

BUILDINGS AND MORE
792 SW BASCOM NORRIS DR.
LAKE CITY, FL 32052

DATE: 11/14/22
COLUMBIA
JOB NO: 7732
BUILDING SIZE:
WIDTH : 42 ft.
LENGTH : 60 ft.
EAVE HT : 14.5 ft. L.S.
JOB SITE: LAKE CITY, FL 32055

To Whom It May Concern:

This Letter of Design Certification ensures that primary and secondary framing furnished by Metal Building Manufacturer are designed in accordance with information specified to Metal Building Manufacturer on the order documents and summarized by loading information below.

DESIGN LOAD CRITERIA:

Building Code:	FBC 20/7th Edition		
Roof Dead Load(D):	2.000 psf plus wt. of metal bldg structure		
Roof Live Load(Lr):	20.00 psf		
Tributary Live Load Reduction:	Yes		
Collateral Load(C)	: 1 psf	Seismic Use Group	: II - Normal
Building Risk Category	: II - Normal	Seismic Site Class	: d
Wind Speed Ultimate	: 117 mph	Mapped Response (Ss)	: 0.0913
Nominal	: 90.63 mph	Mapped Response (S1)	: 0.0529
Wind Exp. Cat	: B	Design Response (Sds)	: 0.0971
Serviceability Wind	: 10 -year MRI	Design Response (Sd1)	: 0.0832
Enclosure Type	: OPEN	Rigid Frame (Cs)	: 0.0324
Internal Wind Coef.	: 0.00/0.00	Design Category (SDC)	: B
		Seismic Importance	: 1.00
		Res Mod Factor (OMF)R	: 3.0000*
		Res Mod Factor (Br)R	: 3.0000*

*=STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

COMPONENTS & CLADDING (unfactored)

Wall Field Values : 16.000 psf / -17.105 psf
Wall Edge Values : 16.000 psf / -21.770 psf

REFERENCE DESIGN STANDARDS:

- *AISC Specification for Structural Steel Buildings-Allowable stress design, 360-16.
- *AISI North-American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition.
- *MBMA Low Rise Building Systems Manual, Latest Edition.
- *AISC Design Guide 3, "Serviceability Design Consideration for Steel Buildings, Second Edition"
- *AWS Latest Edition of Structural Welding Code-Steel.
- * FBC 20/7th Edition are using the ASCE7-16.

This certification is limited to the structural design of the frames, secondary, and roof/wall covering manufactured or supplied by Metal Building Manufacturer only and excludes Accessory items such as doors, windows, louvers, translucent panels, and ventilators. This certification specifically excludes any foundation, masonry, erection of building and general contract work.

The undersigned is not the engineer of record for the overall project.

Sincerely,

Wayne Brad Baker, P.E.
Electronic Signature Authentication Code for Drawings:
2A 6B 21 95 73 7A 5B 9F 3F 46 F3 01

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



57458

10) REINFORCEMENT AND FLANGE BRACE CONNECTIONS SHALL ALWAYS BE SALES TECH. UNO.
11) ANCHOR BOLTS 1/2" IN DIAMETER WITH 1 1/4" IN UNWEIGHTED LENGTH TO A-307, UNLESS OTHERWISE SPECIFIED.
12) ANCHOR BOLTS 1/2" IN DIAMETER WITH 1 1/4" IN UNWEIGHTED LENGTH TO A-307, UNLESS OTHERWISE SPECIFIED.
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APPROVAL NOTES
THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS:
1) IT IS IMPERATIVE THAT ANY CHANGES BE MADE IN THE DRAWINGS BE MADE IN THE DRAWINGS.
2) THE DRAWINGS SHALL BE MADE IN THE DRAWINGS.
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FLORIDA PRODUCT APPROVAL NUMBER 1506967
FISH ROOF PANEL

REVISION INDEX
REV. PAGE DESCRIPTION
1.1 ANCHOR BOLT LAYOUT
1.2 ANCHOR BOLT DETAILS
2.1-2.4 ROOF FRAME CROSS SECTION
3.1 ENDORALL TRAMING LAYOUT
4.1 ENDORALL TRAMING LAYOUT
5.1 FRAMING DETAILS
6.1 ROOF PANELS & TRIM
7.1 ROOF PANEL DETAILS
8.1 ENDORALL PANELS & TRIM
9.1 SPECIAL DETAILS

DATE: 11/14/22
SCALE: NONE
THICK: COVER PAGE
NUMBER: 1
PAGE: 0

FROM: BUILDINGS AND MORE
792 SW BASCOM NORRIS DR.
LAKE CITY, FL 32052

FOR: COLUMBIA
389 NW QUINCY ST.
LAKE CITY, FL 32055

JOB SITE: LAKE CITY, FL 32055

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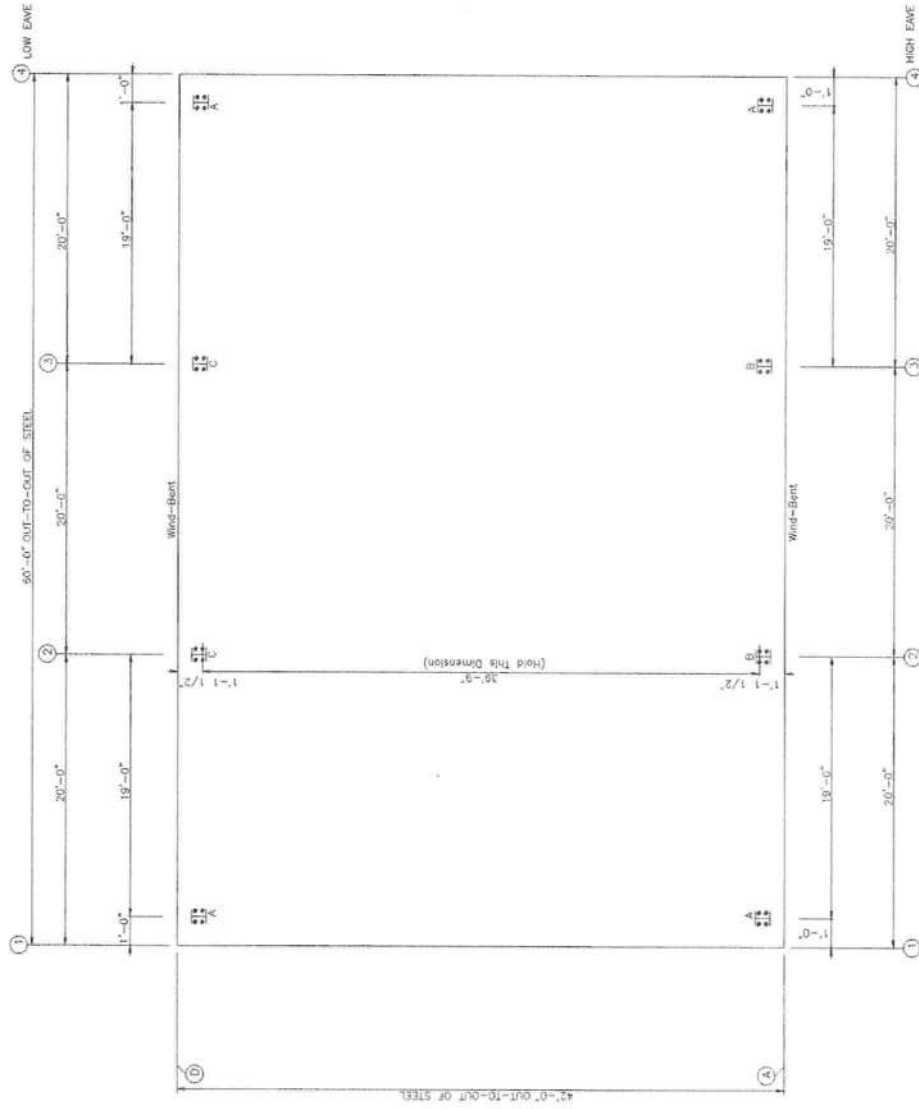
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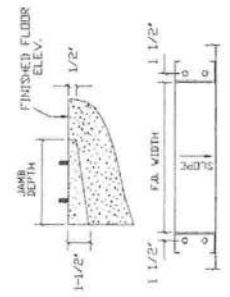
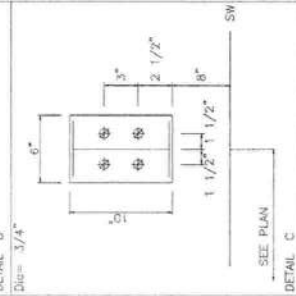
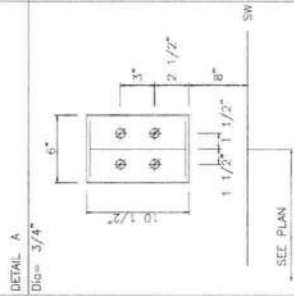
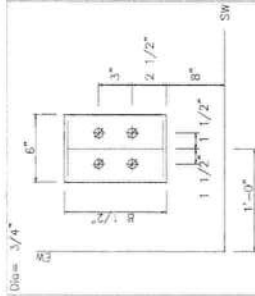
JOB SITE: LAKE CITY, FL 32055

Ø Dia= 3/4"



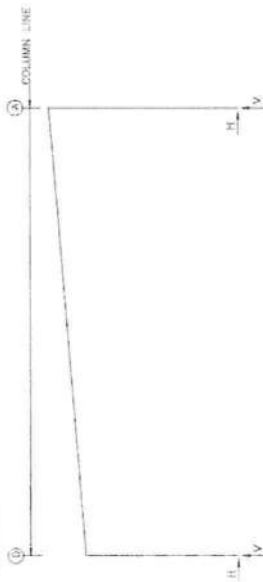
ANCHOR BOLT PLAN
NOTE: All Base Plates 100'-0" (Unless Noted)

ISSUE	DET	CHK	DATE
BUILDINGS AND MORE			
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ANCHOR BOLT LAYOUT			
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ANCHOR BOLT DETAILS			
PAGE 1.1			
CH			
SPW			
NONE			

FRAME LINES: 1 2 3 4



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frame Line	Col Line	Anchor Bolt Qty	Base Plate Width (in)	Base Plate Length (in)	Groat Width (in)	Groat Depth (in)
1*	D	4	0.750	6.000	8.500	0.375
1*	A	4	0.750	6.000	8.500	0.375

1* Frame lines: 1 4

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frame Line	Col Line	Anchor Bolt Qty	Base Plate Width (in)	Base Plate Length (in)	Groat Width (in)	Groat Depth (in)
2*	D	4	0.750	6.000	10.00	0.375
2*	A	4	0.750	6.000	10.50	0.375

2* Frame lines: 2 3

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Projection (in)
8	32	Frame	3/4" GR36	2.50

GENERAL NOTES

1. FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF METAL BUILDING MANUFACTURER.
2. ALL REACTIONS ARE UNFACTORED.
3. ULTIMATE WIND LOADS ARE USED TO DERIVE THE WIND REACTION.
4. ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLERANCE OF 1/8" IN BOTH ELEVATION AND LOCATION.
5. COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED A BEARING PRESSURE OF 1050 POUNDS PER SQUARE INCH.

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead	Colateral	Live	Wind Left	Wind Right	Wind Left	Wind Right
1*	D	0.2	0.9	0.1	0.2	0.8	1.8	3.8
1*	A	-0.2	1.0	0.1	0.2	0.8	1.8	3.8
2*	D	0.3	1.3	0.1	0.4	1.4	2.8	5.9
2*	A	-0.3	1.4	0.1	0.4	1.4	2.8	5.9
3*	D	0.8	2.6	1.1	4.4	0.1	0.0	0.0
3*	A	-0.8	2.6	1.1	4.4	0.1	0.0	0.0
4*	D	1.3	4.1	1.9	-0.9	2.1	0.0	0.0
4*	A	-1.3	4.1	1.9	-0.9	2.1	0.0	0.0
5*	D	2.4	-7.8	2.0	-7.8	1.4	0.1	-0.1
5*	A	-2.4	-7.8	2.0	-7.8	1.4	0.1	-0.1

Frame lines: 1 3

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	= 42.0
Length (ft)	= 14.5
Roof Slope (ft/12)	= 1.0
Dead Load (psf)	= 7.0
Roof Live Load (psf)	= 20.0
Frame Live Load (psf)	= 12.0
Wind Speed (mph)	= 15.0
Wind Code	= 1:17.0
Exposure/Opening/Partial	= EBC 20 (BC 18)
Importance Wind	= OPEN
Importance Seismic	= 1.00
Seismic Zone	= B
Seismic Coeff (1/2S _s)	= 0.15

BUILDING BRACING REACTIONS

Wall	Col	± Reactions (k)	Panel Shear (k/ft)
Loc	Line	Horz	Vert
LEW	1	2.3	1.6
FEW	4	2.3	1.6
REW	4	2.3	1.6
REW	4	2.3	1.6

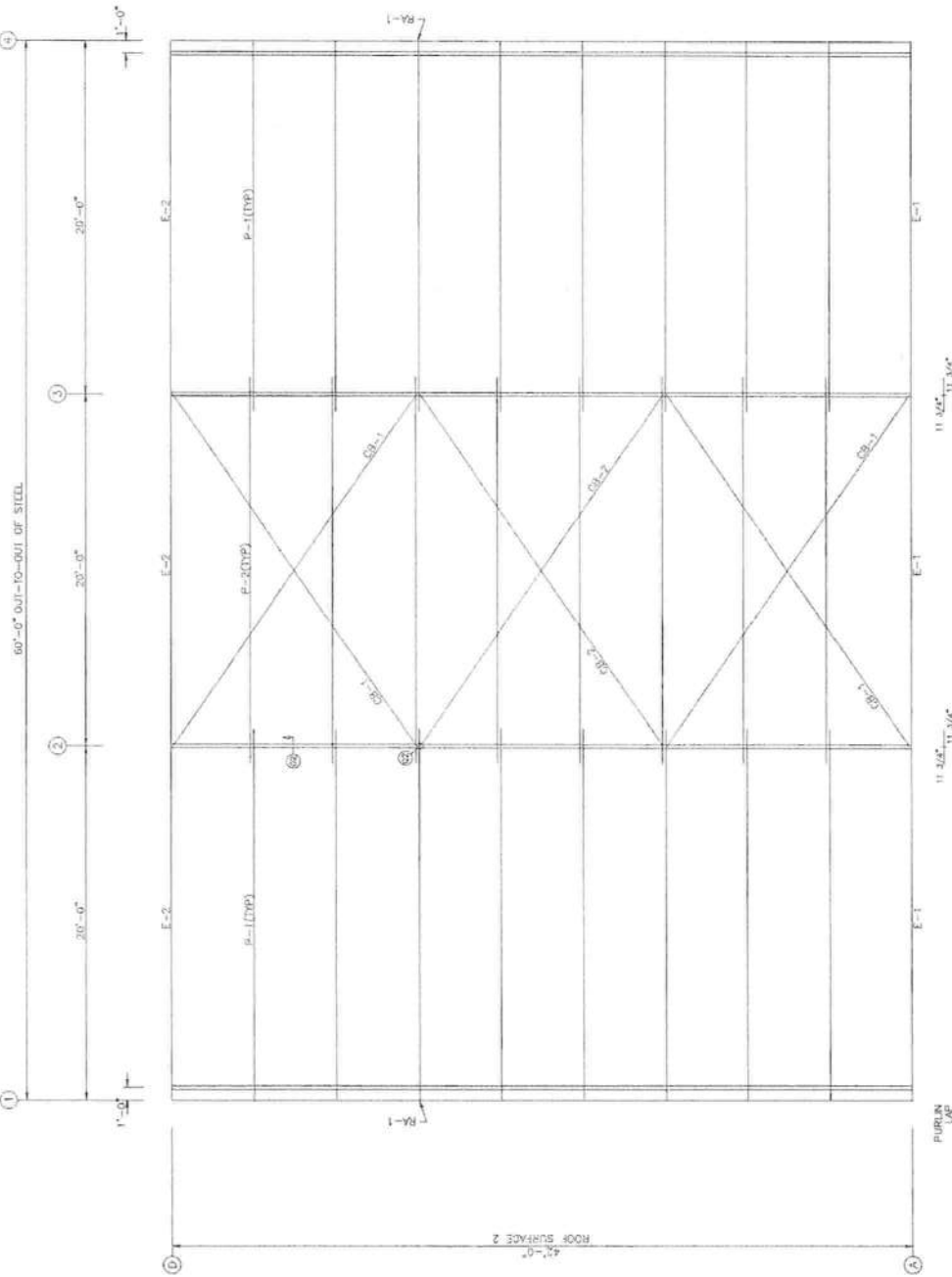
(a) Wind braced in bay, base above finish floor
(b) Rigid frame at eave

NOTE: THE FRAMING AT BOTH ENDWALLS IS NOT DESIGNED TO ACCOMMODATE FUTURE ADDITIONS. REACTIONS CORRESPONDING TO THESE FRAME LINES REFLECT LOADINGS FOR ACTUAL TRIBUTARY AREA AND ARE NOT INTENDED TO INCLUDE ANY FUTURE MODIFICATIONS UNLESS NOTED OTHERWISE.

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ANCHOR BOLT REACTIONS			
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MEMBER TABLE

MARK	PART	LENGTH
P-1	8x25216	20'-11 1/2"
P-2	8x25216	21'-11 1/2"
E-1	8HE14@1	19'-11 1/2"
E-2	8LE14@1	19'-11 1/2"
CB-1	1/4 CBL	23'-9"
CB-2	1/4 CBL	24'-7"



ROOF FRAMING PLAN

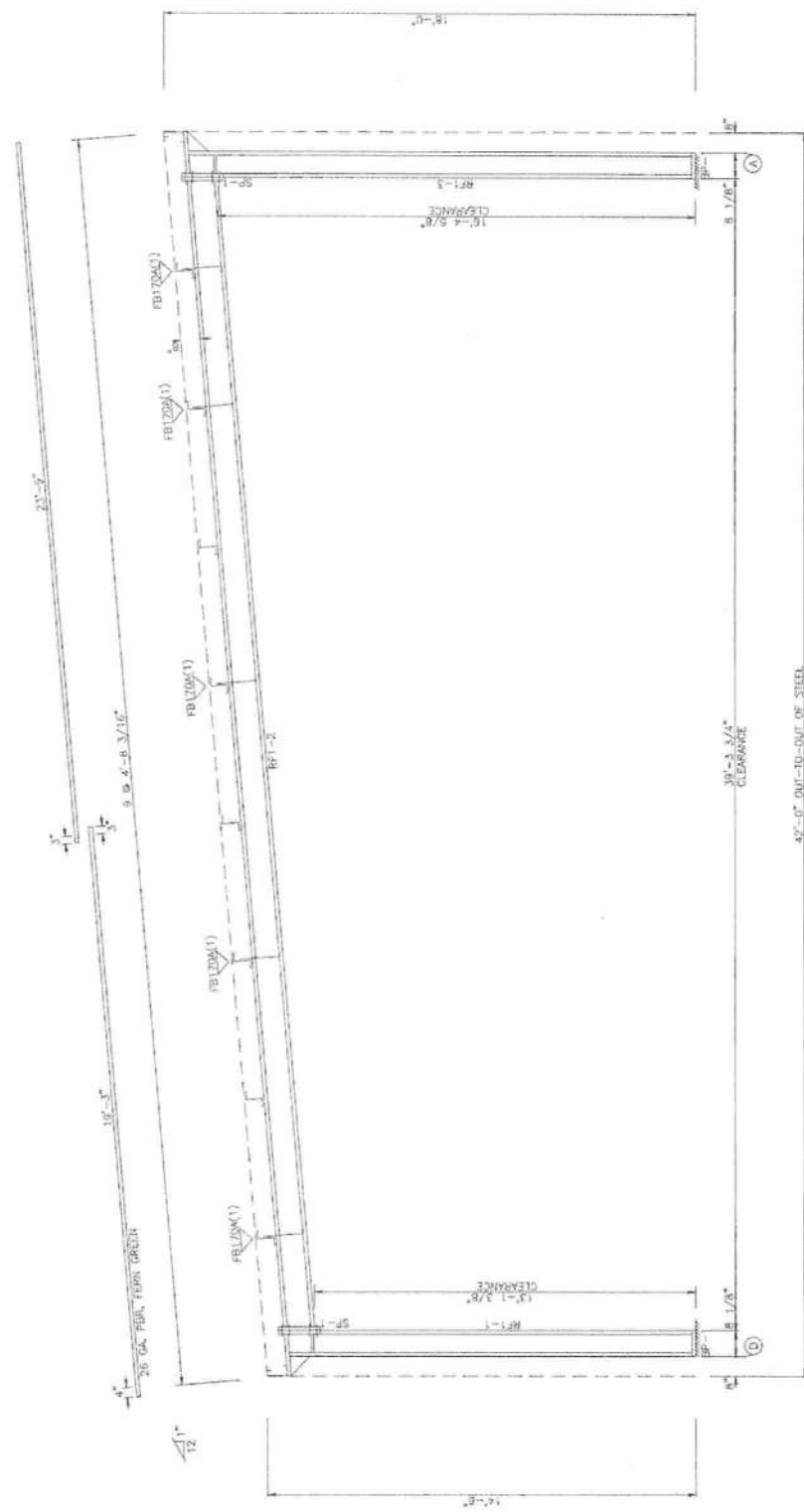
ISSUE	DET	CHK	DATE
BUILDINGS AND MORE			
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ROOF FRAMING LAYOUT			
PAGE 2			
SCALE			NONE

SPURCE BOLT TABLE			
MARK	TOP	BUT	IN TYPE DIA
SP-1	4	4	0 A325 5/8" 2"

BASE PLATE TABLE			
COL	MARK	WIDTH	THICK
BP-1	16	3/8	8 1/2"

FRAME BRACES: (1) One Side; (2) Two Sides
 A - 12x2x14

MEMBER SIZE TABLE			
MARK	MEMBER	LENGTH	WEIGHT
RF-1	W14x15	15'-10 5/8"	229
RF-2	W14x12	20'-0 1/4"	512
RF-3	W14x18	12'-5 3/8"	339



RIGID FRAME ELEVATION: FRAME LINE 1 4

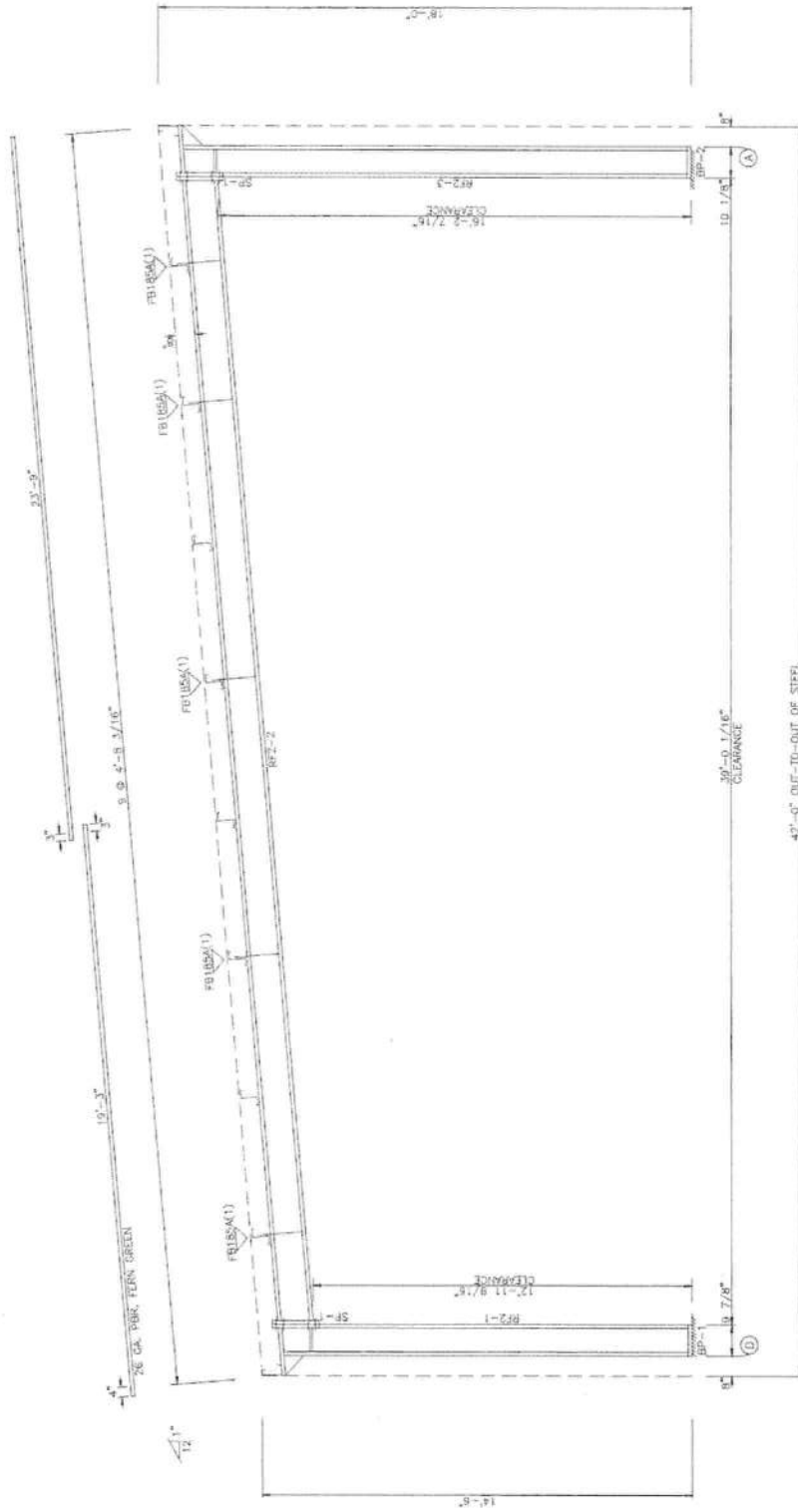
ISSUE	DET	CHK	DATE
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COLUMBIA			
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RIGID FRAME CROSS SECTION			
PAGE 2.1			
SPW			NONE

SPRICE BOLT TABLE			
Mark	Qty	Top Bolt Int Type	DA Length
SP-1	4	4	A335 5/8" 2"

BASE PLATE TABLE			
CO.	PLATE SIZE	width	Thick Length
Mark	width	Thick	Length
SP-1	6"	3/8"	10 1/2"
SP-2	6"	3/8"	10 1/2"

FLANGE BRACES: (1) One Side; (2) Two Sides
 A = 12x2x14

MEMBER SIZE TABLE			
MARK	MEMBER	LENGTH	WEIGHT
RF2-1	W10X12	15'-10 5/8"	180
RF2-2	W12X14	39'-1 5/16"	364
RF2-3	W10X11	17'-3 1/2"	118

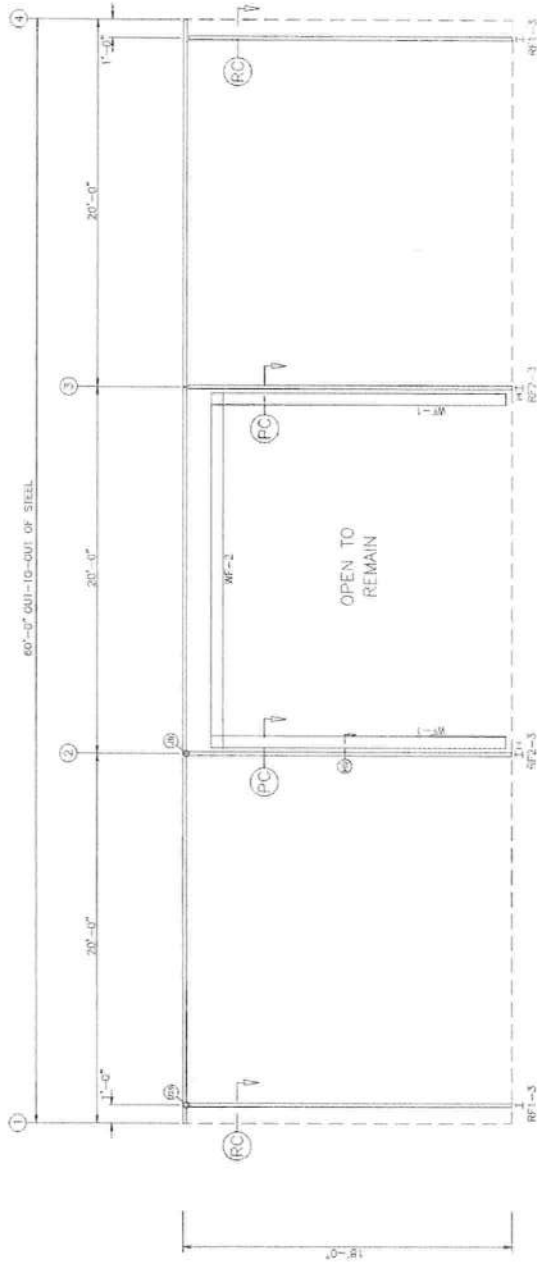


RIGID FRAME ELEVATION: FRAME LINE 2 3

ISSUE		DET	CHK	DATE
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COLUMBIA				
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RIGID FRAME CROSS SECTION				
PAGE 2.2				

BOLT TABLE					
FRAME LINE A & D					
LOCATION	QUAN	TYPE	DIA	LENGTH	
WF-1	8	A325	5/8"	2"	
WF-1	8	A325	5/8"	2"	
WF-3	8	A325	5/8"	2"	
WF-3	8	A325	5/8"	2"	

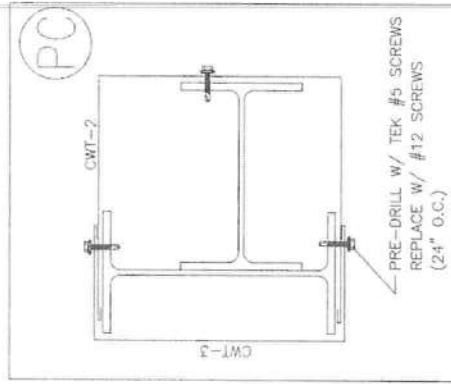
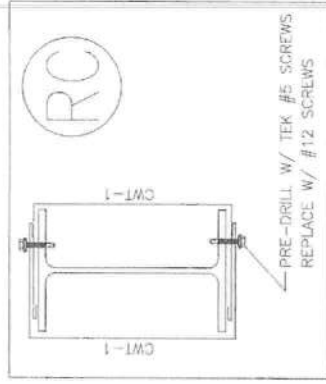
MEMBER TABLE		
FRAME LINE A & D	PART	LENGTH
WF-1	W8X10	16'-4"
WF-2	W8X18	18'-1 5/8"
WF-3	W8X10	12'-10"



SIDEWALL FRAMING; FRAME LINE A



SIDEWALL FRAMING; FRAME LINE D



ISSUE	REV	DATE
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COLUMBIA		
JOB NO. 7732		
DATE 11/14/22		
LOCATION LAKE CITY, FL 32085		
PROJECT SIDEWALL FRAMING LAYOUT		
DESIGNED BY	CHECKED BY	DATE
PAGE 3	CH	NONE

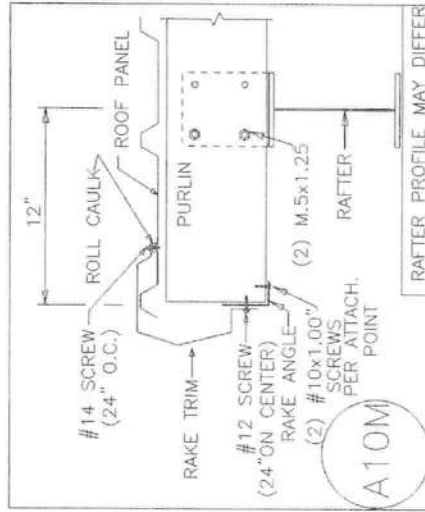
ALL VEHICULAR FRAMED OPENINGS SUPPLIED ON THIS PROJECT HAVE BEEN DESIGNED TO SUPPORT WIND LOADS NORMAL TO A DOOR SYSTEM, BASED ON THE STANDARD BUILDING CODE CRITERIA. THE VEHICULAR FRAMED OPENING HAS NOT BEEN DESIGNED FOR ANY ADDITIONAL WIND OR CATERINARY FORCE FROM THE DOOR SYSTEM. ANY CHANGES TO THE INFORMATION SHOWN HERE WOULD REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.



ENDWALL FRAMING: FRAME LINE 1



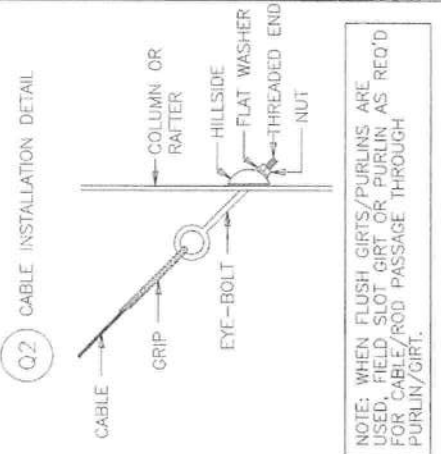
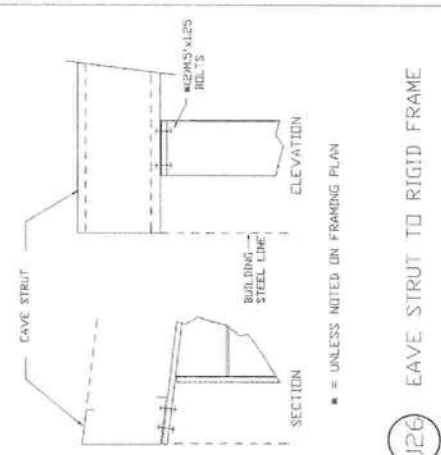
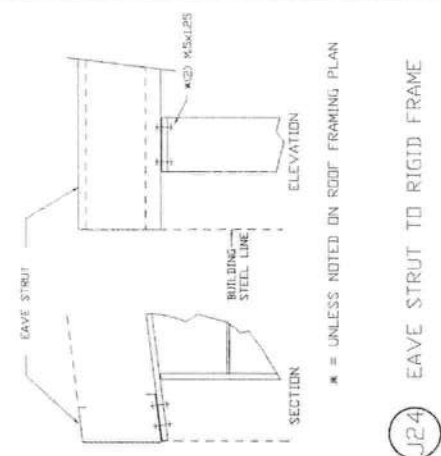
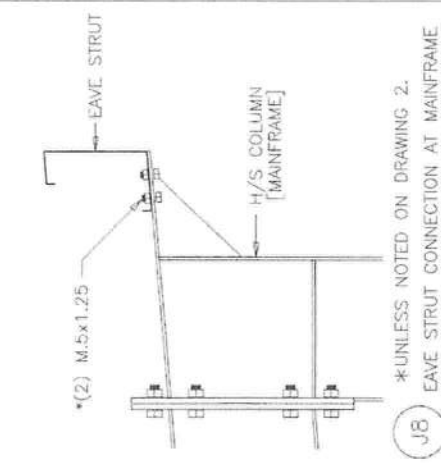
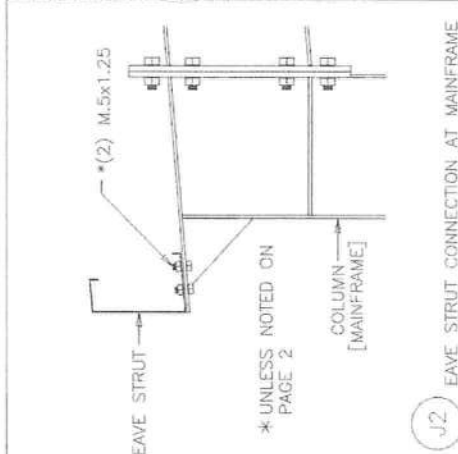
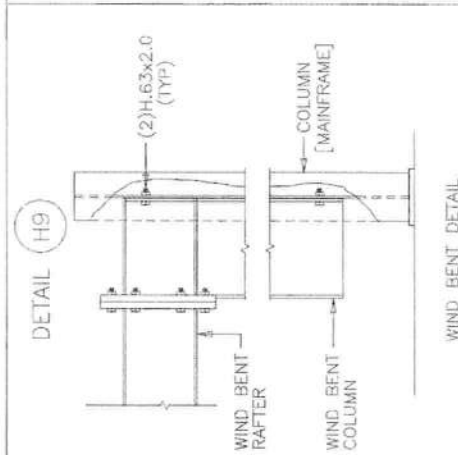
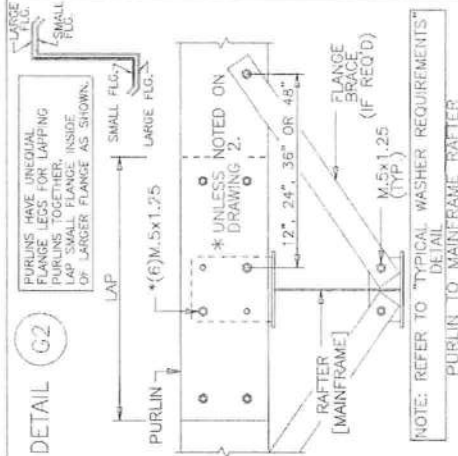
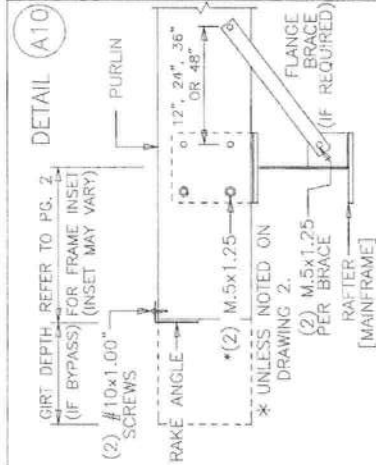
ENDWALL FRAMING: FRAME LINE 4



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NOTE: THE FRAMING AS DEPICTED ABOVE IS NOT DESIGNED TO ACCOMMODATE ANY FUTURE EXPANSION.

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BUILDINGS AND MORE			
COLUMBIA			
7732			11/14/22
COLUMBIA LAKE CITY, FL 32055			
ENDWALL FRAMING LAYOUT			
15	4	01	SPW
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NOTE			



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COLUMBIA			
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PROJECT NAME	FRAMING DETAILS		
DESIGNED BY	CH	CHECKED BY	SCALE
PAGE 5			NONE

STRUCTURAL BOLTED CONNECTIONS

REFER TO COVER PAGE "GENERAL NOTES" PARAGRAPH "C", SECTION "9" FOR INSTRUCTIONS ON TIGHTENING ALL A325 AND A490 CONNECTION BOLTS.

TRIM NOTES:

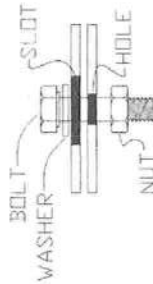
- [1] SEAL TRIM SPLICES WITH TUBE CAULK.
- [2] SECURE GUTTER SPLICES AND END PLUGS WITH RIVETS.
- [3] SECURE ALL OTHER ROOF TRIM SPLICES WITH TRIM SCREWS UNLESS NOTED OTHERWISE.
- [4] TRIM SCREWS ARE LOCATED 24" ON CENTER UNLESS NOTED OTHERWISE.
- [5] STD. TRIM SPLICES ARE 3" TOTAL UNLESS NOTED OTHERWISE.

MORTISE PREPPED PERSONNEL DOORS

ALL MORTISE PREPPED PERSONNEL DOORS COME AS RIGHT-HAND REVERSED SWING. (i.e. STANDING ON THE OUTSIDE OF THE BUILDING FACING THE DOOR, THE LOCK WILL BE ON THE LEFTHAND SIDE OF THE DOOR AND THE DOOR WILL SWING OUTWARD FROM THE BUILDING.) ANY FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE ERECTOR AND MBM IS NOT LIABLE FOR LABOR CHARGES NOR DAMAGES DUE TO ERROR.

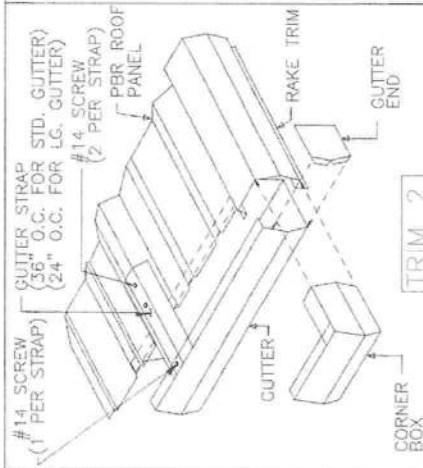
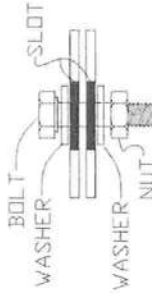
TYPICAL WASHER REQUIREMENTS (UNLESS NOTED OTHERWISE ON DRAWINGS)

SLOT TO HOLE CONN.
WASHER REQUIRED ON SLOTTED SIDE



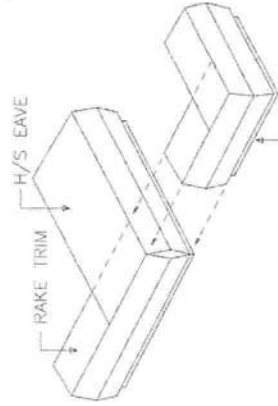
HOLE TO HOLE CONN.
NO WASHERS REQ'D.

SLOT TO SLOT CONN.
WASHERS ARE REQUIRED ON EACH SLOTTED SIDE.
(**WASHER(S) NOT REQ'D WITH LAPPED ZEE PURLIN/GIRT AREAS**)



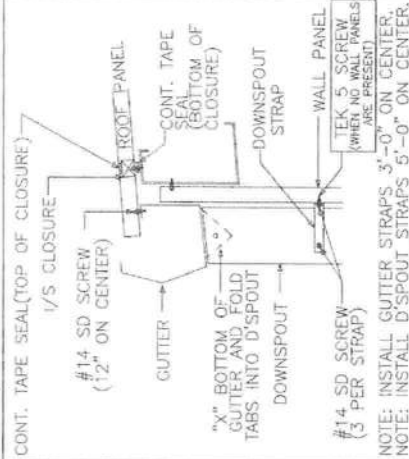
TRIM_2

GUTTER END DETAIL



TRIM_15

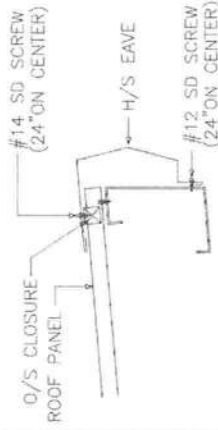
H/S CORNER BOX DETAIL



TRIM_1

GUTTER DETAIL

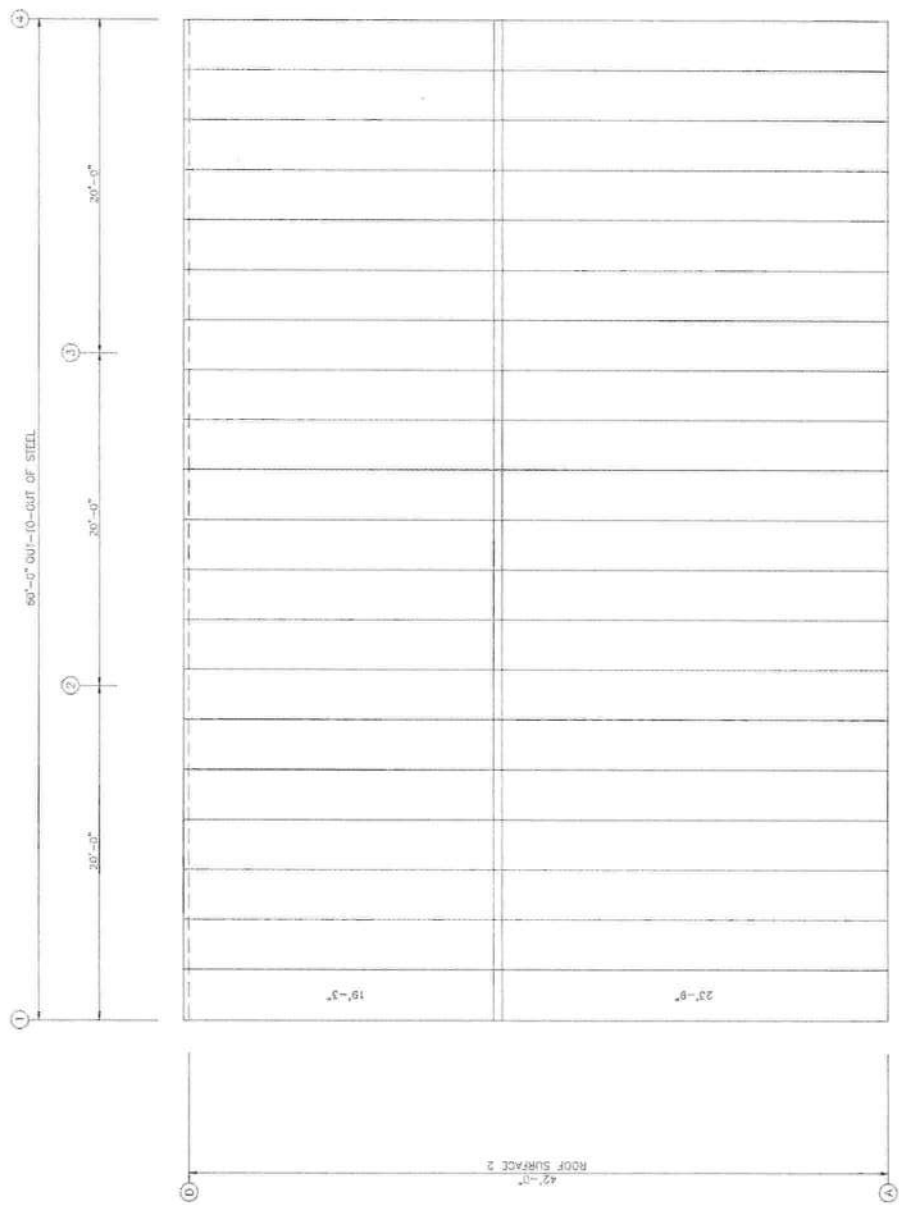
NOTE: INSTALL GUTTER STRAPS 3'-0" ON CENTER.
NOTE: INSTALL D'SPOUT STRAPS 5'-0" ON CENTER.



TRIM_19

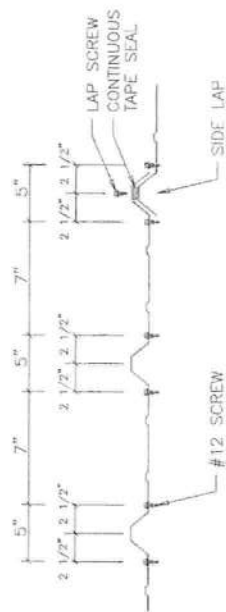
H/S EAVE DETAIL

ISSUE	REV	CHK	DATE
BUILDINGS AND MORE			
COLUMBIA			
JOB NO.	7732	DATE	1/14/22
LOCATION	JANE CITY, FL 32055		
PROJECT NAME	FRAMING DETAILS		
SCALE	1/8" = 1'-0"	CH	SPW
PAGE	5.1		NONE

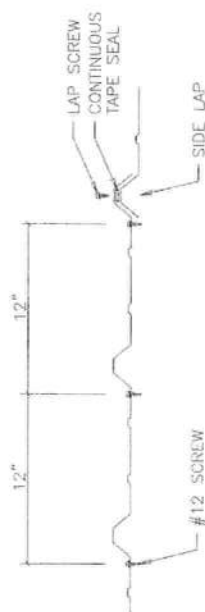


ROOF SHEETING PLAN
 PANELS: 26 GA. PBR - FERN GREEN

ISSUE	DET	CHK	DATE
BUILDINGS AND MORE			
COLUMBIA			
JOB NO.	7732	DATE	11/14/22
LOCATION	LAKE CITY, FL 32065		
DESCRIPTION	ROOF PANELS & TRIM		
Drawn by	CH	Checked by	SPW
PAGE	6	SHEET	NONE



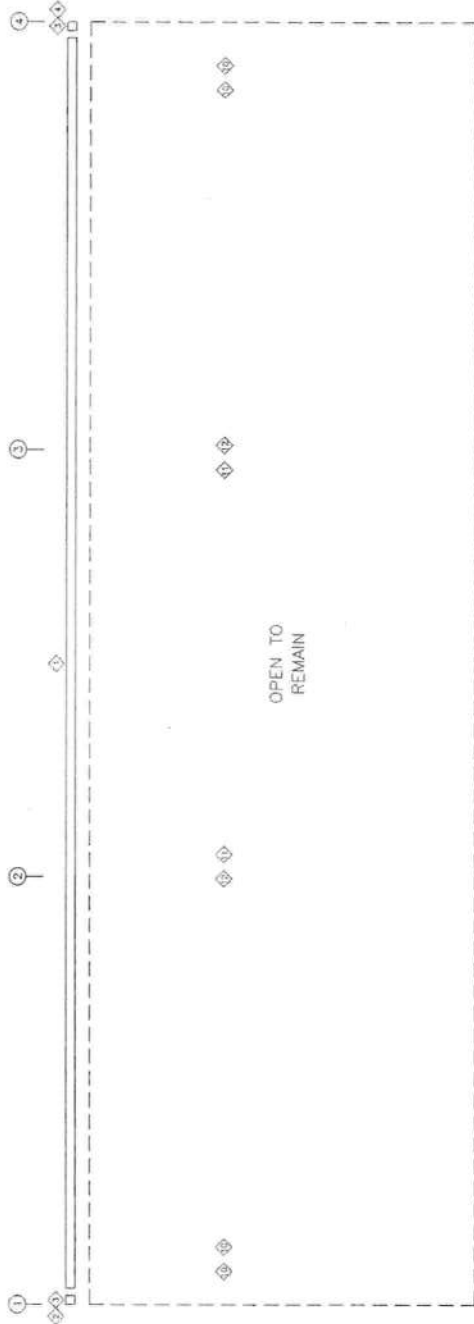
PANEL ATTACHMENT AT PANEL END
(PEAK PURLIN, EAVE STRUT, AND PANEL END LAPS)



PANEL ATTACHMENT AT INTERMEDIATE MEMBERS

[illegible]

TRIM TABLE			FRAME LINE A & D	DETAIL
QID	PART	LENGTH		
1	H/S EAVE	20'-3"		TRIM_19
2	HS COR L	1'-0"		TRIM_15
3	RAKE BOX	1'-4"		
4	HS COR R	1'-0"		TRIM_15
5	GUTTER	20'-3"		TRIM_1
6	GUTTER L	1'-0"		TRIM_2
7	CORBOX L	1'-0"		TRIM_2
8	CORBOX R	1'-0"		TRIM_2
9	CORBOX L	1'-0"		TRIM_2
10	CWT-1	18'-0"		PC/PG_3
11	CWT-2	18'-0"		PC/PG_3
12	CWT-3	18'-0"		PC/PG_3



SIDEWALL TRIM: FRAME LINE A



SIDEWALL TRIM: FRAME LINE D

ISSUE	DET	CHK	DATE
BUILDINGS AND MORE			
COLUMBIA			
7732			11/14/22
LAKE CITY, FL 32055			
SIDEWALL PANELS			
PAGE	7	SPW	NONE

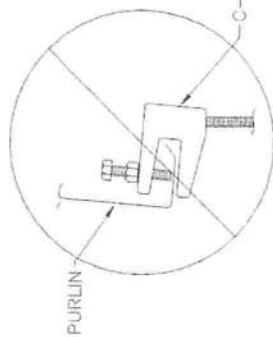
TRIM TABLE			
FRAME LINE	1	8	4
OLD PART			LENGTH
1	SAKE TRM	1	4'-4"



ISSUE	REV	CHK	DATE
BUILDINGS AND MORE			
COLUMBIA			
2732			11/14/22
LAKE CITY, FL 33005			
ENDWALL PANELS & TRIM			
PAGE 8	CH	SPW	NONE

PURLIN
(BY M.B.M.)

ATTACHMENT BY OTHERS
DO NOT DRILL HOLES INTO
THE FLANGES



Flange C-Clamp is not
an acceptable connection

NOTE: M.B.M. only provides the
roof purlin. All other material
and hardware is by others.

Recommended Connection Detail

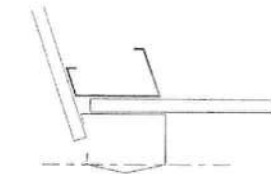
NOTE

MANY FACTORS BEYOND THE CONTROL OF THE METAL BUILDING SUPPLIER AFFECT THE ABILITY OF A PURLIN TO SAFELY SUPPORT HANGING LOADS COMBINED WITH OTHER REQUIRED ROOF LOADS. DUE TO THE VARIABLES INVOLVED IN HANGING LOADS AND THEIR ATTACHMENTS TO THE PURLINS, THE METAL BUILDING SUPPLIER CANNOT ASSURE THAT THE PURLINS FOR A PARTICULAR BUILDING PROJECT CAN SAFELY SUPPORT THE MAXIMUM ALLOWABLE HANGING LOADS IN COMBINATION WITH OTHER ROOF LOADS.

IT IS THE RESPONSIBILITY OF THE HANGER SYSTEM INSTALLER TO COORDINATE WITH THE ENGINEER OF RECORD FOR THE OVERALL PROJECT TO ENSURE A SAFE HANGING LOAD INSTALLATION. THE METAL BUILDING ENGINEER IS NOT THE ENGINEER OF RECORD FOR THE OVERALL PROJECT. WITHOUT SPECIFIC CERTIFICATION FOR INDIVIDUAL HANGING LOADS, THE NET EFFECTS OF APPLIED HANGER LOADS INSTALLED ON A PARTICULAR PURLIN SHALL NOT EXCEED THE NET EFFECTS OF THE CERTIFIED UNIFORMLY APPLIED DESIGN COLLATERAL LOAD.

HANGING LOADS SHOULD NOT BE APPLIED TO THE PURLIN LIP, WHERE PERMISSIBLE, THE BEST PRACTICE FOR HANGING LOADS IS TO ATTACH TO THE PURLIN WEB USING A BOLT AND NUT, OR SELF-DRILLING SCREWS.

HANGING UNIFORM LOADS SUCH AS SPRINKLER MAINS OR HVAC EQUIPMENT SHOULD BE DISTRIBUTED OVER SEVERAL PURLINS, AND SHOULD NEVER EXCEED THE COLLATERAL LOAD ALLOWANCE FOR THE ROOF SYSTEM. FOR UNIFORM LOADS THAT RUN PARALLEL TO THE PURLINS, IT MAY BE NECESSARY TO USE TRANSVERSE SUPPORT CHANNELS (A.K.A. TRAPEZOID BEAMS) ATTACHED TO THE WEBS OR FLANGES OF ADJACENT PURLINS TO SPREAD THE LOAD BETWEEN TWO OR MORE PURLINS. IN SUCH CASES, CONTACT THE BUILDING MANUFACTURER OR A LOCAL PROFESSIONAL ENGINEER PRIOR TO ATTEMPTING TO HANG LOADS FROM THE PURLINS.

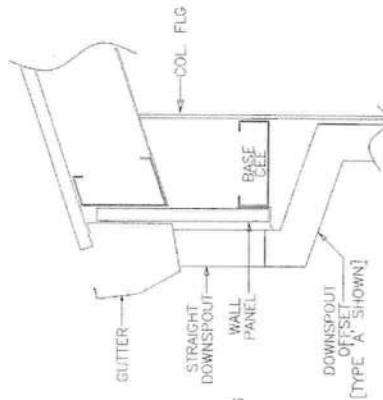


DO NOT INSTALL GUTTER WITH
OUTSIDE FACE PERPENDICULAR
TO THE GROUND.

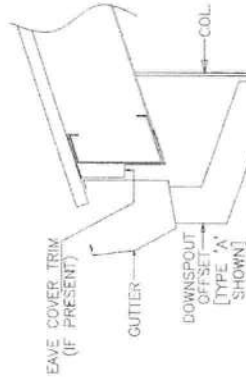


INSTALL GUTTER WITH
OUTSIDE FACE PERPENDICULAR
TO THE ROOF.

GUTTER INSTALLATION DETAIL
(ONLY IF PROVIDED)



DOWNSPOUT OFFSET GUIDE
FOR SIDEWALLS WITHOUT WALL PANELS
(REFER TO TRIM DETAILS FOR STRAP
AND FASTENER INSTALLATION INSTRUCTIONS!)



DOWNSPOUT OFFSET GUIDE
FOR PARTIAL SIDEWALLS WITH WALL PANELS
(REFER TO TRIM DETAILS FOR STRAP
AND FASTENER INSTALLATION INSTRUCTIONS!)

ISSUE	DET	CHK	DATE
BUILDINGS AND MORE			
COLUMBIA			
FILE NO.	7732	DATE	11/14/22
LOCATION	LAKE CITY, FL 32055		
SPECIAL DETAILS			
DESIGNED BY	CH	CHECKED BY	SPW
PAGE	9	SCALE	NONE