MORTON BUILDINGS GENERAL SPECIFICATIONS

LAMINATED COLUMNS - NO. 1 OR BETTER SOUTHERN YELLOW PINE NAIL LAMINATED 3 MEMBER S4S COLUMNS NAILED 8" O.C. STAGGERED ON EACH SIDE WITH 4" NAILS.

MFS PRE-CAST CONCRETE COLUMN - MORTON BUILDINGS FOUNDATION SYSTEM IS A PRE-ENGINEERED, 10,000 PSI, STEEL REINFORCED COLUMN FOR BELOW GROUND INSTALLATION. DESIGNED TO BE MECHANICALLY FASTENED TO ABOVE GROUND NAIL LAMINATED COLUMNS. THE SYSTEM IS DESIGNED TO RESIST BOTH AXIAL AND BENDING FORCES.

FOOTINGS AND ANCHORAGE - COLUMN HOLES ARE DUG A MINIMUM DEPTH OF 4'-0" BELOW GRADE (SEE PLANS FOR DIAMETER AND DEPTH). MFS PRE-CAST CONCRETE COLUMNS ARE PLACED IN THE HOLE. CONCRETE (MINIMUM COMPRESSIVE STRENGTH 2500 PSI) IS POURED IN PLACE TO THE SPECIFIED THICKNESS (SEE PLANS FOR REQUIRED THICKNESS ABOVE AND BELOW THE COLUMN). THE COLUMN IS THEN BACKFILLED WITH SOIL AND COMPACTED AT 8" INTERVALS OR BACKFILLED WITH CONCRETE (SEE PLANS).

TREATED LUMBER -- PRESSURE PRESERVATIVE TREATED LUMBER OTHER THAN LAMINATED COLUMNS ARE NO. 1 OR BETTER SOUTHERN YELLOW PINE AND CENTER MATCHED OR NOTCHED AND GROOVED OR S4S. PRESSURE TREATMENT TO GROUND CONTACT RETENTION WITH PRESERVATIVE TREATMENT COMPLYING WITH USE CATEGORY UC4B (AWPA OR ICC-ES) AND IN COMPLIANCE WITH USEPA GUIDELINES AND STANDARDS.

FRAMING LUMBER - SIDING NAILERS ARE 2x4 S4S OR 2x6 SPF NO. 2 OR BETTER SPACED APPROXIMATELY 36" O.C. WITH ALL JOINTS STAGGERED AT ATTACHMENT TO COLUMNS. ROOF PURLINS ARE 2x4 S4S NO. 2 OR BETTER ON EDGE SPACED APPROXIMATELY 24" O.C. ALL OTHER FRAMING LUMBER IS NO. 2 OR BETTER.

ROOF TRUSSES - FACTORY ASSEMBLED WITH 18 OR 20 GAUGE GALVANIZED STEEL TRUSS PLATES AS REQUIRED AND KILN DRIED LUMBER AS SPECIFIED, IN-PLANT QUALITY CONTROL INSPECTION IS CONDUCTED UNDER THE AUSPICES OF THE TPI INSPECTION BUREAU. TRUSSES ARE DESIGNED IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS FOR THE STATED LOADING.

SIDING & ROOFING PANELS (FLUOROFLEX 1000 ™) - 0.019" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL WITH AN ADDITIONAL BAKED-ON 70% PVDF FINISH WITH A NOMINAL 1 MIL. PAINT THICKNESS ON EXTERIOR.

TRIM - DIE-FORMED TRIM OF 0.017" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL ON GABLES, RIDGES, CORNERS, BASE WINDOWS, AND DOORS WITH SAME FINISH AS ROOFING OR SIDING PANELS.

GUTTERS - 5" OR 6" K-STYLE, .030 HIGH TENSILE ALUMINUM GUTTER, 70% PVDF FINISH TO MATCH TRIM, ON BOTH SIDES OF THE BUILDING.

2x4 F1 F1 MFS 09/20

ALLIED DESIGN

DESIGN AND EXPLANATORY NOTES

1.) ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.

2.) MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.

3.) MINIMUM LIVE ROOF LOAD DESIGNS FOR CONSTRUCTION, MAINTENANCE, REPAIR, AND OTHER TEMPORARY LOADS PER SECTION 1607.12.2
- a.) ROOF PURLINS AND OTHER SECONDARY STRUCTURAL MEMBERS = 20 PSF
- b.) ROOF TRUSSES, HEADERS, COLUMNS AND OTHER PRIMARY STRUCTURAL MEMBER = 20 PSF
- c.) FOOTINGS = 12 PSF (DESIGNED FOR ROOF SNOW LOAD AND OTHER NON-TEMPORARY LOADS W/ APPROVAL FROM BUILDING OFFICIAL).

4.) NO ONE MAY ALTER ANY ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED / REGISTERED ENGINEER .

5.)◆ THE PRECEDING SYMBOL IDENTIFIES ITEMS THROUGHOUT THE PLANS THAT ARE NOT PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS' SUBCONTRACTORS AND ARE THE OWNER'S RESPONSIBILITY.

FLORIDA PRODUCT APPROVAL NUMBERS (FBC 2023)	
PRODUCT	FL#
MBI HI-RIB WALL PANEL	37256
MBI HI-RIB ROOF PANEL	37257
MBI 910 ENTRY DOOR	37299.2
PLY GEM MASTIC SOFFITS	32502.1
SYNTHETIC UNDERLAYMENT	16850.1

SHEET INDEX

CURRENT LUMBER SPECIFICATIONS (06-01-2013)		
SIZE	DESCRIPTION	BENDING VALUE Fb
2x4	NO. 2 SPF	1313 PSI
2x4	NO. 1 SYP	1500 PSI
2x4	2100f MSR SPF	2100 PSI
2x6	NO. 2 SPF	1138 PSI
2x6	NO. 1 SYP	1350 PSI
2x6	2100f MSR SPF	2100 PSI
2x6	2400 MSR SYP	2400 PSI
2x8	NO. 1 SYP	1250 PSI
2x8	2400 MSR SYP	2400 PSI
2x10	NO. 1 SYP	1050 PSI
2x10	2400 MSR SYP	2400 PSI
2x12	NO. 1 SYP	1000 PSI
2x12	2250f MSR SYP	2250 PSI
1 1/2"x16"	LAMINATED VENEER LUMBER	2800 PSI
3 1/2"x15"	GLU-LAM	1650 PSI
5 1/4"x16 1/2"	GLU-LAM	2400 PSI
5 1/4"x19 1/2"	GLU-LAM	2400 PSI

BUILDING DESIGN CRITERIA			
BUILDING CODE	2023 FLORIDA BUILDING CODE		
USE GROUP	U		
CONSTRUCTION TYPE	VB		
RISK CATEGORY	I		
BUILDING AREA	1680 SQ. FT.		
EAVE HEIGHT	17.5 FT		
PEAK HEIGHT	22.5 FT		
MEAN ROOF HEIGHT	20 FT		
MINIMUM LIVE ROOF LOAD DESIGN	SEE NOTE #3		
WIND SPEED (V_{ULT})	110 MPH		
WIND SPEED (V_{ASD})	85 MPH		
EXPOSURE CATEGORY	B		
INTERNAL PRESSURE COEFFICIENT	±0.18		
BUILDING DESIGN CONDITION	ENCLOSED		
WIND LOAD DESIGN	ASCE 7 (ENVELOPE METHOD)		
		CASE 1	CASE 2
MAIN WINDFORCE RESISTING SYSTEM (ALL FORCES ACT NORMAL TO THE SURFACE) (VALUES SHOWN = 0.6 * W)	ZONE 1E	10.6 PSF	6.6 PSF
	ZONE 2E	-9.8 PSF	-13.8 PSF
	ZONE 3E	-5.5 PSF	-9.4 PSF
	ZONE 4E	-4.8 PSF	-8.8 PSF
	ZONE 5E	8.7 PSF	4.8 PSF
	ZONE 6E	-2.8 PSF	-6.7 PSF
	ZONE 1	7.7 PSF	3.7 PSF
	ZONE 2	-5.6 PSF	-9.6 PSF
	ZONE 3	-3.2 PSF	-7.2 PSF
	ZONE 4	-2.6 PSF	-6.6 PSF
	ZONE 5	6.4 PSF	2.4 PSF
	ZONE 6	-1.2 PSF	-5.2 PSF
CASE 1 = (-) INTERNAL PRESSURE COEFFICIENT			
CASE 2 = (+) INTERNAL PRESSURE COEFFICIENT			
ZONES 1E - 4E & 1 - 4: TRANSVERSE LOAD CASE			
ZONES 5E - 6E & 5 - 6: LONGITUDINAL LOAD CASE			
COMPONENT & CLADDING WIND LOADS (ALL FORCES ACT NORMAL TO THE SURFACE) (VALUES SHOWN = 0.6 * W)	ZONE 1	7.6 PSF	-21.3 PSF
	ZONE 2		-28.1 PSF
	ZONE 3		-36.9 PSF
	ZONE 4	11.5 PSF	-12.5 PSF
	ZONE 5		-15.4 PSF
(EFFECTIVE WIND AREA = 10 SQ. FT.)			

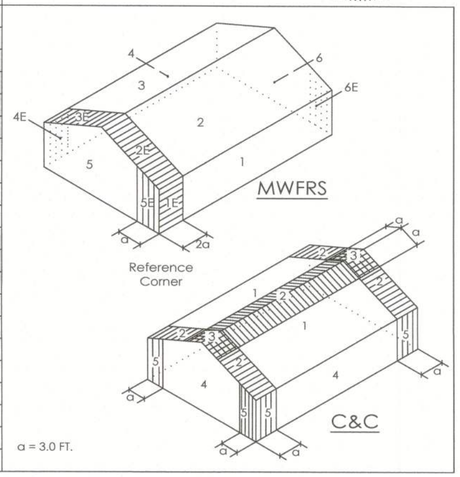
I HEREBY CERTIFY THAT THE STRUCTURAL DESIGN FOR THIS BUILDING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED/REGISTERED PROFESSIONAL ENGINEER.

Date: 2024.02.21 11:01:25 -06'00'

BENJAMIN J. ZOBRIST, P.E.
FL LICENSE #: 89211
ben.zobrist@allieddesignae.com

DIGITALLY CERTIFIED BY BENJAMIN J. ZOBRIST ON DATE ADJACENT TO SIGNATURE ABOVE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE CERTIFICATE MUST BE VERIFIED ON ELECTRONIC COPIES.

BENJAMIN J. ZOBRIST LICENSE No. 89211 STATE OF FLORIDA PROFESSIONAL ENGINEER



OFFICE: GAINESVILLE, FL
JOB NO. 131-130939

CURTIS HARLOW
LAKE CITY, FL

ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110 MORTON, IL 61550 COA # 8,400 (ENG) COA # AA003469 (AR)
PHONE NUMBER: 309-263-4105
BENJAMIN J. ZOBRIST, P.E. REG. # 89211
FL

DRAWN BY:	HBH
DATE:	2/5/2024
CHECKED BY:	RLL
DATE:	2/14/2024
REVISED DATE:	----
REVISED DATE:	----
REVISED DATE:	----
REVISED DATE:	----

Columbia County Building Department
Reviewed for
File Copy
Code Compliance
Plans Examiner

SCALE: AS NOTED

SHEET NO:	OF:
G1	G1

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