#### GENERAL NOTES

1.1 Eabrication shall be in accordance with A.S.C. standard practices in compliance with the applicable sections, relating to design requirements and allowable stresses of the latest edition of the "AWS Structural Welding Code D1.1 and D1.3".

1.2	MATERIALS	ASTM_DESIGNATION A572	MIN. YIELD STRENGTH Fv = 50 KSI
	Hot Rolled Steel Shapes (W, & C)		
	Hot Rolled Steel Angles (L)	A36	Fy = 36 KSI
	Steel Pipes	A500	Fy = 42 KSI
	Structural Tubing	A500	Fy = 42 KSI
	Structural Steel Web Plate	A572/A1011	Fy = 50 KSI
	Structural Steel Flange Plates/Bars	A529/A572	Fy = 55 KSI
	Cold Formed Light Gage	A653/A1011	Fy = 55 KSI
	Roof and Wall Sheets	A792/A653	Fy = 50, 80  KSI
	Cable Brace	A475 - TYPE 1	Extra High Strength
	Rod Brace	A529	Fy = 50 KSI
			MIN. TENSILE STRENGTH

Machine Bolts & Nuts Fu = 60 KSIHigh Strength Bolts (1"ø and less)
High Strength Bolts (>1"ø to 1 1/2"ø)
Anchor Bolts (Not supplied by A.S.C.) A325-TYPE 1 A325-TYPE 1 A36/A307/F1554 Fu = 60 KSI

PRIMER
Shop primer paint is a rust inhibitive primer which meets the end performance of Federal Specification SSPC No. 15 and is A.S.C. Gray Oxide color. This paint is not intended for long term exposure to the elements. A.S.C. is not responsible for any deterioration of the shop primer paint as a result of improper handling and/or jobsite storage. A.S.C. shall not be responsible for any field applied paint and/or coatings. (AISC Code of Standard Practice, Latest Edition).

Naminal thickness of primer will be 1 mil unless otherwise. Nominal thickness of primer will be 1 mil unless otherwise specified in contract documents.

1.4 GALVANIZED OR SPECIAL COATINGS:

1.5 ALL BOLTS ARE 1/2"ø x 0'-1 1/4" A307 EXCEPT :

a) Endwall rafter splice -5/8"ø x 0'-1 3/4" A325-N b) Endwall column to rafter connection -1/2"ø x 0'-1 1/4" A325 MIN.(SEE WALL ELEVATION)

c) Main frame connections — SEE CROSS SECTION d) Flange Brace connections — 1/2"ø x 0'-1 1/4" A325

NOTE: Washers are not supplied unless noted otherwise on drawing

1.6 A325 BOLT TIGHTENING REQUIREMENTS

All high strength bolts are A325-N unless specifically noted otherwise. Holes are not slotted and design is bearing connection. Structural bolts shall be tightened by the turn-of-the-nut method in accordance with the Latest Edition AISC "Specification For Structural Joints" using ASTM A325 or A490 Bolts, when specifically required. A325-N bolts are supplied without washer unless otherwise noted on the drawings.

All bolted connections unless noted are designed as bearing type connections with bolt threads not excluded from the shear plane.

1.7 CLOSURE STRIPS ARE FURNISHED (IF ORDERED) FOR APPLICATION:

INSIDE— Under roof panels & base of wall panels OUTSIDE — Between roof panels & ridge cap - Between wall panels & eave/gable trim

All bracing, strapping, & bridging shown and provided by A.S.C. for this building is required and shall be installed by the erector as a permanent part of the structure. If additional bracing is required for stability during erection, it shall be the erector's responsibility to determine the amount of such bracing and to procure and install as needed.

1.9 ERECTION AND UNLOADING NOT BY A.S.C.

1.10 SHORTAGES

Any claims or shortages by buyer must be made to A.S.C. within five (5) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed.

1.11 CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10) Claims for correction of alleged misfits will be disallowed unless A.S.C. shall have received prior notice thereof and allowed reasonable inspection of such misfits. The correction of minor misfits by the use of drift pins to draw the components into line, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim. No part of the Building may be returned for alleged misfits without the prior approval of A.S.C.

## BUYER/END USE CUSTOMER RESPONSIBILITIES

- 2.1 It is the responsibility of the BUYER/END USE CUSTOMER to obtain appropriate approvals and secure necessary permits from City, County, State, or Federal Agencies as required, and to advise/release A.S.C. to fabricate
- 2.2 Armstrong Steel Corp (hereafter referred to as A.S.C.) standard specifications apply unless stipulated otherwise in the Contract Documents. A.S.C. design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USE CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications.
- 2.3 In case of discrepancies between A.S.C. structural steel plans and plans for other trades, A.S.C. plans shall govern. (Section. 3 AISC Code of Standard Practices, Latest Edition)
- 2.4 Approval of A.S.C. drawings and calculations indicates that A.S.C. has correctly interpreted and applied the Contract Documents. This approval constitutes the contractor/awners acceptance of the A.S.C. design concepts, assumptions, and loading. (Section 4 AISC Code and MBMA 3.3.3)
- 2.5 Once the BUYER/END USE CUSTOMER has signed A.S.C. Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/ END USE CUSTOMER including material, engineering and other costs. An additional fee may be charged if the project must be moved from the fabrication and
- 2.6 The BUYER/END USE CUSTOMER is responsible for overall project coordination. All interface, compatibility, and design considerations concerning any materials not furnished by A.S.C. and A.S.C. steel system are to be considered and coordinated by the BUYER/END USE CUSTOMER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or A.S.C. assumptions will govern (AISC Code of Standard Practice, Latest Edition)



PHONE: 800-345-4610 www.armstrongsteel.com

NO.:

CUSTOMER: END USER: END USE : LOCATION PH. NO.

DESIGN LOADS:

## THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING AS INDICATED:

BUILDING DESCRIPTION:

PARTS SUPPLIED BY ANYONE OTHER THAN ARMSTRONG ARE SPECIFICALLY

SUPERVISION IS IMPLIED.

DESIGN CONDS.		DOILDING DESCI	11011.
Design Code / Wind Code Building Risk Category Enclosure Dead Load (psf)	: IBC 18 / IBC 18 : II — Normal : Closed : 2.65	Width (ft) Length (ft) Eave Ht. at BSW Eave Ht. at FSW	
Collateral Load (psf)	: 6.00	Roof Slope at B	
Wind Load		Roof Slope at F	
Ultimate Wind Speed, (Vult) (mph)	: 138.0	Bay Spacing (ft	) : 2 at 24
Wind Exposure	: C	COVERING AND	TRIMS:
Internal Pressure Coefficient, GCpi	: 0.18 /-0.18 : 44.7 /-48.5	Roof Panels &	Trims
Wall Panel Design Wind Pressure (psf) Live Load	. 44.7 / - 40.3	Panel Type	: 26 Ga. R-Loc
Primary Framing (psf)	: 20.00	Panel Color	: Galvalume Plus
Trib. Area Reduction	: No	Trim Colors	
Secondary Framing (psf)	: 20.00	Gable/Eave	Trim : Burnished Slate 40 yr
Snow Load	. 20.00	Eave Gutte	r :Burnished Slate 40 yr
Ground Snow Load, Pg (psf)	: 5.00	Wall Panel & Tr	ims
Roof Snow Load, Pf (psf)	: 5.00	Panel Type	:26 Ga. R-Loc
Sloped Roof Snow Load, Ps (psf)	: 5.00	Panel Color	:Charcoal 40 yr
Snow Exposure Factor, Ce	: 1.0000	Trim Colors	
Snow Importance Factor, Is	: 1.00	Corner Trin	-
Thermal Factor, Ct	: 1.20	Opening Tr	
Sloped Factor, Cs	: 0.860	Downspouts	
Seismic Load		Base Trim	: Charcoal 40 yr
Seismic Importance Factor, le	: 1.00		
Site Class	: D		
Mapped Spectral Response Acceleration			
Spectral Response Coefficients	: Sds = 0.763 : Sd1 =	0.43/	
Seismic Design Category	:D :Steel System Not Spe	oifically	
Basic Force Resisting Systems Used	Detailed For Resistanc	,	
	: Rigid Frames (OMF)	C	
	: Braced Frames (OCBF,	/OMF)	
Total Design Base Shear, V (kips)	: Longitudinal = 7.44	, ,	
	: Transverse = 8.28		
Response Modification Factors, R	:Rigid Frames = 3.00	$\Omega = 3.00$	
	: SW $X$ -Bracing = 3.00	$\Omega = 2.00$	
	:SW Wind Bent = 3.00	$\mathbf{\Omega} = 3.00$	
Seismic Response Coefficient, Cs	:Rigid Frames = 0.254	6	SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT ARMSTRONG
·	: SW X-Bracing = 0.254	6	STEEL ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL
	:SW Wind Bent = $0.2546$	6	FOR THIS PROJECT. ONLY THE DESIGN
	<b>.</b>		OF THE METAL BUILDING SYSTEM AS FURNISHED BY A.S.C. IS INCLUDED.
Analysis Procedure Used	: Equivalent Lateral Ford	ce Procedure	FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER
Other Loads/Requirements			PARTS SUPPLIED BY ANYONE OTHER

<u>Drawing Index</u>	<u>×</u>
<u>Drawing Name</u>	Page(s)
Drawing Cover	COVER
3D Reference	3D REF
Anchor Bolt Plan	1
Anchor Bolt Details	2
Anchor Bolt Reactions	3
Rigid Frame	4,5
Front Sidewall	6
Back Sidewall	7
Left Endwall	8
Right Endwall	9
Roof Plan	10
Details	11-14

### BUYER/END USE CUSTOMER RESPONSIBILITIES CONTINUED

- 2.7 It is the responsibility of the BUYER/END USE CUSTOMER to insure that A.S.C. plans comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that A.S.C. or its design engineers are acting as the engineer of record or design professional for a construction project. These drawings are sealed only to certify the design of the structural components furnished by A.S.C.
- 2.8 The BUYER/END USE CUSTOMER is responsible for setting of anchor bolts and erection of steel in accordance with A.S.C. "For Construction" drawings only. Temporary supports such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined furnished and installed by the erector. No items should be purchased from a preliminary set of drawings, including anchor bolts. Use only final "FOR CONSTRUCTION DRAWINGS" for this use. (AISC Code of Standard Practice,
- 2.9 Armstrong Steel Corp is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing and tension, but is not responsible for the transfer of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the

Unless otherwise provided in the Order Documents, A.S.C. Unless otherwise provided in the Order Documents, A.S.C. does not design and is not responsible for the design, material and construction of the foundation or foundation embedments. The END USE CUSTOMER should assure himself that adequate provisions are made in the foundation design for loads imposed by column reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the building in the conditions building site. t is recommended that the anchorage and foundation of the building be

designed by a Registered Professional Engineer experienced in the design of such structures. (Latest MBMA Low Rise Building Systems Manual)

- 2.10 Normal erection operations include the corrections of minor misfits by normal erection operations include the corrections of minor mishts by moderate amounts of reaming, chipping, welding or cutting, and the drawing of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member configuration are to be reported immediately to A.S.C. by the BUYER/END USE CUSTOMER, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others. (AISC Code of Standard Practice
- 2.11 Neither the fabricator nor the BUYER/END USE CUSTOMER will cut, drill or otherwise alter his work, or the work of other trades, to accommodate other trades, unless such work is clearly specified in the contract documents. Whenever such work is specified, the BUYER/END USE CUSTOMER is responsible for furnishing complete information as to materials, size, location and number of alterations prior to preparation of shop drawings. (AISC Code of Standard Practice Latest Edition)
- 2.12 WARNING In no case should Galvalume steel panels be used warking. In a case should convain seed panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume allay coating when they are in contact with Galvalume steel panels. Even run—off from copper flashing, wiring, or tubing onto Galvalume should be avoided.
- 2.13 <u>SAFETY COMMITMENT</u> Armstrong Steel Corp has a commitment to manufacture quality building components that can be safely erected. However, the safety commitment and job site practices of the erector are beyond the control of A.S.C. are beyond the control of A.S.C. It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Local State, and Federal safety and health standards should always be followed to help insure workers safety. Make certain all employees know the safest and most productive way of erecting a building. Emergency procedures should be known to all employees. Daily meetings highlighting safety procedures are also recommended. The use of hard hats, rubber sale shoes for roof work, proper equipment for handling material, and safety nets where applicable, are recommended.
- 2.14 Roof drainage systems (gutter, downspouts, etc.) must be free of any obstruction
- 2.15 It is recommended by Factory Mutual (Reference: B2.44) that roofs be cleared of snow when half of the maximum snow depth is reached. The maximum snow depth can be estimated based on the design snow load and the density of snow and/or ice buildup. See Chart below.

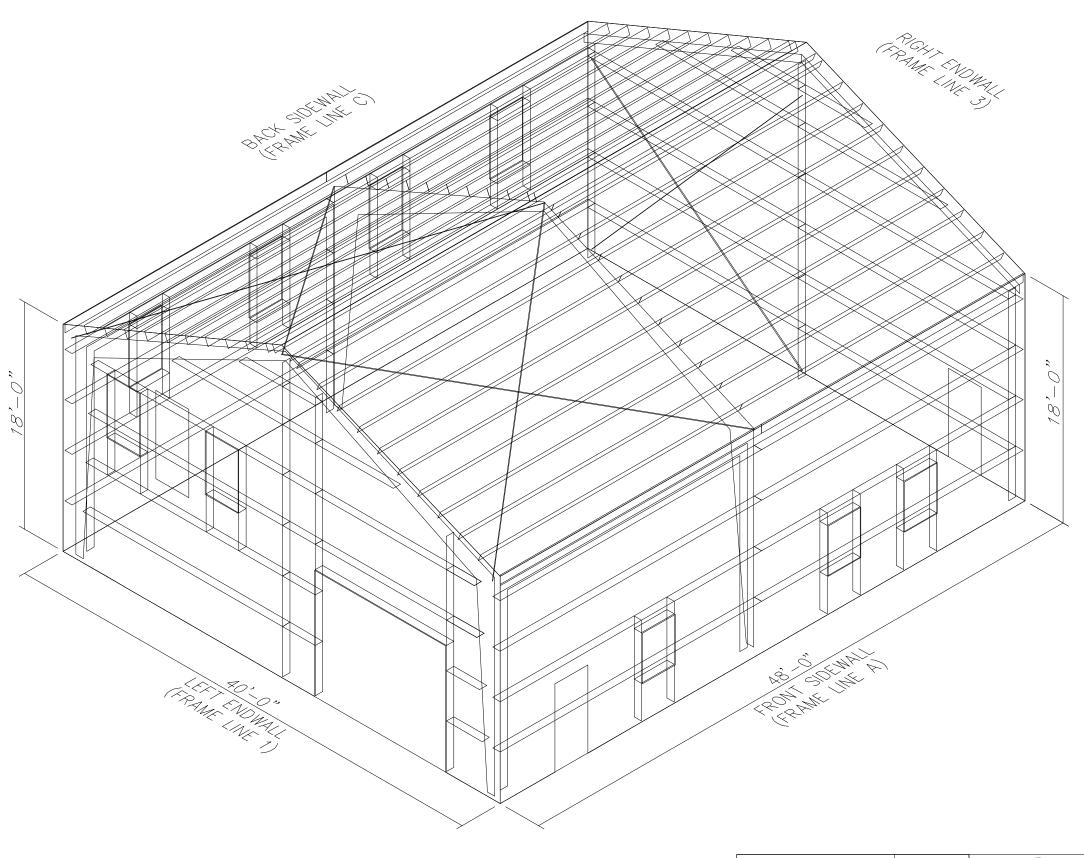
ROOF SNOW LOAD (IN PSF)	EQUIVALENT SNOW HEIGHT AT ROOF (IN INCHES)	RECOMMENDED SNOW HEIGHT WHEN SNOW REMOVAL SHOULD START (IN INCHES)
20	16.60	8.30
25	17.25	8.62
30	17.90	8.95
35	18.55	9.28
40	19.20	9.60
45	19.85	9.92
50	20.50	10.25
55	21.15	10.58
60	21.80	10.90
65	22.45	11.22
70	23.10	11.55
75	23.75	11.88
80	24.40	12.20
NOTE:		

For Snow/Ice Removal Procedure, Refer to Metal Building System Manual 2002 Edition,

<u>Drawing Status</u>
APPROVAL:  REVISED APPROVAL: These drawings, being for approval, are by definition not final, and are for conceptual representation only. their purpose is to confirm proper interpretation of the project documents. Only drawings issued "Construction" can be considered as complete.
PERMIT: REVISED PERMIT:  These drawings, being for permit, are by definition not final. Only drawings issued "Construction" can be considered as complete.
☐ CONSTRUCTION:

Final drawings to be used in the erection of the building.

JOB NO : 57243



NOTE:

3D IS A GENERAL REPRESENTATION OF BUILDING. SOME MEMBERS MAY CHANGE IN FINAL ERECTION DRAWINGS ELEVATION PAGE

FRONT SIDEWALL (FRAME LINE A) 6 OF 14

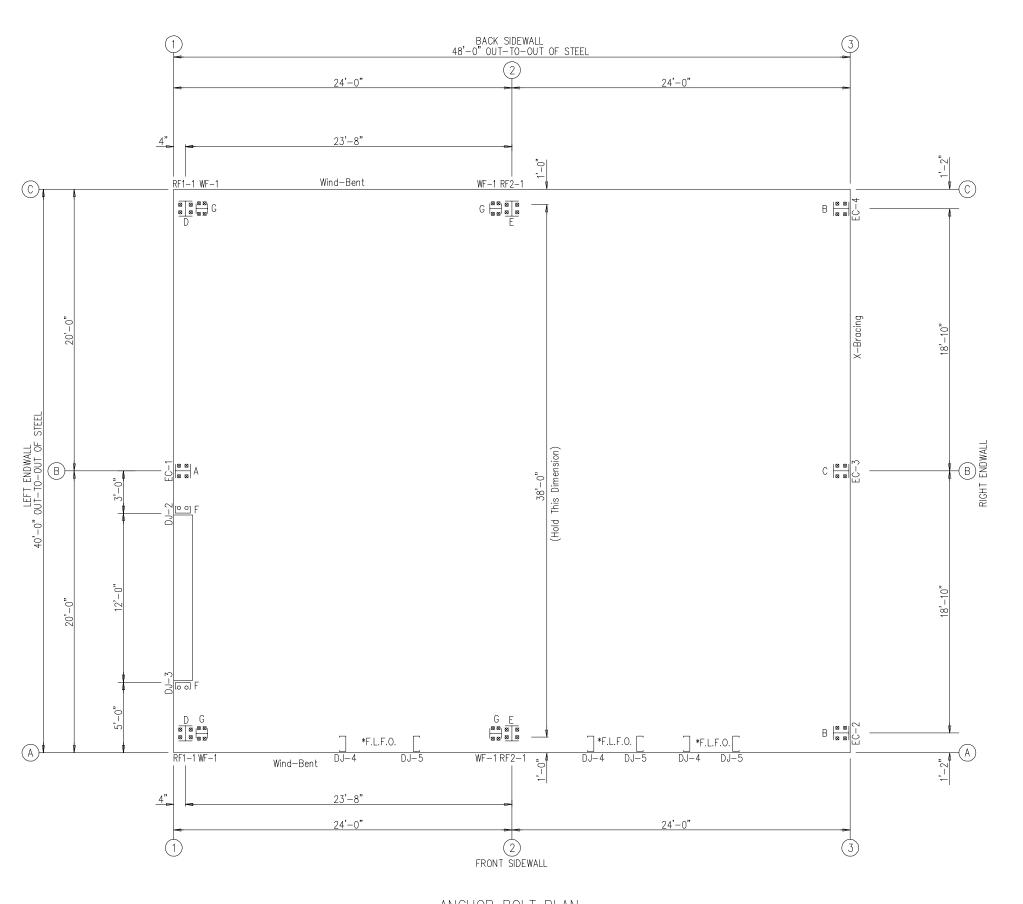
BACK SIDEWALL (FRAME LINE C) 7 OF 14

LEFT ENDWALL (FRAME LINE 1) 8 OF 14

RIGHT ENDWALL (FRAME LINE 3) 9 OF 14



DESCRIPTION	ISOMETRIC VIEW
CUSTOMER	
END USER	
SCALE	NOT TO SCALE
лов no.: 5724.	Brig. BY: MZ DATE: 11/19/21  DWG. NO.: 3D REFERENCE SSUE: C



NOTE:

MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION.

A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)
\*Field Located Framed Opening

HON DOLL LAN							
Base Plates @ 100'-0" (U.N.)	ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
ocated Framed Opening	Р	PERMIT	11.19.21	MN	DP	ΜZ	
ocatea France Opening	С	CONSTRUCTION	01.16.23	KAC	SW	MZ	
							l



DESCRIPTION	ANCHOR BOLT PLAN
CUSTOMER	
END USER	
SCALE	NOT TO SCALE
<sup>ЈОВ NO.:</sup> 5724	BY: DATE: 11/19/21 DWG. NO.: 1 OF 14 ISSUE: C

ANCHOR BOLT SUMMARY

Locate

Endwall

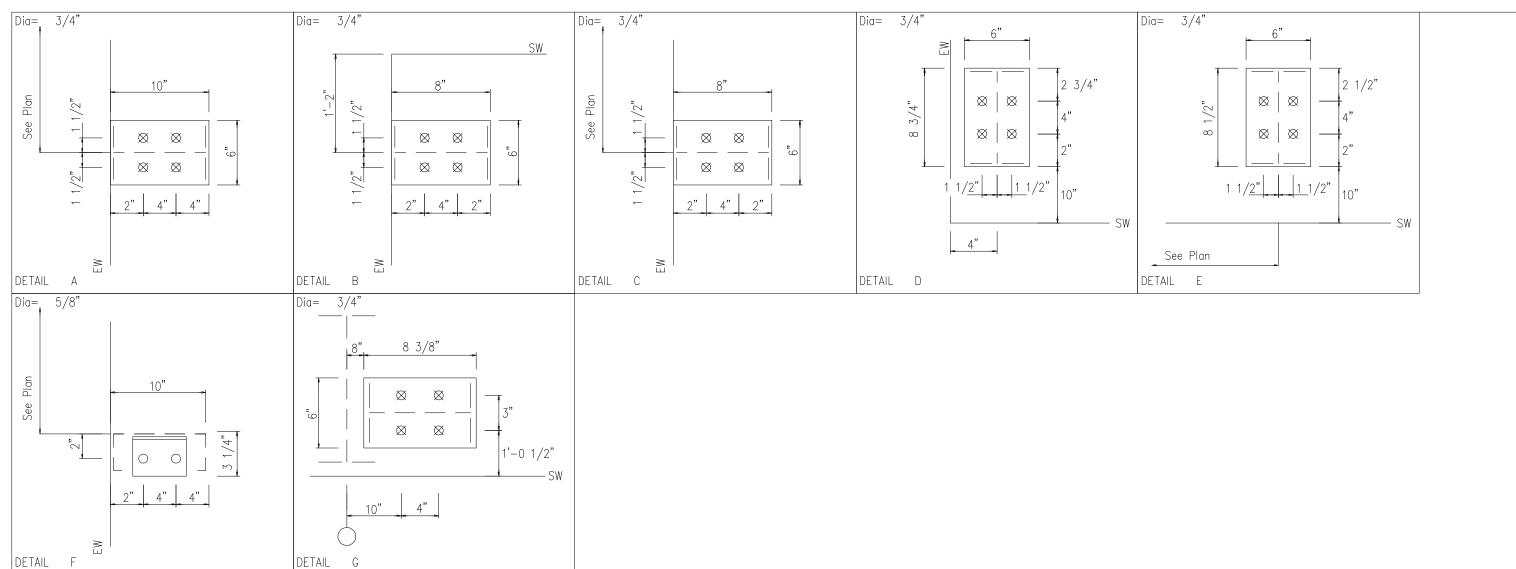
Frame

WindCol

○ 4 ⋈ 16 ⋈ 16 ⋈ 16 Dia (in)

5/8" 3/4" 3/4" 3/4" Туре

A307 A307 A307 A307



## NOIE:

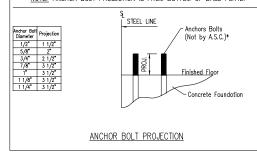
MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION.

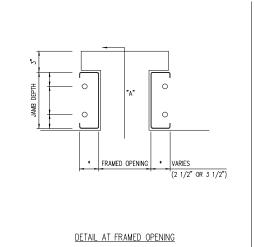
A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

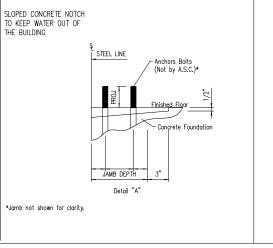
ANCHOR BOLT DIAMETERS HAVE BEEN DESIGNED BY THE METAL BUILDING MANUFACTURER BASED ON AISC METHOD WITH COMBINED SHEAR AND TENSION.

DEVELOPMENT, EMBEDMENT AND HOOK LENGTH OF ANCHOR BOLTS
IN THE CONCRETE ARE DESIGN RESPONSIBILITY OF OTHERS. ALSO
DESIGN OF SHEAR ANGLES, TENSION PLATES, HAIRPINS, AND ANY
OTHER EMBEDDED MATERIAL IN THE CONCRETE SHALL BE DESIGNED

NOTE: ANCHOR BOLT PROJECTION IS FROM BOTTOM OF BASE PLATE.

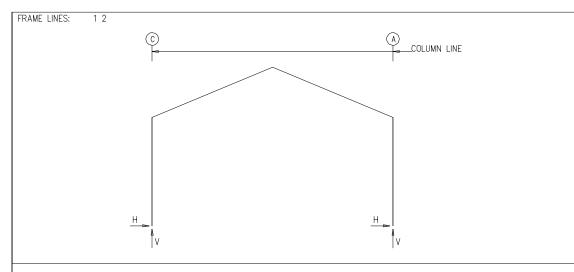






ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Р	PERMIT	11.19.21	MN	DP	MZ
С	CONSTRUCTION	01.16.23	KAC	SW	ΜZ

2222222	DESCRIPTION	ANCH	OR	BOLT D	ETAILS	
	CUSTOMER					
	END USER					
Inverness Drive East, Ste#200	SCALE	иот	ТО	SCALE		
Englewood, Colorado 80112	JOB NO.:	_	ENG.	. BY: M.7		DATE: 11 /19 /21
PHONE: 800-345-4610	l 5/24	-3	DWG.	NO.: 2	OF 14	ISSUE:



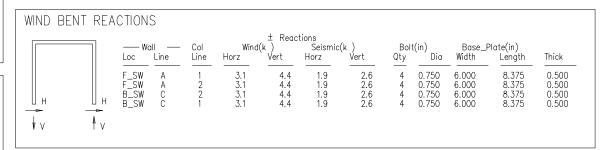
RIGID F	RAME:		MAXIMUM	REACTION	IS, ANCI	HOR BOLT	S, & BASI	E PLATE	ES				
Frm Line	Col Line	Load Id	Hmax H	umn_Reac V Vmax	tions(k Load Id	Hmin H	V Vmin	Bol Qty	t(in) Dia	Base Width	e_Plate(in) Length	Thick	Grout (in)
1	С	3 1	3.6 2.4	4.5 8.0	6 4	-4.2 -3.7	-3.0 -5.1	4	0.750	6.000	8.750	0.500	0.0
1	А	7 1	4.2 -2.4	-3.0 8.0	2 5	-3.6 3.7	4.5 -5.1	4	0.750	6.000	8.750	0.500	0.0

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES												
Frm Line	Col Line	Load Id	Colu Hmax H	ımn_Reac V Vmax	tions(k Load Id	Hmin H	V Vmin	Bolt(in) Qty Dia	Base Width	:_Plate(in) Length -	Thick	Grout (in)
2	С	3 1	8.1 5.9	10.7 18.1	6 4	-8.3 -7.2	-5.2 -10.1	4 0.750	6.000	8.500	0.500	0.0
2	А	7 1	8.3 -5.9	-5.2 18.1	2 5	-8.1 7.2	10.7 -10.1	4 0.750	6.000	8.500	0.500	0.0

ENDV	VALL	COLUMN			COLUMN	REACTION	ONS (k )								
Frm Line 1	Col Line B	Dead Vert 0.3	Wind Press Horz -8.9	Wind Suct Horz 9.9											
Frm Line 3 3 3	Col Line A B C	Dead Vert 0.5 1.5 0.5	Collat Vert 0.6 1.9 0.6	Live Vert 1.9 5.9 1.9	Sn Ve 0.! 1.5	5 5	Wind_L Horz 0.0 -4.8 0.0	eft1 Vert -2.5 -15.5 3.9	Wind_F Horz 0.0 0.0 4.8	Right1 Vert -4.3 -1.1 -8.7	Wind_L Horz 0.0 -4.8 0.0	eft2 Vert -0.3 -13.2 6.0	Wind_R Horz 0.0 0.0 4.8	ight2 Vert -2.2 1.3 -6.5	Wind Press Horz -3.1 -8.5 -3.1
Frm Line 3 3	Col Line A B C	Wind Suct Horz 3.6 9.4 3.6	Wind_Lo Horz 0.0 0.0 1.7	ng1 Vert -5.9 -4.2 -5.7	Wind_L Horz 0.0 -1.7 0.0	ong2 Vert -3.5 -9.3 -3.1	Sei Horz 0.0 –2.8 0.0	s_Left : Vert 0.3 -4.8 4.5	Seis Horz 0.0 0.0 2.8	_Right : Vert -0.3 3.6 -3.3	E2U1 Horz 0.0 0.0 0.0	NB_SL_L- Vert 0.5 1.2 0.1	E2UN Horz 0.0 0.0 0.0	IB_SL_R- Vert 0.1 1.2 0.5	
ENDV	WALL	COLUMN	l:	MAXIMU	M REACT	TONS, A	NCHOR E	BOLTS, & B	ASE PLA	TES					

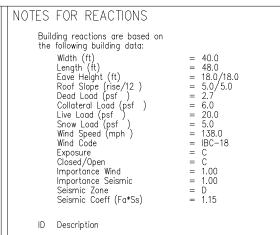
Frm	Col	Load	Hmax	umn_Reac V	Load	) Hmin	V		t(in)		e_Plate(in)		Grout
Line	Line	_ Id		Vmax	Id 	н	Vmin	Qty	Dia .	Width	Length	Thick	_ (in)
1	В	10 8	5.9 0.0	0.2 0.4	11	-5.4	0.2	4	0.750	6.000	10.00	0.375	0.0
3	Α	12 1	2.1 0.0	-3.3 3.0	13 12	-1.9 2.1	-3.3 -3.3	4	0.750	6.000	8.000	0.375	0.0
3	В	14 9	5.7 0.0	-8.4 10.1	11 14	-5.1 5.7	-4.6 -8.4	4	0.750	6.000	8.000	0.375	0.0
3	С	15 16	2.1 1.6	-4.9 5.3	13 15	-1.9 2.1	-3.1 -4.9	4	0.750	6.000	8.000	0.375	0.0

RIGIE	) FRAM	ME:	BAS	IC COLUM	IN REACT	10NS (k )	)						
Frame Line 1	Column Line C A	Horiz 0.3 -0.3	-Dead Vert 1.3 1.3	Colle Horiz 0.5 -0.5	oteral— Vert 1.6 1.6	Horiz 1.6 -1.6	-Live Vert 5.0 5.0	Horiz 0.4 -0.4	-Snow Vert 1.3 1.3	Wind Horiz -6.6 -3.5	l_Left1- Vert -9.7 -4.8	-Wind_ Horiz 3.5 6.6	Right1- Vert -4.8 -9.7
Frame Line 1	Column Line C A	Wind Horiz -7.4 -2.7	l_Left2- Vert -6.3 -1.4	-Wind_ Horiz 2.7 7.4	Right2- Vert -1.4 -6.3	Wind Horiz 1.9 -0.6	I_Long1- Vert -6.8 -6.7	Win- Horiz 0.6 -1.9	d_Long2- Vert -6.7 -6.8	-Seism Horiz -1.4 -1.4	ic_Left Vert -1.3 1.3	Seismic Horiz 1.4 1.4	c_Right Vert 1.3 -1.3
Frame Line 1	Column Line C A	F1UNB_ Horiz 0.3 -0.3	SL_L- Vert 1.2 0.7	F1UNB_ Horiz 0.3 -0.3	SL_R- Vert 0.7 1.2								
Frame Line 2 2	Column Line C A	Horiz 0.7 -0.7	-Dead Vert 2.3 2.3	Colle Horiz 1.3 -1.3	oteral— Vert 3.9 3.9	 Horiz 3.9 -3.9	-Live Vert 11.9 11.9	Horiz 1.0 –1.0	-Snow Vert 3.0 3.0	Wind Horiz -12.6 -7.1	I_Left1- Vert -19.1 -9.8	-Wind_ Horiz 7.1 12.6	Right1- Vert -9.8 -19.1
Frame Line 2 2	Column Line C A	Wind Horiz -14.5 -5.2	I_Left2- Vert -11.0 -1.7	-Wind_ Horiz 5.2 14.5	Right2- Vert -1.7 -11.0	Wind Horiz 4.3 -1.3	I_Long1- Vert -16.2 -15.9	Wind Horiz 1.3 -4.3	d_Long2- Vert -15.9 -16.2	-Seism Horiz -2.5 -2.5	ic_Left Vert -2.3 2.3	Seismic Horiz 2.5 2.5	c_Right Vert 2.3 -2.3
Frame Line 2 2	Column Line C A	F2UNB_ Horiz 0.8 -0.8	_SL_L- Vert 2.8 1.7	F2UNB Horiz 0.8 -0.8	_SL_R- Vert 1.7 2.8								



wo	ılı —	- Col			ions(k ) - —Sei		Panel_ - (lb.		
Loc	Line	Line	Horz	Vert	Horz	Vert	Wind	Seis	Note
L_EW F_SW R_EW B_SW	1 A 3 C	1,2 B,C 1,2	4.8	6.2	2.2	2.8			(h) (a) (a)
(a)Wind (h)Rigio	bent d frame	in bay e at endw	rall						

#### ANCHOR BOLT SUMMARY Dia (in) Qty Locate Туре 5/8" 3/4" 3/4" 3/4" A307 A307 A307 A307 ○ 4 ⋈ 16 ⋈ 16 ⋈ 16 Jamb Endwall Frame WindCol



Dead+Collateral+Live
Dead+Collateral+0.75Live+0.45Wind\_Left1
Dead+Collateral+0.75Live+0.45Wind\_Right1
0.6Dead+0.6Wind\_Left1
0.6Dead+0.6Wind\_Right1
0.6Dead+0.6Wind\_Left2
0.6Dead+0.6Wind\_Left2

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
Р	PERMIT	11.19.21	MN	DP	ΜZ	
С	CONSTRUCTION	01.16.23	KAC	SW	ΜZ	

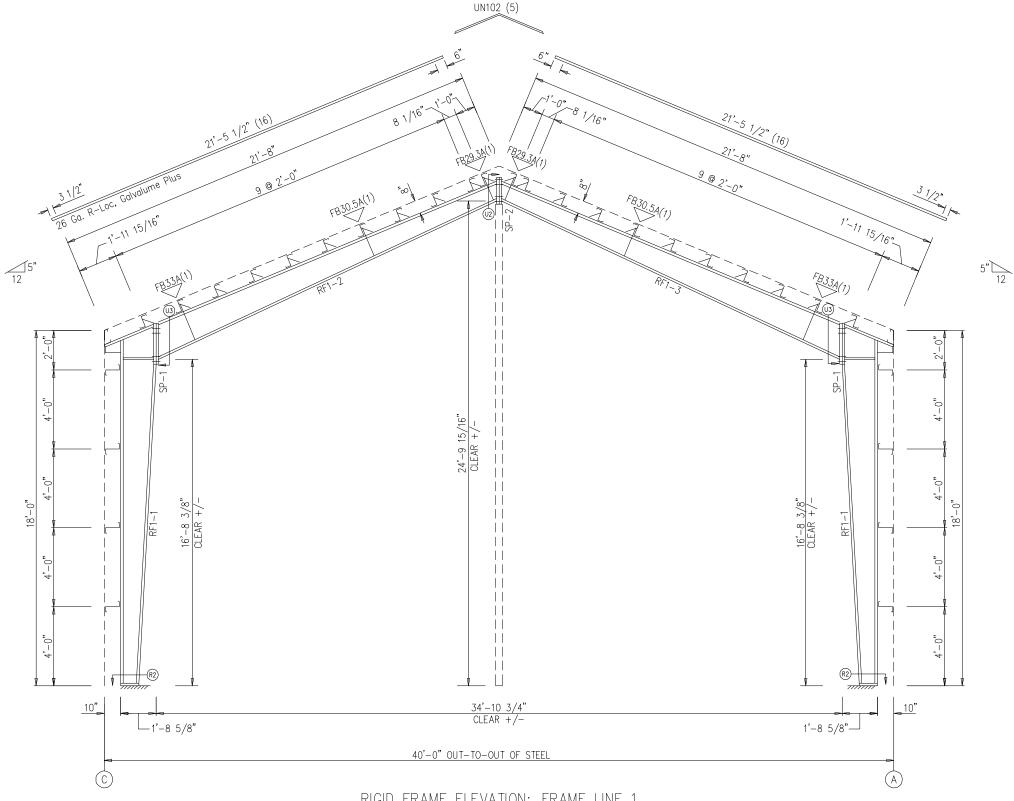


DESCRIPTION	ANCHOR BOLT REACTIONS
CUSTOMER	
END USER	
SCALE	NOT TO SCALE
JOB NO.:	- ENG. BY: DATE: 11/19/21
5/24	- 3 DWG. NO.: 3 OF 14 ISSUE: C

SPLICE BOL	T TAB	LE					
Mark	Qty Top	Bot	Int	Type	Dia	Length	
SP-1 SP-2	4	4	0	A325 A325	0.750 0.625	2.00 1.75	

FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides A - B316

MEMBER :	TABLE				
	Web Depth	Web	Plate	Outside Flange	Inside Flange
1ark	Start/End	Thick	Length	W x Thk x Length	W x Thk x Length
?F1-1	8.0/20.0	0.135	18'-3 3/16"	5 x 1/4" x 17'-6 3/4"	5 x 5/16" x 9'-5 3/16"
	,		,	5 x 1/4" x 2'-8 11/16"	5 x 3/8" x 6'-10 3/4"
RF1-2	18.0/8.0	0.135	19'-5 1/4"	5 x 1 <sup>′</sup> /4" x 18'-9 5 <sup>′</sup> /8"	5 x 1/4" x 19'-2"
PF1-3	8 0 / 18 0	0 1.35	19'-5 1'/4"	5 × 1 <sup>'</sup> /4" × 18'-9 5 <sup>'</sup> /8"	$\int \int \int \int \int \frac{1}{4} \int \frac{1}$



## RIGID FRAME ELEVATION: FRAME LINE 1

MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION. A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
Р	PERMIT	11.19.21	MN	DP	MZ	
С	CONSTRUCTION	01.16.23	KAC	SW	ΜZ	
						] 2

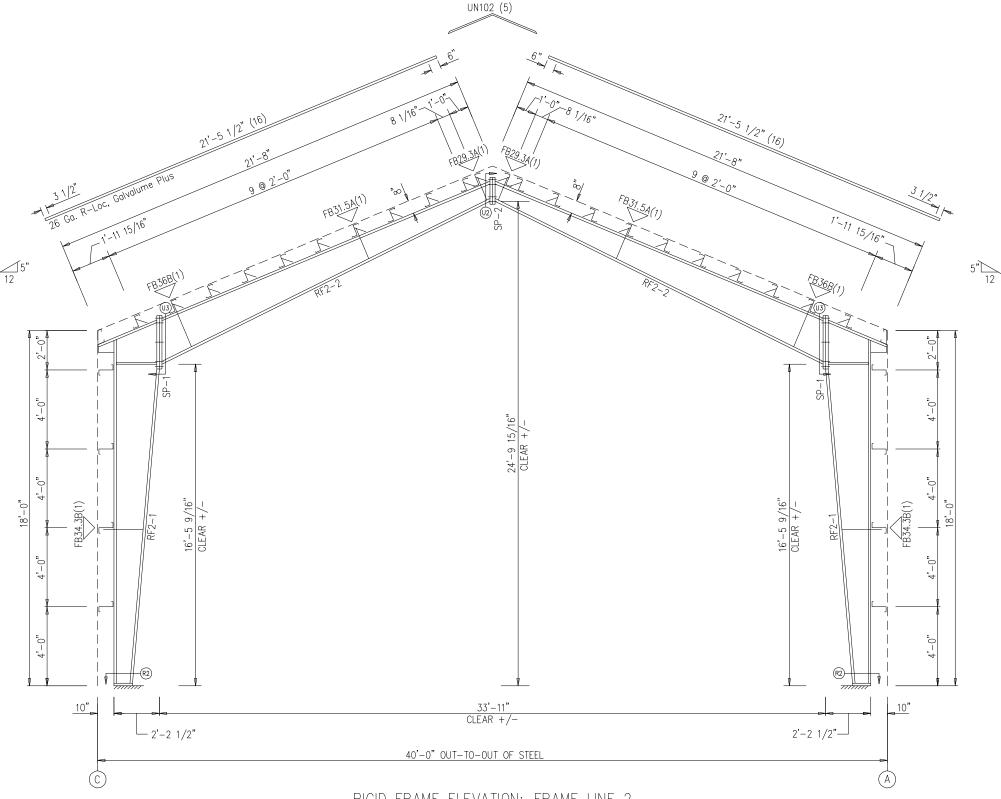
AINSTOLIO
nverness Drive East, Ste#200 Englewood, Colorado 80112

DESCRIPTION	RIGID FRAME ELEVATION
CUSTOMER	
END USER	
SCALE	NOT TO SCALE
<sup>ЈОВ NO.:</sup> 5724	- 3   ENG. BY:   DATE:   11/19/21

SPLICE BOL	T TAE	BLE				
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1 SP-2	4 4	4 4	2	A325 A325	0.750 0.625	2.25 2.00

FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides
B - B314
A - B316

IEMBER	TABLE				
	Web Depth	Web I	Plate	Outside Flange	Inside Flange
lark	Start/End	Thick	Length	W x Thk x Length	W x Thk x Length
F2-1	8.0/25.7	0.135	15'-9 13/16"	5 x 1/4" x 17"-6 3/4"	5 x 1/4" x 16'-1 5/8"
	25.7/26.0		2'-7 7/8"	5 x 1/4" x 3'-3 3/16"	' '
F2-2	23.0/ 8.0	0.135	19'-0 7/16"	5 x 1/4" x 18'-2 3/4"	5 x 1/4" x 18'-9 7/16"



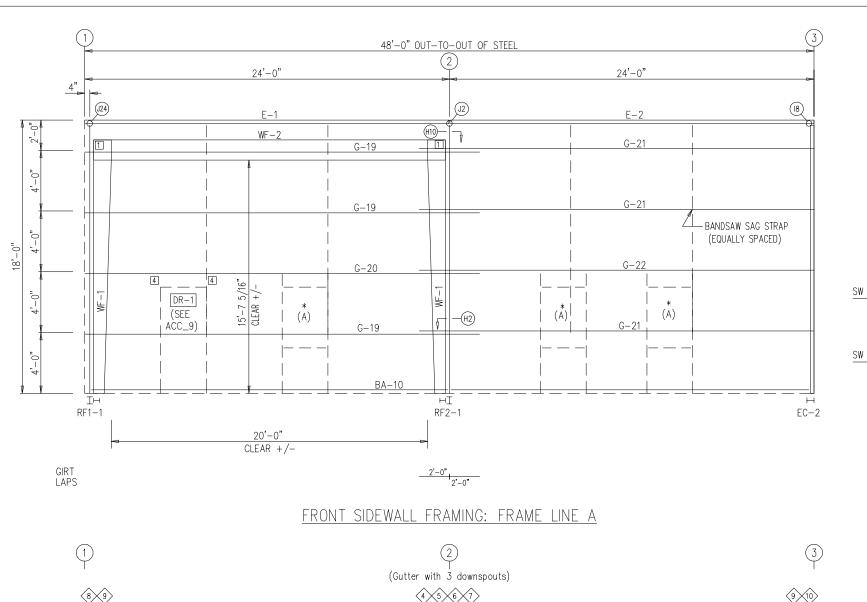
## RIGID FRAME ELEVATION: FRAME LINE 2

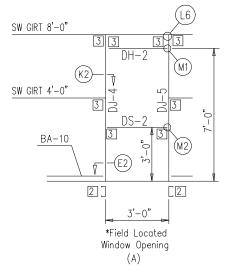
MINOR FIELD WORK OF STRUCTURAL, SECONDARY
AND PANEL/TRIM ITEMS MAY BE NECESSARY TO
ENSURE PROPER FIT. SUCH WORK IS CONSIDERED
A NORMAL PART OF METAL BUILDING ERECTION.
A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR
FIELD WORK.

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Р	PERMIT	11.19.21	MN	DP	MZ
С	CONSTRUCTION	01.16.23	KAC	SW	ΜZ

AMSTROLL
Inverness Drive East, Ste#200 Englewood, Colorado 80112
PHONE: 800-345-4610
www.armstrongsteel.com

DESCRIPTION	RIGID FRAME ELEVATION
CUSTOMER	
END USER	
SCALE	NOT TO SCALE
јов no.: 5724	T ENG. BY:  MZ 11/19/21  DWG. NO.: 5 05 14 ISSUE:





TRIM TABLE
FRAME LINE A
OID QUAN PART LENGTH 10'-2" 20'-4" 18'-2" 16'-2" 18'-2" 16'-2" 18'-2" DETAIL TRIM\_2 BA6102 TRIM\_2 BA6 TRIM\_30 0U6 Q760F6 Q760F6 TRIM\_63 TRIM\_63 Q1906 TRIM\_63 TRIM\_63 Q1906 Q761L6 AR9626 8 1/16" 6" ... TRIM\_62 Q761R6 11 12 13 14 TRIM\_50 AR3716 TRIM\_50 TRIM\_51 JA6 AR3716 HE6 TRIM\_51 TRIM\_51 BOLT TABLE FRAME LINE A LOCATION

### BULL TABLE
FRAME LINE A

LOCATION QUAN TYPE DIA LENGTH

WF-1 - WF-2 8 A325 5/8" 2 1/4"

WF-1 - RF1-1 8 A325 5/8" 1 1/2"

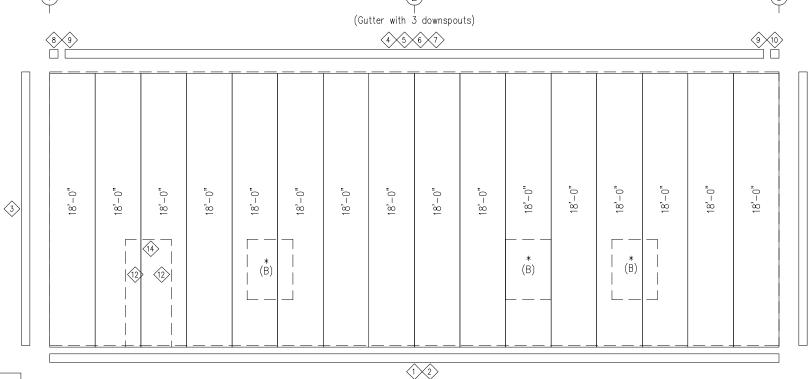
WF-1 - RF2-1 8 A325 5/8" 1 1/2"

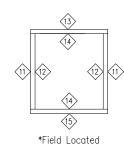
MEMBER	TABLE		
FRAME L	INE A		
QUAN	MARK	PART	LENGTH
2	WF-1	BEAM	16'-11 5/16"
1	WF-2	W16631	19'-11 1 <i> </i> /8"
3	DJ-4	10X25C16	7'-8"
3 3	DJ-5	10X25C16	7'-8"
3	DH-2	10X25C16	2'-11"
3	DS-2	10X25C16	2'-11"
1	E-1	08536DU5	23'-11"
1	E-2	08536DU5	23'-11"
3	G-19	10X25Z16	25'-11 1/2"
1 1	G-20	10X25Z14	25'-11 1'/2"
3	G-21	10X25Z16	25'-11 1/2"
1	G-22	10X25Z14	25'-11 1/2"
	•	•	

CONNECTION PLATES
FRAME LINE A

□ID QUAN MARK/PART

1 2 BC-49
2 6 BC-05
3 24 BC-01
4 2 BC-500





Window Opening
Trim Detail
(B)

## NOTE:

MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION.

A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

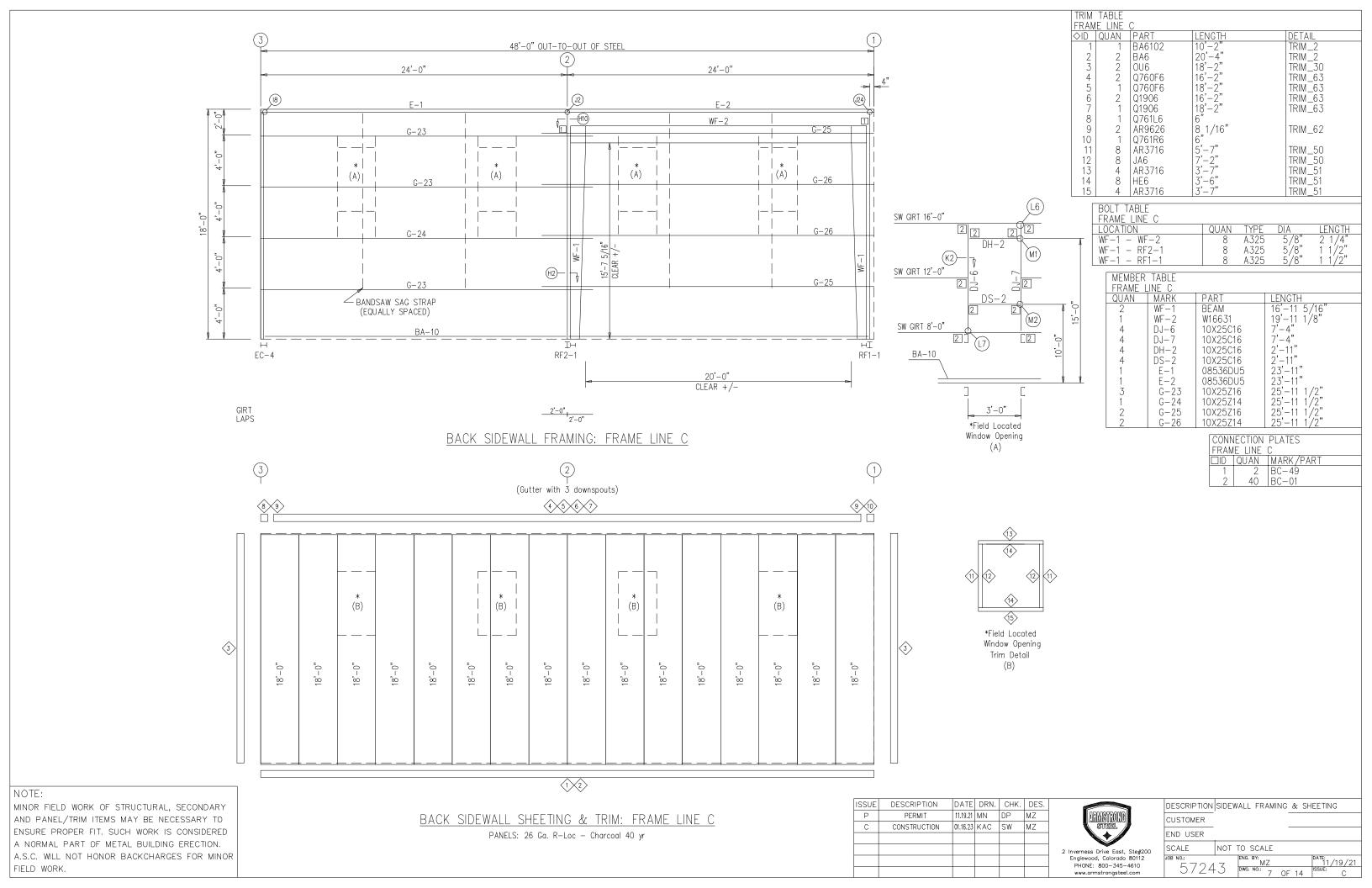
# FRONT SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. R-Loc - Charcoal 40 yr

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Р	PERMIT	11.19.21	MN	DP	ΜZ
С	CONSTRUCTION	01.16.23	KAC	SW	ΜZ

ARMSTROND
Inverness Drive East, Ste#200 Englewood, Colorado 80112
PHONE: 800-345-4610

DESCRIPTION	SIDEWALL FRAMING & SHEETING
CUSTOMER	
END USER	
SCALE	NOT TO SCALE
јов no.: 5724	BNG. BY: DATE: 11/19/21 DWG. NO.: 6 OF 14 ISSUE: C



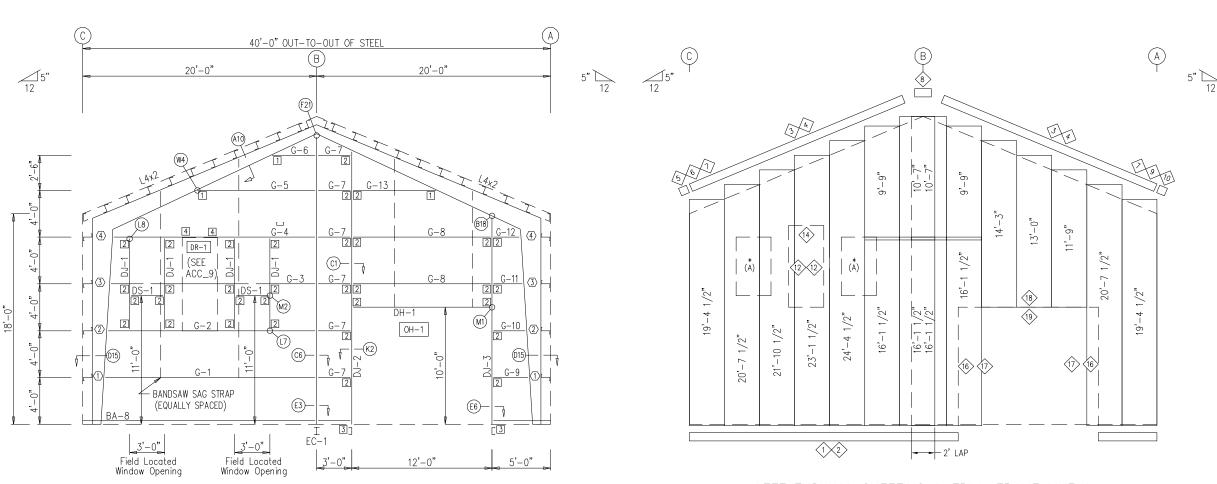


	TABLE IE LINE	1		
≎ID	QUAN	PART	LENGTH	DETAIL
1	2	BA6102	10'-2"	TRIM_2
2	1	BA6	20, -4,"	TRIM_2
3	2	Q7646102	10'-2"	TRIM_66
4	2 2 1	Q7646	12'-2"	TRIM_66
5			6"	
6	1	AR963L6	9 1/8"	
/	2	AR9626	8, 1/16"	TD 400
2 3 4 5 6 7 8 9	1	Q7676	9 1/8" 8 1/16" 1'-4"	TRIM_100
	]	Q765R6	10	
10		AR963R6	9 1/8" 5'-7"	TDIM EO
11	4	Q3706	5 - 7   7'-2"	TRIM_50
12 13	0	JA6	3'-7"	TRIM_50
14	2 5	AR3806  HE6	3'-6"	TRIM_51  TRIM_51
15	6 2 5 2 2 2	Q3706	3'-7"	TRIM 51
16	2	AR3716	12'-2"	TRIM_50
17	2	JA6102	10'-2"	TRIM_50
18	1	AR3716	12'-2"	TRIM_51
19	i	HE6	12'-3"	TRIM_51
Г	DOLT T	ADI E		

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	2	A325	1/2"	1 1/4"
Jamb/Ráf	2	A325	1/2"	1 1 / 4"

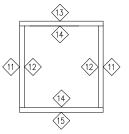
MEMBER	TABLE		
FRAME I	_INE 1		
QUAN	MARK	PART	LENGTH
1	EC-1	W10541	24'-5 3/8"
4	DJ-1	8X25C16	7'-7 1/2"
1	DJ-2	10X35C12	23'-1 1/4"
1	DJ-3	10X35C12	17'-5 3'/4"
1	DH-1	10X25C16	11'-11"
2	DS-1	8X25C16	2'-11"
1	G-1	8X25Z14	17'-10"
1	G-2	8X35Z12	17'-7 1/16"
1	G-3	8X25Z16	17'-4 1'/16"
1	G-4	8X25C16	17'-1 1 <i>/</i> 8"
1	G-5	8X25Z16	9'-8 1/16"
1	G-6	8X25Z16	4'-4"
6	G-7	8X25Z16	2'-4"
2	G-8	8X25Z16	11'-11"
1	G-9	8X25Z16	2'-10"
1	G-10	8X25Z16	2'-7 1/16"
1	G-11	8X25Z16	2'-4 1/16"
1	G-12	8X25Z16	2'-1 1/8"
1	G-13	8X25Z16	6'-11 9/16"

CONN	CONNECTION PLATES					
FRAM	E LINE	1				
	QUAN	MARK/PART				
1	3	BC-15F				
2	33	BC-01				
3	2	BC-05				
4	2	BC-500				

4" ZE	EE TABLE
OID	LENGTH
1	10"
2	1'-0"
3	1,-2,"
4	1'-6"

## LEFT ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. R-Loc - Charcoal 40 yr



\*Field Located Window Opening Trim Detail (A)

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Ρ	PERMIT	11.19.21	MN	DP	ΜZ
C	CONSTRUCTION	01.16.23	KAC	SW	ΜZ

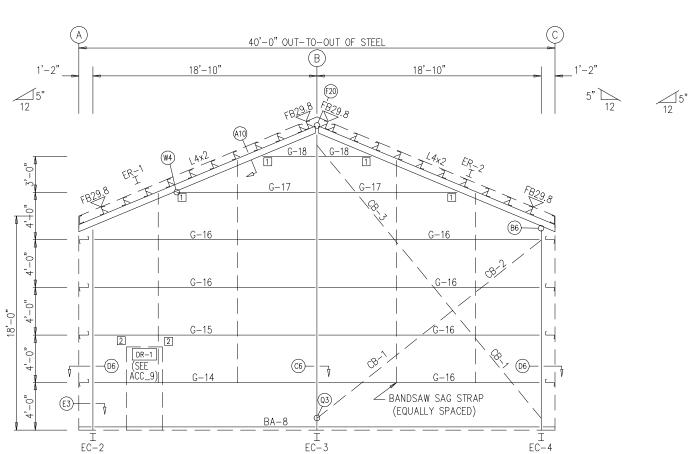
AFMSTIOUR STESL
verness Drive East, Ste#200 nglewood, Colorado 80112
PHONE: 800-345-4610 www.armstrongsteel.com

	DESCRIPTION	ENDW	ALL FR	AMIN	1G &	k SHI	EETING	
	CUSTOMER							
	END USER							
)	SCALE	NOT	TO SCA	LE				
	лов No.: 5724	.3	ENG. BY: V DWG. NO.:	IZ 8	OF		DATE: 11/1 ISSUE:	9/21 C

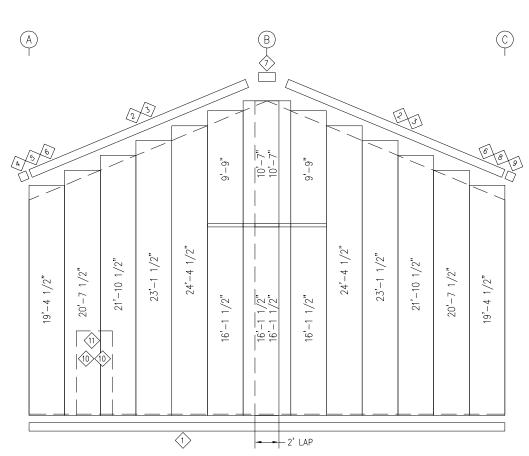
# MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION. A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR

FIELD WORK.

LEFT ENDWALL FRAMING: FRAME LINE 1



RIGHT ENDWALL FRAMING: FRAME LINE 3



RIGHT ENDWALL SHEETING & TRIM: FRAME LINE 3

PANELS: 26 Ga. R-Loc - Charcoal 40 yr

TRIM	TABLE			
FRAM	E LINE	3		
$\Diamond$ ID	QUAN	PART	LENGTH	DETAIL
1	2	BA6	20'-4"	TRIM_2
2	2	Q7646102	10'-2"	TRIM_66
2 3	2	Q7646	12'-2"	TRIM_66
4	1	Q765L6	16"	
5	1	AR963L6	9 1/8" 8 1/16"	
6	2	AR9626	9 1/8"  8 1/16"	
7	1	Q7676	11'-4"	TRIM_100
8	1	Q765R6	6"	_
9	1	AR963R6	9, 1/8"	
10	2	JA6	7'-2"	TRIM_50
11	1	HE6	3'-6"	TRIM_51

BOLT TABLE				
FRAME LINE 3				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	5/8"	1 3/4"
Cor_Ćolumn/Raf	4	A325	1/2"	1 1/4"
EC-3/ER-2 <sup>'</sup>	4	A325	5/8"	1 1/2"

MEMBER	TABLE		
FRAME L	INE 3		
QUAN	MARK	PART	LENGTH
1	EC-2	W08531	16'-8 5/16"
1	EC-3	W08561	24'-5 1/4"
1	EC-4	W08531	16'-8 5/16"
1	ER-1	W10531	21'-7 7 <sup>′</sup> /16"
1	ER-2	W10531	21'-7 7'/16"
1	G-14	8X25Z16	18'-2"
1	G-15	8X25Z12	18'-2"
6	G-16	8X25Z14	18'-2"
2	G-17	8X25Z16	10'-7 5/8"
2 2 2	G-18	8X25Z16	3'-5 3/16"
2	CB-1	BR5/8	20'-0"
1	CB-2	BR5 <sup>'</sup> /8	4'-4 1/2"
1	CD 3	DD5'/9	Q'_Q_1'/4"

FLANGE BRACE TABLE						
FRAME LINE 3						
VID QUAN MARK LENGTH						
1 4 FB29.8 2'-5 3/4"						

CONV	IECTION	PLATES
RAM	E LINE .	3
∃ID	QUAN	MARK/PART
1	4	BC-15F
2	2	BC-500

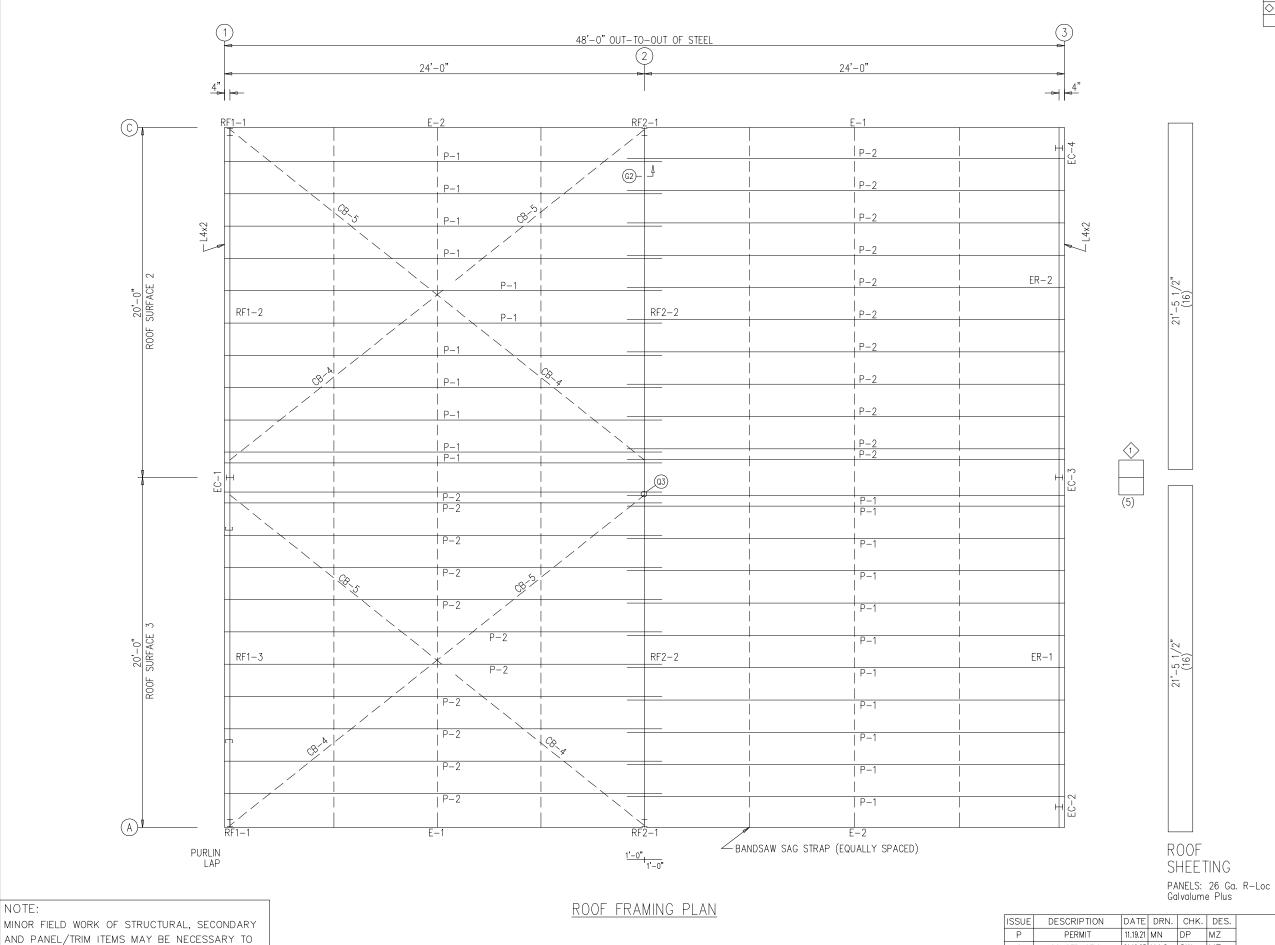
ISSUE DESCRIPTION DATE DRN. CHK. DES.
P PERMIT 11.19.21 MN DP MZ
C CONSTRUCTION 01.16.23 KAC SW MZ

	AFMSTRONG
2	Inverness Drive East, Ste#20 Englewood, Colorado 80112
	PHONE: 800-345-4610 www.armstrongsteel.com

DESCRIPTION	ENDWALL FRAMING & SHEETING	
CUSTOMER		
END USER		
SCALE	NOT TO SCALE	
JOB NO.:	ENG. BY: MZ DATE: 11/19/21	
5724	DWG. NO.: 9 OF 14 ISSUE: C	_

MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION.

A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.



TRIM TABLE
ROOF PLAN
◇ID QUAN PART
1 5 UN6102 DETAIL TRIM\_101

MEMBER			
ROOF PL	_AN		
QUAN	MARK	PART	LENGTH
22	P-1	8x25Z16	24'-11 1/2"
22	P-2	8x25Z16	24'-11 1/2"
2	E-1	08536DU5	23'-11"
2	E-2	08536DU5	23'-11"
4	CB-4	BR1/2	10'-8 1/4"
4	CB-5	BR1/2	20'-0"

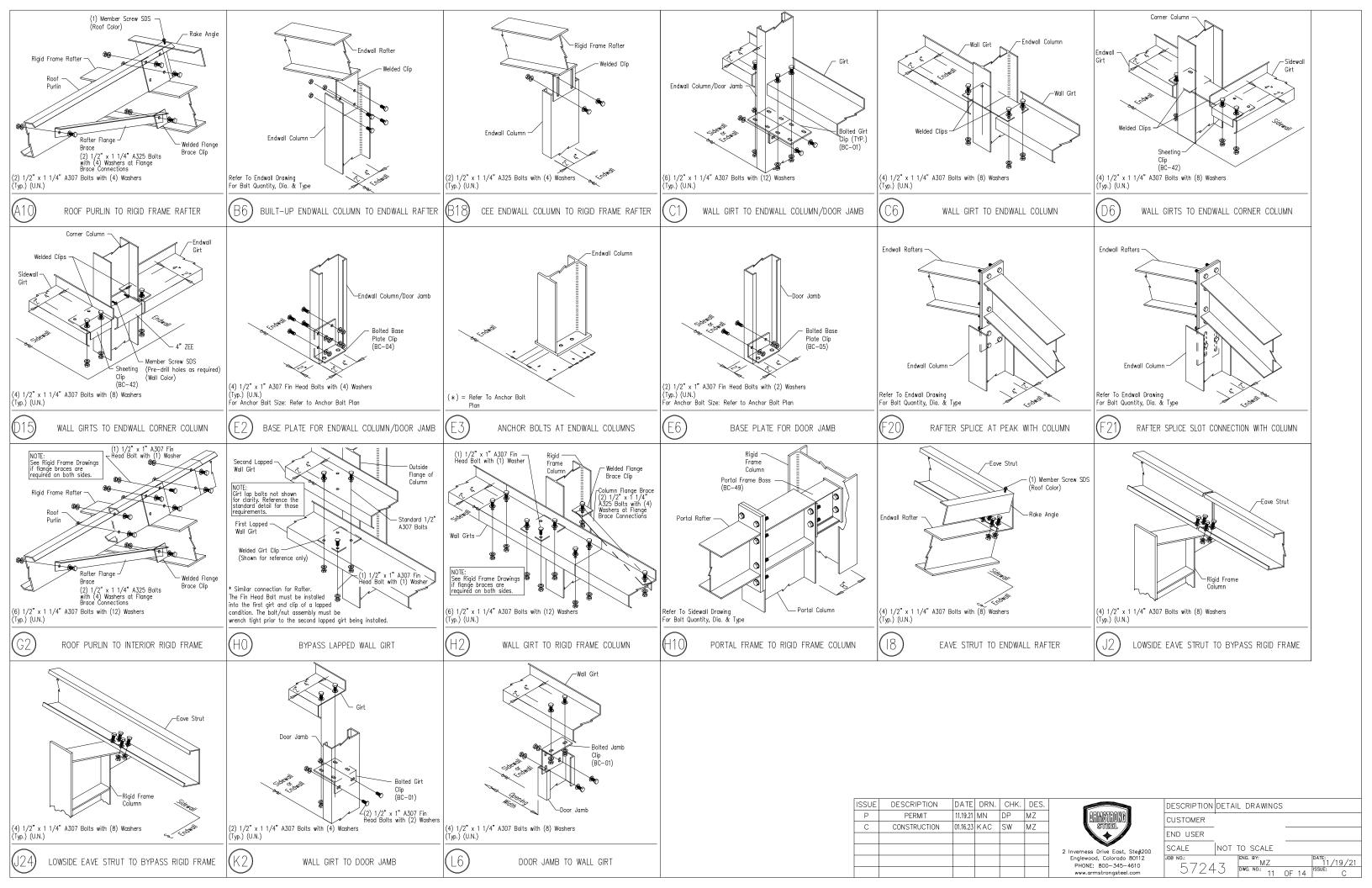
ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION. A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR

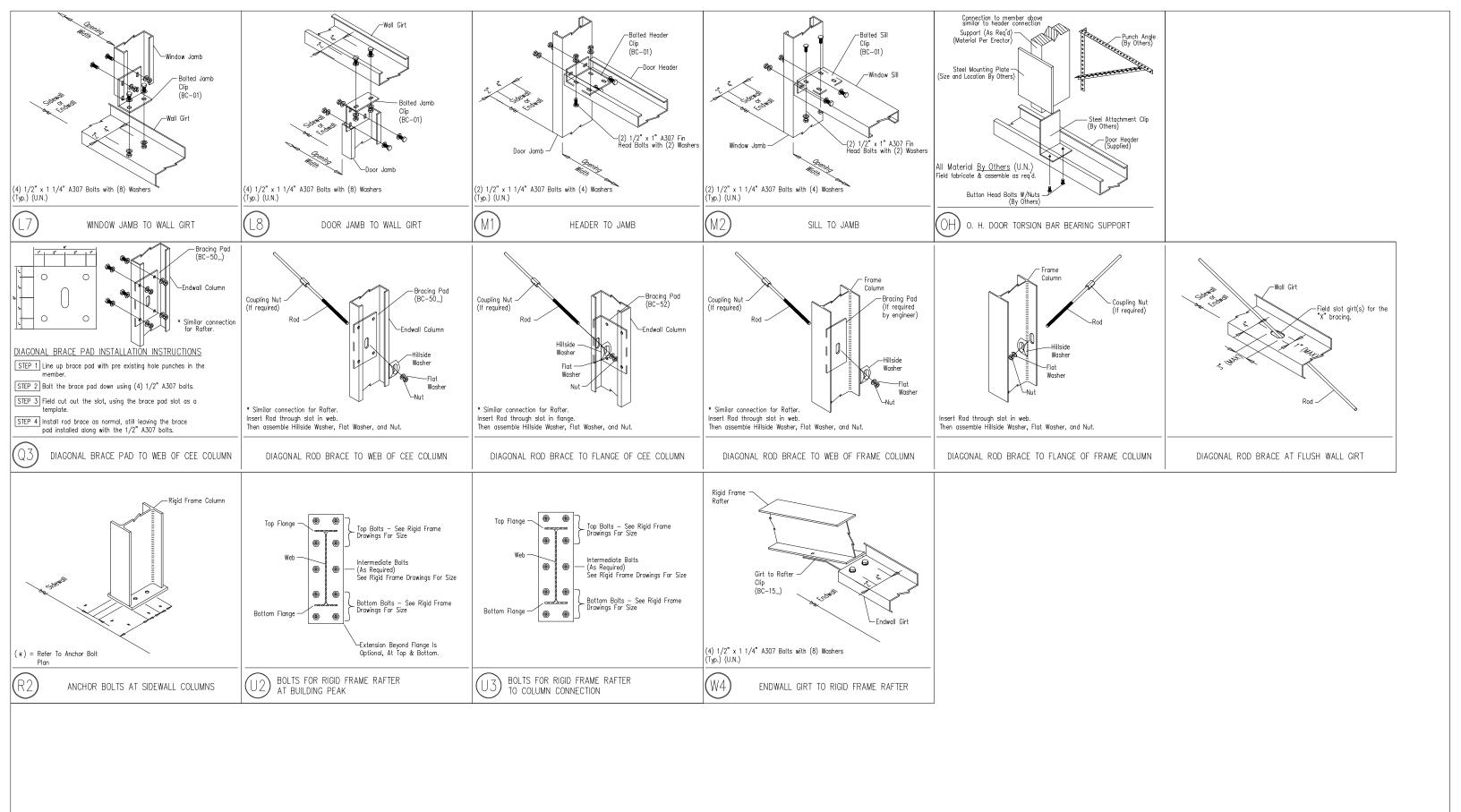
FIELD WORK.

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Р	PERMIT	11.19.21	MN	DP	MZ
С	CONSTRUCTION	01.16.23	KAC	SW	ΜZ

	ARMSTRUCE
2	Inverness Drive East, Ste#20 Englewood, Colorado 80112 PHONE: 800-345-4610 www.armstrongsteel.com

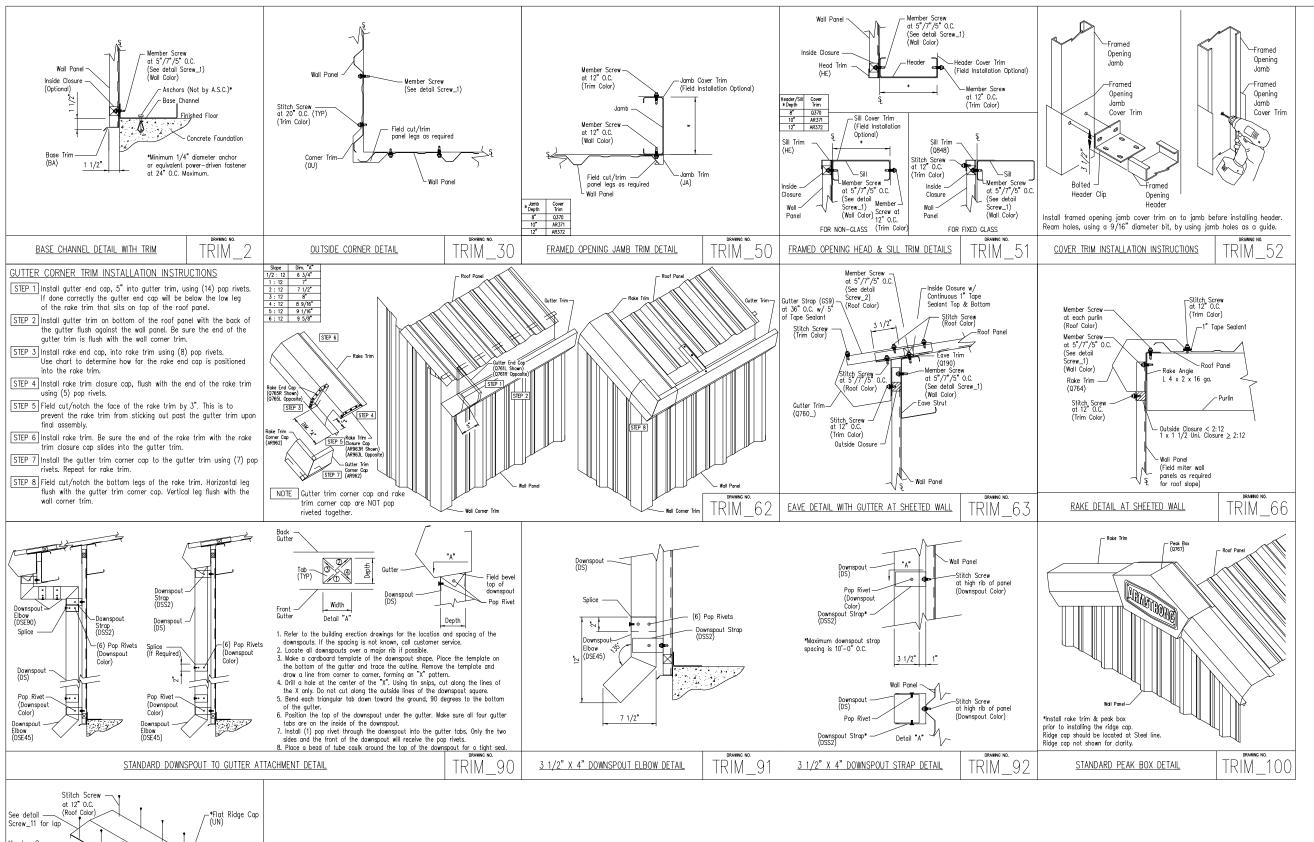
DESCRIPTION	ROOF	FRAMING	&	SHEET	NG
CUSTOMER					
END USER					
SCALE	NOT	TO SCALE			
<sup>јов но.:</sup> 5724	.3	ENG. BY: MZ DWG. NO.:	0 0	)F 14	11/19/21 ISSUE: C

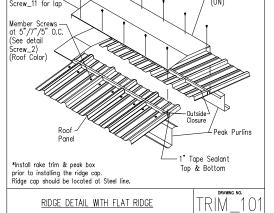




ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Р	PERMIT	11.19.21	MN	DP	MZ
С	CONSTRUCTION	01.16.23	KAC	SW	ΜZ

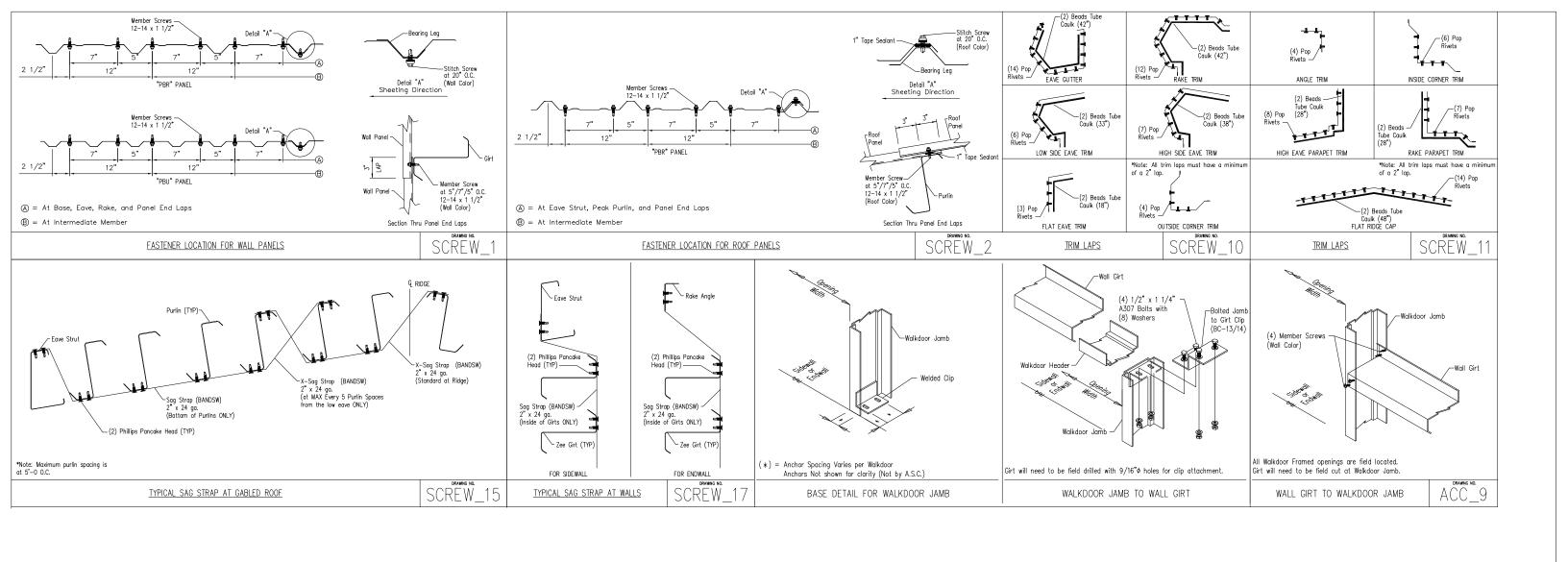






ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Р	PERMIT	11.19.21	MN	DP	MZ
С	CONSTRUCTION	01.16.23	KAC	SW	ΜZ

DESCRIPTION	DETAIL DRAWINGS					
CUSTOMER	I					
END USER	l .					
SCALE	NOT TO SCALE					
јов no.: 5724	BY: MZ DWG. NO.: 13 OF 14 SSUE: C					
	CUSTOMER END USER SCALE					



ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Р	PERMIT	11.19.21	MN	DP	MZ
С	CONSTRUCTION	01.16.23	KAC	SW	MZ

	DESCRIPTION	DETAI	L DRAWINGS		
	CUSTOMER				
91656	END USER				
Inverness Drive East, Ste#200 Englewood, Colorado 80112 PHONE: 800–345–4610 www.armstrongsteel.com	SCALE	NOT	TO SCALE		
	JOB NO.:	7	ENG. BY:		D
	5/24		DWG. NO.: 14 O	F 14	IS

DATE: 11/19/21 ISSUE: