METAL BUILDING OUTLET

GLACIER PARK INT HANGAR C

FO# 25543

Building 1 of 1

Glacier Park Int. Hangar C.

4170 US 2

Kalispell, MT 59901

03/02/2022

T&Z Consulting Services, LLC
MT COA No. PEL-EF-LIC-58744

METAL BUILDING
OUTLET CORP.

INDEX OF DRAWINGS

GENERAL

All materials included in the Metal Building System are in accordance with the manufacturer's standard materials and details unless otherwise specified on the order documents. (MBMA 2012 Metal Building Systems Manual, Part IV, Section 2.1)

DESIGN RESPONSIBILITY

The manufacturer is responsible only for the structural design of the Metal Building System it sells to the purchaser / customer. Neither the manufacturer nor the manufacturer's engineer is the design professional or engineer of record for the construction project. The manufacturer is not responsible for the design of any component or materials not sold by it, or their interface and connection with Metal Building System unless such design responsibility is specifically required by the order documents. (MBMA 2012 Metal Building Systems Manual, Part IV, Section 3.1)

FOUNDATION DESIGN AND ANCHOR BOLTS

The manufacturer is not responsible for the design, materials, and workmanship of the foundation. The anchor bolt plans prepared by the manufacturer are intended to show only the anchor bolt location, diameter (based on ASTM A36 bolts), and quantity required to connect the Metal Building System to the foundation. (MBMA 2012 Metal Building Systems Manual, Part IV, Section 3.2.2).

It is the responsibility of the end customer to ensure that adequate provisions are made for specifying bolt embedment, bearing angles, tie rods, and / or associated items embedded in the concrete foundation, as well as foundation design based on the loads imposed by the Metal Building System, or other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA 2012 Metal Building Systems Manual, Part IV, Section 3.2.2)

U.S. –Anchor bolts shall be accurately set to a tolerance of +/– 1/8 in both elevation and location (AISC Code of Standard Practice for Steel Buildings and Bridges).

Canada –Anchor bolts shall be accurately set in accordance with CISC Code of Standard Practice, June 2008, Clause 7.7.1

ADJACENT EXISTING BUILDINGS

The manufacturer does not investigate the influence of the Metal Building System on adjacent existing buildings or structures. The end customer assures that such buildings and structures are adequate to resist snow loads or other conditions as a result of the presence of the Metal Building System. (MBMA 2012 Metal Building Systems Manual, Part IV, Section 3.2.5)

SHOP-PRIMED STEEL

All structural members of the Metal Building System not fabricated of corrosion resistant material or protected by corrosion resistant coating are painted with one coat of shop primer. All surfaces to receive shop primer are cleaned of loose rust, loose mill scale and other foreign matter by using, as a minimum the hand tool cleaning method SSPC–SP2 (Steel Manual, Structures Painting Council) prior to painting. The coat of shop primer is intended to protect the steel framing for only a short period of exposure to ordinary atmospheric conditions. Shop–primed steel should be placed on blocking to prevent contact with the ground, and so positioned as to minimize water holding pockets, dust, mud an other contamination of the primer film. Repairs of damage to primed surfaces and or removal of foreign material due to improper field storage or site conditions are not the responsibility of the manufacturer. (CISC Code of Standard Practice, June 2008, Clause 6.8; (MBMA 2012 Metal Building Systems Manual, Part IV, Section 4.2.4).

ERECTION–GENERAL

The erector, by entering into contract to erect the building, holds itself out as skilled in the erection of Metal Building Systems and is responsible for complying with all applicable local, federal, and state construction and safety regulations including OSHA regulations as well as any applicable requirements of local, national, or international union rules or practices. (CISC Code of Standard Practice, June 2008, Clause 7.2; (MBMA 2012 Metal Building System Manual, Part IV, Section 6.9).

The erector shall erect the Metal Building System in accordance with the erection drawings, the Erection and Detail Manual (February 2012), and / or the Seam–Lok Technical – Erection manual (May 2012) as furnished by the manufacturer. The aforementioned erection information is intended to illustrate the layout of the framing members, provide the associated connection details, and suggests sequence of erection. It is not intended to specify any particular method of erection to be followed by the erector. The erector remains solely responsible for the safety and appropriateness of all techniques and methods utilized by its crews in the erection of the Metal Building System. The erector is responsible for supplying any safety devices such as scaffolds, runways, nets, et, which may be required to safely erect the Metal Building System. (MBMA 2012 Metal Building Systems Manual, Part IV, Section 6.9) The manufacturer expressly disclaims any responsibility for injury to persons in the course of erection or for damages to the product itself. Field erection of a Pre–Engineered Metal Building, as in all construction projects, involves hazards to persons within the area of the construction and risk of damage to the property itself. Only experienced persons who are skilled and qualified in the erection of Metal Building Systems should be permitted to field–erect a building due to the hazards of this construction activity. The manufacturer is not responsible for the erection of the Metal Building System, the supply of any tools or equipment, or any other field work. The manufacturer provides no field supervision for the erection of the structure nor does the manufacturer perform any intermediate or final inspections of the Metal Building System during or after erection.

The erector shall furnish temporary guys and bracing where needed for squaring, plumbing, and securing the structural framing against loads, such as wind loads acting on the exposed framing as well as loads due to erection equipment and erection operation, but not including loads resulting from the performance of work by others. Bracing furnished by the manufacturer for the Metal Building System cannot be assumed to be adequate during erection. Temporary supports such as temporary guys, braces, false work, cribbing, or other elements required for the erection operation will be determined, erected, and installed by the erector. (AISC Code of Standard Practice for Steel Buildings and Bridges, April 14, 2010, Section 7.10.3; CISC Code of Standard Practices, June, 2008, Clause 1.5; MBMA 2012 Metal Buildings System Manual, Part IV, Section 6.2.1.5).

ERECTION TOLERANCES

U.S. ; Erection tolerances are those set forth in AISC code of standard practice except individual members are considered, plumb, level and aligned if the deviation does not exceed 1:500. (AISC Code of Standard Practice for Steel Buildings and Bridges April 14, 2010 Section 7.13.1; MBMA 2012 Metal Building Systems Manual, Part IV, Section 6.8)

Canada; Erection tolerances are those set forth in CISC Code of Standard Practice except individual members are considered plumb, level and aligned if the deviation does not exceed 1:500. (CISC Handbook of Steel Construction, Tenth Edition, Second Revised Printing, Part 1, Clause 29.3; MBMA 2012 Metal Building Systems Manual, Part IV, Section 6.8)

BOLT TIGHTENING

The proper tightening and inspection of all fasteners is the responsibility of the erector (Reference RCSC for structural joints using high strength bolts; August 1, 2014). All high strength (ASTM F3125, A325, A490) bolts and nuts must be tightened by the "turn–of–the–nut" method unless otherwise specified by the end customer in the contract documents. Inspection of high strength bolt and nut installation by other than the erector must also be specified in the contract documents and the erector is responsible for ensuring that the installation procedures are compatible prior to the start of erection (CISC Handbook of Steel Construction, Tenth Edition, Second Revised Printing, Part 1, Clause 23.8.2), (MBMA 2012 Metal Building Systems Manual, Part IV, Section 6.9).

MATERIALS	ASTM DESIGNATION	MINIMUM YIELD	MATERIALS	ASTM DESIGNATION	MINIMUM YIELD
Hot–Rolled Mill Sections	A 36, A 572, A 992	Fy = 36 ksi and/or 50 ksi	Roof and Wall Sheeting	A 792, Gr. 50 Class 1 A 792, Gr. 80	Fy = 50 ksi Fy = 80 ksi
Structural Steel Plates	A 572, A 1011	Fy = 55 ksi	Mild Steel Bolts	A 307	Fy = 36 ksi
Structural Steel Bars	A 572 or A 529	Fy = 55 ksi	High Strength Bolts	F3125: A 325–N A 490–N	Fy = 92 or 81 ksi N/A
Cold Formed Light Gauge Shapes	A 653 Gr. 55	Fy = 55 ksi	Anchor Rods (If supplied)	A 36	Fy = 36 ksi
Cable Bracing	A 475, EHS	N/A	Pipe and Hollow Structural Sections	A 500 Gr. B	Fy = 42 ksi, 46 ksi
Rod Bracing	A 36	Fy = 36 ksi			

CORRECTION OF ERRORS AND REPAIRS

The correction of minor misfits by the use of drift pins to draw the components into line, shimming, 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. (AISC Code of Standard Practice for Steel Buildings and Bridges, April 14, 2010, Section 7.14; CISC Code of Standard Practice, June 2008, Clause 7.15; MBMA 2012 Metal Building Systems Manual, Part IV, Section 6.10).

DRAWING DISCREPANCIES

In case of discrepancies between the manufacturers steel plans and plans for other trades, the manufacturers steel plans govern. (AISC Code of Standard Practice for Steel Buildings and Bridges, April 14, 2010, Section 3.3; CISC Code of Standard Practice, June 2008, Clause 3.4; MBMA 2012 Metal Building Systems Manual, Part IV, Section 3.1).

DELIVERIES

Delivery of any material by the manufacturers carrier, a common carrier, or to purchasers/ customers own leased, chartered, or authorized conveyance shall constitute delivery to builder, and thereafter, such material shall be at builders risk. If builder chooses to use its own, or private carrier, it shall be solely responsible for compliance with all applicable government regulations. All charges shall be borne by the builder. The manufacturers responsibility for damage or loss ceases upon delivery of shipment to carrier. The manufacturer will endeavor to deliver on the required date. The manufacturers truck is not considered as being late if deliveries are between 8am – 12pm (morning) and 12pm – 5pm (afternoon). However, the manufacturer cannot be held responsible for circumstances beyond our control. For deliveries via the manufacturers truck, the manufacturer will only honor claims that were approved by the customer service department at the time of delivery. For deliveries via contract carriers, it is the responsibility of the customer to file claims with the carrier. The manufacturer cannot assume any liability for the claim.

SHORTAGES

The purchaser /customer should make an inspection upon arrival of all building components. The purchaser/customer must note on the freight bill any missing item(s) and notify the manufacturers customer service department immediately; otherwise, the manufacturer cannot be held responsible for any shortages. If any item is damaged, note on the bill of lading and file a claim with the freight agent. Concealed shortages must be reported to the manufacturers customer service department within the following time frames (date from receipt of first delivery), based on the project shipment size, i.e., number of truck loads used in delivery.

1 to 3 loads....2 weeks 4 loads and over....3 weeks The manufacturers responsibility for shortages expires at the end of these time periods.

FABRICATION ERRORS

The purchaser/customer is responsible for contacting the customer service department to advise the manufacturer of fabrication problems and corresponding cost estimates. The manufacturer will be responsible for providing the builder with verbal approval to proceed with appropriate field corrections. This will be done in a timely manner. IF THE BUILDER PROCEEDS WITH CORRECTIVE WORK WITHOUT THE MANUFACTURERS APPROVAL, HE DOES SO AT HIS OWN RISK. The manufacturer shall not be responsible for any claims where the purchaser/customer has not documented the problem, its correction, and reasonable costs for repair, and submitted this documentation for payment within 30 days of the occurrence.

INVOICE PAYMENT

By acceptance of the materials of services set forth in the invoice, the purchaser/customer agrees to pay the invoice amount within the time period specified on the invoice. AT NO TIME IS IT ACCEPTABLE TO DEDUCT A BACK CHARGE OR SHORTAGE FROM AN INVOICE.

SAFETY PROCEDURES

The manufacturer is committed to manufacturing a quality product that can be erected safely. Although good job site practices and a commitment to safety by the erector are beyond the control of the manufacturer, the manufacturer highly recommends the erector provide good, safe working conditions on the job site. The erector should follow all local, state, and federal health and safety regulations at all times. Accident prevention practices should be implemented and each employee should know emergency procedures. The manufacturer also recommends daily meetings to discuss erection safety procedures. For additional information concerning federal health and safety regulations, contact the occupational safety and health administration (osha).

U.S. Department of Labor
Occupational Safety and Health Administration
200 Constitution Avenue, N.W.
Washington, DC 20210
www.osha.gov

The manufacturer shall not be responsible for personal injury or property damage as a result of failure to follow all applicable safety regulations and material handling and installation recommendations.

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C
200'-0" x 80'-0" x 26'-0 1/2"
DATE: 2/16/22 | REVISION: 01
ENG: MOZ | DWN: BJC | APPD: MCK

F.O.25543

GLACIER PARK INT HANGAR C

REVISION HISTORY

REV.	DESCRIPTION	DATE
01	SEE CO-01	2-16-22

DRAWING STATUS

FOR APPROVAL:
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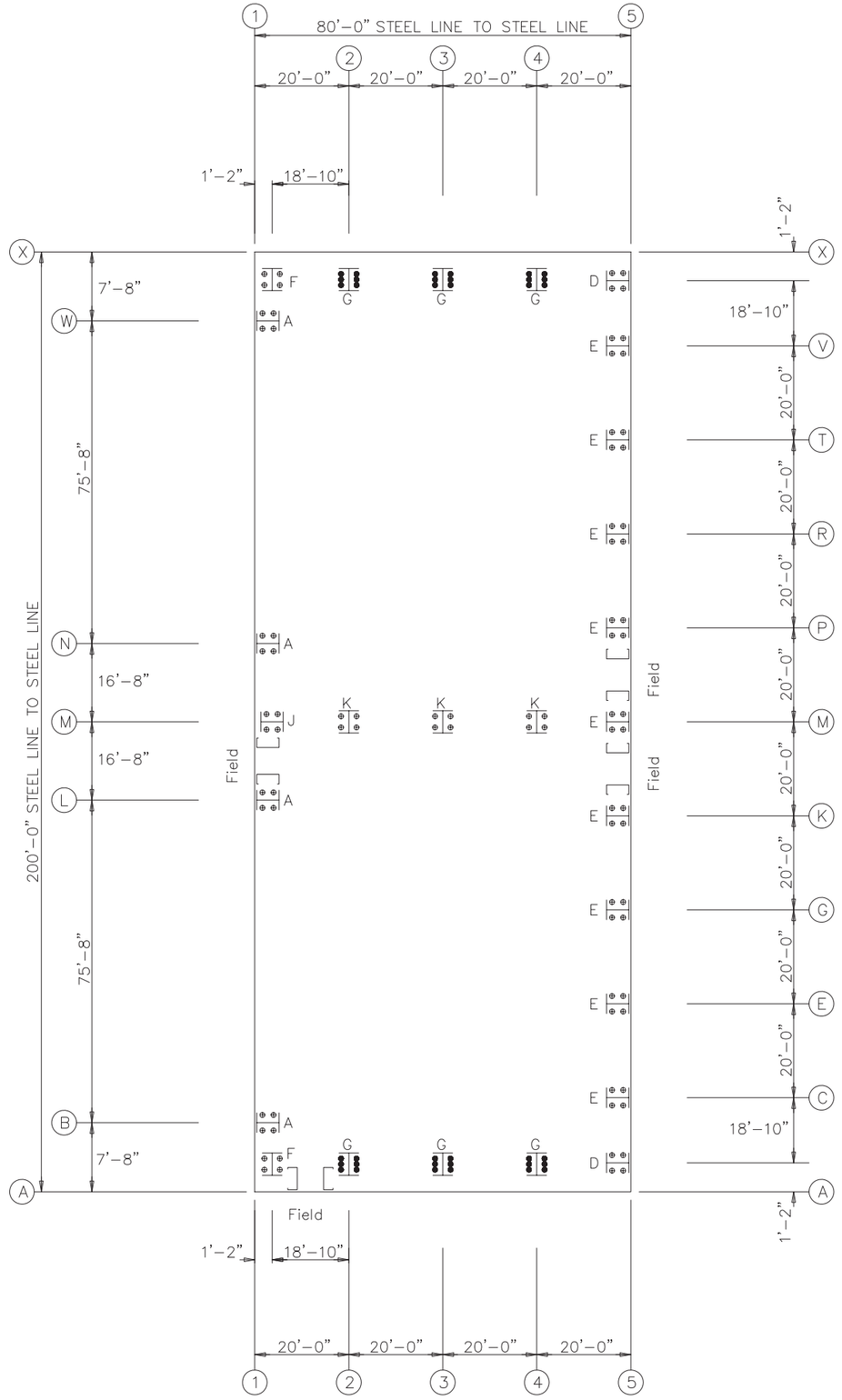
FOR CONSTRUCTION:
FINAL DRAWINGS.

MONTANA
MINGQIAO ZHU
No. 15476PE
LICENSED PROFESSIONAL ENGINEER

03/02/2022

LEGEND

BSW
LEW REW
FSW



ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'–0" (U.N.)
Finished Floor @ 100'–0"

DRAWING IS NOT TO SCALE

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C
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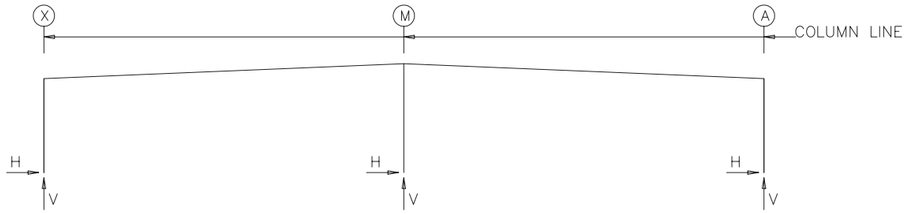
FRAME LINES: 1 2 3 4



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	AFF/BFF (in)
1	X	4	0.750	8.000	12.56	0.500	0.0
1	A	4	0.750	8.000	12.56	0.500	0.0
1	M	4	0.750	10.00	14.00	0.500	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	AFF/BFF (in)
2	X	6	1.000	8.000	16.75	0.500	0.0
2	A	6	1.000	8.000	16.75	0.500	0.0
2	M	4	0.750	10.00	14.00	0.750	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	AFF/BFF (in)
3*	X	6	1.000	8.000	16.75	0.500	0.0
3*	A	6	1.000	8.000	16.75	0.500	0.0
3*	M	4	0.750	10.00	14.00	0.750	0.0

3* Frame lines: 3 4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
1	X	1.4	4.0	1.2	2.4	4.2	9.4	9.1	20.4	-6.6	-12.1	-1.1	-6.3
1	A	-1.4	4.0	-1.2	2.4	-4.2	9.4	-9.1	20.4	1.1	-6.3	6.6	-12.1
1	M	0.0	9.1	0.0	5.6	0.0	23.6	0.0	51.1	0.0	-19.4	0.0	-19.4

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
1	X	-5.8	-8.5	-0.4	-2.7	-1.5	-8.7	-1.8	-5.3	-6.6	-1.6	6.6	1.6
1	A	0.4	-2.7	5.8	-8.5	1.8	-5.3	1.5	-8.7	-6.6	1.6	6.6	-1.6
1	M	0.0	-10.9	0.0	-10.9	0.0	-16.8	0.0	-16.8	0.0	0.0	0.0	0.0

Frame Line	Column Line	MIN_SNOW Horiz	MIN_SNOW Vert	F1UNB_SL_L Horiz	F1UNB_SL_L Vert	F1UNB_SL_R Horiz	F1UNB_SL_R Vert
1	X	6.3	14.1	6.7	24.0	6.8	4.5
1	A	-6.3	14.1	-6.8	4.5	-6.7	24.0
1	M	0.0	35.3	0.0	42.9	0.0	42.9

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2	X	1.6	6.1	2.2	6.0	5.4	17.2	11.6	37.4	-8.5	-18.6	0.8	-10.0
2	A	-1.6	6.1	-2.2	6.0	-5.4	17.2	-11.6	37.4	-0.8	-10.0	8.5	-18.6
2	M	0.0	14.6	0.0	15.0	0.0	45.5	0.0	98.8	0.0	-32.3	0.0	-32.3

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2	X	-8.1	-12.0	1.2	-3.4	-2.0	-43.8	-2.6	-37.3	-10.1	-2.4	10.1	2.4
2	A	-1.2	-3.4	8.1	-12.0	2.6	-37.3	2.0	-43.8	-10.1	2.4	10.1	-2.4
2	M	0.0	-16.0	0.0	-16.0	0.0	-37.6	0.0	-37.6	0.0	0.0	0.0	0.0

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert	F2UNB_SL_L Horiz	F2UNB_SL_L Vert	F2UNB_SL_R Horiz	F2UNB_SL_R Vert
2	X	0.0	-50.7	8.0	25.8	8.5	44.6	8.6	7.6
2	A	0.0	-50.7	-8.0	25.8	-8.6	7.6	-8.5	44.6
2	M	0.0	0.0	0.0	68.3	0.0	82.5	0.0	82.5

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
3*	X	1.6	6.1	0.8	2.6	5.4	17.2	11.6	37.4	-7.8	-16.0	1.5	-9.0
3*	A	-1.6	6.1	-0.8	2.6	-5.4	17.2	-11.6	37.4	-1.5	-9.0	7.8	-16.0
3*	M	0.0	14.6	0.0	6.8	0.0	45.5	0.0	98.8	0.0	-28.6	0.0	-28.6

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
3*	X	-7.6	-9.4	1.5	-2.4	-1.1	-41.6	-1.7	-35.1	-10.1	-2.4	10.1	2.4
3*	A	-1.5	-2.4	7.6	-9.4	1.7	-35.1	1.1	-41.6	-10.1	2.4	10.1	-2.4
3*	M	0.0	-12.3	0.0	-12.3	0.0	-32.4	0.0	-32.4	0.0	0.0	0.0	0.0

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert	F3UNB_SL_L Horiz	F3UNB_SL_L Vert	F3UNB_SL_R Horiz	F3UNB_SL_R Vert
3*	X	0.0	-50.7	8.0	25.8	8.5	44.6	8.6	7.6
3*	A	0.0	-50.7	-8.0	25.8	-8.6	7.6	-8.5	44.6
3*	M	0.0	0.0	0.0	68.3	0.0	82.5	0.0	82.5

3* Frame lines: 3 4

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200'-0" x 80'-0" x 26'-0 1/2"

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REV.	DESCRIPTION	DATE
01	SEE CO-01	2-16-22

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LICENSED PROFESSIONAL ENGINEER

03/02/2022

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Horz	Wind Press Horz	Wind Suct Horz
1	W	1.1	−1.9	−3.0	3.4
1	N	1.3	0.0	−4.5	5.0
1	M		0.0	−4.4	4.8
1	L	1.3	0.0	−4.5	5.0
1	B	1.1	−1.9	−3.0	3.4

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz
5	A	0.8	0.3	1.7	3.6	0.0	−2.1	0.0	−1.3	0.0	−1.4	0.0	−0.6	−2.3
5	C	1.4	0.7	4.5	9.8	0.0	−5.7	0.0	−3.2	0.0	−4.0	0.0	−1.6	−4.5
5	E	1.3	0.6	4.0	8.6	1.3	−6.9	0.0	−1.0	1.3	−5.4	0.0	0.4	−4.7
5	G	1.3	0.6	4.1	8.9	0.0	−2.9	1.3	−4.7	0.0	−1.4	1.3	−3.2	−4.8
5	K	1.3	0.6	4.1	8.8	0.0	−2.8	0.0	−2.9	0.0	−1.3	0.0	−1.4	−5.0
5	M	1.3	0.6	4.1	8.8	0.0	−2.9	0.0	−2.9	0.0	−1.4	0.0	−1.4	−5.1
5	P	1.3	0.6	4.1	8.8	0.0	−2.9	0.0	−2.8	0.0	−1.4	0.0	−1.3	−5.0
5	R	1.3	0.6	4.1	8.9	1.3	−4.7	0.0	−2.9	1.3	−3.2	0.0	−1.4	−4.8
5	T	1.3	0.6	4.0	8.6	0.0	−1.0	1.3	−6.9	0.0	0.4	1.3	−5.4	−4.7
5	V	1.4	0.7	4.5	9.8	0.0	−3.2	0.0	−5.7	0.0	−1.6	0.0	−4.0	−4.5
5	X	0.8	0.3	1.7	3.6	0.0	−1.3	0.0	−2.1	0.0	−0.6	0.0	−1.4	−2.3

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	−MIN_SNOW− Horz	−MIN_SNOW− Vert	E2UNB_SL_L Horz	E2UNB_SL_L Vert
5	A	2.6	0.0	−2.1	0.0	−1.2	0.0	0.0	0.0	0.0	0.0	2.5	0.0	3.7
5	C	4.9	0.0	−5.7	0.0	−3.2	0.0	0.1	0.0	−0.1	0.0	6.8	0.0	9.6
5	E	5.2	0.0	−4.7	0.2	−3.1	6.4	−8.6	0.0	8.8	0.0	5.9	0.0	9.8
5	G	5.3	0.2	−5.4	0.0	−2.7	0.0	8.4	6.4	−8.7	0.0	6.2	0.0	12.9
5	K	5.5	0.0	−5.3	0.0	−2.8	0.0	0.1	0.0	−0.1	0.0	6.1	0.0	13.4
5	M	5.7	0.0	−4.0	0.0	−4.0	0.0	0.1	0.0	0.1	0.0	6.1	0.0	7.8
5	P	5.5	0.0	−2.8	0.0	−5.3	0.0	−0.1	0.0	0.1	0.0	6.1	0.0	2.0
5	R	5.3	0.0	−2.7	0.2	−5.4	6.4	−8.7	0.0	8.4	0.0	6.2	0.0	2.8
5	T	5.2	0.2	−3.1	0.0	−4.7	0.0	8.8	6.4	−8.6	0.0	5.9	0.0	2.6
5	V	4.9	0.0	−3.2	0.0	−5.7	0.0	−0.1	0.0	0.1	0.0	6.8	0.0	3.0
5	X	2.6	0.0	−1.2	0.0	−2.1	0.0	0.0	0.0	0.0	0.0	2.5	0.0	1.1

Frm Line	Col Line	E2UNB_SL_R Horz	E2UNB_SL_R Vert
5	A	0.0	1.1
5	C	0.0	3.0
5	E	0.0	2.6
5	G	0.0	2.8
5	K	0.0	2.0
5	M	0.0	7.8
5	P	0.0	13.4
5	R	0.0	12.9
5	T	0.0	9.8
5	V	0.0	9.6
5	X	0.0	3.7

ANCHOR BOLT SUMMARY

	Qty	Locate	Dia (in)	Type
⊕	60	Endwall	3/4"	
⊕	24	Frame	3/4"	
●	36	Frame	1"	

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	Reactions in plane of wall ± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	1								(h)
F_SW	A	2,3	21.6	*	33.1	*			
R_EW	5	E,G	Bracing, see EW reactions						
		R,T	Bracing, see EW reactions						
B_SW	X	3,2	21.6	*	33.1	*			

(h)Rigid frame at endwall

*See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	AFF/BFF (in)
1	W	4	0.750	10.00	12.13	0.375	0.0
1	N	4	0.750	10.00	12.13	0.375	0.0
1	L	4	0.750	10.00	12.13	0.375	0.0
1	B	4	0.750	10.00	12.13	0.375	0.0
5	A	4	0.750	6.000	8.125	0.375	0.0
5	C	4	0.750	6.000	8.125	0.375	0.0
5	E	4	0.750	6.000	8.125	0.375	0.0
5	G	4	0.750	6.000	8.125	0.375	0.0
5	K	4	0.750	6.000	8.125	0.375	0.0
5	M	4	0.750	6.000	8.125	0.375	0.0
5	P	4	0.750	6.000	8.125	0.375	0.0
5	R	4	0.750	6.000	8.125	0.375	0.0
5	T	4	0.750	6.000	8.125	0.375	0.0
5	V	4	0.750	6.000	8.125	0.375	0.0
5	X	4	0.750	6.000	8.125	0.375	0.0

DESIGN INFORMATION

1. All loading conditions are examined and only the maximum / minimum H or V and the corresponding H or V are reported.
2. Positive reactions are shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data:

DESIGN CRITERIA

Width (ft)	= 200
Length (ft)	= 80
Eave Height (ft)	= 26.04
Roof Slope (rise/12)	= 0.5:12
Building Code	= IBC 18
Local Code (State/Prov)	= IBC 18
Dead Load (psf)	= 2.250
Collateral Load (psf)	= 3.00
Roof Live Load (psf)	= 20.00
Frame Live Load (psf)	= 20.00
Snow:	
Ground Snow Load (psf)	= 62.00
Snow Importance	= 1.00
Thermal Coefficient	= 1.00
Snow Exposure Factor	= 1.0000
Slippery Roof	= N
Roof Snow Load, Pf (psf)	= 43.4
Min Snow Load, Pmin (psf)	= 20.0000
Wind:	
Ultimate Wind Speed (mph)	= 105 mph
Occupancy Category	= II − Normal
Importance − Wind	= 1.00
Wind Exposure	= C
Enclosure Classification	= C
--Internal Pressure Coefficients--	
Pressure	= 0.18
Suction	= −0.18
----Components & Cladding----	
Design Pressure:	
Pressure (psf)	= 22.10
Suction (psf)	= −29.47

Equivalent Lateral Brace Force Procedure.

SEISMIC CRITERIA

Seismic Importance	= 1.00
Occupancy Category	= II − Normal
Mapped Spectral Response Accelerations	
Ss	= 0.9130
S1	= 0.2740
---Spectral Response Coefficients---	
Sds	= 0.7304
Sd1	= 0.3748
Site Class	= D
Seismic Design Category	= D
------Base Shear------	
Expanded Formula	= 0.667*Ie*Fa*Ss*W/R
Longitudinal Base Shear	(k) =66.12
Transverse Base Shear	(k) =66.73
--Seismic Response Coefficients--	
Frame	= 0.225
FSW	= 0.225
BSW	= 0.225
--Response Modification Factors--	
Frame	= 3.25
FSW	= 3.25
BSW	= 3.25

DEFLECTION LIMITS

ENDWALL COLUMN	L/ 120
ENDWALL RAFTER (Live)	L/ 180
ENDWALL RAFTER (Wind)	L/ 180
WALL GIRTS	L/ 90
PURLIN (LIVE)	L/ 180
PURLIN (WIND)	L/ 150
WALL PANEL	L/ 90
ROOF PANEL (Live)	L/ 180
ROOF PANEL (Wind)	L/ 120
Main Frame (Horiz)	H/ 60
Main Frame (Vert)	L/ 180
WIND BRACING	H/ 60
Main Frame (Crane)	H/ 100
Main Frame (Seismic)	H/ 50
SEISMIC BRACING	H/ 50
PARTITION COLUMN	L/ 120
PARTITION GIRT	L/ 120
PARTITION PANEL	L/ 120

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C

200'-0" x 80'-0" x 26'-0 1/2"

DATE: 2/16/22 | REVISION: 01

ENG: MOZ | DWN: BJC | APPD: MCK

F.O. 25543

GLACIER PARK INT HANGAR C

REVISION HISTORY

REV.	DESCRIPTION	DATE
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DRAWING STATUS

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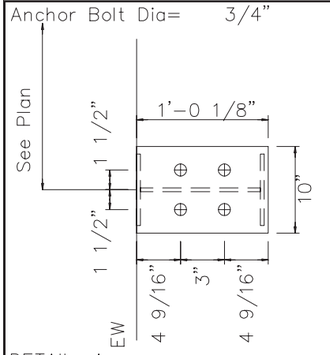
FINAL DRAWINGS. ■

MONTANA
MINGQIAO ZHU
No. 15476PE
LICENSED PROFESSIONAL ENGINEER

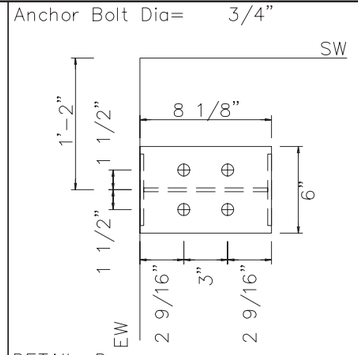
03/02/2022

Anchor Bolt Dia= 3/4"



DETAIL A

Anchor Bolt Dia= 3/4"



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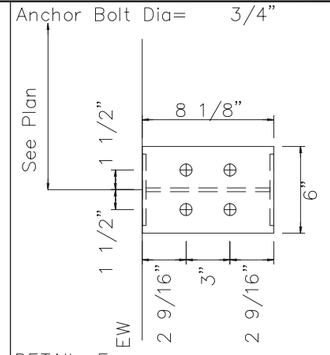

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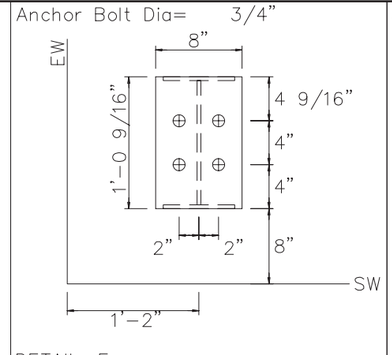
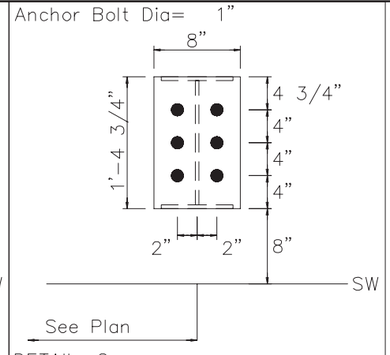


DETAIL F

Anchor Bolt Dia= 1"



DETAIL G

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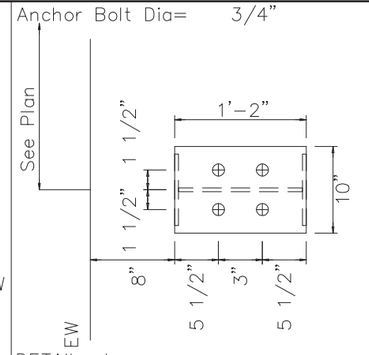
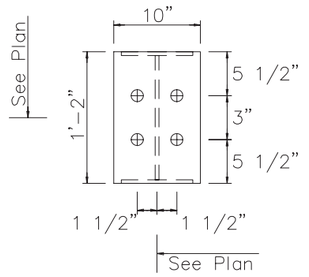


DETAIL J

Anchor Bolt Dia= 3/4"



DETAIL K

DRAWING IS NOT TO SCALE

METAL BUILDING
OUTLET CORP.

GLACIER PARK INT HANGAR C

200'-0" x 80'-0" x 26'-0 1/2"

DATE: 2/16/22 | REVISION: 01

ENG: MOZ | DWN: BJC | APPD: MCK

F.O. 25543

GLACIER PARK INT HANGAR C

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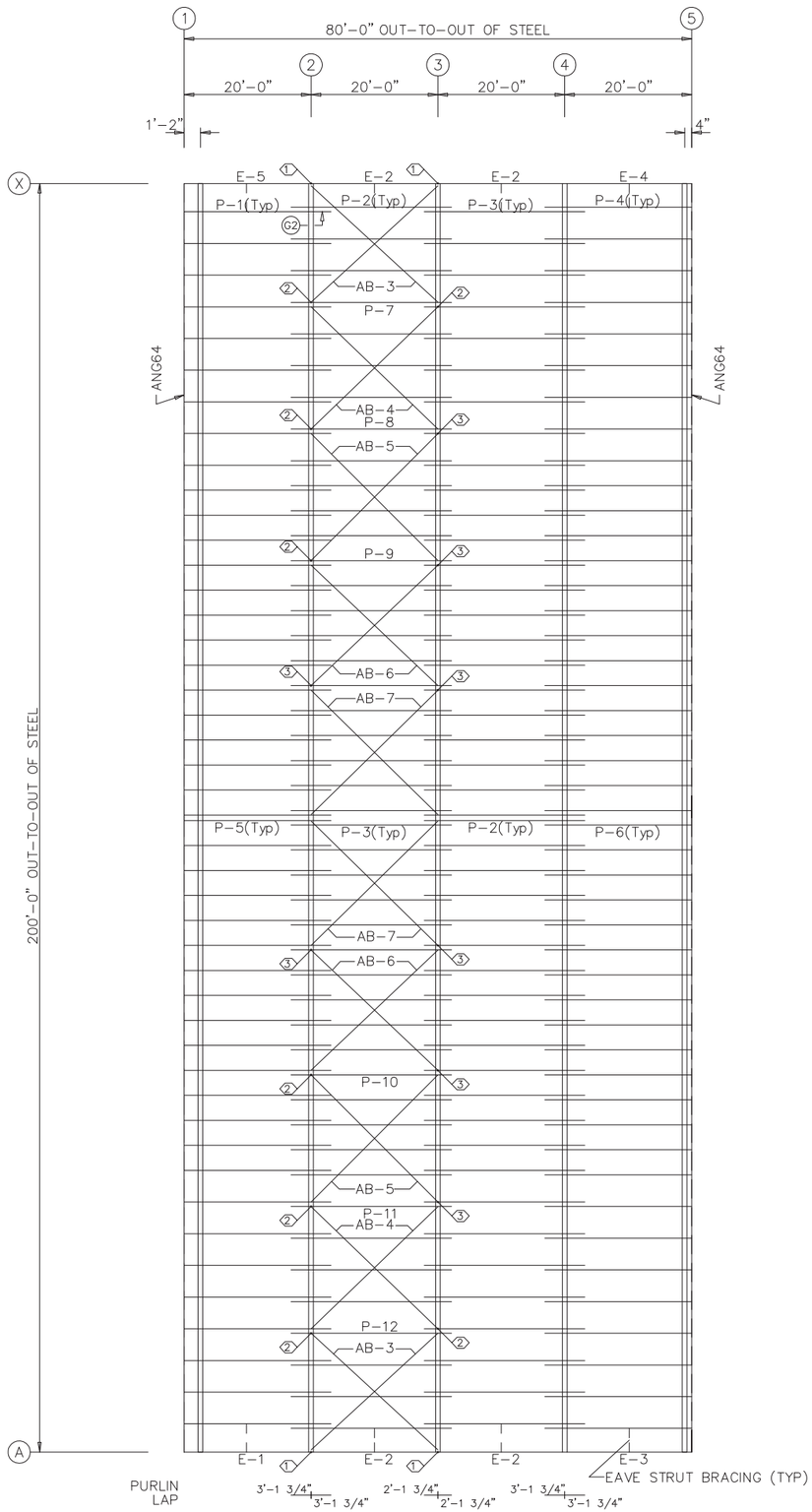
03/02/2022



ROOF FRAMING PLAN

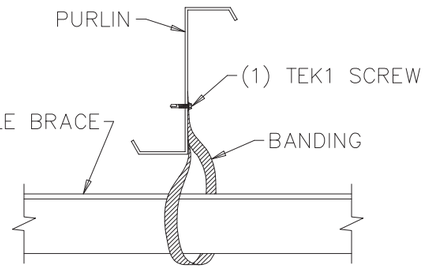
MEMBER TABLE
ROOF PLAN

QUAN	MARK	PART	LENGTH
23	P-1	10X25Z13	23'-1 1/2"
43	P-2	10X25Z14	25'-3 1/2"
43	P-3	10X25Z14	25'-3 1/2"
23	P-4	10X25Z13	23'-1 1/2"
23	P-5	10X25Z13	23'-1 1/2"
23	P-6	10X25Z13	23'-1 1/2"
1	P-7	10X25Z10	25'-3 1/2"
1	P-8	10X25Z12	25'-3 1/2"
1	P-9	10X25Z13	25'-3 1/2"
1	P-10	10X25Z13	25'-3 1/2"
1	P-11	10X25Z12	25'-3 1/2"
1	P-12	10X25Z10	25'-3 1/2"
1	E-1	10X35E13	19'-11 1/2"
4	E-2	10X35E13	19'-11 1/2"
1	E-3	10X35E13	19'-11 1/2"
1	E-4	10X35E13	19'-11 1/2"
1	E-5	10X35E13	19'-11 1/2"
4	AB-3	L6X35X1/2	25'-6 3/16"
4	AB-4	L6X35X1/2	27'-3 1/2"
4	AB-5	L6X35X1/2	27'-10"
4	AB-6	L6X35X1/2	27'-1 1/8"
4	AB-7	L6X35X1/2	27'-3 1/16"

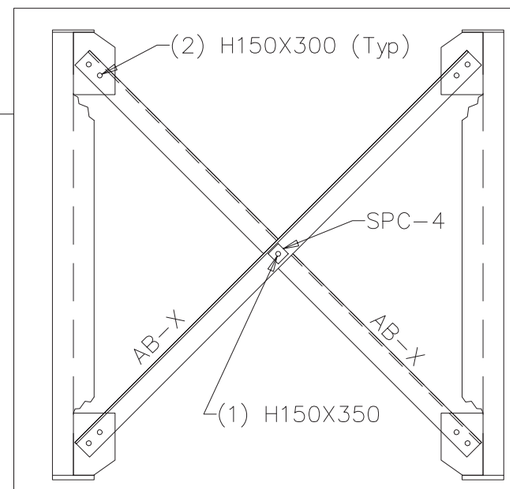
SPECIAL BOLTS
ROOF PLAN

ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A325	1/2"	1 1/4"	0
2	6	A325	1/2"	1 1/4"	0
3	4	A325	1/2"	1 1/4"	0

ANGLE BRACING SAG STRAP



NOTE: ROOF ANGLE BRACING MUST BE TIED TO EACH PURLIN IT CROSSES WITH SAG STRAPS AS SHOWN.



ANGLE BRACE DETAIL

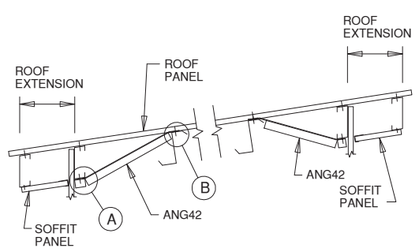
DRAWING IS NOT TO SCALE

GENERAL NOTES:

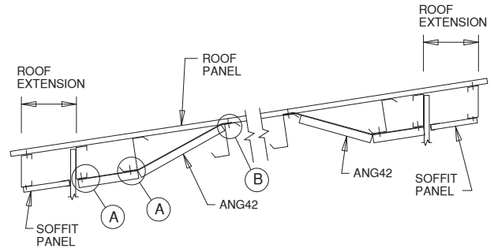
1. Screw Down Roof: Use TEK5WW screws in place of SD150 panel screws at all 10 gage purlins, eave struts, or roof joists.
2. Standing Seam Roof: Use FST#6 in place of FST#1 clip to purlin screws at all 10 gage purlins, eave struts, or at roof joists.

STANDARD EAVE STRUT BRACING DETAIL

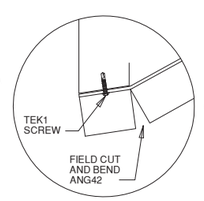
NOTE 1: SPACE BRACES EVENLY ACROSS BAYS



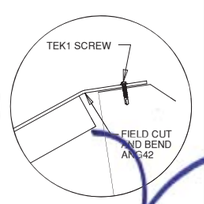
CONDITION 1:
FIRST PURLIN SPACE GREATER THAN 2'-0"



CONDITION 2:
FIRST PURLIN SPACE LESS THAN OR EQUAL TO 2'-0"



DETAIL A



DETAIL B

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C
200'-0" x 80'-0" x 26'-0 1/2"
DATE: 2/16/22 | REVISION: 01
ENG: MOZ | DWN: BJC | APPD: MCK

F.O. 25543

GLACIER PARK INT HANGAR C

REVISION HISTORY

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FINAL DRAWINGS.

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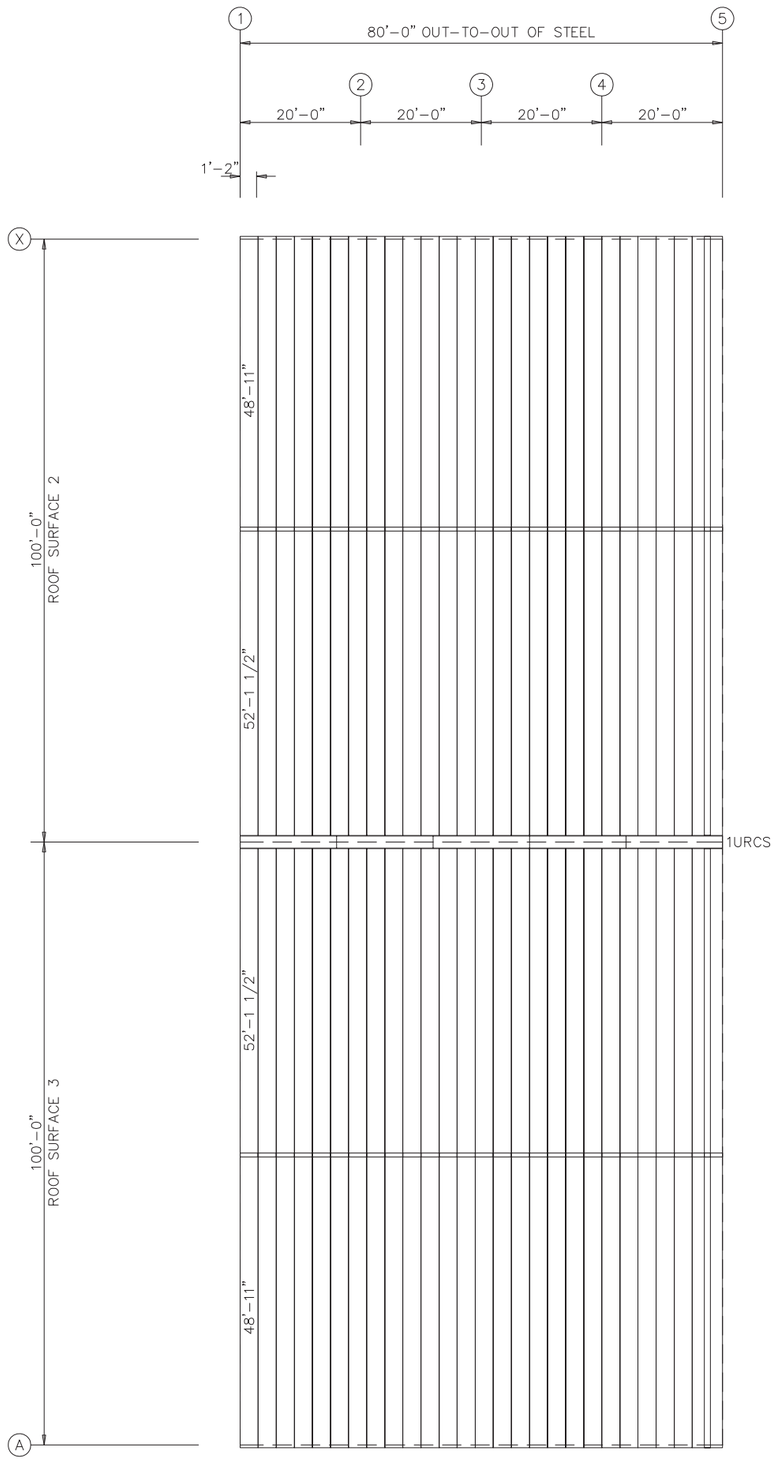
03/02/2022



ROOF SHEETING PLAN

PANELS: 26 Ga. R – Light Stone

GENERAL NOTES:

Panel "Start" and "End" dimensions must be followed for the proper installation of the gable trim(s) provided.

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METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C

200'-0" x 80'-0" x 26'-0 1/2"

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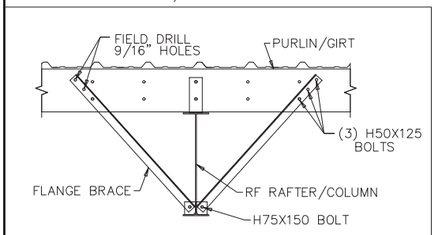
No. 15476PE
LICENSED PROFESSIONAL ENGINEER

03/02/2022

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	4	A325	1.000	2.75
SP-2	4	4	4	A325	1.000	3.25
SP-3	4	4	2	A325	1.000	3.25
SP-4	4	4	6	A325	1.000	3.25

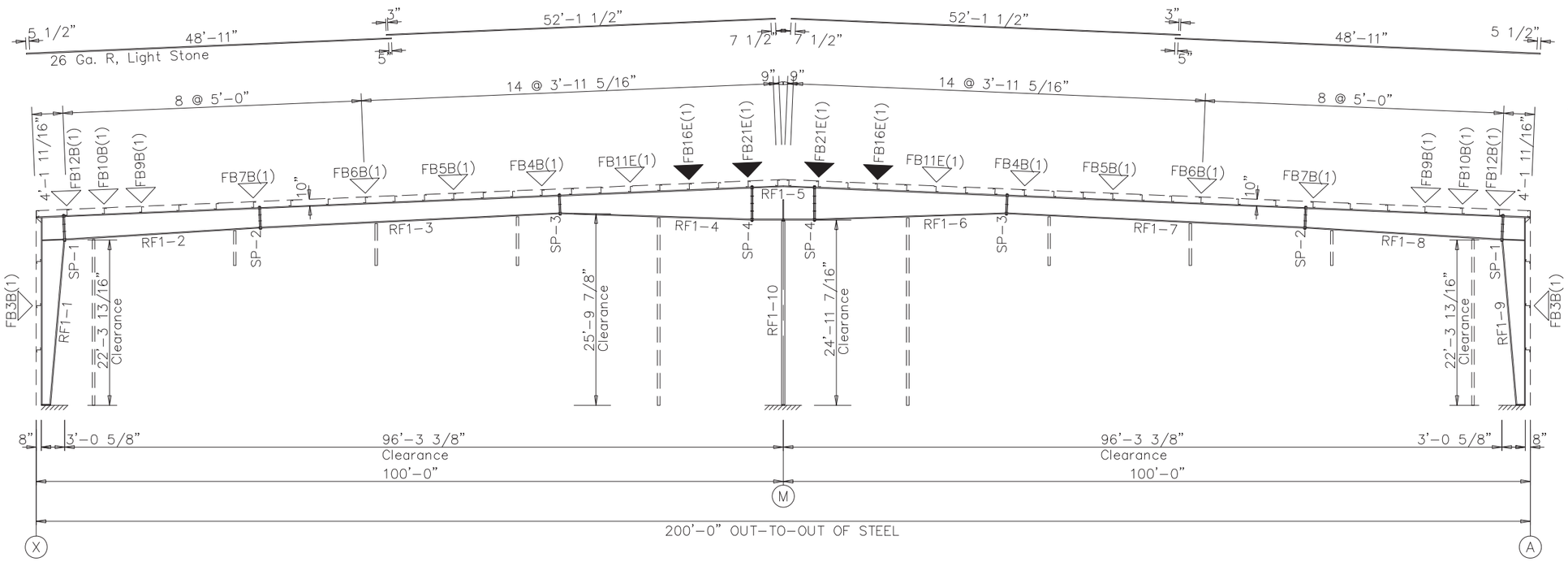
CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
RF1-10	4	A325	0.750	2.25

▽FLANGE BRACES: Both Sides(U.N.)
FBxxB(1)
B – L20X3/16
E – L30X1/4



▼ FLANGE BRACE DETAIL

MEMBER TABLE					
Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	12.0/28.4	0.188	180.0	8 x 1/4" x 302.1	8 x 5/16" x 120.5
	28.4/36.0	0.219	123.5	8 x 1/4" x 42.6	8 x 3/8" x 144.2
RF1-2	36.0/34.6	0.188	73.9	8 x 1/4" x 73.9	8 x 5/16" x 194.0
	34.6/30.0	0.149	240.0	8 x 3/8" x 120.0	8 x 1/2" x 120.0
				8 x 5/8" x 120.0	
RF1-3	30.0/28.3	0.149	270.0	8 x 3/4" x 480.0	8 x 5/8" x 120.0
	28.3/27.0	0.149	210.0		8 x 3/4" x 240.0
					8 x 5/8" x 120.0
RF1-4	27.1/44.9	0.188	240.0	8 x 1/2" x 120.0	8 x 3/8" x 120.3
	44.9/49.9	0.219	69.9	8 x 5/16" x 189.9	8 x 1/2" x 188.3
RF1-5	50.0/52.0	0.219	94.1	8 x 5/16" x 47.1	8 x 3/4" x 94.1
				8 x 5/16" x 47.1	
RF1-6	49.9/44.9	0.219	69.9	8 x 5/16" x 189.9	8 x 1/2" x 188.3
	44.9/27.1	0.188	240.0	8 x 1/2" x 120.0	8 x 3/8" x 120.3
RF1-7	27.0/28.3	0.149	208.0	8 x 3/4" x 478.0	8 x 5/8" x 118.0
	28.3/30.0	0.149	270.0		8 x 3/4" x 240.0
					8 x 5/8" x 120.0
RF1-8	30.0/34.6	0.149	240.0	8 x 5/8" x 120.0	8 x 1/2" x 120.0
	34.6/36.0	0.188	75.9	8 x 3/8" x 120.0	8 x 5/16" x 196.0
				8 x 1/4" x 75.9	
RF1-9	36.0/28.4	0.219	123.5	8 x 1/4" x 42.6	8 x 3/8" x 144.2
	28.4/12.0	0.188	180.0	8 x 1/4" x 302.1	8 x 5/16" x 120.5
RF1-10	W1410084				



RIGID FRAME ELEVATION: FRAME LINE 1

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

DRAWING IS NOT TO SCALE

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C
200'-0" x 80'-0" x 26'-0 1/2"
DATE: 2/16/22 | REVISION: 01
ENG: MOZ | DWN: BJC | APPD: MCK

F.O. 25543

GLACIER PARK INT HANGAR C

REVISION HISTORY

REV.	DESCRIPTION	DATE
01	SEE CO-01	2-16-22

DRAWING STATUS

FOR APPROVAL:
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FINAL DRAWINGS. ■

MONTANA
MINGQIAO ZHU
No. 15476PE
LICENSED PROFESSIONAL ENGINEER

03/02/2022

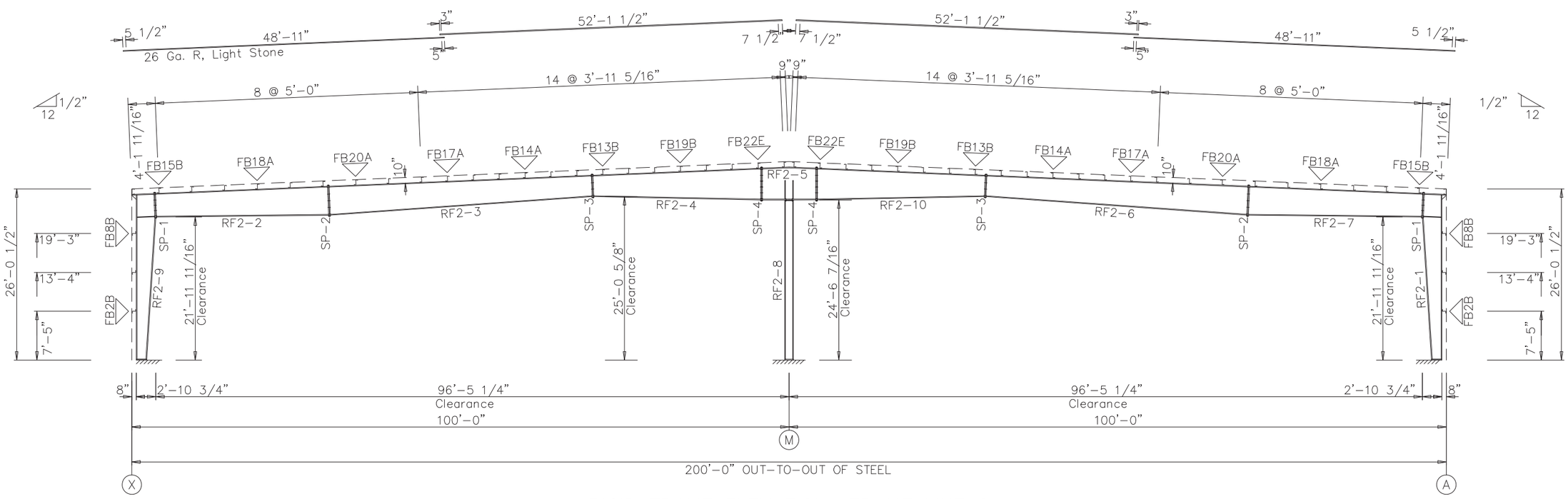
SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	6	A325	1.000	3.25
SP-2	4	4	6	A325	1.250	3.50
SP-3	4	4	4	A325	1.250	3.50
SP-4	4	4	8	A325	1.250	3.50

CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
RF2-8	4	A325	0.750	2.25

▽FLANGE BRACES: Both Sides(U.N.)
FBxxB(1)
B – L20X3/16
A – L15X1/8
E – L30X1/4

MEMBER TABLE

Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF2-1	16.0/28.5	0.188	180.0	8 x 1/4" x 302.1	8 x 1/2" x 260.1
	28.5/34.0	0.250	123.4	8 x 1/4" x 40.4	
RF2-2	40.0/48.1	0.219	255.6	8 x 1/4" x 75.6	8 x 3/8" x 195.7
	48.1/50.0	0.219	60.0	8 x 1/2" x 120.0	8 x 1/2" x 120.1
				8 x 3/4" x 120.0	
RF2-3	50.0/43.0	0.219	240.0	10 x 3/4" x 120.0	10 x 5/8" x 120.1
	43.0/36.0	0.188	240.0	10 x 1" x 360.0	10 x 3/4" x 360.1
RF2-4	36.1/43.4	0.219	120.0	8 x 3/4" x 120.0	8 x 5/8" x 120.2
	43.4/54.9	0.250	189.9	8 x 1/2" x 189.9	8 x 3/4" x 188.0
RF2-5	55.0/57.0	0.313	94.1	10 x 1/2" x 47.1	10 x 3/4" x 94.1
				10 x 1/2" x 47.1	
RF2-6	36.0/43.0	0.188	238.0	10 x 1" x 358.0	10 x 3/4" x 358.1
	43.0/50.0	0.219	240.0	10 x 3/4" x 120.0	10 x 5/8" x 120.1
RF2-7	50.0/48.1	0.219	60.0	8 x 3/4" x 120.0	8 x 1/2" x 120.1
	48.1/40.0	0.219	257.6	8 x 1/2" x 120.0	8 x 3/8" x 197.7
				8 x 1/4" x 77.6	
RF2-8	W1410084				
RF2-9	16.0/28.5	0.188	180.0	8 x 1/4" x 302.1	8 x 1/2" x 260.1
	28.5/34.0	0.250	123.4	8 x 1/4" x 40.4	
RF2-10	36.1/43.4	0.219	120.0	8 x 3/4" x 120.0	8 x 5/8" x 120.2
	43.4/54.9	0.250	189.9	8 x 1/2" x 189.9	8 x 3/4" x 188.0



RIGID FRAME ELEVATION: FRAME LINE 2

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

DRAWING IS NOT TO SCALE

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C
200'-0" x 80'-0" x 26'-0 1/2"
DATE: 2/16/22 | REVISION: 01
ENG: MOZ | DWN: BJC | APPD: MCK

F.O. 25543

GLACIER PARK INT HANGAR C

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01	SEE CO-01	2-16-22

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MONTANA
MINGQIAO ZHU
No. 15476PE
LICENSED PROFESSIONAL ENGINEER
03/02/2022

MEMBER TABLE

Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF3-1	16.0/28.5	0.188	180.0	8 x 1/4" x 302.1	8 x 1/2" x 260.1
	28.5/34.0	0.250	123.4	8 x 1/4" x 40.4	
RF3-2	40.0/48.1	0.219	255.6	8 x 1/4" x 75.6	8 x 3/8" x 195.7
	48.1/50.0	0.219	60.0	8 x 1/2" x 120.0	8 x 1/2" x 120.1
				8 x 3/4" x 120.0	
RF3-3	50.0/43.0	0.219	240.0	10 x 3/4" x 120.0	10 x 5/8" x 120.1
	43.0/36.0	0.188	240.0	10 x 1" x 360.0	10 x 3/4" x 360.1
RF3-4	36.1/43.4	0.219	120.0	8 x 3/4" x 120.0	8 x 5/8" x 120.2
	43.4/54.9	0.250	189.9	8 x 1/2" x 189.9	8 x 3/4" x 188.0
RF3-5	55.0/57.0	0.313	94.1	10 x 1/2" x 47.1	10 x 3/4" x 94.1
				10 x 1/2" x 47.1	
RF3-6	36.0/43.0	0.188	238.0	10 x 1" x 358.0	10 x 3/4" x 358.1
	43.0/50.0	0.219	240.0	10 x 3/4" x 120.0	10 x 5/8" x 120.1
RF3-7	50.0/48.1	0.219	60.0	8 x 3/4" x 120.0	8 x 1/2" x 120.1
	48.1/40.0	0.219	257.6	8 x 1/2" x 120.0	8 x 3/8" x 197.7
				8 x 1/4" x 77.6	
RF3-8	W1410084				
RF3-9	16.0/28.5	0.188	180.0	8 x 1/4" x 302.1	8 x 1/2" x 260.1
	28.5/34.0	0.250	123.4	8 x 1/4" x 40.4	

MEMBER TABLE

Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF3-10	16.0/28.5	0.188	180.0	8 x 1/4" x 302.1	8 x 1/2" x 260.1
	28.5/34.0	0.250	123.4	8 x 1/4" x 40.4	
RF3-11	36.1/43.4	0.219	120.0	8 x 3/4" x 120.0	8 x 5/8" x 120.2
	43.4/54.9	0.250	189.9	8 x 1/2" x 189.9	8 x 3/4" x 188.0
RF3-12	40.0/48.1	0.219	255.6	8 x 1/4" x 75.6	8 x 3/8" x 195.7
	48.1/50.0	0.219	60.0	8 x 1/2" x 120.0	8 x 1/2" x 120.1
				8 x 3/4" x 120.0	
RF3-13	50.0/43.0	0.219	240.0	10 x 3/4" x 120.0	10 x 5/8" x 120.1
	43.0/36.0	0.188	240.0	10 x 1" x 360.0	10 x 3/4" x 360.1
RF3-14	36.1/43.4	0.219	120.0	8 x 3/4" x 120.0	8 x 5/8" x 120.2
	43.4/54.9	0.250	189.9	8 x 1/2" x 189.9	8 x 3/4" x 188.0
RF3-15	55.0/57.0	0.313	94.1	10 x 1/2" x 47.1	10 x 3/4" x 94.1
				10 x 1/2" x 47.1	
RF3-16	36.0/43.0	0.188	238.0	10 x 1" x 358.0	10 x 3/4" x 358.1
	43.0/50.0	0.219	240.0	10 x 3/4" x 120.0	10 x 5/8" x 120.1
RF3-17	50.0/48.1	0.219	60.0	8 x 3/4" x 120.0	8 x 1/2" x 120.1
	48.1/40.0	0.219	257.6	8 x 1/2" x 120.0	8 x 3/8" x 197.7
				8 x 1/4" x 77.6	

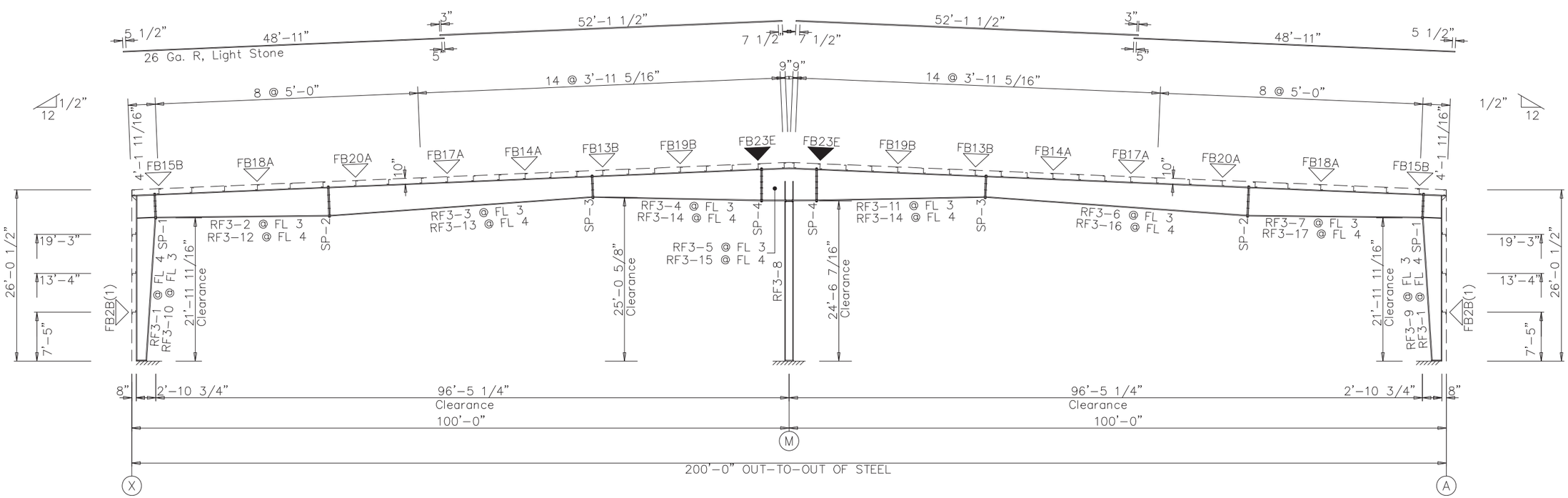
SPLICE BOLT TABLE

Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	6	A325	1.000	3.25
SP-2	4	4	6	A325	1.250	3.50
SP-3	4	4	4	A325	1.250	3.50
SP-4	4	4	8	A325	1.250	3.50

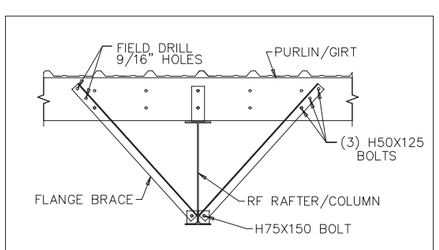
CAP PLATE BOLTS

Mark	Qty	Type	Dia	Length
RF3-8	4	A325	0.750	2.25

▽FLANGE BRACES: Both Sides(U.N.)
FBxxB(1)
B – L20X3/16
A – L15X1/8
E – L30X1/4



RIGID FRAME ELEVATION: FRAME LINE 3 4



▼ FLANGE BRACE DETAIL

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

DRAWING IS NOT TO SCALE

METAL BUILDING OUTLET CORP.

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F.O. 25543

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LICENSED PROFESSIONAL ENGINEER

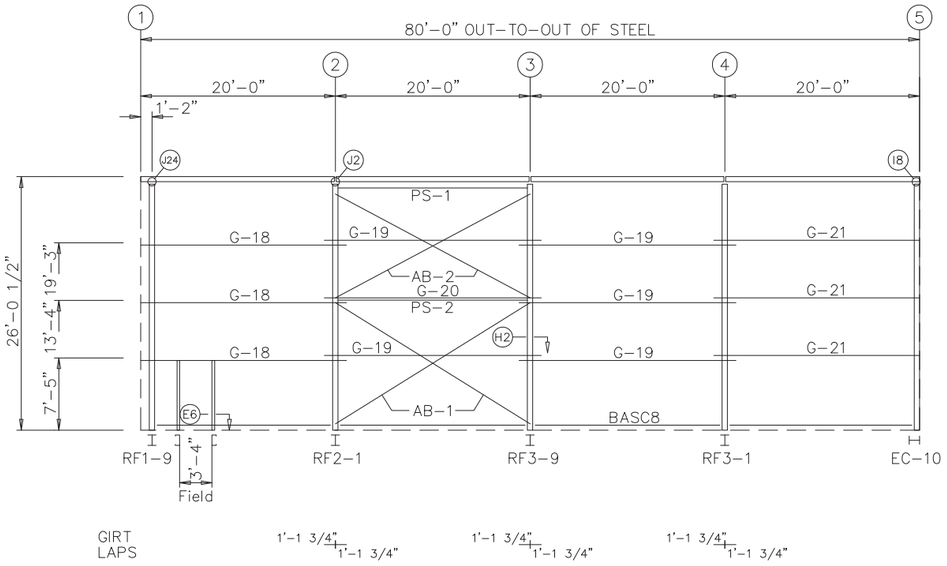
03/02/2022

BOLT TABLE
FRAME LINE A

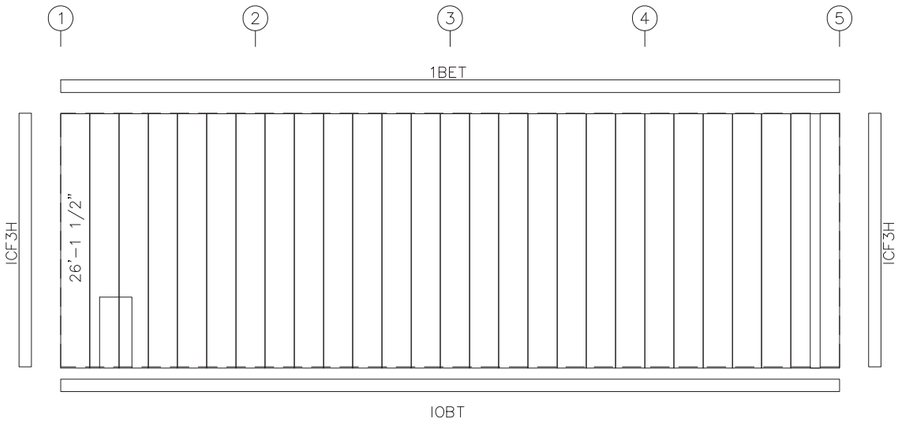
LOCATION	QUAN	TYPE	DIA	LENGTH
PS/RF	2	A325	1/2"	1 1/4"

MEMBER TABLE
FRAME LINE A

QUAN	MARK	PART	LENGTH
2	DJ-1	08X35C16	7'-4 3/4"
3	G-18	08X25Z16	21'-1 1/2"
5	G-19	08X25Z16	22'-3 1/2"
1	G-20	08X25Z10	22'-3 1/2"
3	G-21	08X25Z16	21'-1 1/2"
2	AB-1	L6X35X1/2	22'-11 3/16"
2	AB-2	L6X35X1/2	21'-10 1/2"
1	PS-1	P6X19	19'-11 3/4"
1	PS-2	P6X19	19'-11 13/16"



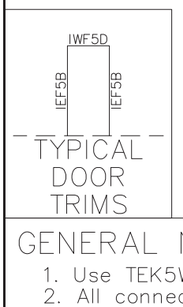
SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. R – Light Stone

ANGLE BRACE DETAIL



TYPICAL DOOR TRIMS

GENERAL NOTES:

1. Use TEK5WW screws in place of SD150 panel screws at all 10 gage members.
2. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (#= Girt Depth).

DRAWING IS NOT TO SCALE

TRIM COLORS

EAVE TRIM	= Burnished Slate	CORNER TRIM	= Burnished Slate
BASE TRIM	= Light Stone	GUTTER	=
DOOR TRIM	= Burnished Slate	DOWNSPOUTS	=
RAKE TRIM	= Burnished Slate		
* LINER TRIM	= Liner panel color		
* SOFFIT TRIM	= Soffit panel color		

* ONLY APPLICABLE IF LINER TRIM OR SOFFIT PANEL IS INDICATED ON BUILDING ORDER.

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C

200'-0" x 80'-0" x 26'-0 1/2"

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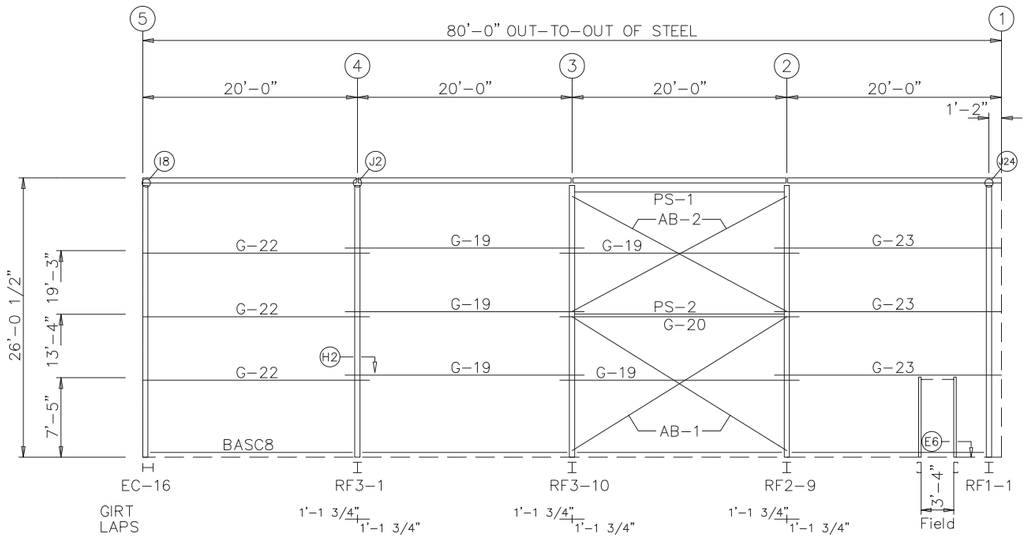
BOLT TABLE
FRAME LINE X

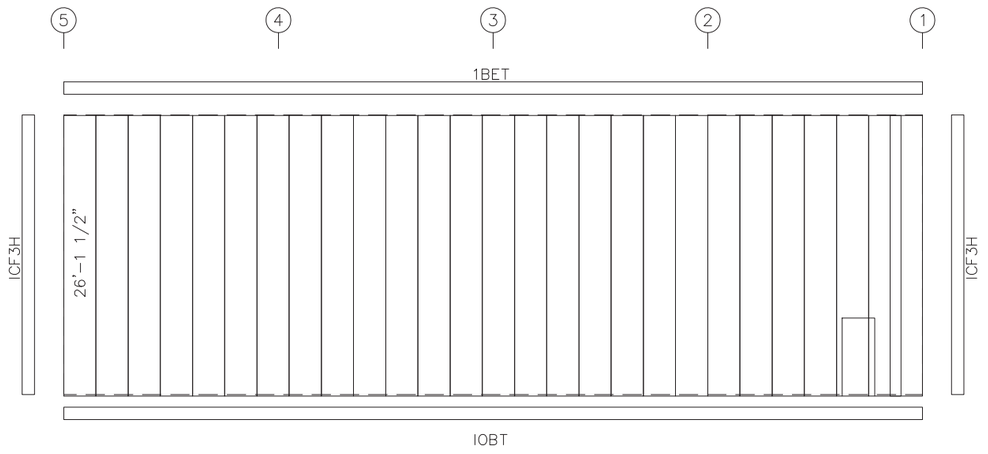
LOCATION	QUAN	TYPE	DIA	LENGTH
PS/RF	2	A325	1/2"	1 1/4"

MEMBER TABLE
FRAME LINE X

QUAN	MARK	PART	LENGTH
2	DJ-1	08X35C16	7'-4 3/4"
5	G-19	08X25Z16	22'-3 1/2"
1	G-20	08X25Z10	22'-3 1/2"
3	G-22	08X25Z16	21'-1 1/2"
3	G-23	08X25Z16	21'-1 1/2"
2	AB-1	L6X35X1/2	22'-11 3/16"
2	AB-2	L6X35X1/2	21'-10 1/2"
1	PS-1	P6X19	19'-11 3/4"
1	PS-2	P6X19	19'-11 13/16"

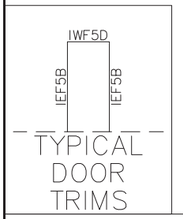


SIDEWALL FRAMING: FRAME LINE X



SIDEWALL SHEETING & TRIM: FRAME LINE X

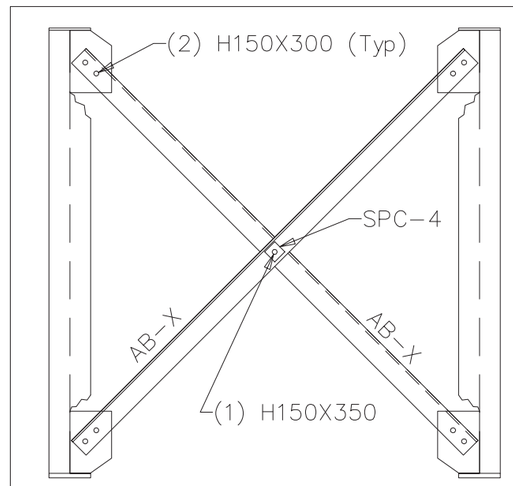
PANELS: 26 Ga. R – Light Stone



TYPICAL DOOR TRIMS

GENERAL NOTES:

1. Use TEK5WW screws in place of SD150 panel screws at all 10 gage members.
2. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (#= Girt Depth).



ANGLE BRACE DETAIL

DRAWING IS NOT TO SCALE

TRIM COLORS

EAVE TRIM	= Burnished Slate	CORNER TRIM	= Burnished Slate
BASE TRIM	= Light Stone	GUTTER	=
DOOR TRIM	= Burnished Slate	DOWNSPOUTS	=
RAKE TRIM	= Burnished Slate		
* LINER TRIM	= Liner panel color		
* SOFFIT TRIM	= Soffit panel color		

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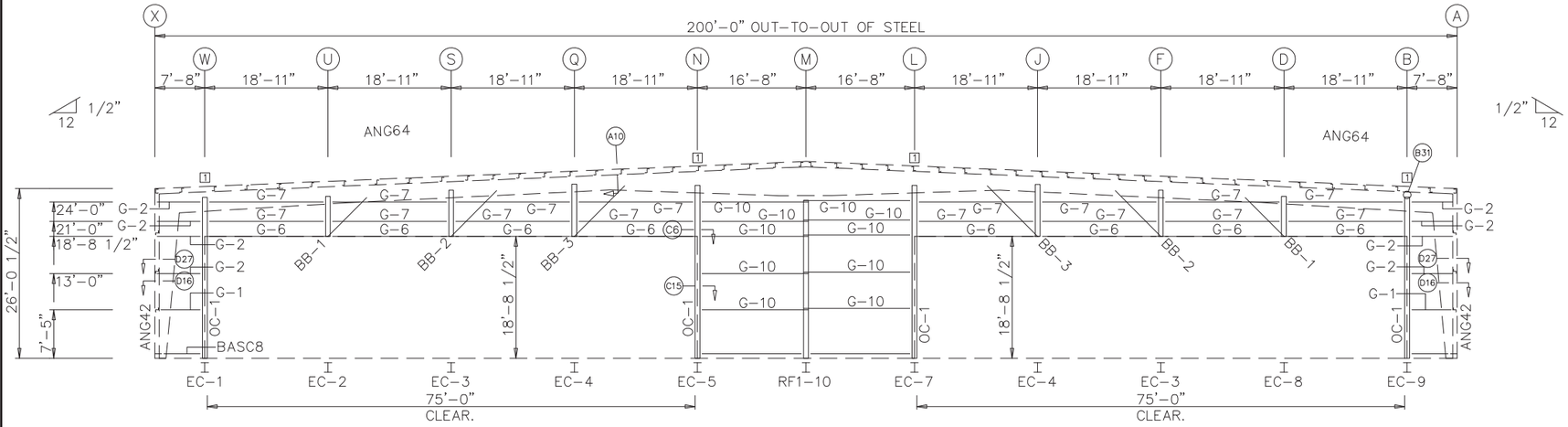
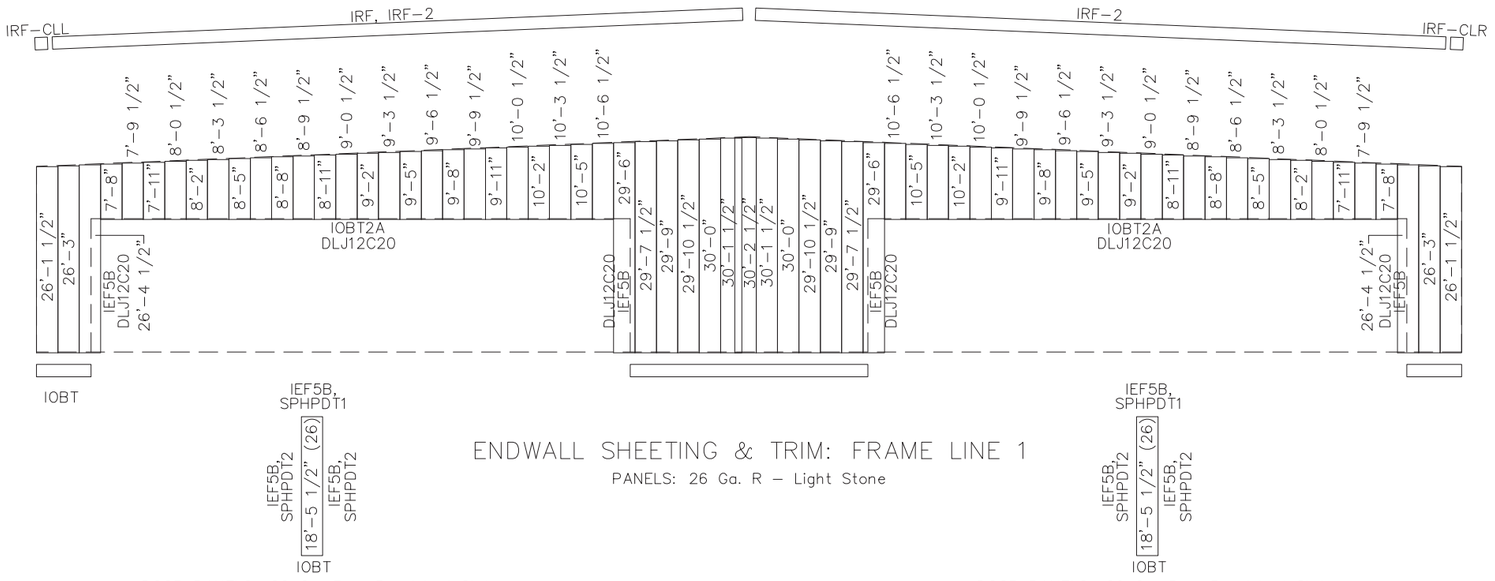


ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. R – Light Stone

DOOR PANELS: 26 Ga. R – Burnished Slate

DOOR PANELS: 26 Ga. R – Burnished Slate

GENERAL NOTES:

1. Use TEK5WW screws in place of SD150 panel screws at all 10 gage members.
2. See detail C7A for field coping of coldform endwall column flange braces.
3. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (#= Girt Depth).

BOLT TABLE
FRAME LINE 1

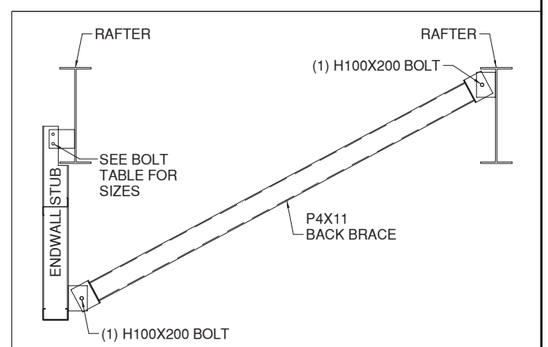
LOCATION	QUAN	TYPE	DIA	LENGTH
W12X45/Raf	4	A325	3/4"	2 1/4"
W12X40/Raf	2	A325	3/4"	1 3/4"
C12/EC	2	A325	1/2"	1 1/4"

MEMBER TABLE
FRAME LINE 1

QUAN	MARK	PART	LENGTH
1	EC-1	W12X45	24'-3 1/4"
1	EC-2	W12X40	6'-2 1/8"
2	EC-3	W12X40	7'-1 1/2"
2	EC-4	W12X40	8'-0 3/8"
1	EC-5	W12X45	26'-1 7/16"
1	EC-7	W12X45	26'-1 7/16"
1	EC-8	W12X40	6'-2 1/8"
1	EC-9	W12X45	24'-3 1/4"
2	G-1	08X25Z16	6'-7 1/2"
8	G-2	08X25Z16	7'-3 1/2"
8	G-6	C12X20.7	18'-2 1/4"
16	G-7	08X25Z16	18'-2 1/4"
10	G-10	08X25Z16	16'-5 1/2"
2	BB-1	P4X11	19'-5 1/2"
2	BB-2	P4X11	19'-8 1/8"
2	BB-3	P4X11	19'-11 1/16"
4	OC-1	12X30C16	18'-8 1/2"

CONNECTION PLATES
FRAME LINE 1

☐ID	QUAN	MARK/PART
1	4	ECXF-ALT



P4X11 BACK BRACE DETAIL
@ ENDWALL STUB WITH FLUSH GIRTS

DRAWING IS NOT TO SCALE

TRIM COLORS

EAVE TRIM	= Burnished Slate	CORNER TRIM	= Burnished Slate
BASE TRIM	= Light Stone	GUTTER	=
DOOR TRIM	= Burnished Slate	DOWNSPOUTS	=
RAKE TRIM	= Burnished Slate		
* LINER TRIM	= Liner panel color		
* SOFFIT TRIM	= Soffit panel color		

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DRAWING STATUS

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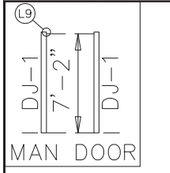
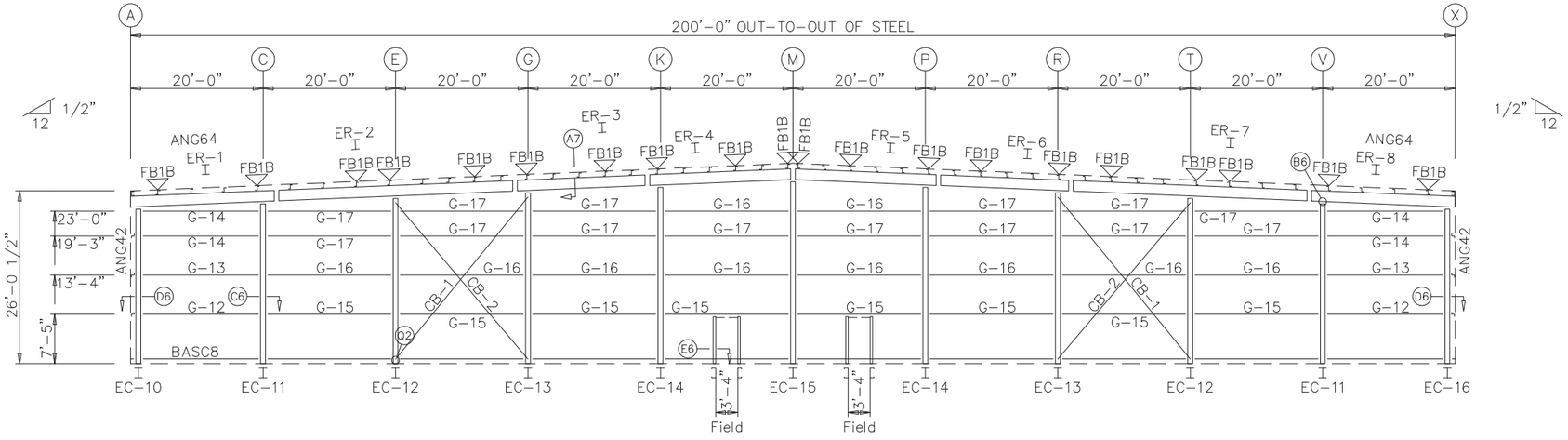
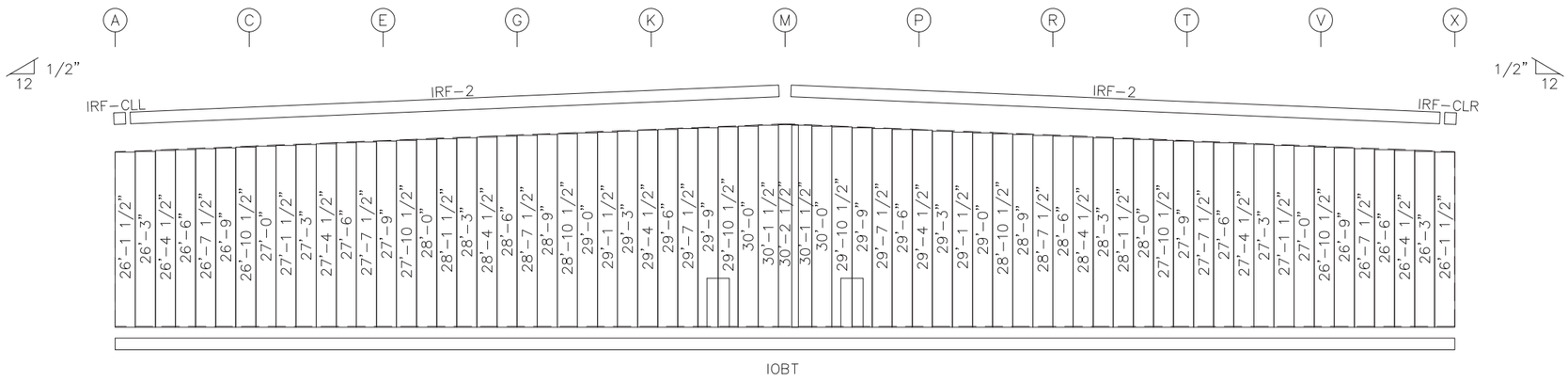
MONTANA
MINGQIAO ZHU
No. 15476PE
LICENSED
PROFESSIONAL ENGINEER

03/02/2022



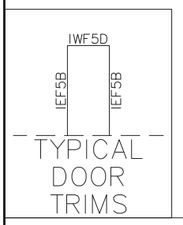


ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Ga. R – Light Stone



GENERAL NOTES:

1. Use TEK5WW screws in place of SD150 panel screws at all 10 gage members.
2. See detail C7A for field coping of coldform endwall column flange braces.
3. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (#= Girt Depth).

BOLT TABLE
FRAME LINE 5

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	1/2"	1 1/2"
ER-2/ER-3	8	A325	1/2"	1 1/2"
ER-3/ER-4	8	A325	1/2"	1 1/2"
ER-4/ER-5	8	A325	1/2"	1 3/4"
ER-5/ER-6	8	A325	1/2"	1 1/2"
ER-6/ER-7	8	A325	1/2"	1 1/2"
ER-7/ER-8	8	A325	1/2"	1 1/2"
Cor_Column/Raf	2	A325	1"	2"
EC-11/ER-1	2	A325	1"	2"
EC-12/ER-2	2	A325	1"	2"
EC-13/ER-3	2	A325	1"	2"
EC-14/ER-4	2	A325	1"	2"
EC-15/ER-4	2	A325	1"	2"
EC-14/ER-5	2	A325	1"	2"
EC-13/ER-6	2	A325	1"	2"
EC-12/ER-7	2	A325	1"	2"
EC-11/ER-8	2	A325	1"	2"

MEMBER TABLE
FRAME LINE 5

QUAN	MARK	PART	LENGTH
1	EC-10	W8X18	24'-6 3/16"
2	EC-11	W8X18	25'-3 5/8"
2	EC-12	W8X18	26'-1 5/8"
2	EC-13	W8X18	26'-11 5/8"
2	EC-14	W8X18	27'-9 5/8"
1	EC-15	W8X18	28'-5 1/4"
1	EC-16	W8X18	24'-6 3/16"
1	ER-1	W8X18	22'-0 5/8"
1	ER-2	W8X18	36'-0 7/16"
1	ER-3	W8X18	20'-0 3/16"
1	ER-4	W8X18	21'-11 13/16"
1	ER-5	W8X18	21'-11 13/16"
1	ER-6	W8X18	20'-0 3/16"
1	ER-7	W8X18	36'-0 7/16"
1	ER-8	W8X18	22'-0 5/8"
4	DJ-1	08X35C16	7'-4 3/4"
2	G-12	08X25Z13	18'-4 1/4"
2	G-13	08X25Z14	18'-4 1/4"
4	G-14	08X25Z16	18'-4 1/4"
8	G-15	08X25Z13	19'-6 1/4"
10	G-16	08X25Z14	19'-6 1/4"
14	G-17	08X25Z16	19'-6 1/4"
2	CB-1	CABLE500	30'-0 1/16"
2	CB-2	CABLE500	29'-4 1/4"

FLANGE BRACE TABLE
FRAME LINE 5

▽ID	MARK	LENGTH
1	FB1B	1'-3 1/8"

NOTE(S):
1.) FIELD DRILL GIRTS TO ALLOW CABLES TO PASS.

DRAWING IS NOT TO SCALE

TRIM COLORS

EAVE TRIM	= Burnished Slate	CORNER TRIM	= Burnished Slate
BASE TRIM	= Light Stone	GUTTER	=
DOOR TRIM	= Burnished Slate	DOWNSPOUTS	=
RAKE TRIM	= Burnished Slate		
* LINER TRIM	= Liner panel color		
* SOFFIT TRIM	= Soffit panel color		

* ONLY APPLICABLE IF LINER TRIM OR SOFFIT PANEL IS INDICATED ON BUILDING ORDER.

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C
200'-0" x 80'-0" x 26'-0 1/2"
DATE: 2/16/22 | REVISION: 01
ENG: MOZ | DWN: BJC | APPD: MCK

F.O. 25543

GLACIER PARK INT HANGAR C

REVISION HISTORY

REV.	DESCRIPTION	DATE
01	SEE CO-01	2-16-22

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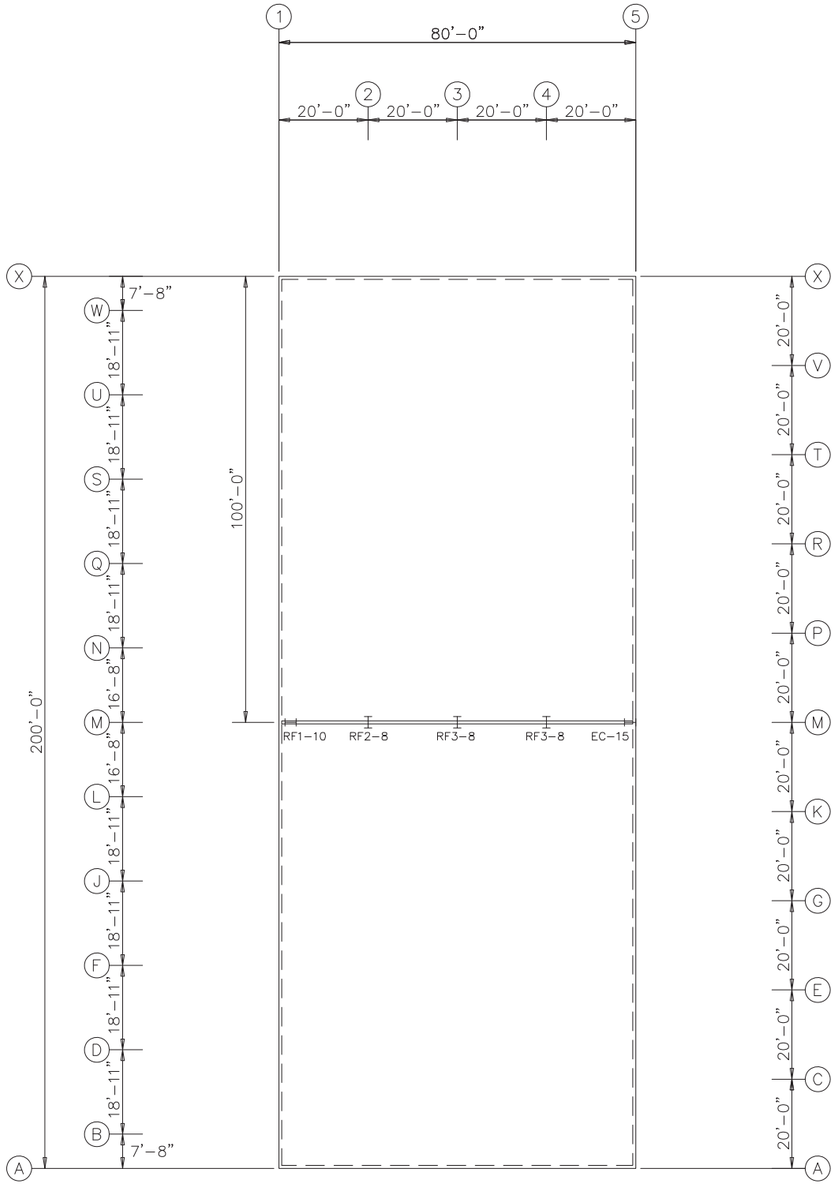

PARTITION WALL PLAN

NOTES:

1) $\frac{3}{4}$"Ø QUICK BOLTS NOT BY CORLE BUILDING SYSTEMS.

DRAWING IS NOT TO SCALE

METAL BUILDING OUTLET CORP.

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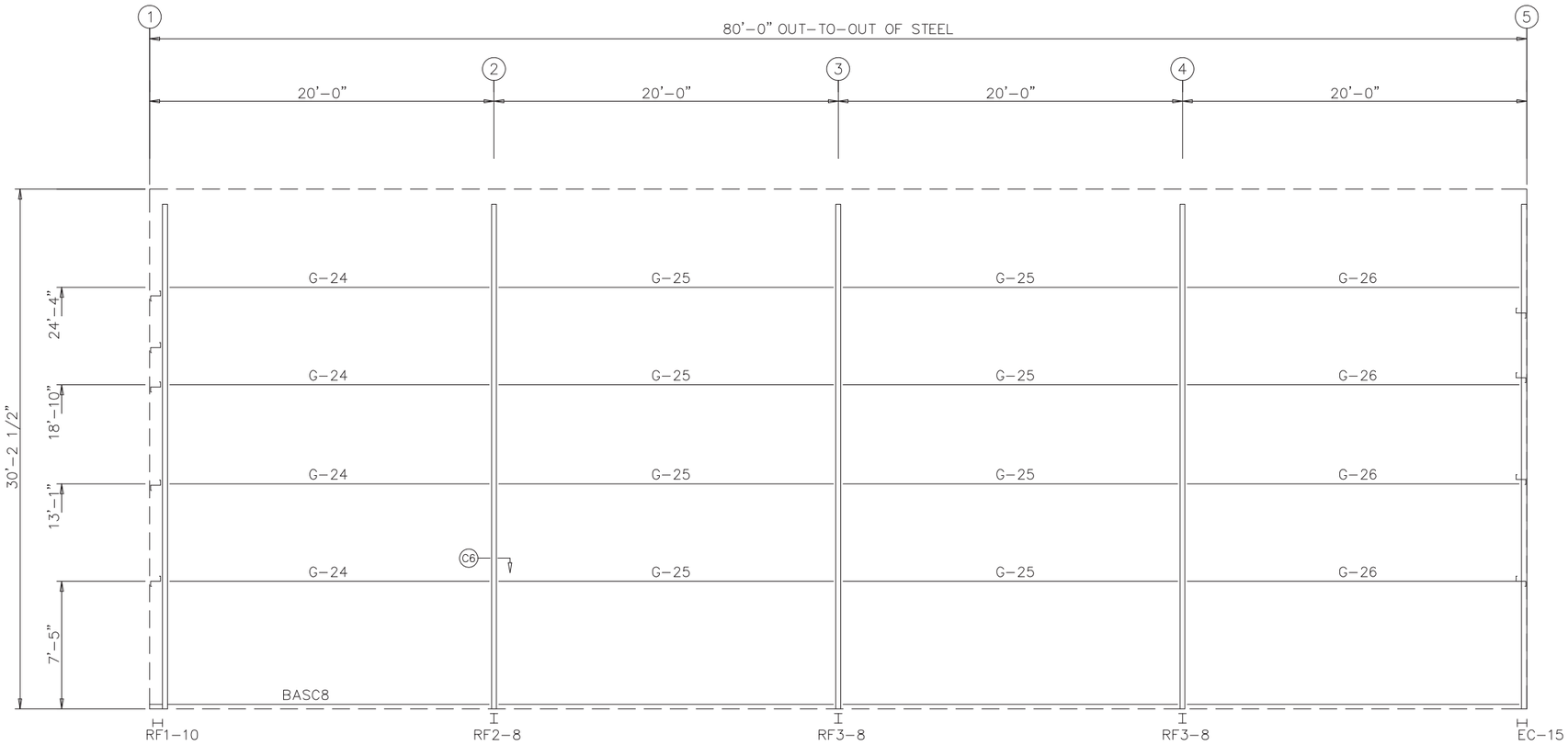
NOTE(S):
1.) PARTITION WALL GIRTS ARE LOCATED TOWARD THE FSW.

MEMBER TABLE
PARTITION 1

QUAN	MARK	PART	LENGTH
4	G-24	08X25Z16	17'-8 3/8"
8	G-25	08X25Z16	19'-1 1/4"
4	G-26	08X25Z16	18'-10 1/4"



PARTITION 1 FRAMING

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METAL BUILDING OUTLET CORP.

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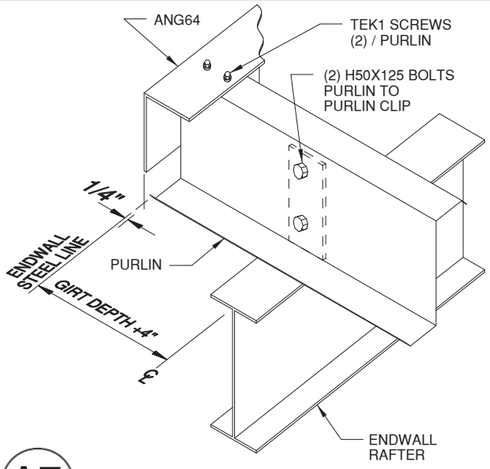
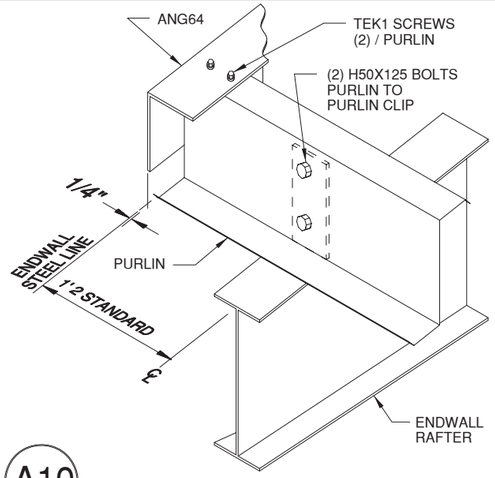
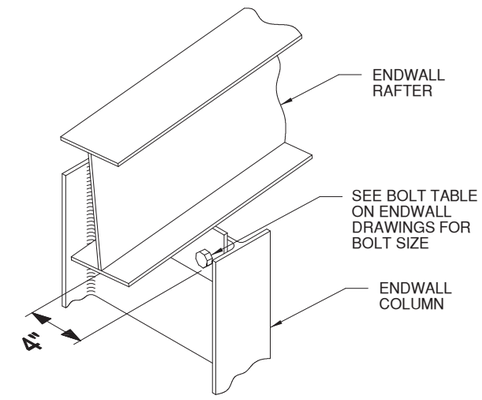


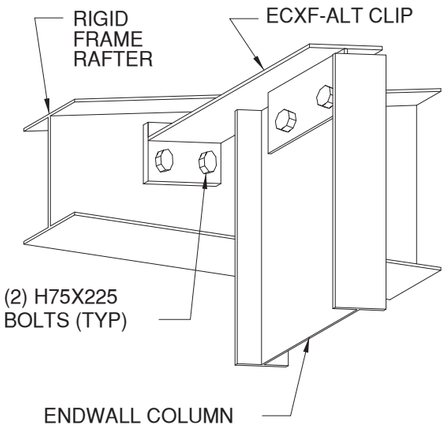
A7 PURLIN TO ENDWALL RAFTER CONNECTION



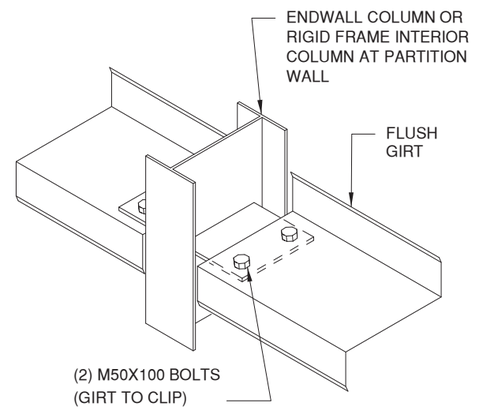
A10 PURLIN TO RIGID FRAME ENDWALL RAFTER CONNECTION



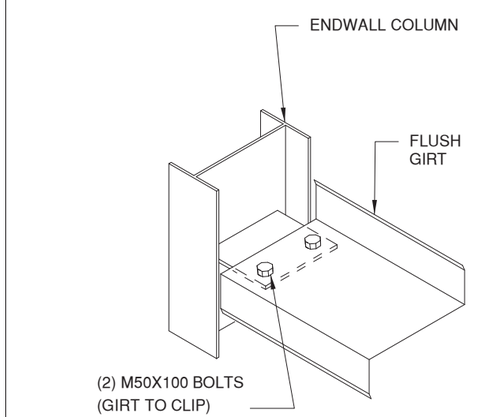
B6 ENDWALL COLUMN TO RAFTER CONNECTION



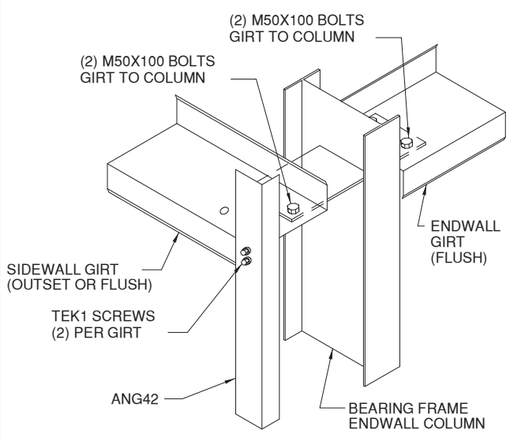
B31 EXPANDABLE ENDWALL RAFTER TO COLUMN CONNECTION FLUSH GIRT CONDITION



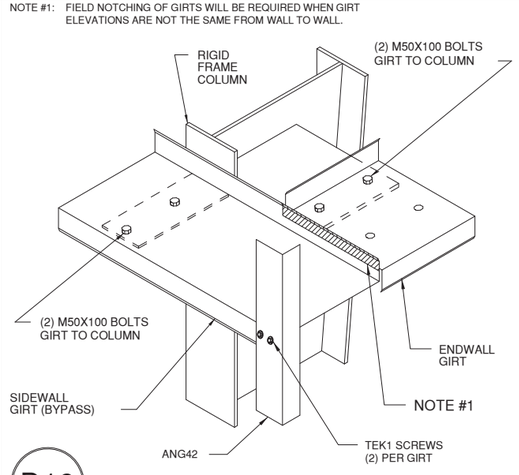
C6 FLUSH GIRT TO COLUMN



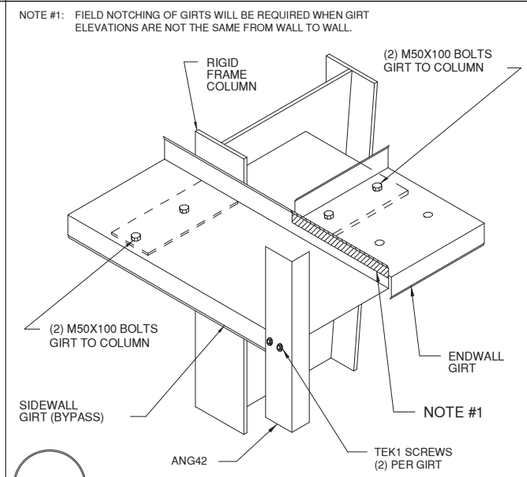
C15 FLUSH GIRT ENDING AT COLUMN



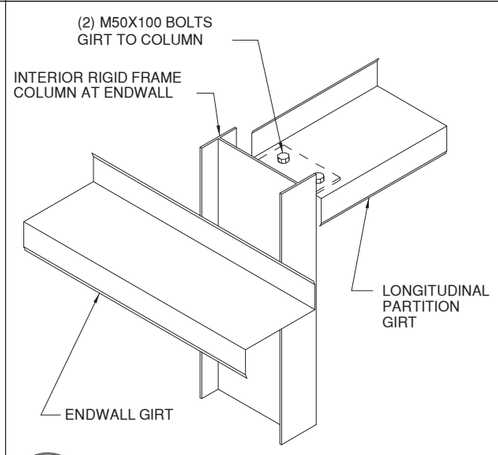
D6 WALL GIRTS TO FLUSH CORNER COLUMN



D16 RIGID FRAME IN ENDWALL TO BYPASS SIDEWALL GIRT



D27 RIGID FRAME IN ENDWALL TO FLUSH OR BYPASS ENDWALL GIRT



D38 LONGITUDINAL PARTITION GIRT TO RIGID FRAME COLUMN AT ENDWALL

METAL BUILDING OUTLET CORP.

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GLACIER PARK INT HANGAR C

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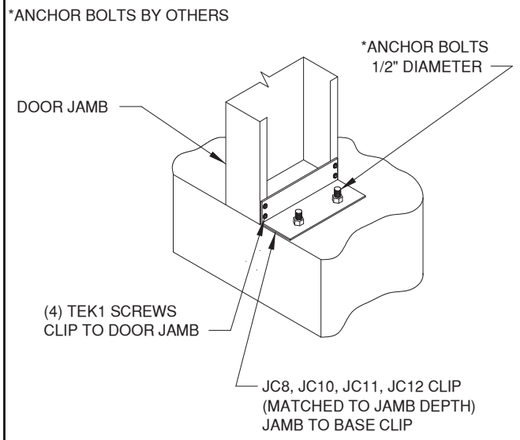
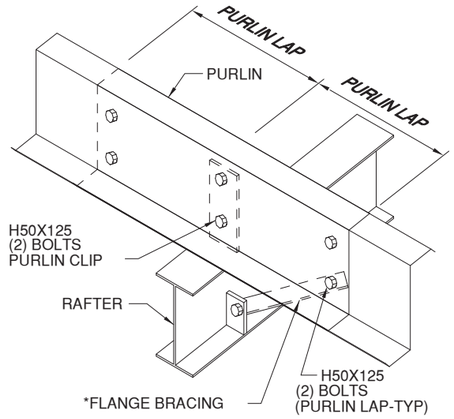
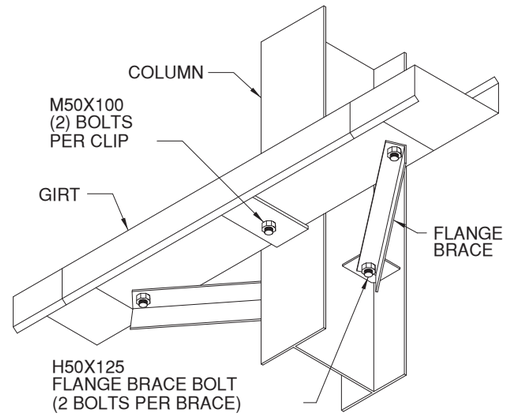


E6 DOOR JAMB TO FOUNDATION

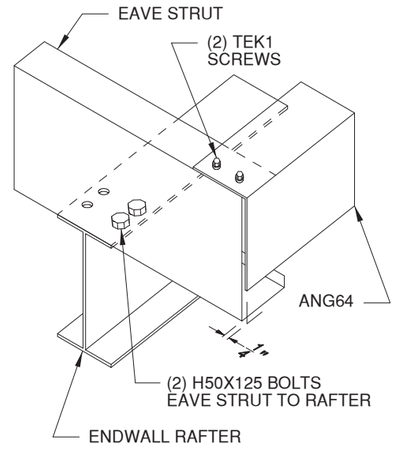


*MAY BE NEAR SIDE, FAR SIDE, OR BOTH

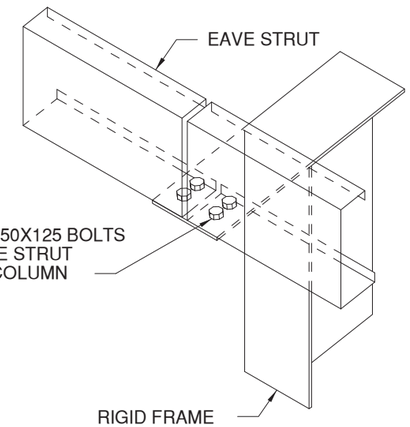
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



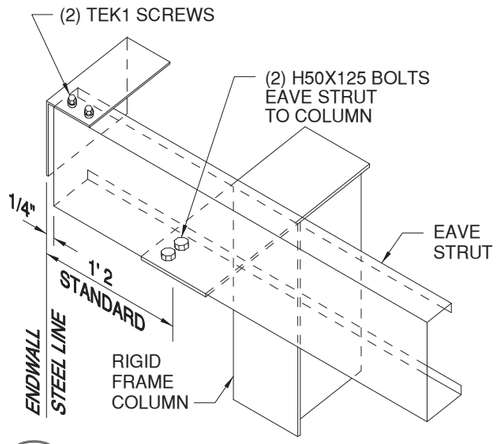
H2 GIRT TO COLUMN - BYPASS GIRTS



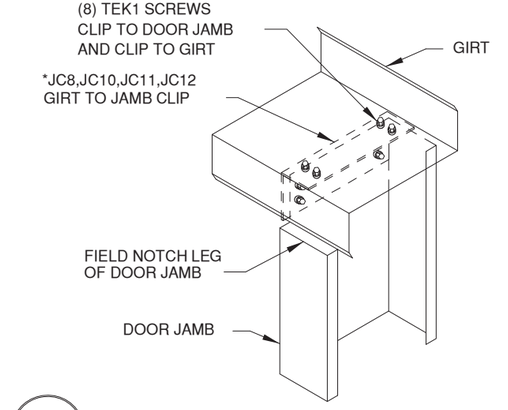
I8 EAVE STRUT TO ENDWALL RAFTER LOW EAVE



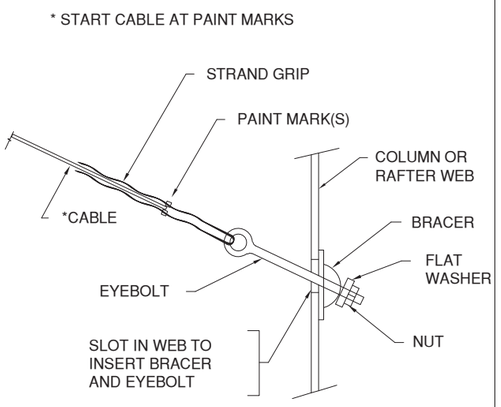
J2 EAVE STRUT TO RIGID FRAME BYPASS GIRT CONDITION



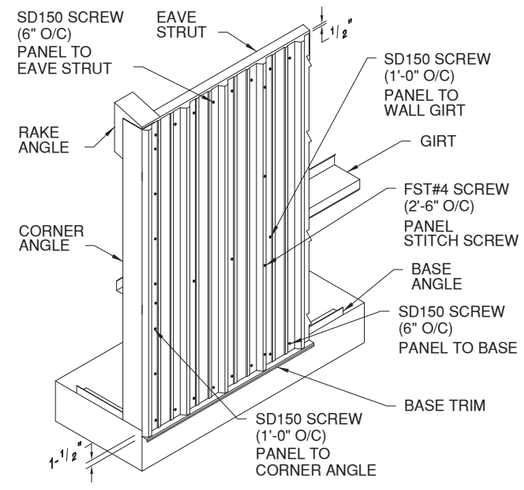
J24 EAVE STRUT TO RIGID FRAME IN ENDWALL - BYPASS GIRTS LOW EAVE



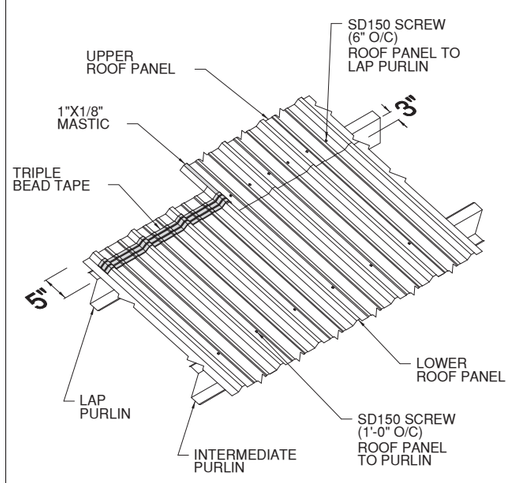
L9 DOOR JAMB TO WALL GIRT



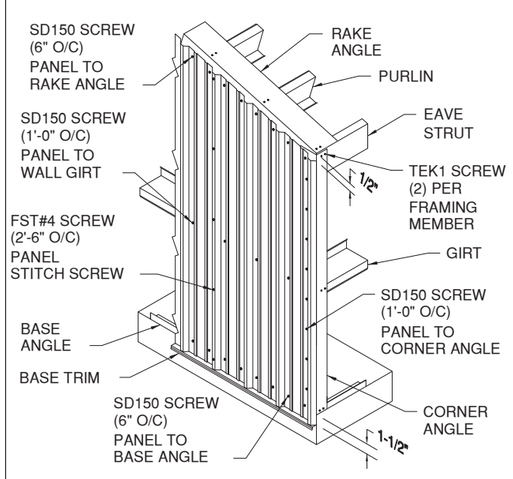
Q2 CABLE BRACE / EYEBOLT



"R" PANEL SIDEWALL



STANDARD ENDLAP



"R" PANEL ENDWALL

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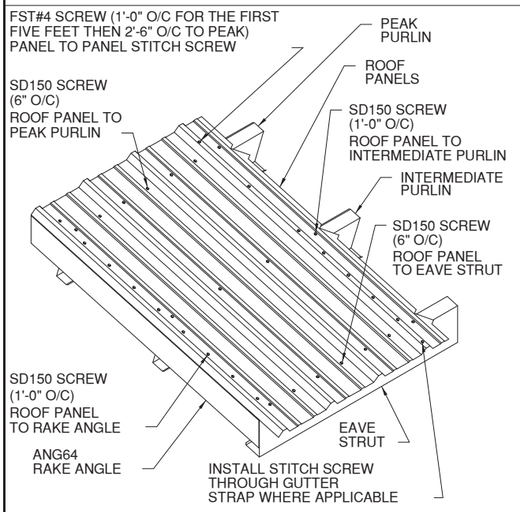
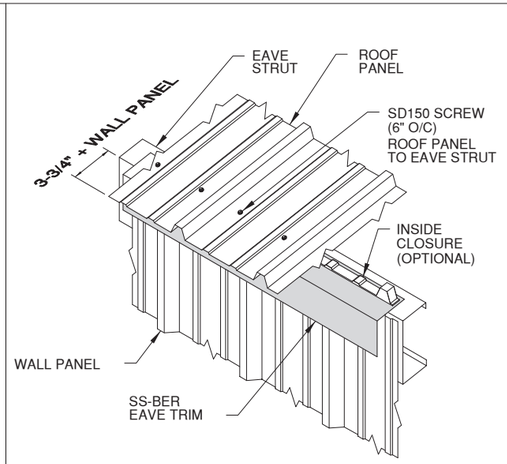
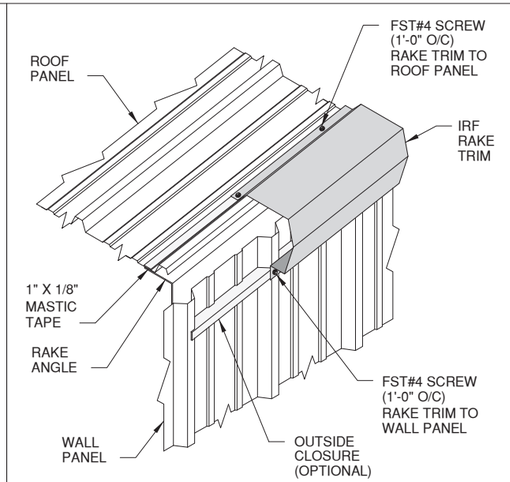


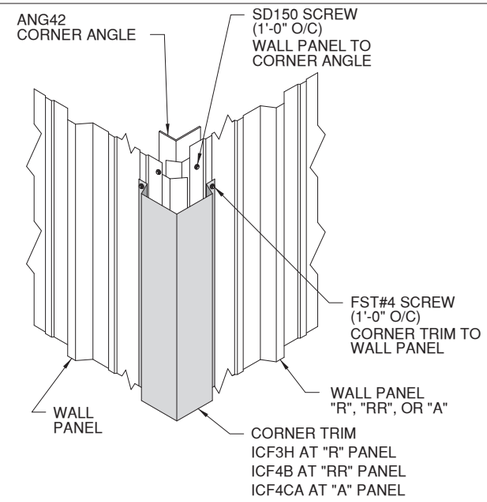
ROOF FASTENER APPLICATION



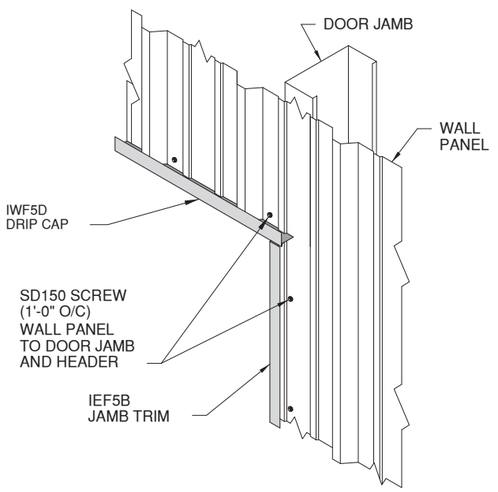
STANDARD EAVE CONDITION



STANDARD RAKE CONDITION

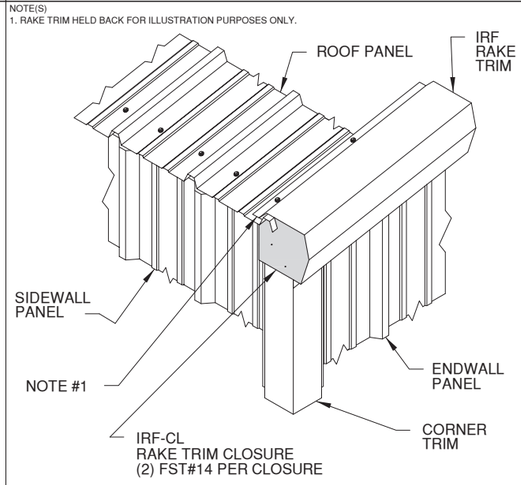


CORNER TRIM

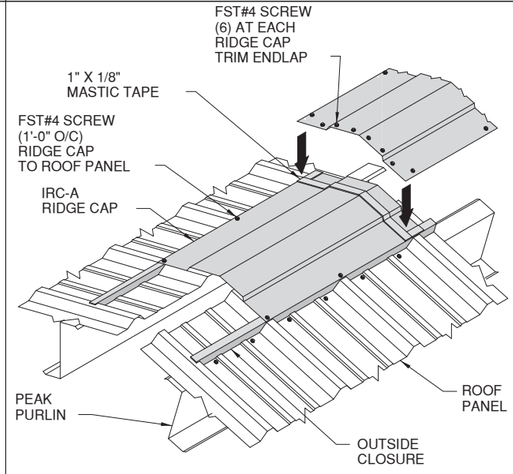


DOOR & WINDOW JAMB / HEADER TRIM

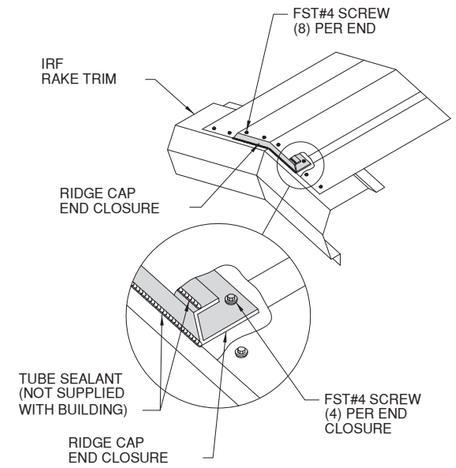
NOTE(S)
1. RAKE TRIM HELD BACK FOR ILLUSTRATION PURPOSES ONLY.



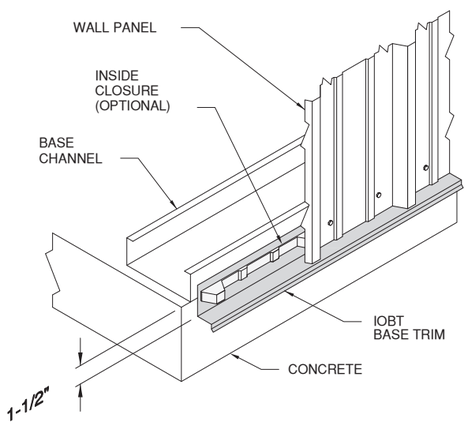
RAKE TRIM CLOSURE



RIDGE CAP INSTALLATION



RIDGE END CAP



BASE TRIM AT BASE CHANNEL

METAL BUILDING OUTLET CORP.

GLACIER PARK INT HANGAR C

200'-0" x 80'-0" x 26'-0 1/2"

DATE: 2/16/22 | REVISION: 01

ENG: MOZ | DWN: BJC | APPD: MCK

F.O. 25543

GLACIER PARK INT HANGAR C

REVISION HISTORY

REV.	DESCRIPTION	DATE
01	SEE CO-01	2-16-22

DRAWING STATUS

FOR 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 "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR PERMIT:
THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR CONSTRUCTION:
FINAL DRAWINGS.

MONTANA
MINGQIAO ZHU
No. 15476PE
LICENSED PROFESSIONAL ENGINEER

03/02/2022