SHALL BE HOMOGENOUS. SEEDING OF AGGREGATES FOR EXPOSED AGGREGATE FINISH IS NOT ALLOWED.

c. MAXIMUM SLUMP SHALL BE 6".

- C. MATERIALS SPECIFICATIONS:

a. CEMENT USED IN CONCRETE SHALL BE STANDARD PORTLAND CEMENT CONFORMING TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR PORTLAND CEMENT," ASTM DESIGNATION C150.

b. CONCRETE AGGREGATES SHALL CONFORM TO ONE OF THE FOLLOWING SPECIFICATIONS:

• "SPECIFICATIONS FOR CONCRETE AGGREGATES," ASTM DESIGNATION: C33.

• "SPECIFICATIONS FOR LIGHTWEIGHT AGGREGATES FOR STRUCTURAL CONCRETE," ASTM DESIGNATION C330.

• "SPECIFICATIONS FOR STRUCTURAL STEEL" ASTM DESIGNATION A36.

• WATER SHALL BE FREE FROM INJURIOUS QUANTITIES OF OIL, ALKALI, VEGETABLE MATTER AND SALT. NON-POTABLE WATER SHALL NOT BE USED IN MIXING CONCRETE.

• REINFORCEMENT BARS SHALL BE DEFORMED STEEL BARS CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED AND PLAIN BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," ASTM DESIGNATION: A615. (FY = 60 KSI)

• ALL WELDING AND WELDED STUDS SHALL CONFORM TO THE REQUIREMENTS OF THE "STRUCTURAL WELDING CODE-STEEL" ANSI/AWS D1.1.

• ALL WELDING ELECTRODES SHALL BE E70XX. FOR SHIELDED METAL ARC WELDING (SMAW) USE LOW HYDROGEN ELECTRODES.

• ALL WELDING WIRE SHALL BE 0.035 MIG WIRE FOR GAS METAL ARC WELDING (GMAW).

• WELDED SMOOTH WIRE FABRIC SHALL BE STEEL WIRE FABRIC CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT," ASTM DESIGNATION: A185.

• ADMIXTURES SHALL BE SUBJECT TO PRIOR APPROVAL BY THE QUALITY CONTROL SUPERVISOR AND SHALL MAINTAIN THE SAME COMPOSITION AND PERFORMANCE INTENDED IN THE ORIGINAL MIX DESIGN.

• AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO "SPECIFICATIONS FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE," ASTM DESIGNATION: C260.

• WATER REDUCING ADMIXTURES, RETARDING ADMIXTURES, ACCELERATING ADMIXTURES, WATER REDUCING AND RETARDING ADMIXTURES, AND WATER REDUCING AND ACCELERATING ADMIXTURES SHALL CONFORM TO "SPECIFICATIONS FOR CHEMICAL ADMIXTURES FOR CONCRETE," ASTM DESIGNATION: C494.
- D. FLOOR PANEL:

a. SHALL BE AN 8" WAFFLED STRUCTURAL PRECAST CONCRETE SYSTEM.

• RIBS SHALL BE 2'-0"O.C. MAXIMUM TRANSVERSE.

• FLOOR SLAB SHALL BE 2".

b. ALL SURFACES SHALL BE SMOOTH AND PREPPED FOR FINISH(S).

c. SEE FLOOR PANEL SHEETS FOR ADDITIONAL REQUIREMENTS.
- E. ROOF PANEL:

a. SHALL BE STRUCTURAL PRECAST CONCRETE WITH A MINIMUM EDGE THICKNESS OF 4".

b. ROOF SHALL BE HIP TYPE SLOPING 1/4" PER FOOT IN FOUR DIRECTIONS.

c. SHALL BE PROVIDE WITH A 3/4" RECESSSED KEYWAY FOR TOP OF WALL PANEL LEAVING NO EXPOSED ROOF TO WALL JOINT.

d. SHALL PROVIDE A 2" MAXIMUM OVERHANG ON ALL SIDES UNLESS NOTED OTHERWISE.

e. SEE ROOF PANEL SHEETS FOR ADDITIONAL REQUIREMENTS.REQUIREMENTS.

- F. WALL PANELS:

a. SHALL BE 4" THICK STRUCTURAL PRECAST CONCRETE.

b. EXTERIOR FINISH SHALL BE EXPOSED AGGREGATE UNLESS OTHERWISE NOTED.

c. INTERIOR SURFACES SHALL BE SMOOTH AND PREPPED FOR FINISH(S).

d. WALL PANELS SHALL OVERHANG THE TOP FLOOR A MINIMUM OF 7" LEAVING NO EXPOSED WALL TO FLOOR JOINT.

e. SEE WALL PANEL SHEETS FOR ADDITIONAL REQUIREMENTS.

8. **ELECTRICAL SYSTEM**

A. INSTALLATION AND WIRING:

a. SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE PER DRAWING G0.1.

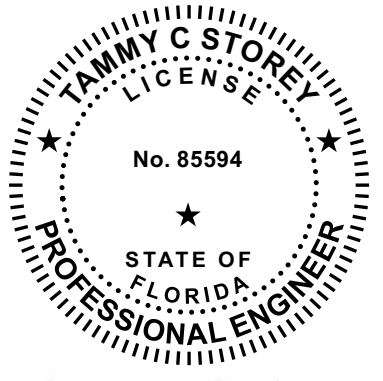
b. SYSTEMS SHALL BE INSTALLED PER MANUFATURER'S WRITTEN INSTRUCTIONS.
9. **MECHANICAL SYSTEM(S)**

A. INSTALLATION AND WIRING:

a. WHEN SUPPLIED, SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE CODE(S) PER DRAWING G0.1.

b. SYSTEMS SHALL BE INSTALLED PER MANUFATURER'S WRITTEN INSTRUCTIONS.

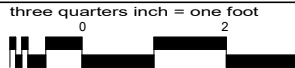
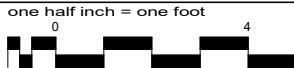
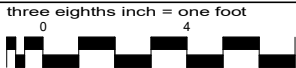
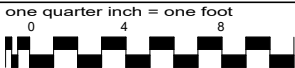
These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:	Const. Type:	VB
	Occupancy:	S2
	Allowable No. of Floors:	1
	Wind Velocity:	130 MPH Vail
	Fire Rating of	
	Ext. Walls:	0
	Plan No.:	MCP1410-MCP1410
	Allow. Floor Load:	200
	Approval Date:	2/1/2025
	Manufacturer:	Modular Connections, LLC
APPROVED BY		
NIA INC.		



Tammy C Storey

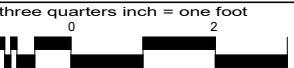
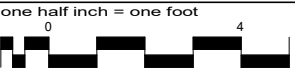
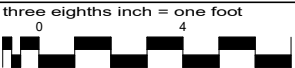
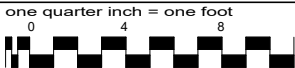
No.	Revision Description	Date	By
<div><div>MODULAR CONNECTIONS</div><div>1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com</div><div>© MODULAR CONNECTIONS, LLC All Rights Reserved</div></div>			
Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: KML	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: GENERAL SPECIFICATIONS			
Project Number: MCP1410 - MC5116		Sheet Number: G0.2	

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EQUIPMENT LIST				
ITEM#	QTY.	PART#	MODEL#	DESCRIPTION
1	2	ES1070	SG-5	HVAC GRILLE, SG-5 3-1/2-6 TON SPPLY 30" X 10" ALUM BARD
2	2	ES1069	RG-5	HVAC GRILLE, RG-5 3-1/2-6 TON RETURN 30" X 16" ALUM BARD
3	1	ES17441	AX12-2	FAN, 12" EXHAUST W/ SHTRT 115V 1.8 FLA 1640-1390 CFM SNGL SPEED 14" X 14" RO CANARM # AX12-2
4	4	ES1615	SB-2107YZ	CABLE RACK, 1-1/2" SPLICE KIT (1-PAIR)
5	8	ES1618	CC12	CABLE RACK, 1-1/2" 90 DEG TEE
6	11	ES21883	ACB1SZY	CABLE RACK, AUX CABLE BRCKT
7	1	ES24594	P1X54MC400CT	PANELBOARD, 400A 208/120V 3PH 54POS COPPER BUS
8	1	ES24531	P1A42MC250CT	PANELBOARD, 250A 120/240V 1PH 42P
9	1	N/A	CUSTOMER SUPPLIED	FIRE ALARM CONTROL PANEL
10	1	ES14448	E9802CN-CAR	COVER PLATE, 4X4 BLANK PVC W/ GASKET CARLON
11	1	ES11288	58351-1/2	BOX, 2X4 1-7/8" DEEP X 4" W/ 1/2" KO'S
12	1	ES11478	SC 68-C-1	COVER PLATE, 2X4 BLANK HANDY BOX
13	12	ES191	5362I	RECEPTACLE, 20A 120V DPLX IVORY (STD)
14	1	ES20135	P-10GWR	RECEPTACLE, 20A 120V DPLX GFCI IN NEMA 3R ENCLOSURE
15	1	ES24795	100-37S-GRY-24	DOOR CONTACT, SPDT MAGNETIC GRAY COLOR 23" LEAD FLAIR
16	1	ES15413	MC4002-BC	HVAC CONTROLLER, BARD MC4002-BC ENHANCED ALARMS W/ ETHERNET CNNECTN
17	1	ES24444	VW150I	LIGHT, 150W EXT VAPORTIGHT W/GLOBE & GUARD LITHONIA
18	1	ES3745	MG424U-K	GROUND PLATE, 1/4" X 4" X 24" 110 ALLOY CU W/ INSLTRS & BRCKTS
19	5	ES25699	F2PCLB12	FIBERGUIDE, TWO PIECE BRCKT ATTCHS TO CABLE RACK 1/2" ROD PANDUIT # F2PCLB12
20	5	ES17311	CTAP4/0-2-XCTAP4/0-4/0-X	CMPRSSN FTING, C-TAP #4/0 - # 2 HEAVY WALL BRNDY #YC28C2 PNDT CTAP4/0-2-X
21	2	PENDING	YCHC29TC2	CMPRSSN FTING, C-TAP # 4/0 - 2 AWG
22	1	ES1975P	C-44-90LP	WIRE DUCT, 4" ELBOW 90 DEG NEMA 1 SCRW CVR PAINTED
23	5	ES1474P	C-44-UCP	WIRE DUCT, 4" COUPLING NEMA1 PAINTED C&I #C-44-UCP
24	3	ES1475P	C-44-ECP	WIRE DUCT, 4" END CAP NEMA 1 PAINTED C&I #C-44-ECP
25	5	ES24336	See Part NumberFTR4X4LYL	FIBERGUIDE, 4X4 TEE TRUMPET 3 SIDED PANDUIT YELLOW FIBERRUNNER
26	9	ES12411	RRMP1000C9	TYRAP, MOUNTING BASE
27	1	N/A		ENCLOSURE, 18"H X 18"W X 4"D NEMA 1 SCREW COVER GALV
28	1	ES13494	1A491	RELAY, 120VAC SIDE FLANGE 25A CONTACTS DPDT
29	1	ES6017UHB		DOOR, 4070 18GA GALV UH BLANK PREP EXIT & CLSR REINFORCED CECO LOCATIONS PRIME PAINT
30	5	ES11166DM	904	DOOR MUTE, RUBBER SILENCER CECO LOC NO ANCHRS WELDED PRIME PAINTED
31	2	ES14426	7100-BC-DSHO-689	DOOR CLOSER, PDQ HEAVY DUTY PARALLEL STOP / THMB TRN HOLD OPEN
32	2	ES12446	1871A65	HANDLE, ROUND GRIP PULL (STD)
33	1	ES21807	6 EW PHIL-08-626-SF7L	LOCKSET, PANIC PDQ TRIM LEVER WIDE STILE 6200 DEVICE CLSSRM FNCTN SFIC 7-PIN LC PDQ # 6 EW PHIL-08-626-SF7L
34	1	ES20346	ES20346	LOCKSET, CORE SFIC 7 PIN H KEYWAY BITTED TO A1
35	1	ES21111	4200RA 689	LOCKSET, PANIC PDQ 3/2"- 4/0" DOOR SS PDQ
36	1	ES22689	7000 783S-630	LOCKSET, STRIKE ELECTRIC RIM PANIC RECESS MNT 12/24VDC FAIL SEC/SAFE
37	1	ES11771RES		DOOR FRAME, 4070 RHR 16GA GALV 4" DEPTH SNGL RBBT MSNRY CLSR RNFRCD PREP FOR HES 7000 783S-630 ELE STRIKE W/ MUD BOX SW HINGE CECO LOC NO ANCHRS WELDED PRIME PAINTED16,
38	5	N/A	N/A	RELAY TOWER (CUSTOMER SUPPLIED)
39	5	ES24268	FR6TRBN58	FIBERGUIDE, AUX BRACKET 6X4 & 4X4 FIBERRUNNER USE W/THRD ROD PANDUIT # FR6TRBN58
40	1	ES2164B	S66 M1-50	TERMINAL BLOCK, 50PT
41	2	ES25292	RT-100-W	TIMER, DIGITAL PRGRMBL COUNTDOWN W/ FLASH WARNING WHITE
42	1	ES693	2001	PHOTOCELL, 15A 120V W/ 180 DEG SWIVEL 1/2" BASE
43	1	ES23886	ECRG SQ M6	LIGHT, EMERGENCY/EXIT COMBO LED 120/277 BATTT B-UP RED LTTRS
44	6	ES20786	GUS4-36NW/D10	LIGHT, 4' LED 36W 120/277 SURFACE MNT WRAP 4000K 4437 LMNS RAB GUS4-36NW/D10
45	1	ES25638	565176	BULB, 13.5W LED A19 2700K 100W EQUAL
46	1	ES4471G	ES4471G	DOOR AWNING, 56" X 24" FRP MINDFUL GRAY
47	2	ES22819	W72AC-B09XP4XXJ	HVAC, 6.0T 10EER 208V/3PH/60HZ 09KW HEAT BUCKEYE GRAY BARD
48	1	ES12017	B84XXR-G	SURGE ARRESTOR, A.C. DATA
49	1	ES15830		PLATE, .125 ALUM16" X 34" MILL FINISH
50	1	ES18822		PLATE, .125 ALUM 12" X 12" MILL FINISH
51	2	ES4035	11340	FIRE EXTINGUISHER, 10# ABC
52	1	ES12627	G1731195	EYEWASH STATION, 32-OZ DUAL BOTTLES WALL MNT HONEYWELL
53	1	ES12786	C-242412RB	ENCLOSURE, 24"H X 24"H X 12"D NEMA 3R PAINTED
54	1	ES24154		PLATE, .125 ALUM 20" X 34" 3003 ALLOY MILL FINISH
55	1	PENDING	WDV-75	LOUVER, INTAKE 15" X 15" FIXED EXTERIOR UNITED ENERTECH
56	1	ES23877		BUSHING, 1-1/4" EMT PRESS FIT INSULATING
57	1	ES17627	HDG-DR	GAS DETECTOR, HYDROGEN 115VAC WITH DUAL ALARM CONTACTS
58	2	ES18792G	ES18792G	HOOD, 22" FIBBERGLASS FRP LARGE 16" x 17" RECTANGULAR OPENING MINDFUL GRAY
59	2	ES18795	ES18795	SCREEN, 18" X 18" COMBINATION W/ALUMINUM INSECT SCREEN INSERT
60	1	ES27315	45C683	LOUVER, MOTOR 120/240V FOR SINGLE PANEL POWER OPEN 10"-36"
61	2	ES24805	469V14	SIGN, "FIRE EXTINGUISHER" 14" X 4" ALUM
62	32	ES2504	YA6C2TC14	CRIMPCON, #6 2H 1/4" X 5/8" CTC LNG BARREL BLUE DIE NO WNDW BRNDY #YA6C2TC14 PNDT LCC6-14A-L SP1 GL610B (BUCKET 250 PCS)
63	2	ES11310	2IH5S2-1	BOX, 4X4 X 2"D EXT 5 1/2" HUBS
64	1	ES190	1221I	SWITCH, 20A 120-277V SPST TGGL IVORY
65	2	ES11368P		PIPE PLUG, 1/2" PVC SCH 40 WHT MALE NPT HEX HEAD
66	1	N/A		RELAY TOWER (CUSTOMER SUPPLIED)
68	1	ES15126		PLATE, .125 ALUM 6" X 9" MILL FINISH
69	1	ES11830	E986G	ELBOW, 1-1/4" LB W/CVR & GASK PVC CARLON # E986G
70	1	ES12241P	C-44-TP	WIRE DUCT, 4" TEE NEMA 1 SCRW CVER PAINTED
71	5	ES22167	See Part NumberFRV74X4YL	FIBERGUIDE, 4X4 TEE VERTICAL YELLOW FIBERRUNNER
72	10	ES22165	See Part NumberFRBC4X4YL	FIBERGUIDE, 4X4 COUPLER QUICKLOCK YELLOW FIBERRUNNER PANDUIT #



EQUIPMENT LIST

ITEM#	QTY.	PART#	MODEL#	DESCRIPTION
73	2	ES14165	2CCB-FS	COVER PLATE, 4X4 BLANK BOX MOUNT CAST EXTERIOR
74	2	ES22310	329254	CRIMPCON, #10-12 AWG TO CU FOIL AMP TERMI-FOIL # 329254
75	5	ES24397	YAV28L2TC14FX	CRIMPCON, #4/0 FLEX 2H 1/4" X 5/8" CTC PURPLE DIE BURNDY #
76	2	ES23976	241119.105.VC	DC POWER SYSTEM, RECTIFIER 48V 3000W
77	1	ES1420F	20-123-48	FIKE, HORN/STROBE WALL MOUNT SELECTABLE RED/WHT
78	1	ES26276	SIGA-270	FIKE, SNGL ACTION PULL STATION W/HEX WRNCH LCK FIKE # 20-1060
79	3		CUSTOMER SUPPLIED	SMOKE DETECTOR CUSTOMER SUPPLIED MC INSTALLED

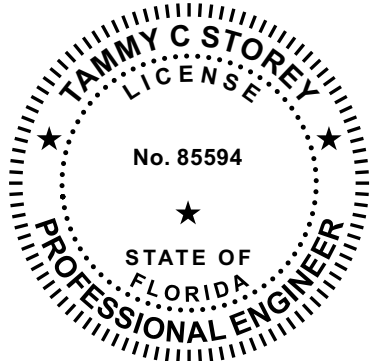
These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type: V/B
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 150 MPH V_h
Fire Rating of Ext. Walls: 0
Plan No.: MCP1410-MC5116
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC

ELECTRICAL/MECHANICAL NOTES:

- MAIN DISCONNECT GROUND WIRE MUST BE ATTACHED TO GROUNDING SYSTEM BEFORE APPLYING POWER.
- ALL WIRE AMPACITIES BASED ON TABLE 310-16 NEC, 310-15(b)(2)(a). ALL WIRE IS RATED AT 90°C W/ 75° CRATED LUGS. CONDUIT FILL BASED ON ANNEX C NEC (TABLE C1).
- ALL SERVICE ENTRANCE EQUIPMENT SHALL BE LISTED FOR IT'S USE.
- LOCAL BUILDING OFFICIALS: ALL THE ITEMS THAT ARE NOT COVERED IN THE APPROVAL PROCESS ARE TO BE SITE INSTALLED. ALL SITE INSTALLED ITEMS ARE SUBJECT TO LOCAL REVIEW, APPROVAL, AND INSPECTION PROCESS.
- MOUNT GROUND CLAMP TO SIDE OF CABLE TRAY WITH WIRE LAYING ON RUNGS AND TYRAP TO EVERY OTHER RUNG.
- RUN 18 AWG THHN STRANDED COPPER FOR ALARM WIRES. COIL AND TAG DOOR CONTACTS AND SMOKE DETECTORS. COIL UP 40FT OF ALARM WIRES IN LIQUID TIGHT NON-METALIC FLEXIBLE CONDUIT ON CABLE TRAY FOR CUSTOMER CONNECTION. ALARMS TO BE WIRED N/O.
- USE UNISTRUT ON BOTTOM OF CABLE TRAY.
- ANY CHEMICALS TO BE STORED IN THIS BUILDING SHALL NOT EXCEED AMOUNT LISTED IN TABLES 307.1 AND 307.1(2) OF THE IBC.
- IF BATTERIES WITH AN ELECTROLYTE CAPACITY OF MORE THAN QUANTITIES SHOWN IN 2021 IFC TABLE 1207.1.1 ARE TO BE INSTALLED WITHIN THIS BUILDING, ONE OF THE FOLLOWING ALTERNATIVES MUST ALSO BE INSTALLED: 1.) AN EXHAUST FAN WITH A HYDROGEN LIMIT SWITCH SO AS TO LIMIT THE HYDROGEN TO 1% OF THE TOTAL VOLUME OF THE ROOM; OR 2.) CONTINUOUS VENTILATION SHALL BE PROVIDED AT A RATE NOT LESS THAN 1 CUBIC FOOT PER MINUTE PER SQUARE FOOT OF FLOOR AREA OF ROOM.
- ALL NEUTRALS AFTER MAIN DISCONNECT SHALL BE ISOLATED FROM GROUND.























































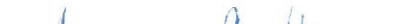











Tammy C Storey

No.	Revision Description	Date	By
MODULAR CONNECTIONS			
1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com			
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Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: EQUIPMENT LIST			
Project Number: MCP1410 - MC5116			
Sheet Number: EP0.3			

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ELECTRICAL ABBREVIATIONS & SYMBOLS LEGEND															
ABBREVIATIONS		ABBREVIATIONS (CONT.)		BASIC MATERIALS		FIRE ALARM / DETECTION / SUPPRESSION		LIGHTING							
A/C	AIR CONDITIONING	LV	LOW VOLTAGE	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION						
AC	ALTERNATING CURRENT	MAX	MAXIMUM		SINGLE POLE SWITCH		SMOKE DETECTOR		LED OR FLUORESCENT FIXTURE, CEILING OR PENDANT MOUNTED						
ACP	AC PANELBOARD	MCA	MINIMUM CIRCUIT AMPERES			3-WAY SWITCH		HEAT DETECTOR		LED OR FLUORESCENT TROFFER LIGHT 2' X 4'					
ABV	ABOVE	MCB	MAIN CIRCUIT BREAKER			4-WAY SWITCH		PHOTO-ELECTRIC DETECTOR		LED OR FLUORESCENT TROFFER LIGHT 2' X 2'					
ADA	AMERICANS WITH DISABILITIES ACT	MDP	MAIN SERVICE DISTRIBUTION PANEL			DIMMER SWITCH		RESISTOR		EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL MOUNTED					
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM			DOUBLE POLE SINGLE THROW SWITCH		END OF LINE RESISTOR		EXIT LIGHT, WALL MOUNTED (BLACK ARROW POINTS IN THE DIRECTION OF EGRESS)					
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUG ONLY			DOUBLE POLE DOUBLE THROW SWITCH		ABORT SWITCH		LIGHTING CONTACTOR					
AHU	AIR HANDLING UNIT	MOC	MAXIMUM OVERCURRENT PROTECTION			KEYED SWITCH		MANUAL RELEASE SWITCH		VAPOR-TIGHT WALL SCONCE (JELLY JAR) FIXTURE WITH LED A-19 BULB					
AIC	AMPERE INTERRUPTING CAPACITY	MSB	MAIN SERVICE SWITCHBOARD			OCCUPANCY SENSOR SWITCH		DISCONNECT SWITCH		EXTERIOR WALL LIGHT (WALLPACK, SCONCE, FLOOD)					
AL	ALUMINUM	MTD	MOUNTED			TIMED SWITCH		ALARM BELL	ACCESS CONTROL / SECURITY						
AMP	AMPERE	MTG	MOUNTING			SIMPLEX RECEPTACLE		LOW PRESSURE SWITCH							
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MTR	MOTOR		DUPLEX RECEPTACLE		DISCHARGE PRESSURE SWITCH		ACCESS CONTROL SYSTEM PANEL						
ASA	AMERICAN STANDARDS ASSOCIATION	MTS	MANUAL TRANSFER SWITCH		TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE		MANUAL PULL STATION		PREPARATION FOR FUTURE CARD READER						
AT	AMPERE TRIP	NC	NORMALLY CLOSED		DUPLEX RECEPTACLE WITH TWO USB PORTS		GAS AGENT DISPERSION NOZZLE		KEY PAD						
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRIC CODE		TWO DUPLEX RECEPTACLES (QUAD) WITH TWO USB PORTS & COMMON COVERPLATE		STROBE, WALL MOUNTED		COMBINATION KEY PAD & CARD READER						
AUX	AUXILIARY	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		GFCI RECEPTACLE		STROBE, CEILING MOUNTED OR VERTICALLY MOUNTED ON EXTERIOR MAST AND/OR JUNCTION BOX		DOOR POSITION SWITCH (DOOR CONTACT OR LIMIT SWITCH)						
AWG	AMERICAN WIRE GAUGE	NEU	NEUTRAL		IN-USE WEATHERPROOF GFCI RECEPTACLE		EXTINGUISHING AGENT CYLINDER TANK		ELECTRIC STRIKE						
BC	BARE COPPER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		TWO GFCI DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE		FIRE ALARM CONTROL PANEL		MAGNETIC LOCK						
BKR	BREAKER	NIC	NOT IN CONTRACT		SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS NOTED		COMBINATION AUDIBLE & VISUAL ALARM (STROBE / SPEAKER), WALL MOUNTED		REMOTE DOOR RELEASE BUTTON						
CAB	CABINET	NF	NON-FUELED		DUPLEX RECEPTACLE, CEILING MOUNTED		ALARM HORN ONLY	<div><div><div><div><div><div>TAMMY C STOREY</div><div>LICENSE</div><div>No. 85594</div><div>★</div><div>STATE OF FLORIDA</div><div>PROFESSIONAL ENGINEER</div></div></div><div></div></div></div><div><div>No.  Revision Description  Date  By</div><div>1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com © MODULAR CONNECTIONS, LLC All Rights Reserved</div></div><div><div>Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH</div><div>Site: FORT WHITE, FLORIDA</div><div>Drawn By: ACF Checked By: CLP Project Manager: CLP Date: 08/30/24</div><div>Drawing Number: D22119</div><div>Sheet Name: ELECTRICAL ABBREVIATIONS & SYMBOLS LEGEND</div><div>Project Number: MCP1410 - MC5116 Sheet Number: EP0.4</div></div><div>NOTICE: These drawings and specifications are the property of Modular Connections, LLC. All information contained herein which is not known generally in the field of Modular Connections, LLC shall be confidential except to any extent to which it is established to have been known previously from sources other than Modular Connections, LLC. These drawings and specifications may not be reproduced, copied or used as the basis for the manufacture or sale of apparatus without written permission.</div></div>							
CATV	CABLE TELEVISION	NO	NORMALLY OPEN / NUMBER		GROUND BUS BAR, COPPER										
CCTV	CLOSED CIRCUIT TELEVISION	OL	OVERLOAD		SURGE PROTECTION DEVICE										
CLG	CEILING	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION		HYDROGEN DETECTOR										
COAX	COAXIAL CABLE	P	POLE		ELECTRIC WALL HEATER, SURFACE MOUNTED										
COND	CONDUCTOR	PB	PULLBOX		VENT FAN, WALL MOUNTED										
CONN	CONNECTION	PF	POWER FACTOR												
CPU	CENTRAL PROCESSING UNIT	PNL	PANEL												
CT	CURRENT TRANSFORMER	PRI	PRIMARY												
CU	COPPER	PVC	POLYVINYL CHLORIDE												
CW	COLD WATER	PWR	POWER												
DC	DIRECT CURRENT	REC	RECEPTACLE												
DCP	DC PANELBOARD	REF	REFRIGERATOR												
DEG	DEGREE	RGS	RIGID GALVANIZED STEEL CONDUIT												
DF	DEMAND FACTOR	RMS	ROOT-MEAN-SQUARE												
DISC	DISCONNECT	RPM	REVOLUTIONS PER MINUTE												
DN	DOWN	RTU	ROOF TOP UNIT												
DPST	DOUBLE THROW SINGLE THROW	SCA	SHORT CIRCUIT AMPERES												
EMT	ELECTRICAL METALLIC CONDUIT	SD	SMOKE DETECTOR												
EOL	END OF LINE	SEC	SECONDARY												
EOR	ENGINEER OF RECORD	S/N	SOLID NEUTRAL												
EW	ELECTRIC WATER COOLER	SPD	SURGE PROTECTION DEVICE												
EXT	EXTERIOR	SPEC	SPECIFICATIONS												
FA	FIRE ALARM	SPKR	SPEAKER												
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SPST	SINGLE POLE SINGLE THROW												
FATC	FIRE ALARM TERMINATION CABINET	SS	STAINLESS STEEL												
FCU	FAN CONTROL UNIT	SST	SOLID STATE TRIP												
FLA	FULL LOAD AMPERES	STT	SHORT TIME TRIP												
FPU	FAN POWER UNIT	SUB	SUBFEED BRANCH PANEL												
FT	FEET	SW	SWITCH												
GF	GROUND FAULT	SWBD	SWITCHBOARD												
GFA	GROUND FAULT ALARM	SWGR	SWITCHGEAR												
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TEL	TELEPHONE												
GND	GROUND	TYP	TYPICAL												
HP	HORSEPOWER	UG	UNDERGROUND												
HOA	HAND-OFF-AUTO	UON	UNLESS OTHERWISE NOTED												
HORZ	HORIZONTAL	UL	UNDERWRITERS LABORATORIES												
IBC	INTERNATIONAL BUILDING CODE	UTIL	UTILITY												
IECC	INTERNATIONAL ENERGY CONSERVATION CODE	V	VOLT												
IMC	INTERMEDIATE METALLIC CONDUIT	VA	VOLT-AMPERE												
IN	INCHES	VAR	VOLT-AMPERE REACTIVE												
IT	INSTANTANEOUS TRIP	VAV	VARIABLE AIR VOLUME												
J-BOX	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE												
KCMIL	ONE THOUSAND CIRCULAR MILS	W	WIRE												
KV	KILOVOLT	WP	WEATHERPROOF												
KVA	KILOVOLT-AMPERES	XFMR	TRANSFORMER												
KW	KILOWATT	XFR	TRANSFER												
KWH	KILOWATT HOURS	<div><div>These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:</div><div>APPROVED BY  NIA INC.</div></div>													
LBS	POUNDS														
LC	LIGHTING CONTACTOR														
LED	LIGHT-EMITTING DIODE														
LP	LIGHTNING PROTECTION														
LT	LIGHT														
LTG	LIGHTING														

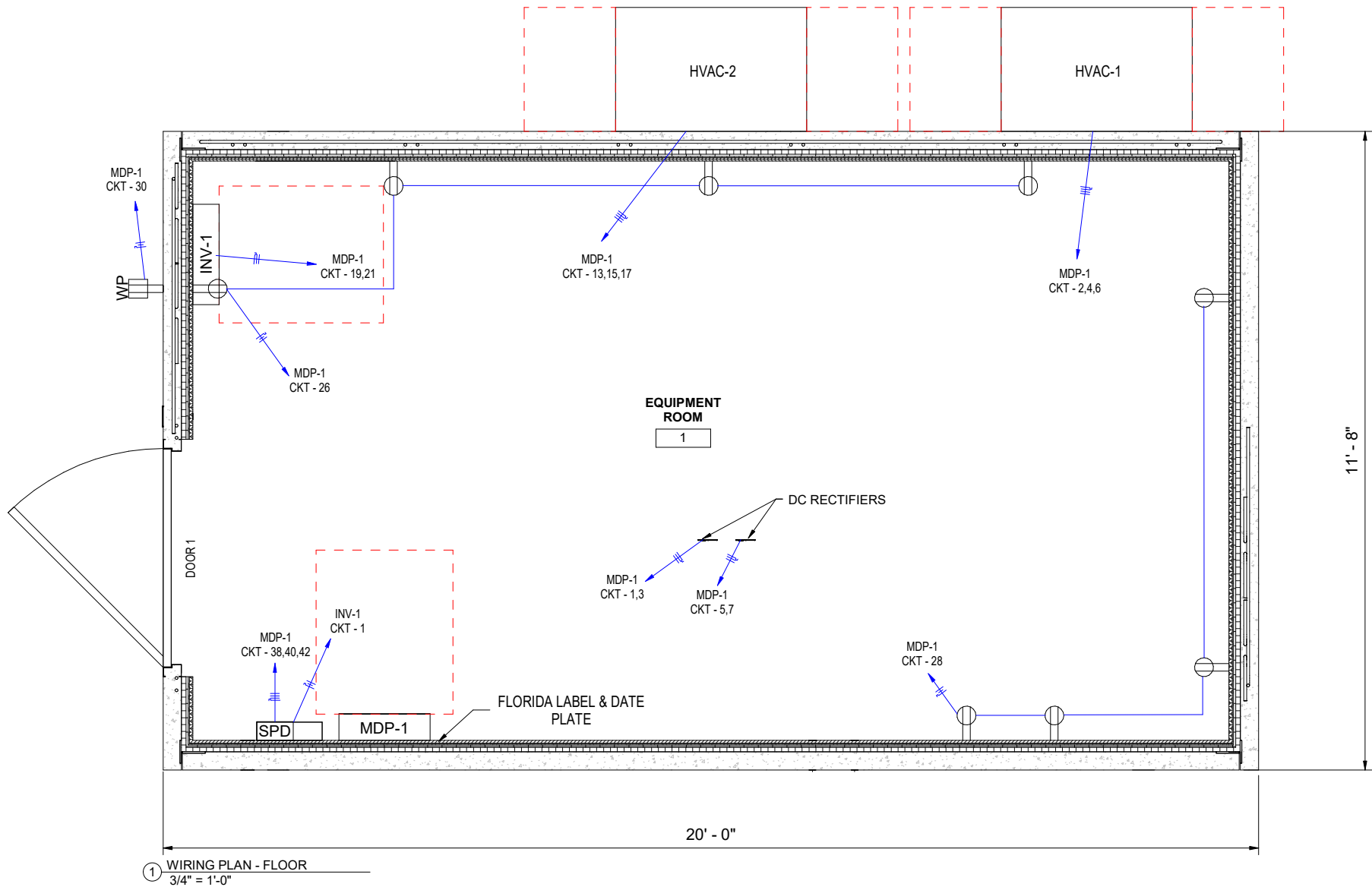
NOTE: SOME SYMBOLS AND/OR ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

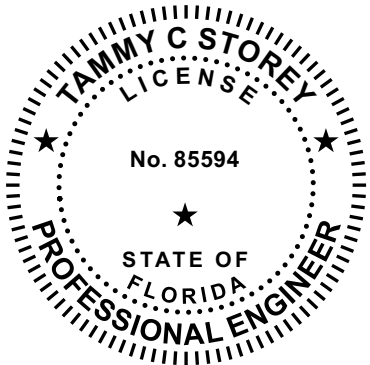
Const. Type: VB
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 150 MPH V_{ult}
Fire Rating of Int. Wall: 0
Plan No.: MFC-4193-MCP1410
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC



DOOR SCHEDULE

ITEM #	PART #	DESCRIPTION
DOOR 1		
29	ES6017UHB	DOOR, 4070 18GA GALV UH BLANK PREP EXIT & CLSR REINFORCED CECO LOCATIONS PRIME PAINT
35	ES21111	LOCKSET, PANIC PDQ 3'2"- 4'0" DOOR SS PDQ
37	ES11771RES	DOOR FRAME, 4070 RHR 16GA GALV 4" DEPTH SNGL RBBT MSNRY CLSR RNFRCD PREP FOR HES 7000 783S-630 ELE STRIKE W/ MUD BOX SW HINGE CECO LOC NO ANCHRS WELDED PRIME PAINTED

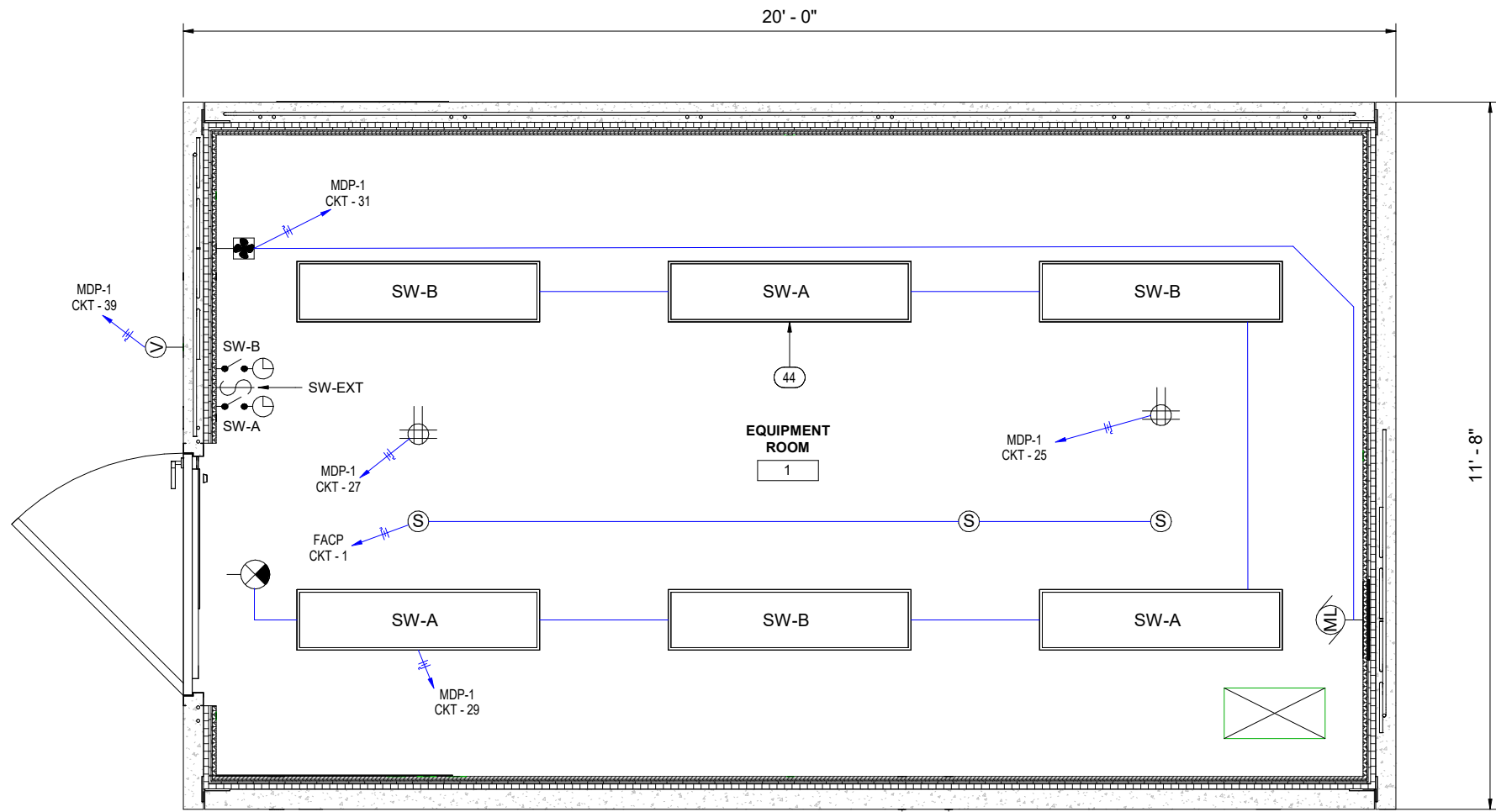
STATE: FLORIDA



Tammy C Storey

No.	Revision Description	Date	By
MODULAR CONNECTIONS			
1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com			
© MODULAR CONNECTIONS, LLC All Rights Reserved			
Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: WIRING PLAN (FLOOR)			
Project Number: MCP1410 - MC5116			
Sheet Number: EP1.0			

NOTICE: These drawings and specifications are the property of Modular Connections, LLC. All information contained herein which is not known generally in the field of Modular Connections, LLC shall be confidential except to any extent to which it is established to have been known previously from sources other than Modular Connections, LLC. These drawings and specifications may not be reproduced, copied or used as the basis for the manufacture or sale of apparatus without written permission.



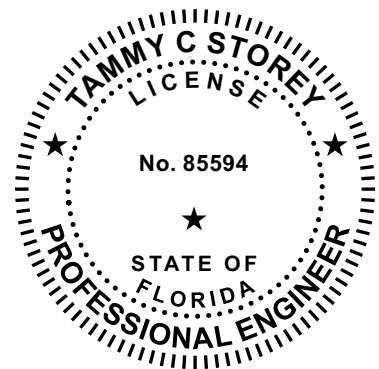
① WIRING PLAN - CEILING
3/4" = 1'-0"

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type: VB
Occupancy: S
Allowable No. of Floors: 1
Wind Velocity: 150 MPH Vg
Fire Rating of Bld. Walls: 0
Plan No.: MFC-4193-MCP1410
Allow. Floor Load: 700
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC

STATE: FLORIDA

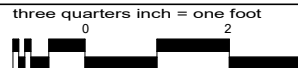
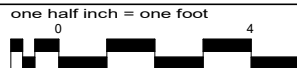
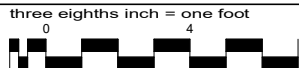
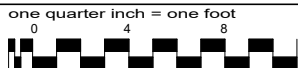


Tammy C Storey

No. Revision Description Date By
MODULAR CONNECTIONS
1090 Industrial Blvd.
Bessemer, AL 35022
Ph# 205-980-4565
Email: info@modularconnections.com
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Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH
Site: FORT WHITE, FLORIDA
Drawn By: ACF Checked By: CLP Project Manager: CLP Date: 08/30/24
Drawing Number: D22119
Sheet Name: WIRING PLAN (CEILING)
Project Number: MCP1410 - MC5116 Sheet Number: EP1.1

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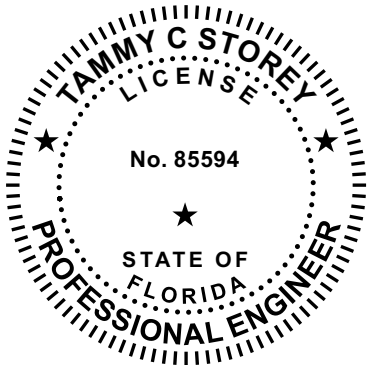


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Branch Panel: MDP-1						Brand: SIEMENS		Panel Breaker Type:		Feed-Thru Lug Kit # N/A				Model # P1X54MC400CT														
Location: EQUIPMENT ROOM 1						Volts: 208Y/120 Vac		A.I.C. Rating: 22kA		Sub-Feed Lug Kit # N/A				Enclosure # B68														
Supply From:						Phases: 3		Mains Type: MCB		Neutral Kit # N/A				Cover # S68B														
Mounting: Surface						Wires: 4		Mains Rating: 400 A		Ground Kit # EGK				Main Breaker #														
Enclosure NEMA Rating: Type 1						Feed: TOP		MCB Rating: 400 A		Main Breaker Kit # MBKVAM3400A																		
Notes:																												
1) CIRCUITS SHOWN WITHOUT A WIRE TYPE AND WIRE SIZE ARE SPARE BREAKERS RESERVED AS PER THE OWNER'S REQUEST. THESE CIRCUITS ARE TO BE DESIGNED AND INSTALLED BY OTHERS IN ACCORDANCE WITH ALL APPLICABLE CODES AND SUBJECT TO AUTHORITIES HAVING JURISDICTION.																												
CKT	Circuit Description					Trip	Poles	Wire Type	Wire Size		ØA		ØB		ØC		Wire Size	Wire Type	Poles	Trip	Circuit Description					CKT		
1	RECTIFIER #1					30 A	2	THHN	2-#10, 1-#10		1460 VA 2635 VA						3-#8, 1-#10		THHN	3	45 A	HVAC #1					2	
3						--	--	--	--				1460 VA 2635 VA				--		--	--	--	--						4
5	RECTIFIER #2					30 A	2	THHN	2-#10, 1-#10						1460 VA 2635 VA		--		--	--	--	--						6
7						--	--	--	--		1460 VA 0 VA						--		--	--	3	45 A	HVAC #3					8
9	RECTIFIER #3 (FUTURE)					30 A	2	--	--				0 VA 0 VA				--		--	--	--	--						10
11						--	--	--	--						0 VA 0 VA		--		--	--	--	--						12
13	HVAC #2					45 A	3	THHN	3-#8, 1-#10		2635 VA 0 VA						--		--	--	2	30 A	RECT #4					14
15						--	--	--	--				2635 VA 0 VA				--		--	--	--	--						16
17						--	--	--	--						2635 VA 0 VA		--		--	--	2	30 A	RECT #5					18
19	INV-1					100 A	2	THHN	2-#3, 1-#8		250 VA 0 VA						--		--	--	--	--						20
21						--	--	--	--				0 VA 0 VA				--		--	--	2	100 A	SPACE					22
23	BLANK					--	1	--	--						-- 0 VA		--		--	--	--	--						24
25	RECP GROUP 25					20 A	1	THHN	1-#12, 1-#12, 1-#12		360 VA 720 VA						1-#12, 1-#12, 1-#12		THHN	1	20 A	RCPT GRP 26					26	
27	RECP GROUP 27					20 A	1	THHN	1-#12, 1-#12, 1-#12				360 VA 720 VA				1-#12, 1-#12, 1-#12		THHN	1	20 A	RCPT GRP 28					28	
29	INT., EMERGENCY, & EXIT LGT					20 A	1	THHN	1-#12, 1-#12, 1-#12						216 VA 180 VA		1-#12, 1-#12, 1-#12		THHN	1	20 A	EXTERIOR RCPT GRP 30					30	
31	EXHAUST SYSTEM					20 A	1	THHN	1-#12, 1-#12, 1-#12		7 VA 0 VA						--		--	--	3	20 A	NEW POWER METER					32
33	PWR METER					20 A	3	--	--				0 VA 0 VA				--		--	--	--	--						34
35						--	--	--	--						0 VA 0 VA		--		--	--	--	--						36
37						--	--	--	--		0 VA 42 VA						3-#3, 1-#8		THHN	3	100 A	SURGE PROTECTOR					38	
39	EXTERIOR LIGHTING					20 A	1	THHN	1-#12, 1-#12, 1-#12				0 VA 42 VA				--		--	--	--	--						40
41	BLANK					--	1	--	--						-- 42 VA		--		--	--	--	--						42
										Total Load:		9567 VA		7851 VA		7167 VA												
										Total Amps:		81 A		66 A		60 A												
Load Classification								Connected Load				Demand Factor				Estimated Demand				Panel Totals								
HVAC								15808 VA				100.00%				15808 VA												
Lighting								216 VA				100.00%				216 VA				Total Conn. Load: 24584 VA								
Other								6220 VA				100.00%				6220 VA				Total Est. Demand: 24584 VA								
Receptacles								2340 VA				100.00%				2340 VA				Total Conn. Current: 68 A								
																				Total Est. Demand Current: 68 A								



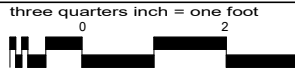
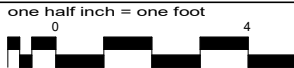
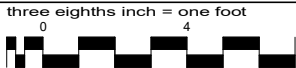
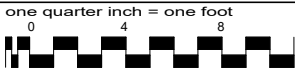
Const. Type: V/B _____
Occupancy: S2 _____
Allowable No. of Floors: 1 _____
Wind Velocity: 150 MPH Vail _____
Fire Rating of Ext. Walls: 0 _____
Plan No.: MFC-1193-MCP1410 _____
Allow. Floor Load: 200 _____
Approval Date: 5/1/2025 _____
Manufacturer: Modular Connections, LLC _____



Tammy C Storey

No.	Revision Description	Date	By
1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com			
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Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: MDP PANEL SCHEDULE			
Project Number: MCP1410 - MC5116			Sheet Number: EP1.2

NOTICE: These drawings and specifications are the property of Modular Connections, LLC. All information contained herein which is not known generally in the field of Modular Connections, LLC shall be confidential except to any extent to which it is established to have been known previously from sources other than Modular Connections, LLC. These drawings and specifications may not be reproduced, copied or used as the basis for the manufacture or sale of apparatus without written permission.



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Branch Panel: INV-1
Location: EQUIPMENT ROOM 1
Supply From: MDP-1
Mounting: Surface
Enclosure: 1

Brand:
Volts: 208/120 VAC
Phases: 1
Wires: 3
Feed: TOP

A.I.C. Rating: 22kA
Mains Type: MB
Mains Rating: 100 A
MCB Rating: 100 A

Neutral Kit #
Ground Bus #
Lug Kit #
Main Breaker Kit #

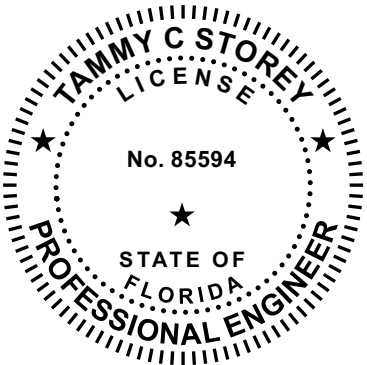
Model #
Enclosure #
Cover #
Breaker Type:

Notes:
CIRCUITS SHOWN WITHOUT A WIRE TYPE AND WIRE SIZE ARE SPARE BREAKERS RESERVED AS PER THE OWNER'S REQUEST. THESE CIRCUITS ARE TO BE DESIGNED AND INSTALLED BY OTHERS IN ACCORDANCE WITH ALL APPLICABLE CODES AND SUBJECT TO AURTHORITIES HAVING JURISDICTION.

CKT	Circuit Description	Trip	Poles	Wire Type	Wire Size	AØ		BØ		Wire Size	Wire Type	Poles	Trip	Circuit Description	CKT
1	FACP	20 A	1	THHN	1-#12, 1-#12, 1-#12	250 VA									2
3															4
5															6
7															8
9															10
11															12
13															14
15															16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
						Total Load:	250 VA		0 VA						
						Total Amps:	2 A		0 A						
Load Classification					Connected Load		Demand Factor		Estimated Demand		Panel Totals				
Other					250 VA		100.00%		250 VA						
											Total Conn. Load: 250 VA				
											Total Est. Demand: 250 VA				
											Total Conn. Current: 1 A				
											Total Est. Demand Current: 1 A				



Consul. Type: VB
Occupancy: S3
Allowable No. of Floors: 1
Wind Velocity: 150 MPH Vg
Fire Rating of Ext. Walls: 0
Plan No.: MFC-4193-MCP1410
Allow. Floor Load: 700
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC



Tammy C Storey

No. Revision Description

Date

By

1090 Industrial Blvd.
Bessemer, AL 35022
Ph# 205-980-4565
Email: info@modularconnections.com

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Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH

Site: FORT WHITE, FLORIDA

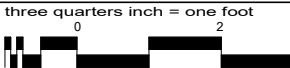
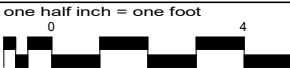
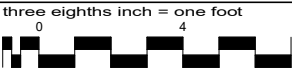
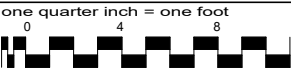
Drawn By: ACF
Checked By: CLP
Project Manager: CLP
Date: 08/30/24

Drawing Number: D22119

Sheet Name: INV-1 PANEL SCHEDULE

Project Number: MCP1410 - MC5116
Sheet Number: EP1.3

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① WIRING DIAGRAM - ELECTRICAL EQUIPMENT
3/4" = 1'-0"

400A GENERATOR #1 BREAKER

400A
ATS-1

400A GENERATOR #1 BREAKER

400A
MAIN DIST. PANEL

400A
ATS-2

400A
MDP

MC BUILDING

100A MB

INV-1 PANELBOARD

NEW INV-1
BYPASS

BY
OTHERS

3" CONDUIT

#1/0 GN

3" CONDUIT

3" CONDUIT

3" CONDUIT

one quarter inch = one foot

three eighths inch = one foot

one half inch = one foot

three quarters inch = one foot

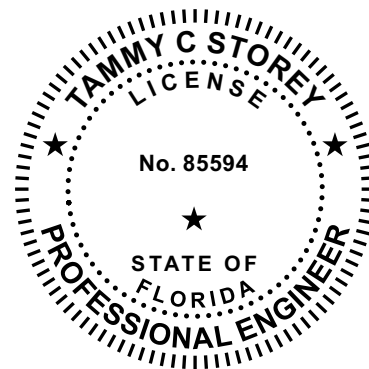
These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY
NIA INC.


Const. Type: VB
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 130 MPH V_h
Fire Rating of Ext. Walls: 0
Plan No.: MCF193-MCP1410
Allow. Floor Load: 200
Approval Date: 3/1/2025
Manufacturer: Modular Connections, LLC

NOTES - WIRING DIAGRAM(S)

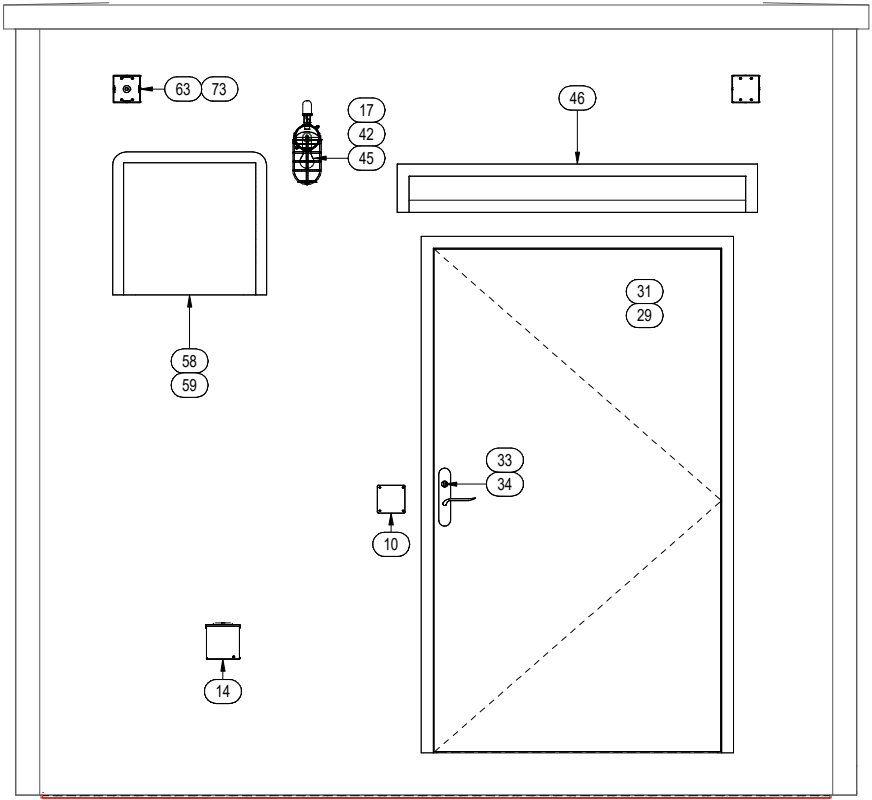
1 DASHED LINES REPRESENT EQUIPMENT AND/OR SERVICES TO BE PROVIDED & INSTALLED BY OTHERS



Tammy C Storey

No.	Revision Description	Date	By
			
1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com			
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Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: AC WIRING DIAGRAM(S)			
Project Number: MCP1410 - MC5116			
Sheet Number: EP1.4			

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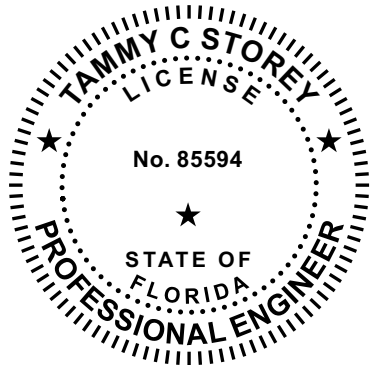


1 PANEL A ELEVATION
3/4" = 1'-0"

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type: VR
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 150 MPH Vel.
Fire Rating of Ext. Walls: 0
Plan No.: MF-4193-MCP1410
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC



Tammy C Storey

No.	Revision Description	Date	By

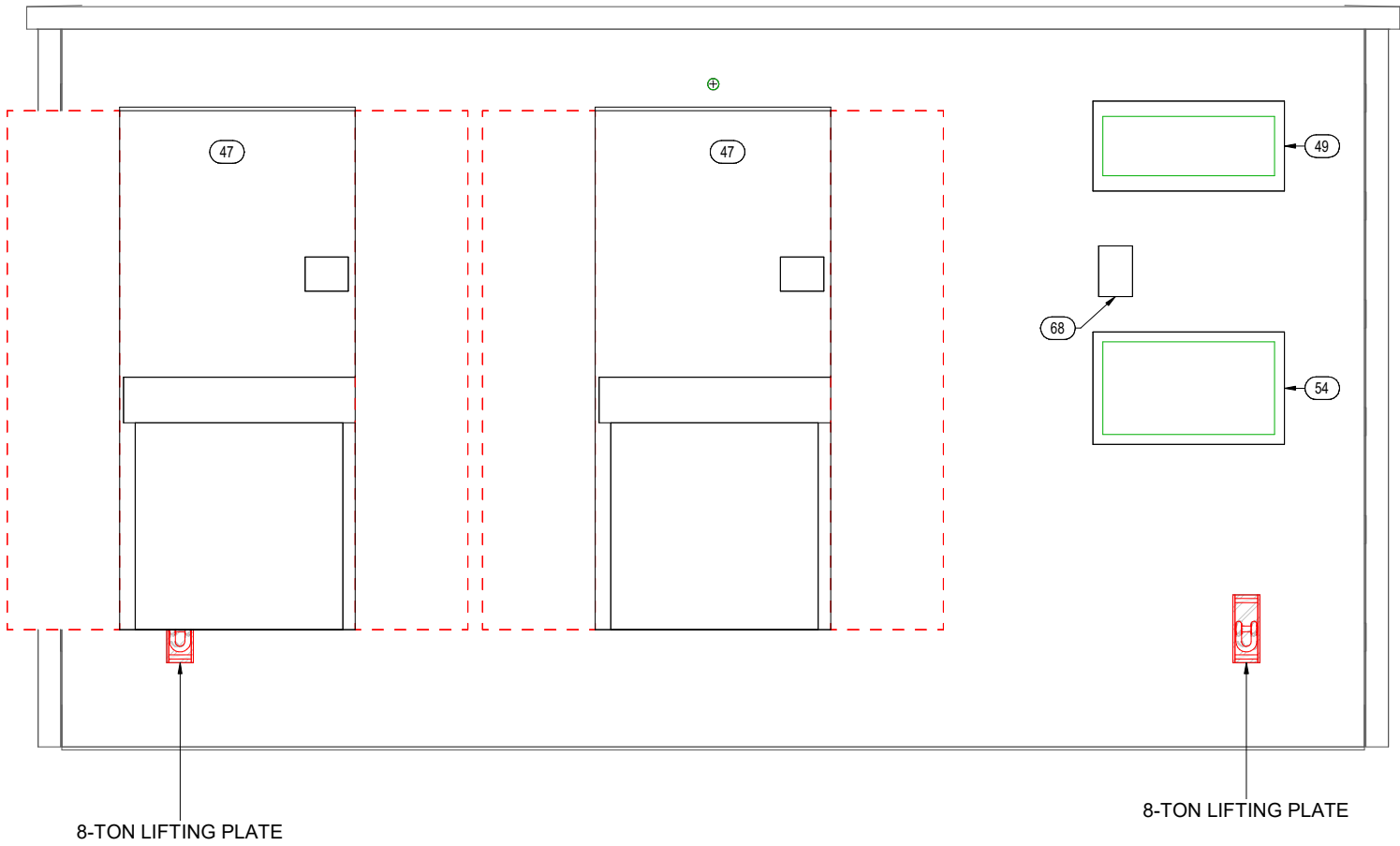
MODULAR CONNECTIONS

1090 Industrial Blvd.
Bessemer, AL 35022
Ph# 205-980-4565
Email: info@modularconnections.com

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Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: ENDWALL PANEL A (EXTERIOR)			
Project Number: MCP1410 - MC5116		Sheet Number: EP2.0	

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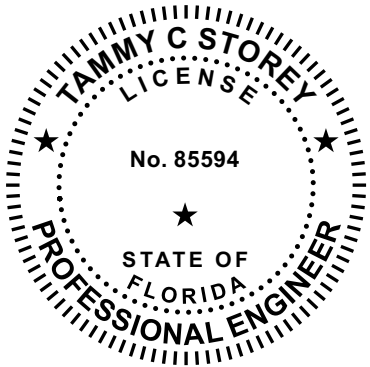
1 PANEL B ELEVATION - MEP
3/4" = 1'-0"

NOTES - PANEL B (EXTERIOR)


- 1 COMPRESSION FITTINGS
- 2 1-1/2"Ø NIPPLE



Const. Type: VR
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 150 MPH Vel.
Fire Rating of Ext. Walls: 0
Plan No.: MFC-4193-MCP1410
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC



Tammy C Storey

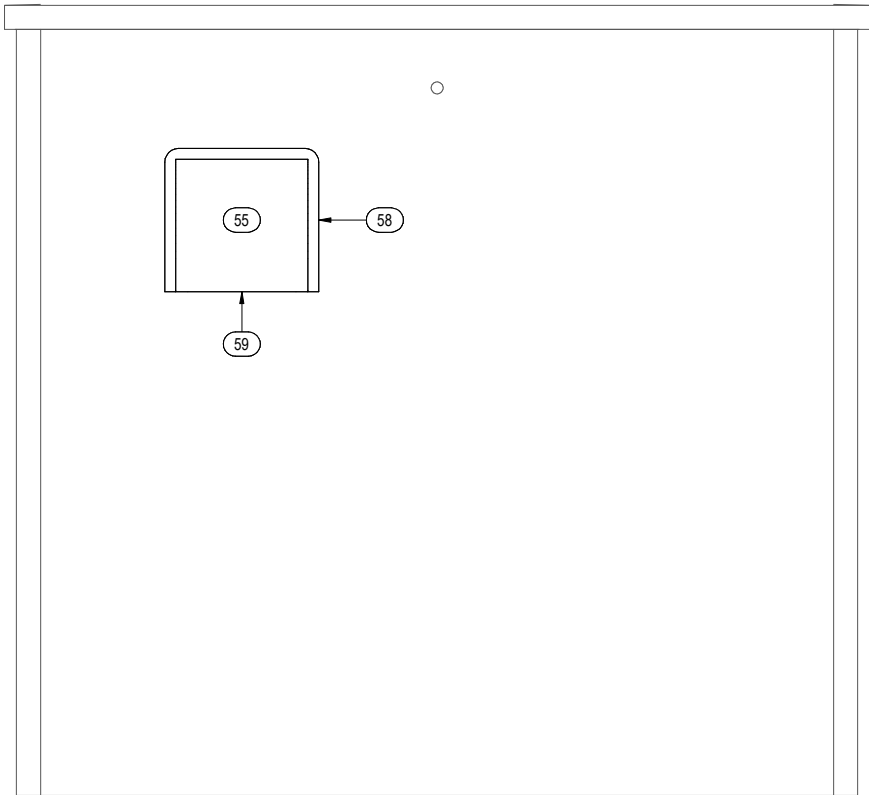
No.	Revision Description	Date	By
 <div>1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com © MODULAR CONNECTIONS, LLC All Rights Reserved</div>			
Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: SIDEWALL PANEL B (EXTERIOR)			
Project Number: MCP1410 - MC5116			Sheet Number: EP2.1

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These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

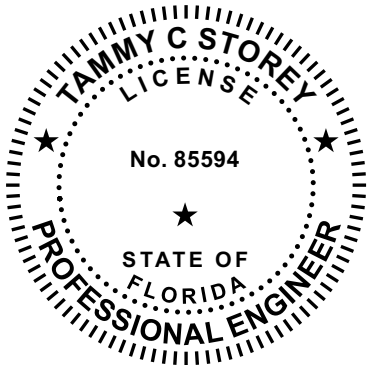
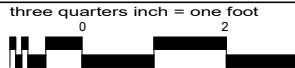
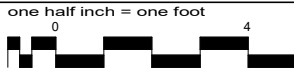
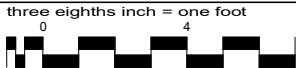
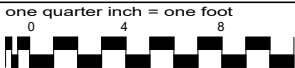


Constr. Type: VB
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 150 MPH Vult.
Fire Rating of Ext. Walls: 0
Plant No.: MPT-4193-MCP1410
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC




1 PANEL C ELEVATION - MEP - EXTERIOR
3/4" = 1'-0"

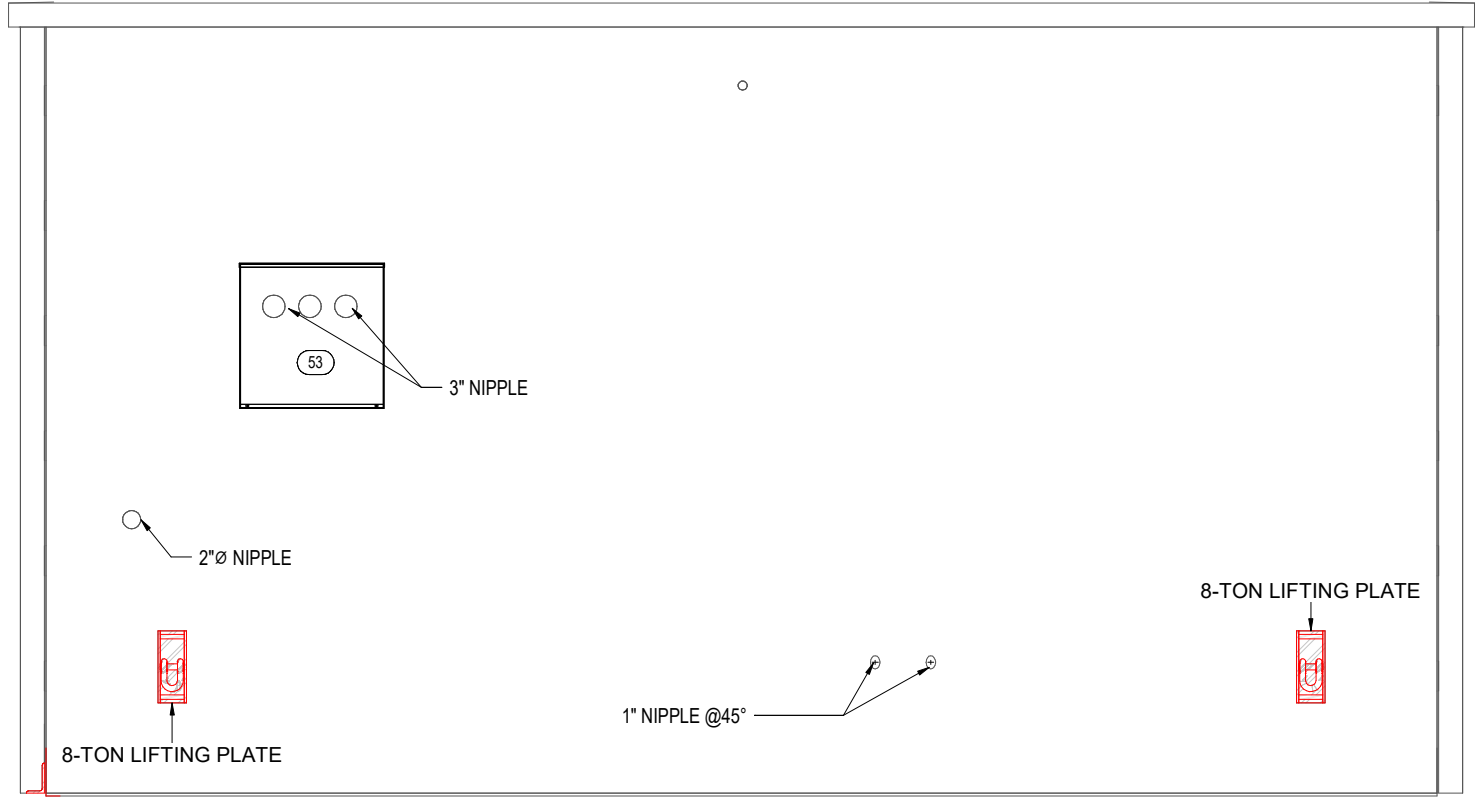
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Tammy C Storey

No.	Revision Description	Date	By
			
1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com			
© MODULAR CONNECTIONS, LLC All Rights Reserved			
Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: ENDWALL PANEL C (EXTERIOR)			
Project Number: MCP1410 - MC5116		Sheet Number: EP2.2	

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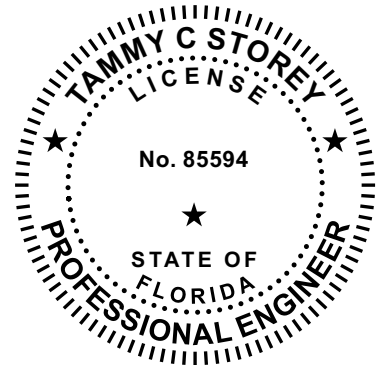


1 PANEL D ELEVATION - MEP - EXTERIOR
3/4" = 1'-0"

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:



Const. Type: VR
Occupancy: S
Allowable No. of Floors: 1
Wind Velocity: 130 MPH V_{ult}
Fire Rating of Bld. Walls: 0
Plan No.: MCF-4193-MCP-1410
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC

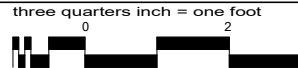
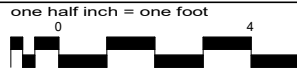
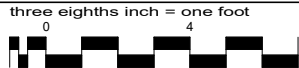
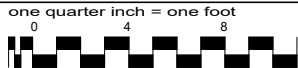


Tammy C Storey

No.	Revision Description	Date	By
1090 Industrial Blvd. Bessemer, AL 35022 Ph# 205-980-4565 Email: info@modularconnections.com			
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Title: PATTERSON & DEWAR - 12' x 20' x 9'-9" IH			
Site: FORT WHITE, FLORIDA			
Drawn By: ACF	Checked By: CLP	Project Manager: CLP	Date: 08/30/24
Drawing Number: D22119			
Sheet Name: SIDEWALL PANEL D (EXTERIOR)			
Project Number: MCP1410 - MC5116			Sheet Number: EP2.3

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Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: MCP1410 Patterson and Dewar 12X20X10 FL Ashrae 90.1 2019
Project Type: New Construction

Construction Site:
3303 SW County Road 18
Fort White, Florida 32038

Owner/Agent:
James Rains
Patterson & Dewar Engineers, Inc.
P.O. Box 2808
Norcross, Georgia 30091
770-453-1410
jrains@pdengineers.com

Designer/Contractor:
Chad Pearson
Modular Connections, LLC
1090 INDUSTRIAL BLVD
BESSEMER, Alabama 35022
205-980-4565
cpearson@modularconnections.co
m

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Communications Building (Workshop)	240	0.92	221
Total Allowed Watts =			221

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-Communications Building (Workshop) LED: LED Panel 36W:	1	6	36	216
Total Proposed Watts =				216

Interior Lighting PASSES: Design 2% 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 COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Chad Pearson

Digitally signed by Chad Pearson
DN: C=US, E=cpearson@modularconnections.com, O="Modular
Connections, LLC", OU=VP Engineering & QA, CN=Chad Pearson
Date: 2025.04.29 15:22:44-05'00'

Name - Title

Signature

Date

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:



Const. Type: VB
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 150 MPH V_h
Fire Rating of Ext. Walls: 0
Plan No.: MCP-1410-MCP1410
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: MCP1410 Patterson and Dewar 12X20X10 FL Ashrae 90.1 2019
Project Type: New Construction
Exterior Lighting Zone: 3 (Other (LZ3))

Construction Site:
3303 SW County Road 18
Fort White, Florida 32038

Owner/Agent:
James Rains
Patterson & Dewar Engineers, Inc.
P.O. Box 2808
Norcross, Georgia 30091
770-453-1410
jrains@pdengineers.com

Designer/Contractor:
Chad Pearson
Modular Connections, LLC
1090 INDUSTRIAL BLVD
BESSEMER, Alabama 35022
205-980-4565
cpearson@modularconnections.co
m

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Main Entrance (Pedestrian and vehicular entrances and exits)	4 ft of door	21	Yes	84
Total Tradable Watts (a) =				84
Total Allowed Watts =				84
Total Allowed Supplemental Watts (b) =				500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 500 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.	E (C X D)
<u>Main Entrance (Pedestrian and vehicular entrances and exits, 4 ft of door width): Tradable Wattage</u>				
LED: LED A Lamp 13W:	1	1	13	13
Total Tradable Proposed Watts =				13

Exterior Lighting PASSES: Design 98% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Chad Pearson

Digitally signed by Chad Pearson
DN: C=US, E=cpearson@modularconnections.com, O="Modular Connections, LLC",
OU=VP Engineering & QA, CN=Chad Pearson
Date: 2025.04.29 15:23:07-05'00'

Name - Title

Signature

Date

Project Title: MCP1410 Patterson and Dewar 12X20X10 FL Ashrae 90.1 2019

Report date: 04/29/25

Data filename:

Page 2 of 5

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
adhere to the following criteria:



Consol. Type: VB
Occupancy: S2
Allowable No.
of Floors: 1
Wind Velocity: 130 MPH Vult
Fire Rating of
Ext. Walls: 0
Plan No.: MCP1410-MCP1410
Allow. Floor Load: 200
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC



Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
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%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type: VB
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 150 MPH Valt
Fire Rating of Ext. Walls: 0
Plan No.: MCF-1193-MCP-410
Allow. Floor Load: 700
Approval Date: 5/1/2025
Manufacturer: Modular Connections, LLC

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.1 [EL1] ²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.1f [EL13] ¹	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.4 [EL3] ²	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.4.1.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:


<p>These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:</p> <p>APPROVED BY</p> <p>NIA INC.</p>	<p>Consult, Title: VB</p> <p>Occupancy: S2</p> <p>Allowable No. of Floors: 1</p> <p>Wind Velocity: 150 MPH V_{ult}</p> <p>Fire Rating of Ext. Walls: 0</p> <p>Plan No.: MCP-1193-MCP-1410</p> <p>Allow. Floor Load: 200</p> <p>Approval Date: 5/1/2025</p> <p>Manufacturer: Modular Connections, LLC</p>
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1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
---	----------------------	---	------------------------	---	---------------------

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
9.4.2 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
 NIA INC.

Const. Type: VB
 Occupancy: S2
 Allowable No. of Floors: 1
 Wind Velocity: 150 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MCP-4193-MCP-410
 Allow. Floor Load: 200
 Approval Date: 5/1/2025
 Manufacturer: Modular Connections, LLC

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