6800 E. Hampden Ave · Denver, CO 80224 · 800-964-8335 · Fax 701-252-1988

PERMIT DRAWINGS

NOTE: THESE PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THIS BUILDING ARE NOT TO BE USED FOR ERECTION PURPOSES. THESE PLANS ARE FOR BUILDING DEPARTMENT PERMIT PURPOSES ONLY. THE ANCHOR BOLT PLAN PORTION IS FOR CONSTRUCTION.

1) Manufacturer's standard specifications apply unless stipulated in the contract documents, verification of your purchase order and shown within the approval drawings submitted to you from the manufacturer.

2) Manufacturer's design, fabrication quality criteria, standard practices, standard materials including primer coatings, and panel finish shall govern the specifications with any other interpretations to the contrary not withstanding. It is understood by all parties that the Project Consultant/End Use Final Owner is responsible for clarification of inclusions or exclusions from specifications and/or architectural plans.

3) In case of discrepancies between manufacturer's plans and other trades including but not limited to foundation and architechtural plans; manufacturers' plans will govern. (Section 3. AISC Codes of Standard Practices March 2000.)

4) Approval of manufacturers' drawings and calculations constitutes acceptance of manufacturer's interpretations, assumptions of design loads and contract documents. (Section 4. AISC Code of standard Practices March 2000.)

5) The Project Consultant/End Use Final Owner is responsible for overall project coordination. This includes all interface, compatibility and design considerations covering any materials not supplied or manufactured by Sunward Corporation. This is the ultimate responsibility of the Project Consultant / End Use Final Owner.

6) These drawings are subject to the terms of the manufacturer's Engineer's Letter of Certification. Adequacy of the design loads for the area is the responsibility of the Project Consultant/Final Owner. Drawings are sealed only to certify that the structural components to be furnished meet the design loads requested and listed in the Engineer Letter of Certification.

7) It is recommended that a qualified Registered Professional Engineer design the foundation. The manufacturer is not responsible for concrete design. See section A3 – Foundations, Metal Building Manufacturers Associations Metal Building Systems Manual.

8) Notice to the erectors: Normal erection procedures include corrections, which involve time to determine cause, downtime, use of rental or owned equipment, travel and communication with the manufacturer's service department. Normal erection procedures also include moderate amounts of reaming, field welding (if required by design), cutting, shimming, touch-up painting. These items are not subject to claim for back charges.

9) Any change or correction not reported prior to the work being performed will not be eligible for reimbursement. At no time shall an erector alter the structural design without prior approval from the manufacturer's design engineer and service department. Acceptance of correction procedures will not imply acceptance of a back charge unless such changes are accepted in writing; including pay rates, proposed man-hours. Downtime, equipment costs, supervision, overhead, profit, liquidated damages and consequential costs expense are not subject to claim.

10) The terms of the claim shall be in accordance with Section IV Common Industry Practices. Section 6. Erection and other fieldwork. Specifically, Section 6.10. "Correction of errors and repairs" of the Metal Building Manufactures Associations Metal Building Systems Manual. For a claim form contact the customer services department of the manufacturer @ (701) 252-7390.

11) Claims must include written documentation, photographic documentation that shows detail, (part numbers, work performed) and any other pertinent information of completed work.

12) **Warning:** In no case should galvalume zinc steel panels be used in conjunction with lead or copper. Both have harmful corrosive effects on the galvalume zinc panels. Even run off from copper should be avoided.

13) **Safety:** It is strongly recommended that a safe working job site is a priority to the workforce. **Warnings:** Heights can be dangerous and all safety equipment that is applicable should be used. The manufacturer is not responsible for the work site safety or erection and has not investigated or recommended the erectors for its products. As such, the manufacturer is held harmless for erection quality, accidents, safety and possible OSHA violations. Find out more about OSHA regulations by visiting www.osha.gov.

14) A325 Bolt tightening requirement. It is the responsibility of the erector to insure proper bolt tightness. See Bolt Tightening method in Erection Manual and general notes of the drawing.

15) Protection of primer. The manufacturer's standard primer applied to the structural components is not intended for exterior use or extended exposure to the elements. To protect the primer (structural components "Red Iron") should be covered so they are not exposed to water prior to erection. Water can cause the components to rust. It is recommended that the primed structural components be protected especially if they are not going to be erected immediately. There is no warranty on primer paint against flaking, peeling, fading or shipping abrasions. Touch-up paint will be provided for primer.

16) Insurance: It is recommended by the Manufacturer, and Project Consultant/ Final Owner agrees to maintain adequate coverage to insure against risk of loss from the time risk of loss passes, during unloading, delivery, and storage, through construction and after construction. Project Consultant/Final Owner understands that buildings are vulnerable to wind, water damage, and vandalism, before and during construction, and Project Consultant/Final Owner agrees to indemnify and hold Manufacturer harmless for any such damage or costs arising from same.

17) All claims for shortages or goods damaged during shipping must be noted on the Bill of Lading to qualify for repair, replacement or reimbursement.

18) Inventory must be performed at time of delivery. If inventory is refused then it shall waive project consultant's right for future claims.

19) Dunnage shall remain the property of the trucking company.

20) Storage of materials. All materials, especially non-painted galvalume or galvanized panels must be protected. If this material is allowed to get wet or moisture is permitted to form (condensation) between the materials serious deterioration of the finish will occur. For your protection, if these materials get wet, separate and dry all materials immediately. Metal shavings left on the panel finish will also cause panel finish deterioration.

21) The manufacturer's limited warranty does not provide for weather tightness. It is the ultimate responsibility of the erector to install the building materials in a manner that provides weather tightness. If the contractor / final owner / erector feels a condition exists that does not allow for weather tightness then additional materials or sealant can be requested. The proper amount of downspouts is the final owner's responsibility. All closures shall be installed. Especially at low pitch roof valleys, eave overhangs, valley gutters; sealant should be installed top and bottom of the closure. In some cases, metal closures should be considered at optional pricing. To help prevent water backup under the ends of roof panels, gutters, valleys and valley gutter should be kept clear of ice and snow, by installation of heated devices and/or snow jacks that prevent sliding snow, which are not included in the purchase to the manufacturer.

22) The project consultant/final owner is the entity, whether an individual or a company, which orders and purchases the appropriate building materials from the manufacturer for resale. The contractor or erector is the entity hired to construct or supervise construction of metal building materials, and any other construction facets of a building project as determined by the contract between the erector or contractor and the party retaining it. Neither the project consultant/final owner, erector, nor contractor are agents, representatives or employees of the manufacturer. The project consultant/final owner, erector or contractor maintain independent businesses over which the manufacturer has no control.

    This is the case even when a final owner has contacted the manufacturer or the service center directly and obtained the names of one or more erectors in an area from whom he may purchase the manufacturer's products. The provision of such names is not a recommendation or guarantee of the skill, ability or good business methods of any given erector.

Important notice to bidder for installation of building components

Please be advised when providing a quotation for erection of the material, all accessories to be supplied may not be shown on the permit, approval or erection drawings. Please contact the project consultant/final owner for a complete accessory/option list and/or obtain and compare the manufacturer's verification of the purchase order with the drawings. This includes framed openings and walk-in doors, which in many cases are field located by the erector.

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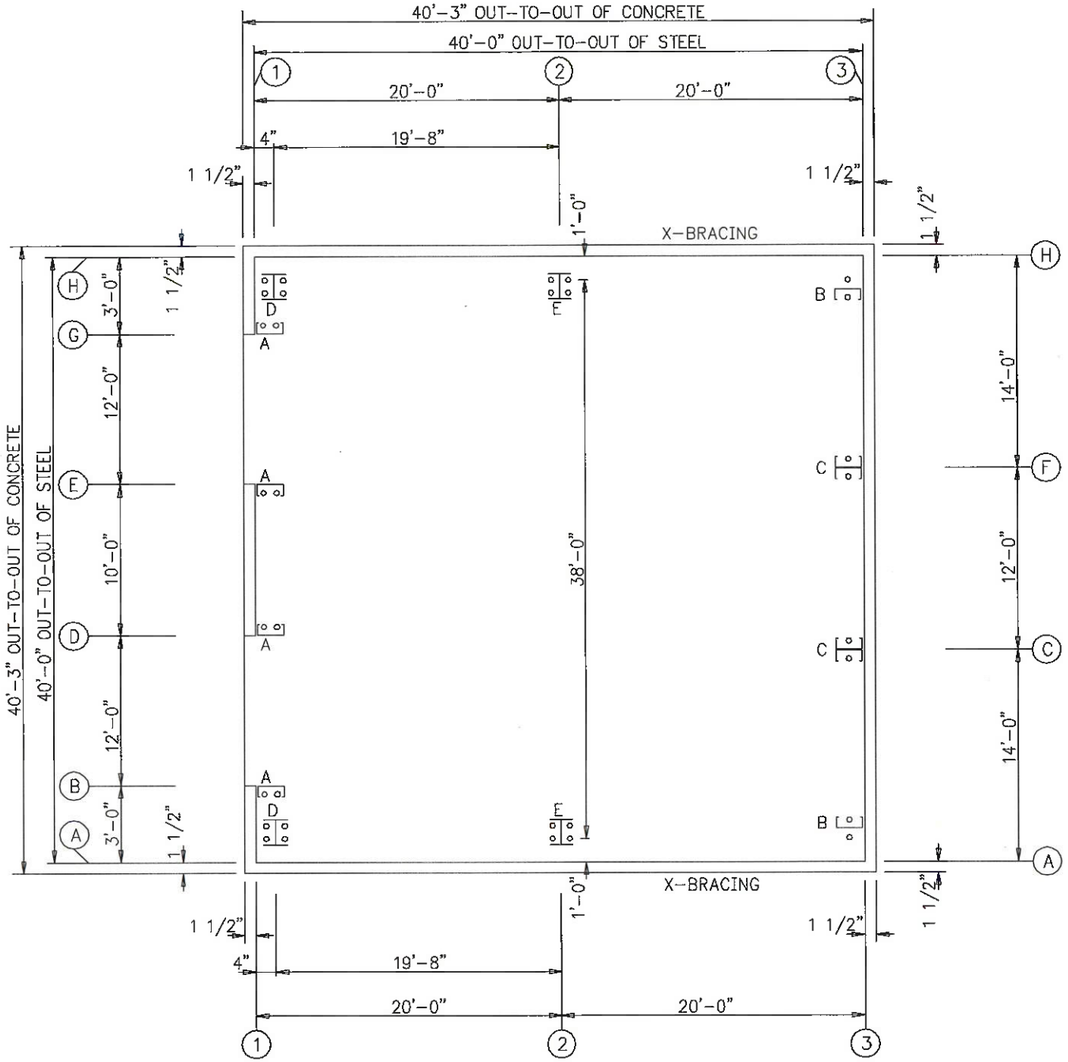
PROJECT CONSULTANT/FINAL OWNER RESPONSIBILITIES

05/09

SUNWARD CORPORATION
700 13th Ave. SE
P.O. Box 110
Jamestown, ND 58402
(701) 252-7390



ANCHOR BOLT SETTING PLAN

NOTE: ALL BASE PLATES AT ELEVATION 100'-0" (UNLESS NOTED)

○ Dia= 3/4"

VERIFY WIDTH AND LENGTH DIMENSIONS

CHECK YOUR ANCHOR BOLT SETTING PLAN TO MAKE CERTAIN THAT ALL THE DIMENSIONS SHOWN AGREE WITH THE DIMENSIONS ON YOUR VERIFICATION. DIMENSIONS SHOWN ON THE VERIFICATION REFER TO STEEL LINES (OUTSIDE FACE OF GIRTS/FRAMING) OF THE BUILDING.

SHEETING DESCRIPTION

ROOF SHEETING: 26 GA. HI-RIB COLOR: KB = Koko Brown

WALL SHEETING: 26 GA. HI-RIB COLOR: ST = Saddle Tan

GUTTER & DOWNSPOUT COLOR: KB = Koko Brown

TRIM COLOR: KB = Koko Brown

MANUFACTURER (ND FACILITY) IS AN APPROVED FABRICATOR WITH THE FOLLOWING CERTIFICATIONS.

IAS AC472 # MB-216 & MB-104
CSA A660 / CSA W47.1 DIVISION 2
CLARK COUNTY, NV/ # 248, SAN BERNARDINO COUNTY, CA/ # 285
CITY OF HOUSTON, CITY OF SEATTLE
CITY OF LOS ANGELES TYPE I FABRICATOR / LWS / HSS / #1015

MANUFACTURER (SC FACILITY) IS AN APPROVED FABRICATOR WITH THE FOLLOWING CERTIFICATIONS.

IAS AC472 # MB-216 & MB-105
CERTIFICATE OF COMPETENCY: MIAMI-DADE COUNTY

COLORADO REGISTERED PROFESSIONAL ENGINEER
SALEM G. SALEM
31893
6/4/20

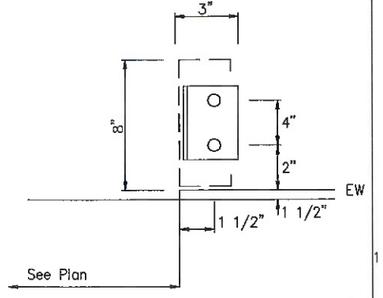
△
△
△

Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

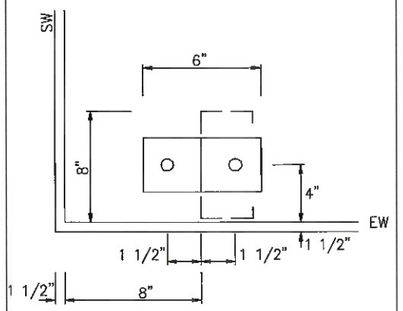
DRAWN BY: R2C 6/ 9/20
CHECK BY: MK 06/12/20
DES. ENG. :

Dia= 3/4"



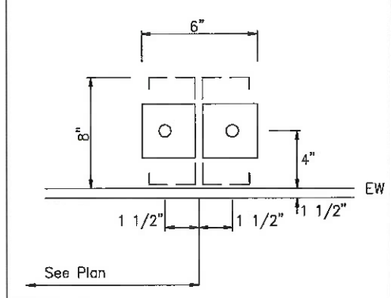
DETAIL A

Dia= 3/4"



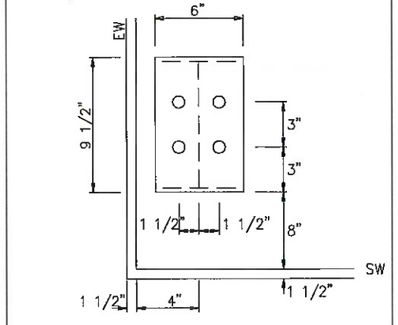
DETAIL B

Dia= 3/4"



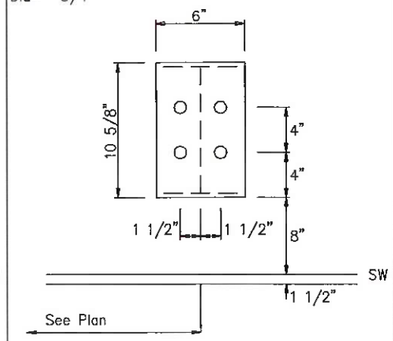
DETAIL C

Dia= 3/4"

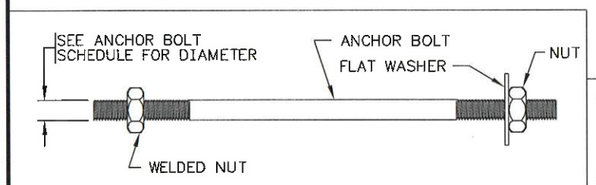


DETAIL D

Dia= 3/4"



DETAIL E



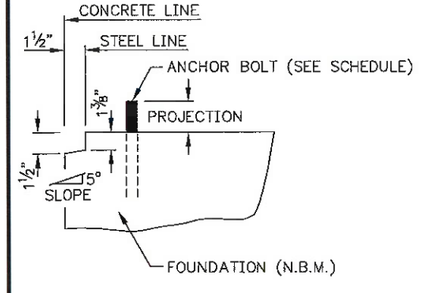
ANCHOR BOLTS, BOLT LENGTHS, NUTS, AND WASHERS ARE NOT BY THE METAL BUILDING MANUFACTURER; SEE GENERAL NOTES.

ANCHOR BOLT SCHEDULE

Qty	Locate	Dia (in)	Type	Proj (in)
O 16	Endwall	3/4"	Gr36	2.00
O 16	Frame	3/4"	Gr36	2.00

SHEETING NOTCH & BOLT PROJECTION

- OMIT NOTCH AT DOOR OPENING(S) AND AS SHOWN ON ANCHOR BOLT SETTING PLAN.

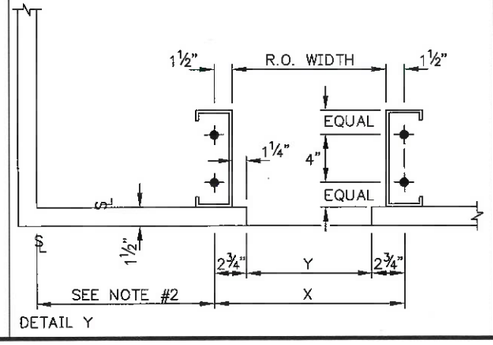


DETAIL X

FIELD LOCATED WALKDOOR DETAIL

DOOR SIZE	3070	4070	6070
R.O. WIDTH	3'-4"	4'-4"	6'-4"
X	3'-7"	4'-7"	6'-7"
Y	3'-1 1/2"	4'-1 1/2"	6'-1 1/2"

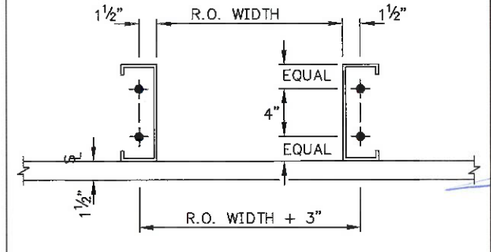
- SEE NOTE #3 FOR ANCHOR BOLT REQUIREMENTS.



DETAIL Y

FIELD LOCATED WINDOW DETAIL

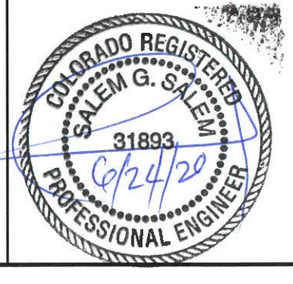
- USE THIS DETAIL FOR OTHER FRAMED OPENINGS THAT ARE SET ON CONCRETE.
- SEE NOTE #3 FOR ANCHOR BOLT REQUIREMENTS.



DETAIL Z

WALKDOOR AND WINDOW FRAMED OPENING NOTES

1) SOME DETAILS SHOWN MAY NOT APPLY TO YOUR BUILDING. REFER TO YOUR VERIFICATION FOR THE OPTIONS WHICH ARE INCLUDED.
2) FIELD LOCATE WALKDOOR IN ONE FOOT INCREMENTS STARTING AT STEEL LINE. EXAMPLE: 1'-8½", 2'-8½", 3'-8½", ETC.
3) USE (4) ½" ø x 3¾" EXPANDED ANCHORS OR EQUAL PER OPENING, MINIMUM EMBEDMENT 2¼". IT IS SUGGESTED TO USE: HILTI KWIK BOLT 3 (KB3) IN COMPLIANCE WITH ICC-ES ESR-2302.



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△

Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY: MK
06/12/20
DES. ENG. :

SHEET NO. A2 OF 3

GENERAL NOTES

1. ALL COLUMNS SHOWN ON ANCHOR BOLT PLAN CAN NOT BE MOVED. REFER TO FRAMED OPENING DETAILS FOR LOCATING ANY FRAMED OPENINGS NOT SHOWN.
2. THE ANCHOR BOLT SIZES, GAGES, AND SPACING SHOWN ON THE ANCHOR SETTING PLAN ARE FOR CAST IN PLACE ANCHOR RODS UNLESS SPECIALLY NOTED ON THE DRAWING. BOLTS CANNOT BE REPLACED BY EXPANSION OR EPOXY ANCHORS.
3. ANCHOR BOLTS AND ANY OTHER ITEMS EMBEDDED IN CONCRETE, INCLUDING ALL MASONRY FASTENERS AND ANCHORS, ARE NOT BY THE METAL BUILDING MANUFACTURER.
4. FOUNDATION DESIGN OR ANY OTHER CONCRETE DESIGN IS NOT BY THE METAL BUILDING MANUFACTURER (CONSULT A LOCAL REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF FOUNDATION AND CONCRETE WORK).
5. ANCHOR BOLT EMBEDMENT LENGTHS AND REQUIRED CONCRETE EDGE DISTANCES TO BE DETERMINED BY THE FOUNDATION ENGINEER.
6. BASE PLATES ARE DESIGNED ASSUMING CONCRETE HAS A MINIMUM STRENGTH OF 2500 P.S.I. AT 28 DAYS.
7. BASE PLATE SIZES ARE 3" X 8" UNLESS NOTED.
8. ALL REACTIONS ARE GIVEN IN KIPS (1000 LBS.).
9. WALKDOORS, WINDOWS, VENTS, LOUVERS, LIGHT PANELS, LINER, AND KITS ARE TO BE FIELD LOCATED, UNLESS NOTED. REFER TO YOUR VERIFICATION AND ANY REVISIONS FOR THE QUANTITY.
10. REFER TO "GENERAL BUILDING MANUAL" FOR ERECTION GUIDELINES. **WARRANTY WILL BE VOID** IF NOT INSTALLED PER MANUFACTURER SPECIFICATIONS.
11. FOR CANADIAN BUILDINGS, SEE "SUPPLEMENT PAGE" FOR ERECTION TOLERANCES.

MATERIAL SPECIFICATIONS

EXTERIOR ROOF AND WALL PANELS (29, 26 or 24 Gage):
TYPE: HI-RIB OR ARCHITECTURAL

29 & 26 GAGE PANEL: [SS Grade 80]	24 GAGE PANEL: [SS Grade 50]
NOTE: AS PER SECTION A2.3.2 OF THE AISI STANDARD, 2007 EDITION; Fn=60 ksi (75% OF Fu=80 ksi).	Fu=50 ksi

PAINTED: ASTM A792, AZ 50 ALUMINUM/ZINC ALLOY COATED
BARE GALVALUME: ASTM A792, AZ 55 ALUMINUM/ZINC ALLOY ACRYLIC COATED

INTERIOR LINER PANEL (29 Gage):
TYPE: HI-RIB OR ARCHITECTURAL [SS Grade 80]
NOTE: AS PER SECTION A2.3.2 OF THE AISI STANDARD, 2007 ED.; Fn=60 ksi (75% OF Fu=80 ksi).
PAINTED: ASTM A653, GALVANIZED G40
GALVALUME: ASTM A792, AZ55 ALUMINUM/ZINC ALLOY ACRYLIC COATED

PURLINS, GIRTS AND EAVE STRUTS:
ASTM A1011 SS or HSLAS CLASS 1 GRADE 55 – PRIMED
ASTM A1011 SS or HSLAS CLASS 1 GRADE 55 – GALVANIZED TO ASTM A653 G90

BUILT-UP SECTIONS:
PLATE: ASTM A529 SS GR. 50 or ASTM A572 HSLA TYPE 1 or 2 GR. 50
SHEET: ASTM A1011 HSLAS CLASS 1 GR. 50
BAR: ASTM A529 SS GR. 50 or 55 or ASTM A572 HSLA TYPE 1 GR. 50

HOT-ROLLED SECTIONS: ASTM A36, GRADE 36 (CHANNEL)
ASTM A992, GRADE 50 (WIDE FLANGE SHAPES)

STRUCTURAL (ROUND) PIPE: ASTM A500B (Fy=42 ksi.)

STRUCTURAL (SQUARE, RECTANGULAR) TUBE: ASTM A500B (Fy=46 ksi.)

BOLTS: ASTM A325,TYPE 1 HEAVY HEX BOLT WITH HEAVY HEX NUT, ASTM A563 GRADE C
WASHERS: TYPE 1 ASTM F436 (IF REQUIRED)
ASTM A307, GRADE A HEX BOLT WITH HEX NUT, ASTM A563 GRADE A
ANCHOR BOLTS: ½" ø = ASTM A307
¾" ø THRU 1¼" ø = ASTM F1554 GR. 36

TRIM: (26&24GA.) ASTM A792, SS GRADE 50, AZ 50 ALUMINUM/ZINC ALLOY COATED.

FASTENERS: ALL SELF-DRILLING AND SELF-TAPPING SHEET METAL SCREWS WILL CONFORM TO THE FOLLOWING:
- ¼"-14 X ⅞" TAE 1 CONFORMS TO SAE J78-98 WITH SEALING WASHER.
- #12-14 X 1¼" TEK 2 or TEK 3 SELF-DRILL SCREW CONFORMS TO SAE J78-98 WITH SEALING WASHER.
- #12-14 X 1½" TEK 2 or TEK 3 SELF-DRILL SCREW CONFORMS TO SAE J78-98 WITH SEALING WASHER.
- #12-14 X 1¼" TEK 5 SELF-DRILL SCREW CONFORMS TO SAE J78-98 WITH SEALING WASHER.
- #17 X ¾" TYPE AB TAPPING SCREW CONFORMS TO ANSI STANDARD B18.6.4 WITH SEALING WASHER.
- #10 X 1½" WOODGRIP SCREW WITH SEALING WASHER.

BRACING: CABLE: EHS (EXTRA HIGH STRENGTH) 7- WIRE CLASS A GALVANIZED STEEL STRAND CONFORMING TO ASTM A475.
HILLSIDE WASHER/BRACER: ASTM A48, CL-30B / ASTM 536-84 GRADE 65
EYEBOLTS: ASTM A572 GRADE 55 ROD, ZINC COATED ASTM B633 TURNED AND WELDED, WITH ASTM A563 GRADE A NUT & ASTM F844 WASHER.
SLEEVE NUTS: ASTM A 563-00 GRADE A, PLAIN HEX NUT
BRACE GRIPS: SAME REQUIREMENTS AS EHS 7- WIRE CLASS A GALVANIZED STEEL STRAND CONFORMING TO ASTM A475.
ROD: ASTM A36
ANGLES: ASTM A36

HIGH STRENGTH BOLTS: ASTM A325 (USED WHERE SPECIFIED ON DRAWINGS).
A325 BOLTS USED ON RIGID FRAME MOMENT CONNECTIONS ARE DESIGNED AS BEARING TYPE CONNECTIONS, AND THREADS ARE INCLUDED IN THE SHEAR PLANE.
TURN OF THE NUT METHOD – IS TO BE USED IN TIGHTENING THE HIGH STRENGTH MOMENT CONNECTION BOLTS. SPECIAL INSPECTION OF THE TIGHTENING OF THESE BOLTS IS REQUIRED AS SPECIFIED ON BUILDING CODES.

BUILDING ACCESSORIES SCHEDULE

QTY.	ACCESSORY DESCRIPTION
2	3070 COMMERCIAL STRUCTURAL MAN DOOR (FIELD LOCATE)
4	5'Wx4'H C WINDOW FRAMED OPENING (FIELD LOCATE)

Previous comment not addressed.

DISAPPROVED

09/29/2020 3:02:22 PM

bphillips

CONSTRUCTION

NOTES FOR REACTIONS

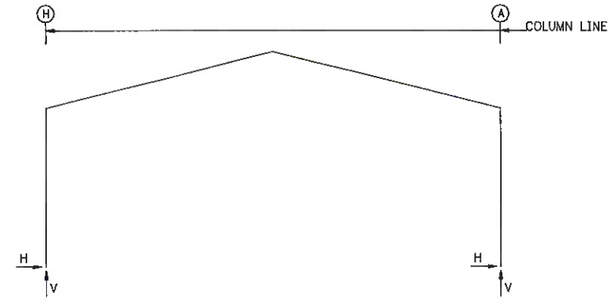
1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced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

Width (ft)	= 40
Length (ft)	= 40
Eave Height (ft)	= 14 / 14
Roof Slope (rise/12)	= 3.0:12 / 3.0:12
Building Code	= IBC 18
Local Code (if applicable)	= IBC 18
Risk Category	= II - Normal
Dead Load (psf)	= 2.290
Collateral Load (psf)	= 1
Live Load (psf)	= 20.00
Live Load Reduced?	= No
Roof Snow Load (psf), Pf	= 40
Ground Snow Load (psf), Pg	= 40.00
Importance – Snow	= 1.00
Snow Exposure, Ce	= 1.00
Thermal Factor, Ct	= 1.00
Sloped Factor, Cs	= 1.00
Wind Speed, Ultimate (mph)	= 130
Importance – Wind	= 1.00
Wind Exposure	= C
Closed/Open	= Closed
Internal Pressure Coeff.	= 0.18 / -0.18
Seismic, Ss	= 0.177
Seismic, S1	= 0.059
Seismic, Sds	= 0.189
Seismic, Sd1	= 0.094
Importance – Seismic	= 1.00
Seismic Response Coeff, Cs	= 0.058
Response Modification Coeff, R	= 3.25
Longitudinal Base Shear (kips)	= 1.37
Transverse Base Shear (kips)	= 1.42
Site Class	= D
Seismic Design Category	= B
Analysis Procedure: Equivalent Lateral Force	
Seismic Force Resisting Systems: Steel Ordinary Moment Frame (OMF) Steel Ordinary Concentrically Braced Frame (OCBF)	

5. Loading conditions are:

1 Dead+Collateral+Snow
2 0.6Dead+0.6Wind_Left1
3 0.6Dead+0.6Wind_Right1
4 0.6Dead+0.6Wind_Long1L
5 0.6Dead+0.6Wind_Long2L
6 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
7 0.6Dead+0.6Wind_Right2+0.6Wind_Pressure
8 Dead+Collateral+0.6Wind_Suction+0.6Wind_Long2L
9 0.6Dead+0.6Wind_Left2+0.6Wind_Pressure
10 0.6Dead+0.6Wind_Left2+0.6Wind_Suction
11 Dead+Collateral+E2UNB_SL_L
12 Dead+Collateral+E2UNB_SL_R

FRAME LINES: 1 2



RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
1	H	1	3.4	9.2	2	-2.3	-3.8
1	A	3	2.3	-3.8	1	-3.4	9.2
		1	-3.4	9.2	3	2.3	-3.8

RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
2	H	1	9.7	22.3	2	-4.6	-7.4
					4	0.2	-7.7
2	A	3	4.6	-7.4	1	-9.7	22.3
		1	-9.7	22.3	5	-0.2	-7.7

ENDWALL COLUMN: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
1	G	6	1.0	0.0	7	-0.9	0.0
		8	1.0	0.0			
1	E	6	1.7	0.0	7	-1.6	0.0
		8	1.7	0.1			
1	D	6	1.7	0.0	7	-1.6	0.0
		8	1.7	0.1			
1	B	6	1.0	0.0	7	-0.9	0.0
		8	1.0	0.0			
3	A	1	0.0	2.6	9	-2.4	-2.6
3	C	10	2.0	-2.7	9	-1.8	-2.7
		11	0.0	7.6	10	2.0	-2.7
3	F	6	2.0	-2.7	7	-1.8	-2.7
		12	0.0	7.6	6	2.0	-2.7
3	H	1	0.0	2.6	7	-2.4	-2.6

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
	1								(h)
	A	2,3	4.0	2.4	0.7	0.4			
	3						29	6	
	H	3,2	4.0	2.4	0.7	0.4			

(h)Rigid frame at endwall

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SALEM G. SALEM
31893
06/24/20

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Sunward Steel Buildings

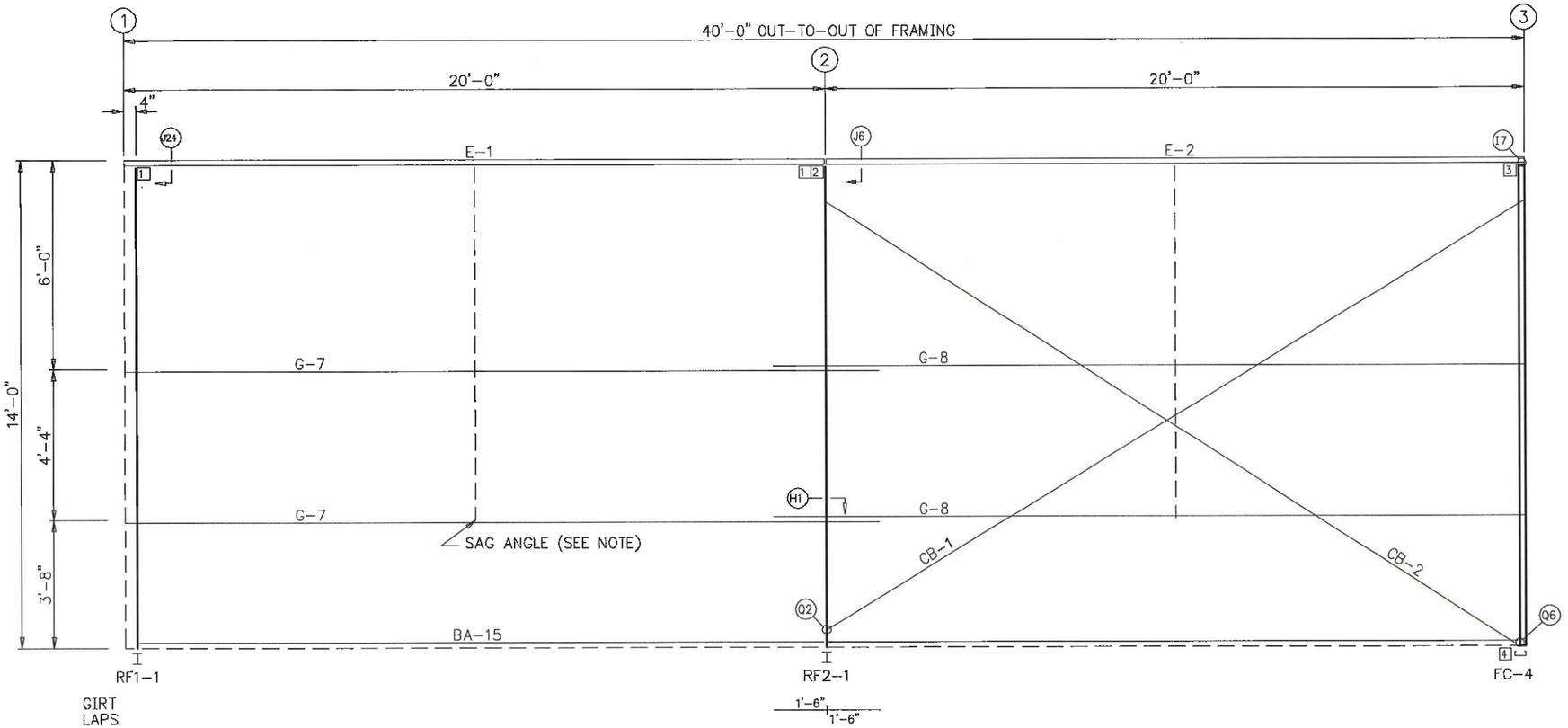
BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY: MK
06/12/20
DES. ENG. :

SHEET NO. A3 OF 3

CONNECTION PLATES FRAME LINE A	
☐ID	MARK/PART
1	FC060
2	ESA-1
3	FC065
4	FC015

MEMBER TABLE FRAME LINE A	
MARK	PART
E-1	10C16
E-2	10C16
G-7	8Z16
G-8	8Z16
CB-1	5/16" CABLE
CB-2	5/16" CABLE



ELEVATION AT: FRAME LINE A

SAG ANGLE NOTES:

(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)

IF SHOWN, LOCATE PBA-10 AS INDICATED ON DRAWINGS. ONE ROW IS AT MIDPOINT OF BAY, TWO ROWS ARE AT 1/3 POINTS OF BAY, THREE ROWS ARE AT 1/4 POINTS OF BAY.

LEGEND

A-	SPECIAL ANGLE	EC-	ENDWALL COLUMN	R-	RAFTER	ZA-	"Z" SHEETING ANGLE	N.S.	NEAR SIDE
AB-	ANGLE BRACE	ER-	ENDWALL RAFTER	RB-	ROOF BEAM			O.C.	ON CENTER
BA-	BASE/SHEETING ANGLE	FB-	FLANGE BRACE	RCH-	RAKE CHANNEL			O.H.	OPPOSITE HAND
BCH-	BASE CHANNEL	FC___	FRAMING CLIP	RF-	RIGID FRAME	A.F.F.	ABOVE FINISH FLOOR	R.O.	ROUGH OPENING
BM-	BEAM	G-	GIRT	SA-	SHEETING ANGLE	A.S.	AS SHOWN	SIM.	SIMILAR
BR-	BRACKET	H-	HEADER/SILL	SC-	SIDEWALL/STUB/ SOLDIER COLUMN	℄	BUILDING LINE	℔	STEEL LINE
BS-	BOSS	J-	JAMB			℄	CENTER LINE	T.B.D.	TO BE DETERMINED
CB-	CROSS BRACE	MB-	MEZZANINE BEAM	SJ-	SUBJAMB	F.F.	FINISH FLOOR		
CL-	SPECIAL CLIP	MC-	MEZZANINE/MANSARD COLUMN	SR-	SUPPORT RAFTER	F.O.	FRAMED OPENING	T.O.B.	TOP OF BEAM
DH-	DOOR HEADER			T-	TRIM	F.O.C.	FACE OF COLUMN	T.O.J.	TOP OF JOIST
DJ-	DOOR JAMB	MJ-	MEZZANINE JOIST	TC-	TUBE COLUMN	F.S.	FAR SIDE	TYP.	TYPICAL
E-	EAVE STRUT	P-	PURLIN	TR-	SPECIAL TRIM	N.A.	NOT APPLICABLE	U.N.	UNLESS NOTED
EE-	EAVE EXTENSION	PC-	PIPE/PARAPET COLUMN	TS-	TUBE STRUT	N.B.M.	NOT BY METAL BUILDING MANUFACTURER		
EB-	EXTENSION BEAM	PS-	PURLIN/PIPE STRUT	WF-	WIND FRAME				

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31893
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Sunward Steel Buildings

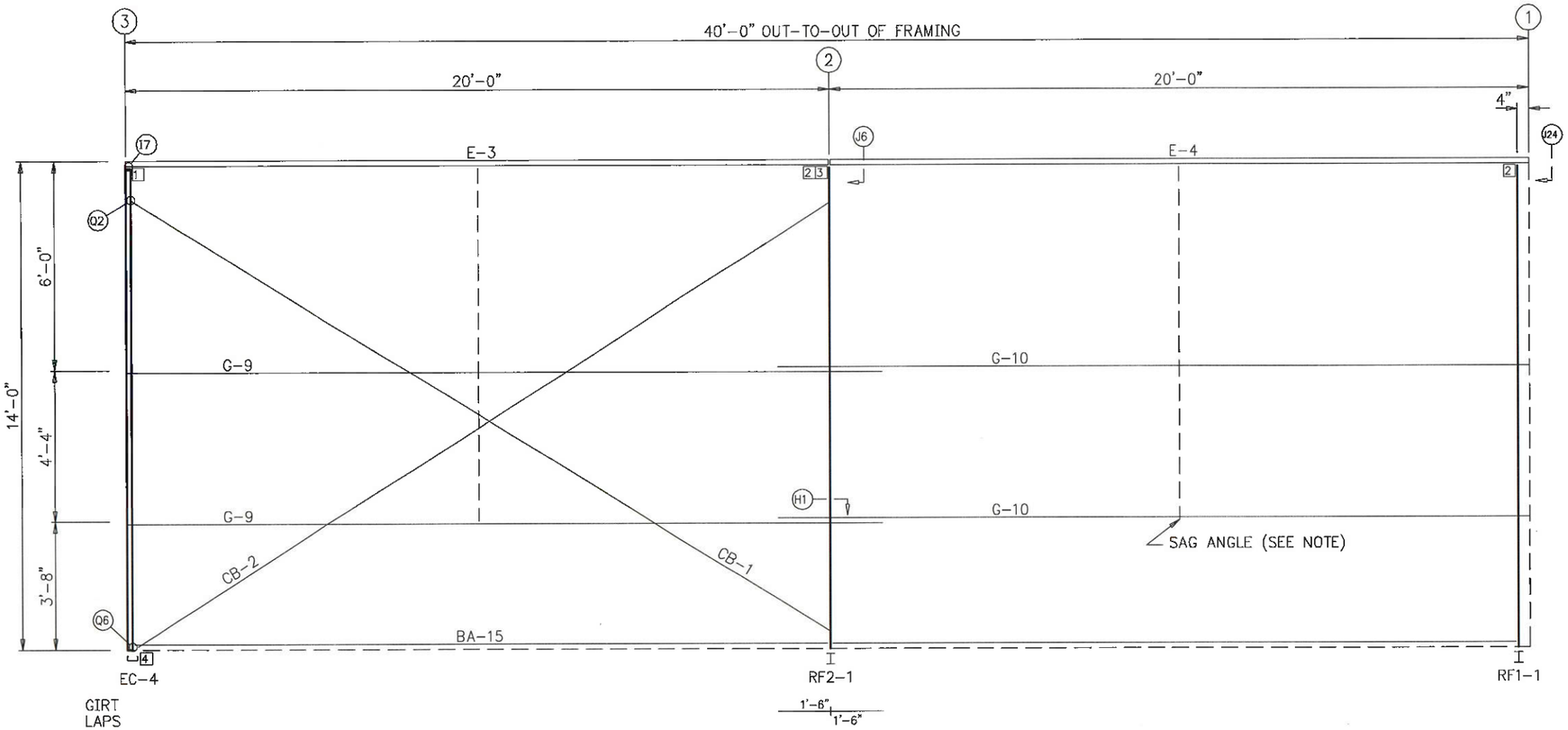
BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG.:

SHEET NO. E1 OF 9

CONNECTION PLATES FRAME LINE H	
☐ID	MARK/PART
1	FC065
2	FC060
3	ESA-1
4	FC015

MEMBER TABLE FRAME LINE H	
MARK	PART
E-3	10C16
E-4	10C16
G-9	8Z16
G-10	8Z16
CB-1	5/16" CABLE
CB-2	5/16" CABLE



ELEVATION AT: FRAME LINE H

SAG ANGLE NOTES:

(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)

IF SHOWN, LOCATE PBA-10 AS INDICATED ON DRAWINGS. ONE ROW IS AT MIDPOINT OF BAY, TWO ROWS ARE AT 1/3 POINTS OF BAY, THREE ROWS ARE AT 1/4 POINTS OF BAY.

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6/24/20

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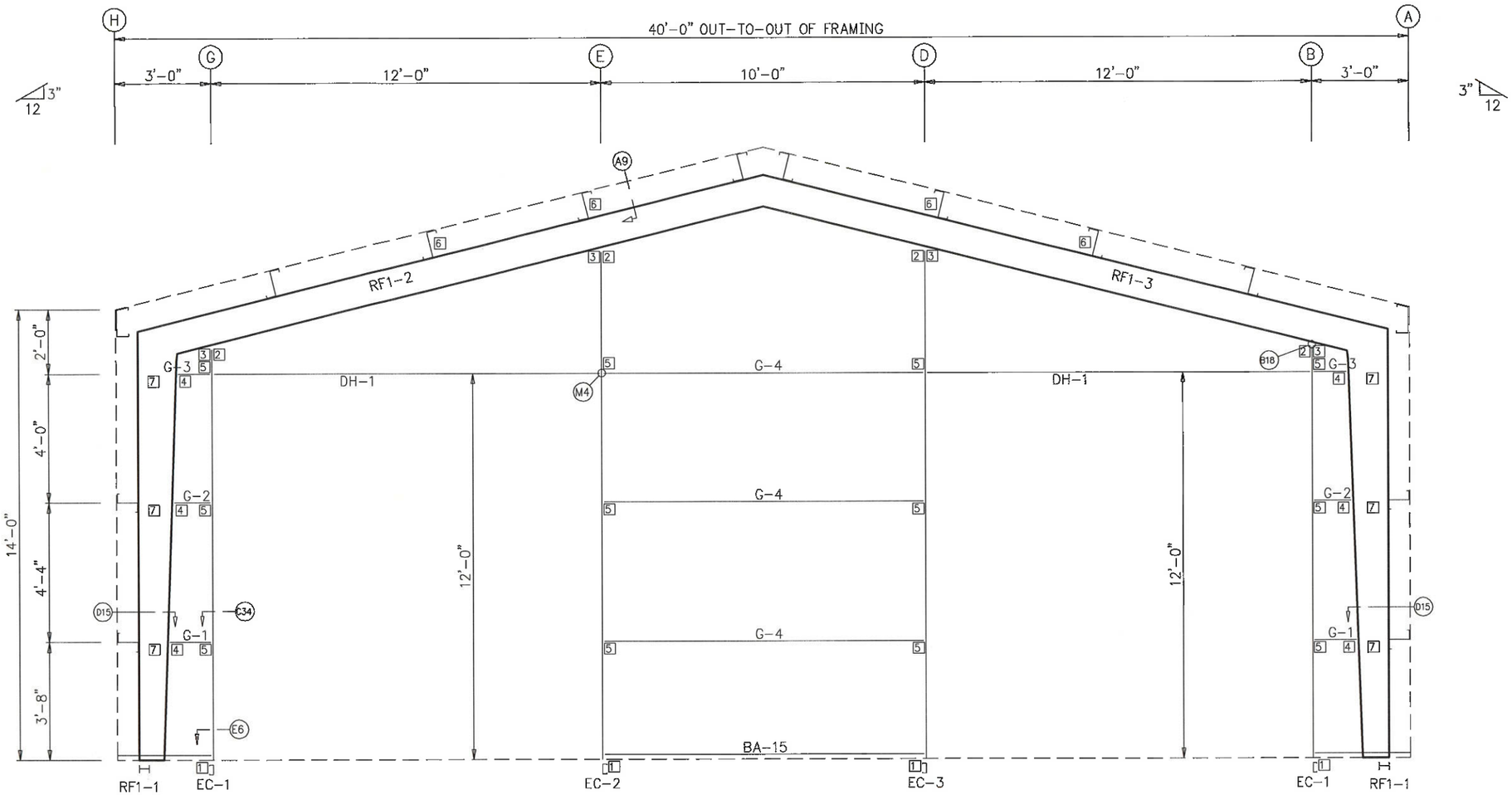
Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG. :

SHEET NO. E2 OF 9



ELEVATION AT: LINE 1

CONNECTION PARTS LINE 1	
☐ ID	PART
1	FC014
2	FC118
3	FC117
4	FC031
5	FC033
6	FC008
7	ZA-45

MEMBER TABLE LINE 1	
PART	MATERIAL
EC-1	8C16
EC-2	8C13
EC-3	8C13
DH-1	8C16
G-1	8Z16
G-2	8Z16
G-3	8Z16
G-4	8Z16

BUILT-UP MEMBER ID, WHERE FORMAT IS: WAABCD

SHAPE = I EXAMPLE: W 08 5 4 2

W = WELDED MEMBER TYPE
AA = MEMBER DEPTH IN INCHES
B = FLANGE WIDTH IN INCHES, 5=5", 6=6", 8=8", 0=10", 2=12"
C = FLANGE THICKNESS IN 1/16 INCH UNITS,
3=3/16", 4=1/4", 6=3/8", 8=1/2", 0=5/8", 2=3/4"
D = WEB THICKNESS IN 1/16 INCH UNITS,
2=.112", 3=.179", 4=.250", 5=.3125", 6=.375"

COLD FORMED MEMBER ID, WHERE FORMAT IS: ABCC

SHAPE = C, Z or IC EXAMPLE: 8 C 1 6

A = DEPTH IN INCHES: 4=4", 8=8", 10=10", 12=12"
B = MEMBER TYPE: C=Cee, Z=Zee, D=Back to Back Cee
(FLANGE WIDTH PER TYPE: 4Z= 2½", 8Z= 2¾", 10Z= 2¾", 12Z= 2¾",
4C= 2½", 8C= 3", 10C= 3", 12C= 3")
CC = MATERIAL GAGE (THICKNESS)

X-BRACING MEMBER ID, WHERE FORMAT IS: AABBBB

EXAMPLE: C B 0 3 1 3

AA = X-BRACE TYPE: CB=CABLE, RB=ROD
BBBB = X-BRACE DIAMETER: 0313=5/16", 0375=3/8", 0500=1/2", 0625=5/8"
0750=3/4", 0875=7/8", 1000=1", 1125=1 1/8", 1250=1 1/4"

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PROFESSIONAL ENGINEER
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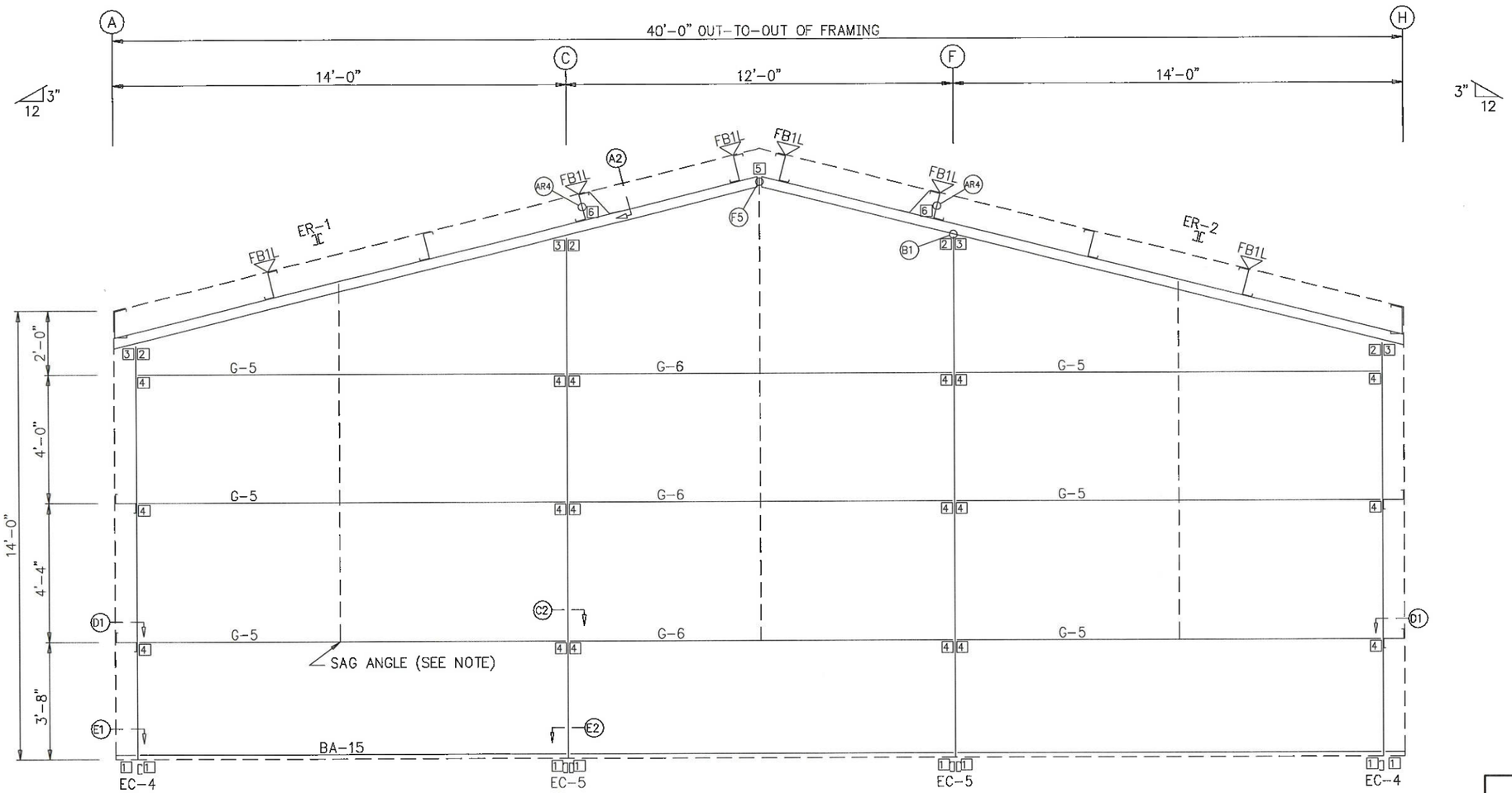
Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG.:
SHEET NO. E3 OF 9



ELEVATION AT: LINE 3

FLANGE BRACE TABLE
LINE 3

▽ID	PART	LENGTH
	FB1L	14 3/4"

CONNECTION PARTS
LINE 3

□ID	PART
1	FC013
2	FC126
3	FC125
4	FC033
5	FC136
6	FC008

MEMBER TABLE
LINE 3

PART	MATERIAL
EC-4	8C16
EC-5	8D16
ER-1	8D14
ER-2	8D14
G-5	8Z16
G-6	8Z16

SAG ANGLE NOTES:

(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)

IF SHOWN, LOCATE PBA-10 AS INDICATED ON DRAWINGS. ONE ROW IS AT MIDPOINT OF BAY, TWO ROWS ARE AT 1/3 POINTS OF BAY, THREE ROWS ARE AT 1/4 POINTS OF BAY.

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31893
6/24/20

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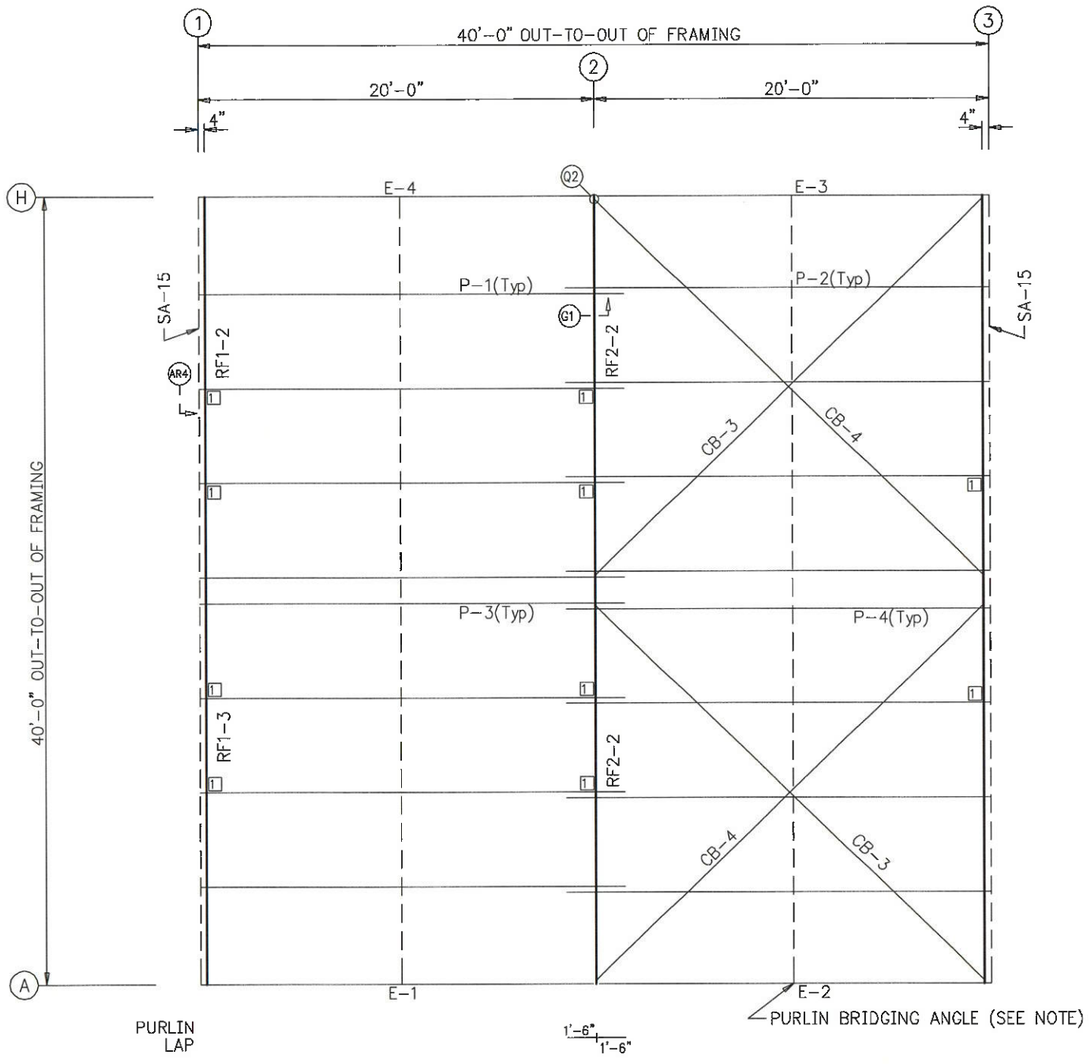
Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG. :

CONNECTION PLATES ROOF PLAN	
☐ID	MARK/PART
1	FC008

MEMBER TABLE ROOF PLAN	
MARK	PART
P-1	10Z13
P-2	10Z13
P-3	10Z13
P-4	10Z13
E-1	10C16
E-2	10C16
E-3	10C16
E-4	10C16
CB-3	5/16" CABLE
CB-4	5/16" CABLE



ROOF FRAMING PLAN

PURLIN CLIP NOTES:

1) PURLIN CLIP(S) AS REQUIRED, SEE ROOF FRAMING PLAN.
2) SEE DETAIL SECTIONS "A_" ON ENDWALL ELEVATIONS FOR PURLIN TO RAFTER DETAILS.
3) LOCATE PURLIN CLIP INSIDE OF ROOF PURLIN.

PURLIN BRIDGING ANGLE NOTES:

(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)

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31893
6/24/20

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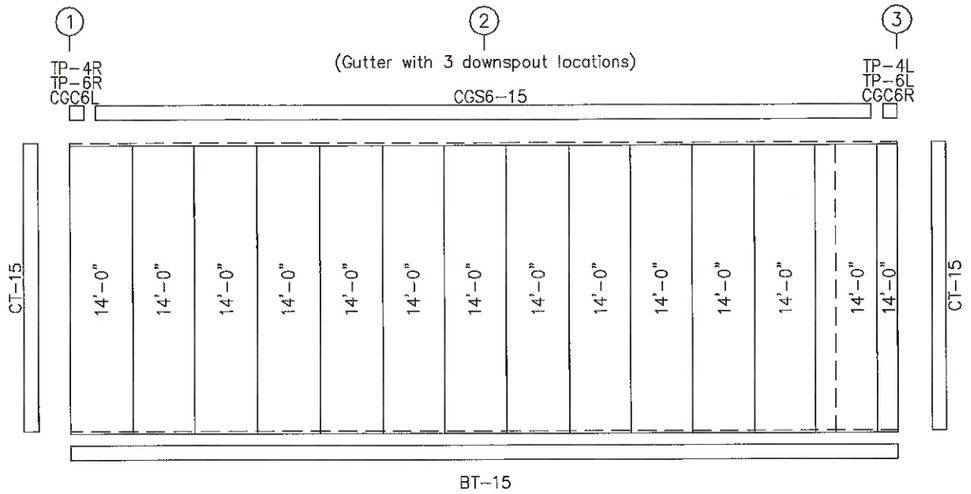
Sunward Steel Buildings

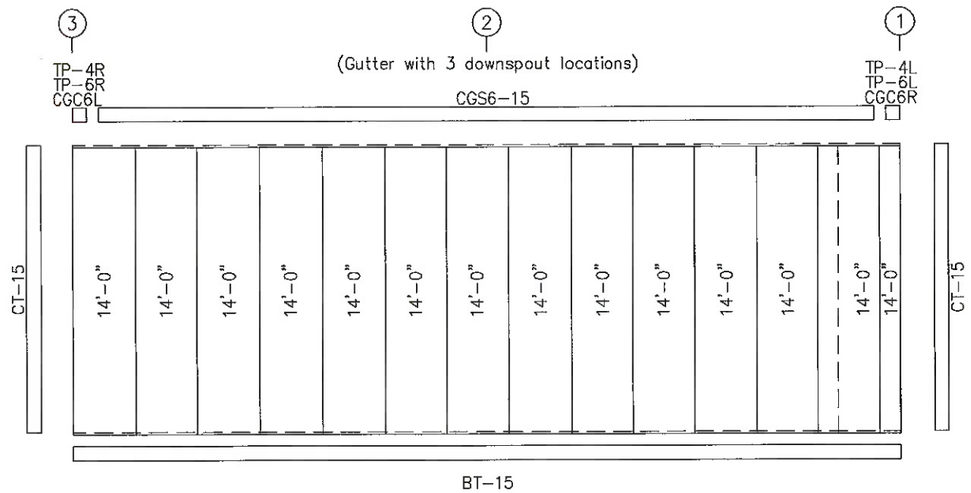
BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C 6/ 9/20
CHECK BY:
DES. ENG. :



ELEVATION AT: FRAME LINE A

26 Ga. HR



ELEVATION AT: FRAME LINE H

26 Ga. HR

TRIM TABLE
FRAME LINE A & H

◇ID	PART	LENGTH	DETAIL
	CGS6-15	182"	TRIM_61
	CGC6L		TRIM_84
	CGC6R		TRIM_84
	CT-15	182"	TRIM_30
	BT-15	182"	TRIM_5

IMPORTANT NOTE!

TRIM OVERLAP TO BE 1½" (MAXIMUM). REFER TO PAGE 32 OF THE BUILDING ERECTION MANUAL.

SHEETING NOTES:

1) WALL SHEETS TO BE FIELD CUT AT FRAMED OPENINGS AS REQUIRED.
2) ROOF PITCHES GREATER THAN 1:12 REQUIRE WALL SHEETS TO BE FIELD CUT AT THE SLOPE OF BUILDING.

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31893
6/24/20
PROFESSIONAL ENGINEER

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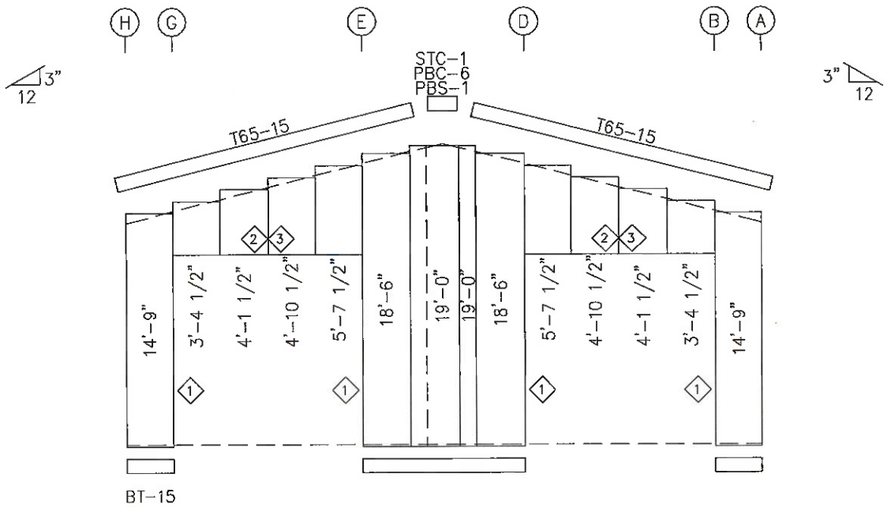
Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

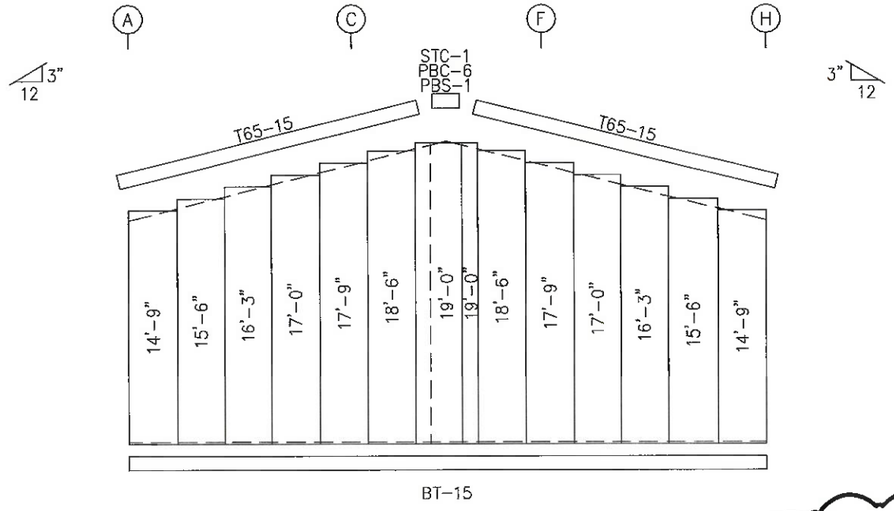
DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG.:
SHEET NO. E6 OF 9

TRIM TABLE LINE 1 & 3			
◇ID	MATERIAL	LENGTH	DETAIL
	T65--15	182"	TRIM_72
	PBS--1		TRIM_76
	BT--15	182"	TRIM_5
1	JT--158	182"	TRIM_10
2	HDT--15	182"	TRIM_9
3	HT--158	182"	TRIM_9



ELEVATION AT: LINE 1

26 Ga. HR



ELEVATION AT: LINE 3

26 Ga. HR

IMPORTANT NOTE!

TRIM OVERLAP TO BE 1½" (MAXIMUM). REFER TO PAGE 32 OF THE BUILDING ERECTION MANUAL.

SHEETING NOTES:

1) WALL SHEETS TO BE FIELD CUT AT FRAMED OPENINGS AS REQUIRED.
2) ROOF PITCHES GREATER THAN 1:12 REQUIRE WALL SHEETS TO BE FIELD CUT AT THE SLOPE OF BUILDING.

COLORADO REGISTERED
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PROFESSIONAL ENGINEER
6/24/20

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Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C 6/ 9/20
CHECK BY:
DES. ENG. :
SHEET NO. E7 OF 9

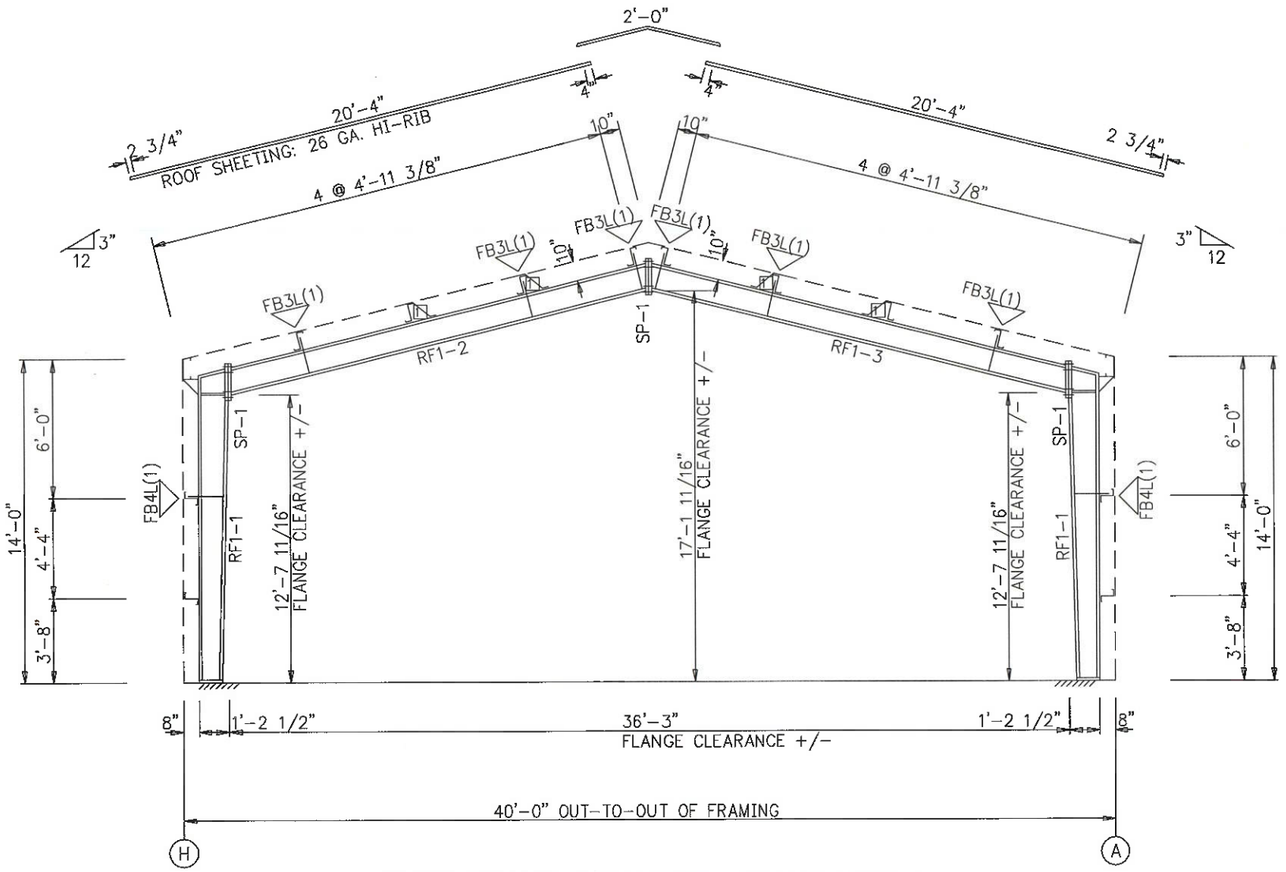
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	3/4"	2"	6"	1/2"	1'-5 5/8"

▽FLANGE BRACES: BOTH SIDES (U.N.) OR
PIECE MARK FOLLOWED BY (1)= 1 SIDE ONLY

FBxL= 1 1/2"x 1 1/2"x 1/8" H.R. ANGLE

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	9.0/13.1	11 ga.	10'-0"	5 x 1/4" x 13'-2 15/16"	5 x 1/4" x 12'-4 1/4"
	13.1/14.0	11 ga.	2'-4 1/8"	5 x 1/4" x 1'-2 5/8"	
	14.0/14.0	0.179	1'-2 5/16"		
RF1-2	11.0/11.0	11 ga.	10'-0"	5 x 1/4" x 18'-6 13/16"	5 x 1/4" x 18'-6 13/16"
	11.0/11.0	11 ga.	8'-9 5/8"		
RF1-3	11.0/11.0	11 ga.	8'-9 5/8"	5 x 1/4" x 18'-6 13/16"	5 x 1/4" x 18'-6 13/16"
	11.0/11.0	11 ga.	10'-0"		

CONNECTION PLATES	
☐ ID	Mark/Part
1	FC008



RIGID FRAME ELEVATION: FRAME LINE 1

COLORADO REGISTERED
SALEM G. SALEM
31893
PROFESSIONAL ENGINEER
6/24/20

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Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C 6/ 9/20
CHECK BY:
DES. ENG.:

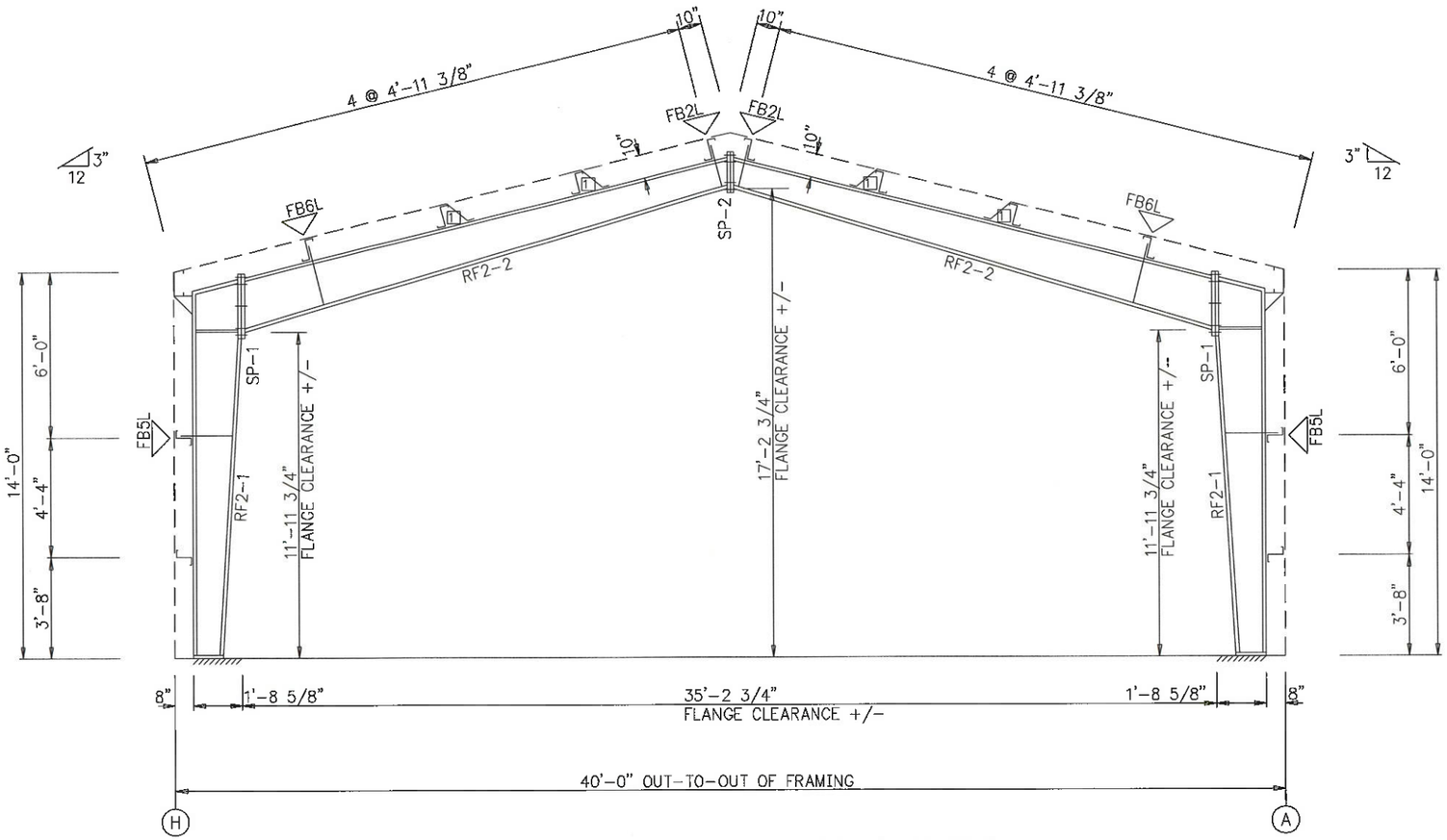
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	2"	6"	1/2"	2'-2 15/16"
SP-2	4	4	0	A325	3/4"	2"	6"	1/2"	1'-4 9/16"

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	10.0/18.3	0.179	9'-8 5/16"	5 x 1/4" x 13'-2 15/16"	5 x 3/8" x 11'-8 5/8"
	18.3/20.0	0.179	2'-0"	5 x 1/4" x 1'-8 13/16"	
	20.0/20.0	1/4"	1'-11 11/16"		
RF2-2	20.0/14.5	0.179	10'-0"	5 x 1/4" x 18'-0 11/16"	5 x 3/8" x 8'-5 13/16"
	14.5/10.0	0.179	8'-5 3/4"		5 x 1/4" x 9'-9 9/16"

CONNECTION PLATES	
☐ ID	Mark/Part
1	FC008

▽FLANGE BRACES: BOTH SIDES (U.N.) OR
PIECE MARK FOLLOWED BY (1)= 1 SIDE ONLY

FBxL= 1 1/2"x 1 1/2"x 1/8" H.R. ANGLE



RIGID FRAME ELEVATION: FRAME LINE 2

COLORADO REGISTERED
SALEM G. SALEM
31893
PROFESSIONAL ENGINEER
6/24/20

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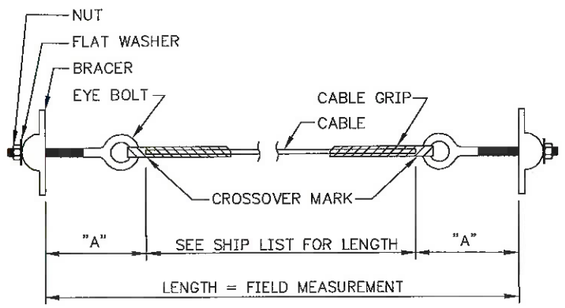
△

Sunward Steel Buildings

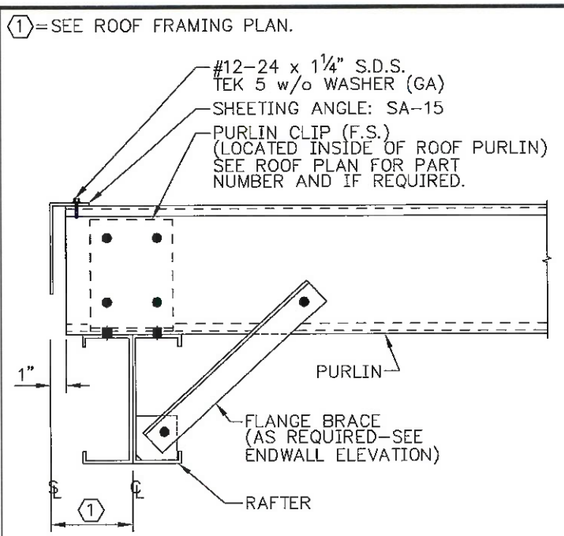
BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG. :
SHEET NO. E9 OF 9

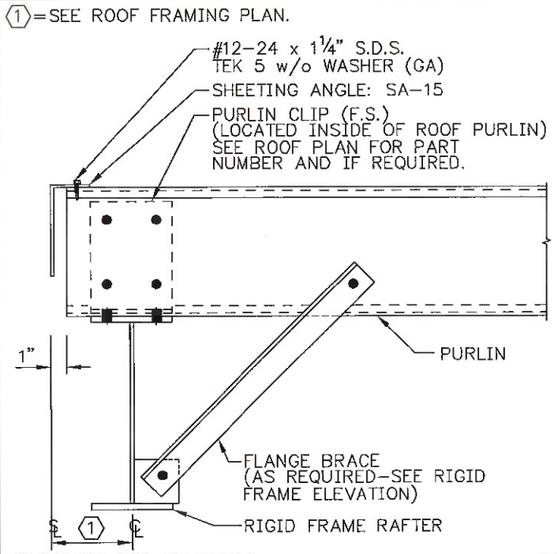
REFERENCE CHART			
CABLE	5/16"	3/8"	1/2"
EYE BOLT	5/8"	3/4"	7/8"
"A" DIM.	9"	10"	12"



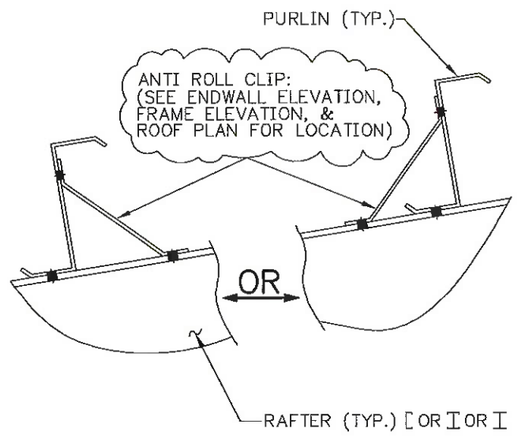
CABLE BRACING ASSEMBLY



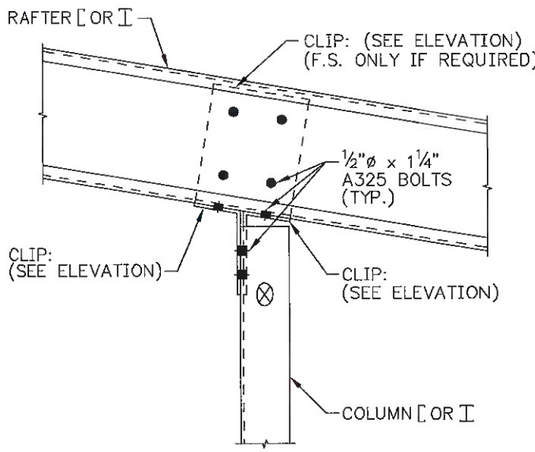
PURLIN TO RAFTER A2



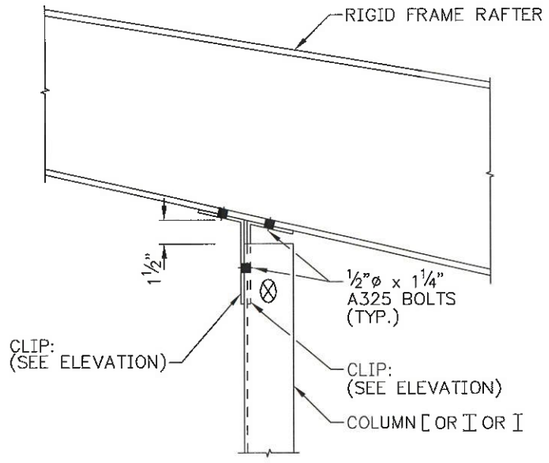
PURLIN TO RAFTER A9



ANTI-ROLL CLIP AR4

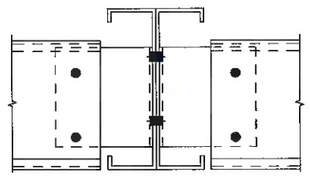


COLUMN TO RAFTER B1

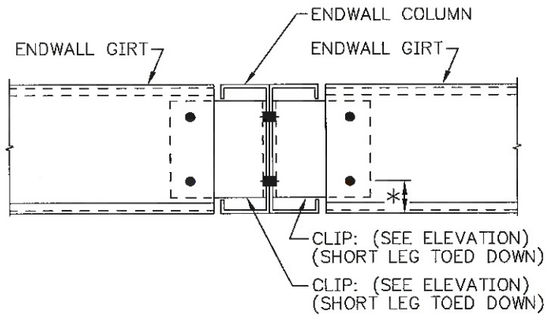


COLUMN TO RIGID FRAME RAFTER B18

GIRT SIZE(S)	* DIM.
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"

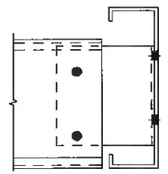


VIEW WITH LARGER COLUMN

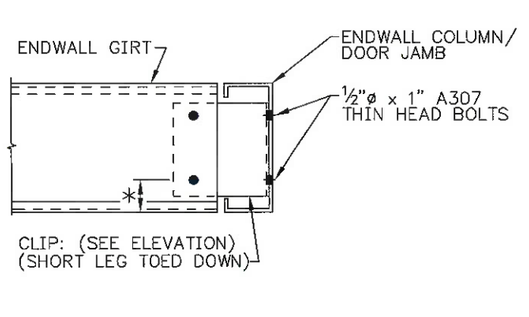


GIRTS TO ENDWALL COLUMN C2

GIRT SIZE(S)	* DIM.
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"



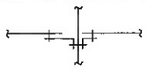
VIEW WITH LARGER COLUMN



GIRT TO ENDWALL COLUMN C34

GENERAL NOTES:

1) ALL BOLTS ARE TO BE ½"ø x 1¼" A307 UNLESS NOTED.
2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
3) ALL DIMENSIONS ARE +/-.
4) MATCH SHOP MARK "⊗" IF SHOWN.
5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.



COLORADO REGISTERED
SALEM G. SALEM
31893
PROFESSIONAL ENGINEER
6/24/20

△
△
△

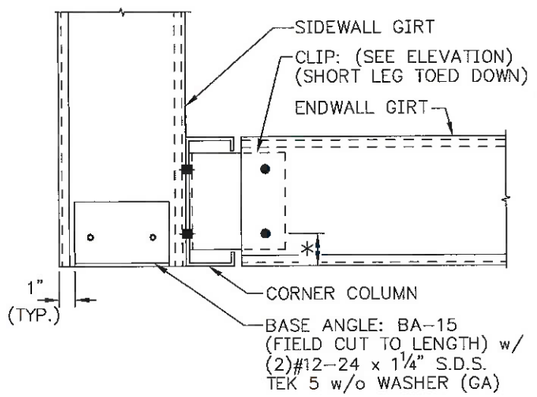
Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG. :

SHEET NO. G1 OF 3

GIRT SIZE(S)	* DIM.
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"

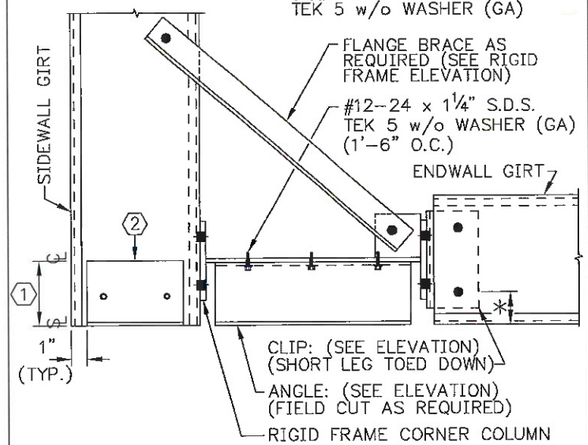


GIRTS TO CORNER COLUMN D1

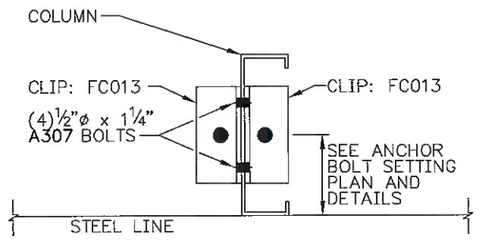
GIRT SIZE(S)	* DIM.
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"

1 = SEE ELEVATIONS AND ROOF FRAMING PLAN.

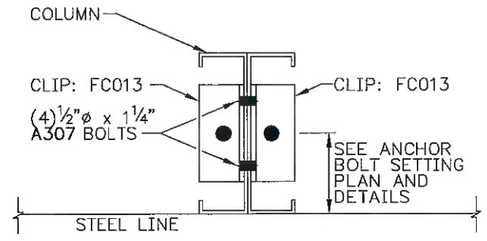
2 = BASE ANGLE: BA-15 (FIELD CUT TO LENGTH) w/ (2)#12-24 x 1¼" S.D.S. TEK 5 w/o WASHER (GA)



GIRTS TO R.F. CORNER COLUMN D15

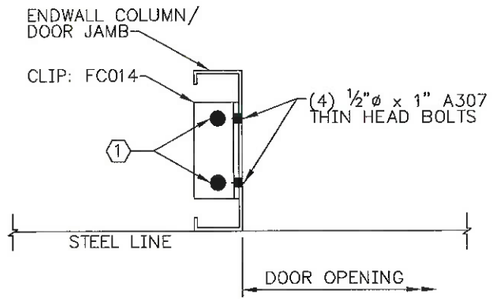


COLUMN BASE DETAIL E1

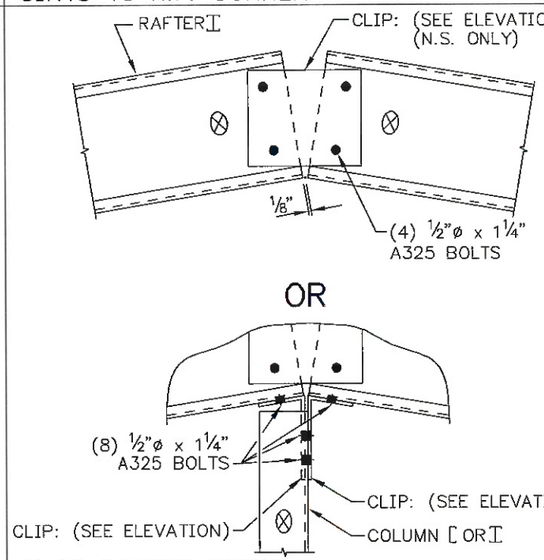


COLUMN BASE DETAIL E2

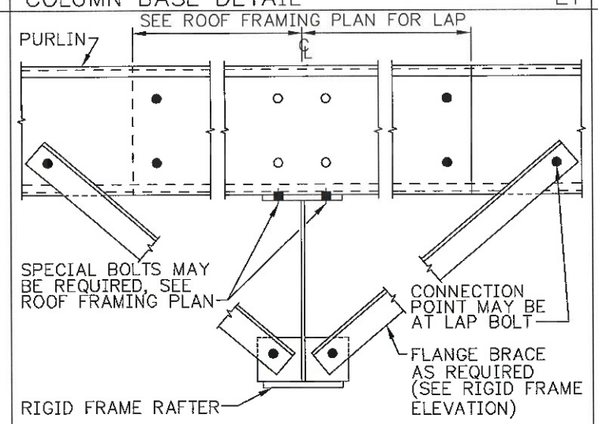
1 = SEE ANCHOR BOLT SETTING PLAN AND DETAILS FOR ANCHOR BOLT SIZE AND LOCATION.



DOOR JAMB BASE DETAIL E6

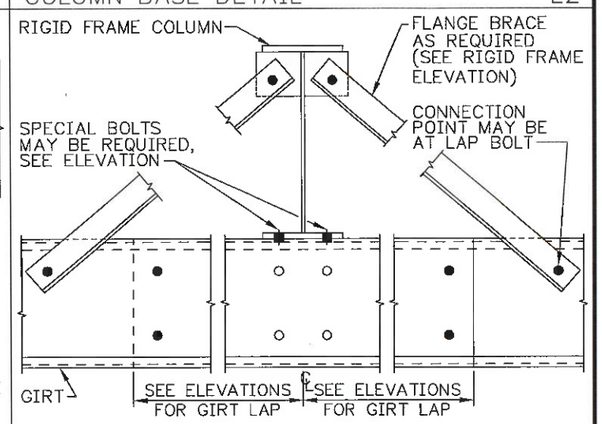


PEAK RAFTER DETAIL F5



(6) BOLTS WITHOUT FLANGE BRACE.
(8) BOLTS WITH FLANGE BRACE AT LAP.
(10) BOLTS WITH FLANGE BRACE.
(● = INDICATES BOLT REQUIRED, ○ = OPEN, NO BOLTS)
SPECIAL BOLTS MAY BE REQUIRED AT FLANGE BRACE(S), SEE RIGID FRAME ELEVATION.

PURLIN OVERLAP G1

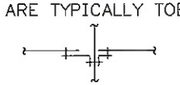


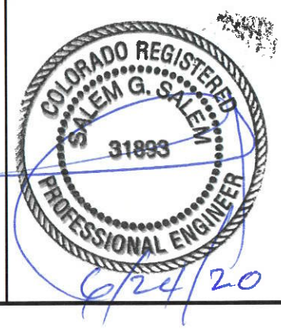
(6) BOLTS WITHOUT FLANGE BRACE.
(8) BOLTS WITH FLANGE BRACE AT LAP.
(10) BOLTS WITH FLANGE BRACE.
(● = INDICATES BOLT REQUIRED, ○ = OPEN, NO BOLTS)
SPECIAL BOLTS MAY BE REQUIRED AT FLANGE BRACE(S), SEE RIGID FRAME ELEVATION.

GIRT OVERLAP H1

GENERAL NOTES:

1) ALL BOLTS ARE TO BE ½"ø x 1¼" A307 UNLESS NOTED.
2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
3) ALL DIMENSIONS ARE +/-.
4) MATCH SHOP MARK "⊗" IF SHOWN.
5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.





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△
△

Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

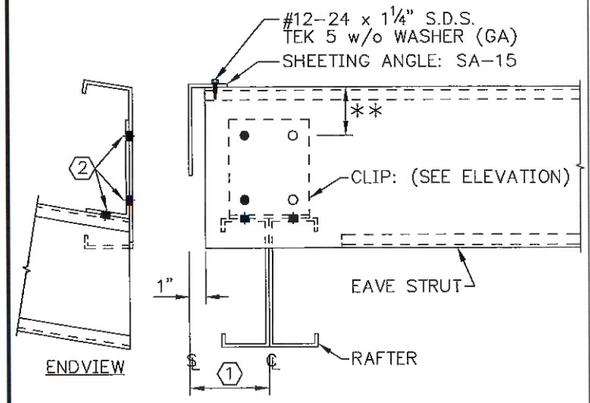
DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG.:
SHEET NO. G2 OF 8

EAVE STRUT SIZE(S)	** DIM.
8" C	2"
10" C	3"
12" C	4"

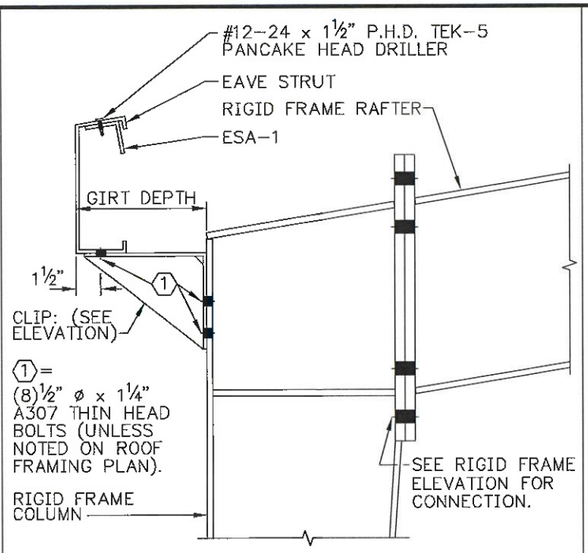
1 = SEE ROOF FRAMING PLAN.

2 = (4) ½" ø x 1¼" A307 THIN HEAD BOLTS (UNLESS NOTED ON ROOF FRAMING PLAN).

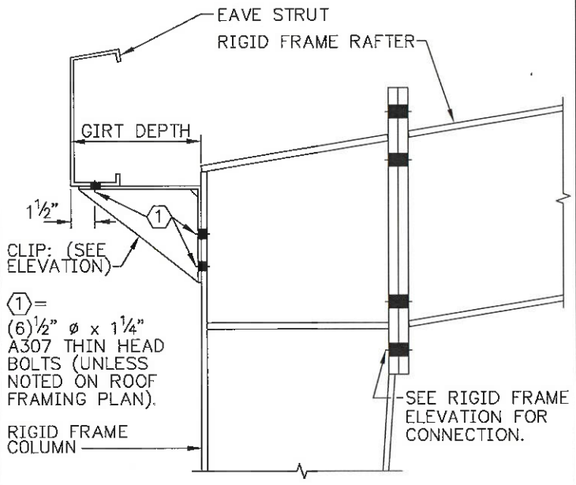
● = INDICATES BOLT REQUIRED.
○ = INDICATES OPEN, NO BOLTS.



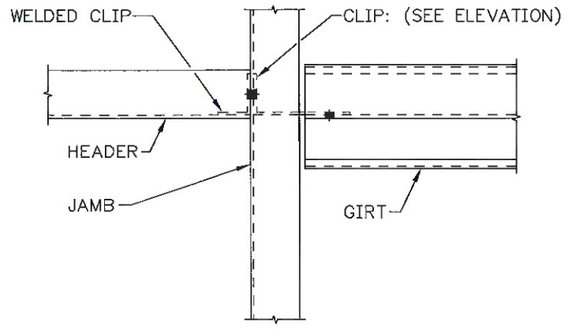
EAVE STRUT TO RAFTER I7



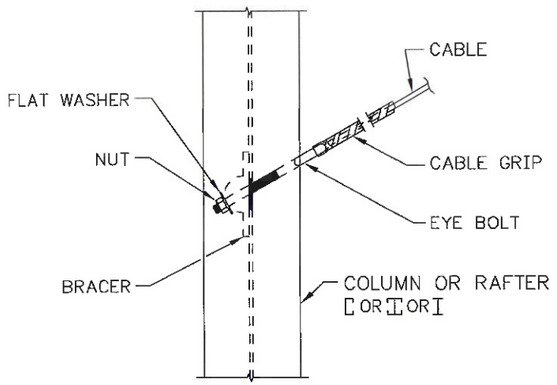
EAVE STRUT TO RIGID FRAME J6



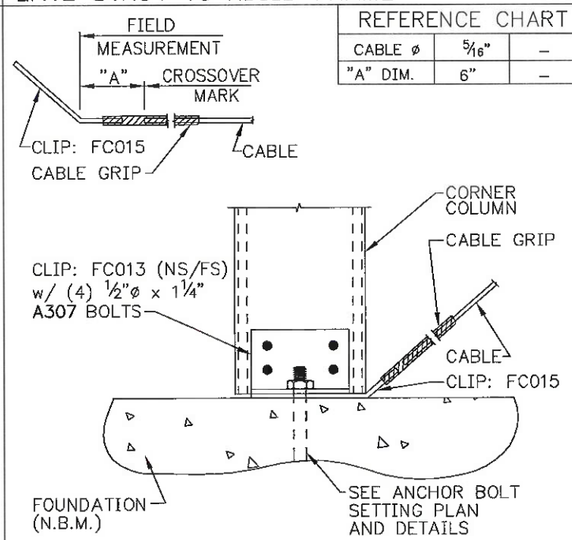
EAVE STRUT TO RIGID FRAME J24



HEADER TO JAMB M4



BRACING AT FRAME MEMBERS Q2

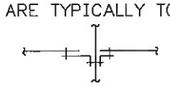


CABLE BRACE DETAIL Q6

REFERENCE CHART		
CABLE ø	5/16"	–
"A" DIM.	6"	–

GENERAL NOTES:

1) ALL BOLTS ARE TO BE ½"ø x 1¼" A307 UNLESS NOTED.
2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
3) ALL DIMENSIONS ARE +/-.
4) MATCH SHOP MARK "⊗" IF SHOWN.
5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.



COLORADO REGISTERED PROFESSIONAL ENGINEER
SALEM G. SALEM
31893
6/24/20

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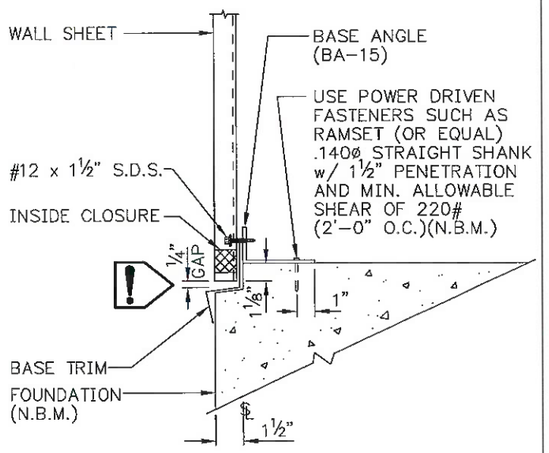
Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

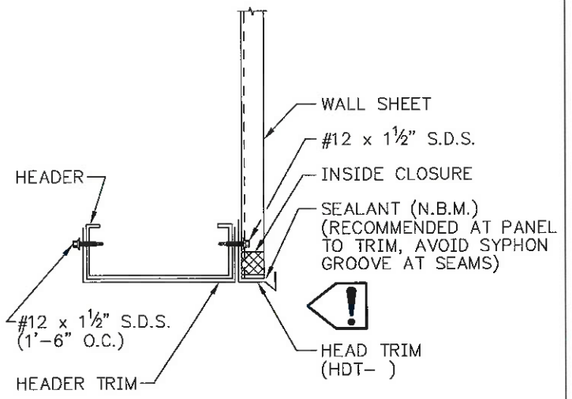
DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG.:
SHEET NO. G3 OF 8

NOTE: ENSURE THAT INSULATION IS NOT EXPOSED!

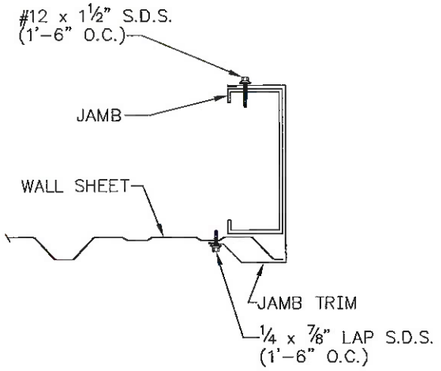


BASE TRIM SECTION TRIM_5

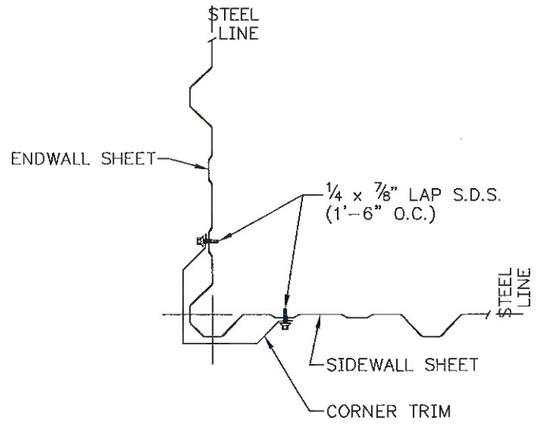
NOTE: ENSURE THAT INSULATION IS NOT EXPOSED!



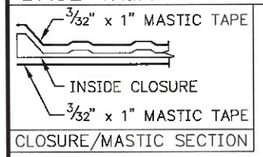
HEADER TRIM TRIM_9



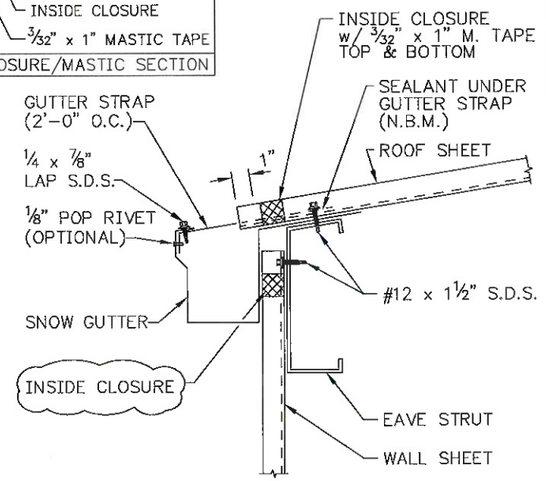
JAMB TRIM TRIM_10



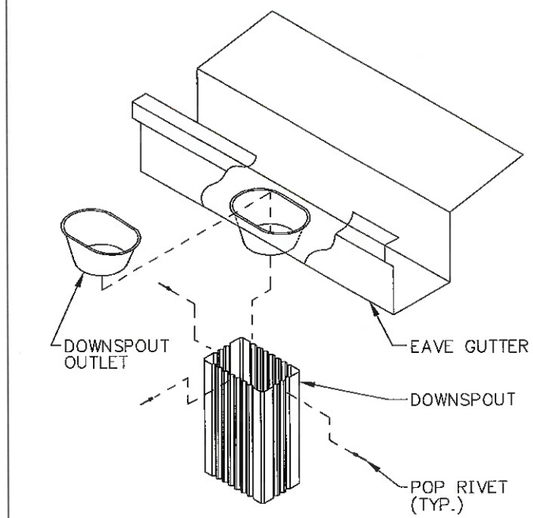
CORNER TRIM SECTION TRIM_30



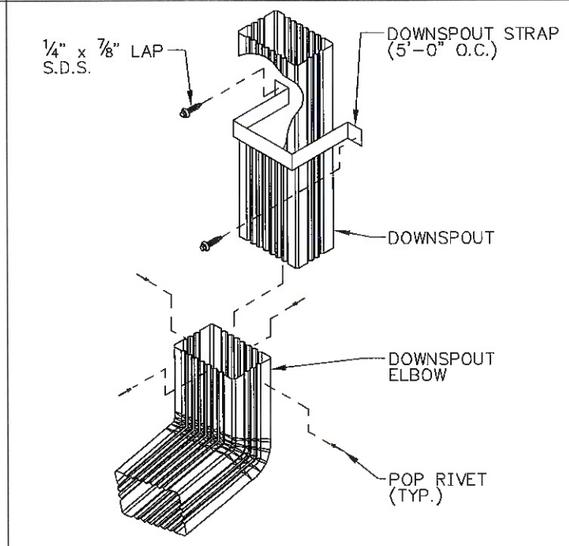
CLOSURE/MASTIC SECTION



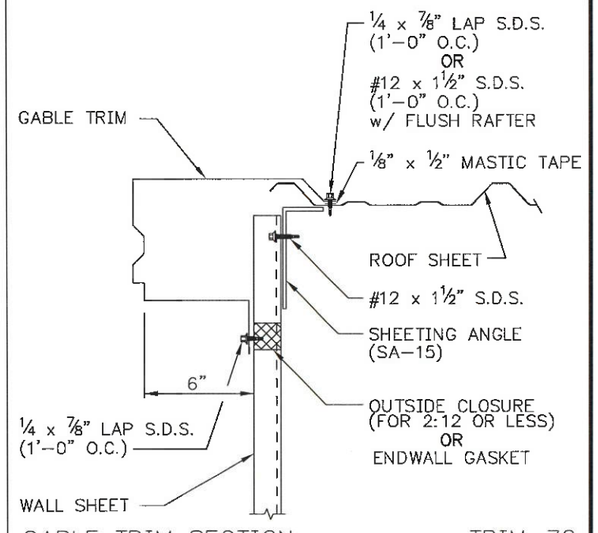
GUTTER SYSTEM SECTION TRIM_61



GUTTER/DOWNSPOUT ASSEMBLY TRIM_64



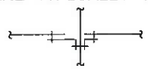
DOWNSPOUT/ELBOW ASSEMBLY TRIM_65



GABLE TRIM SECTION TRIM_72

GENERAL NOTES:

1) ALL BOLTS ARE TO BE ½"ø x 1¼" A307 UNLESS NOTED.
2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
3) ALL DIMENSIONS ARE +/-.
4) MATCH SHOP MARK "⊗" IF SHOWN.
5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.



COLORADO REGISTERED SALEM G. SALEM 31893 PROFESSIONAL ENGINEER
6/24/20

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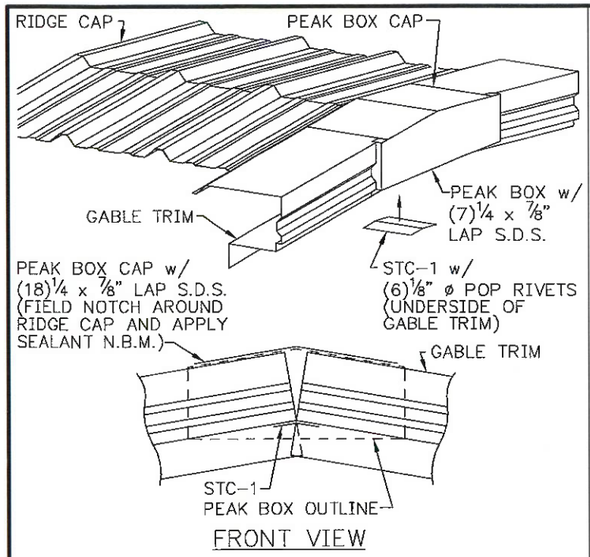
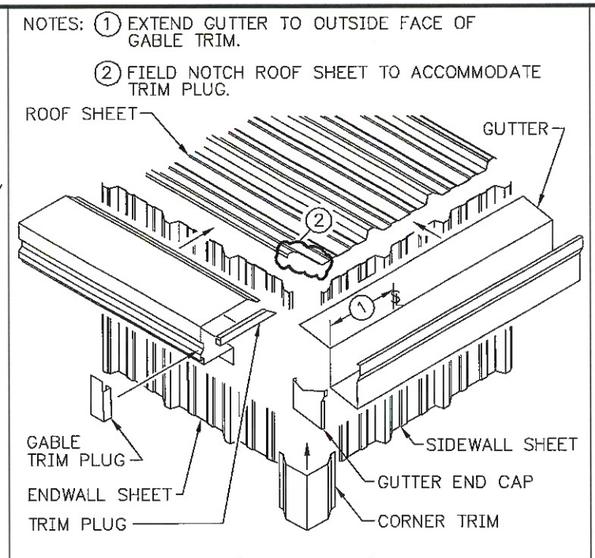
Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

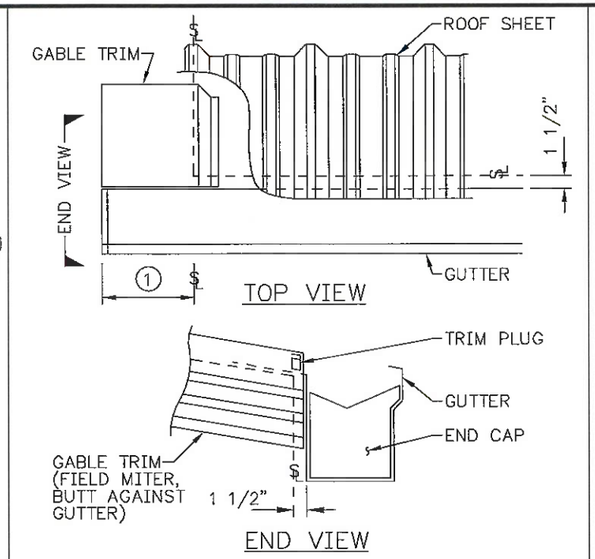
DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG.:
SHEET NO. G4 OF 8



PEAK BOX TRIM_76



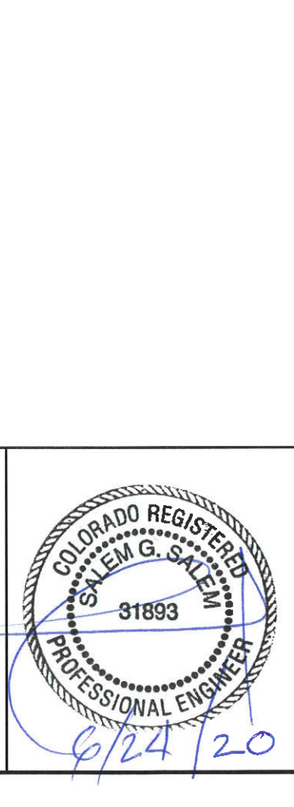
CORNER DETAIL (TOP VIEW) TRIM_84



CORNER DETAIL TRIM_84A

GENERAL NOTES:

1) ALL BOLTS ARE TO BE ½"ø x 1¼" A307 UNLESS NOTED.
2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
3) ALL DIMENSIONS ARE +/−.
4) MATCH SHOP MARK "⊗" IF SHOWN.
5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.



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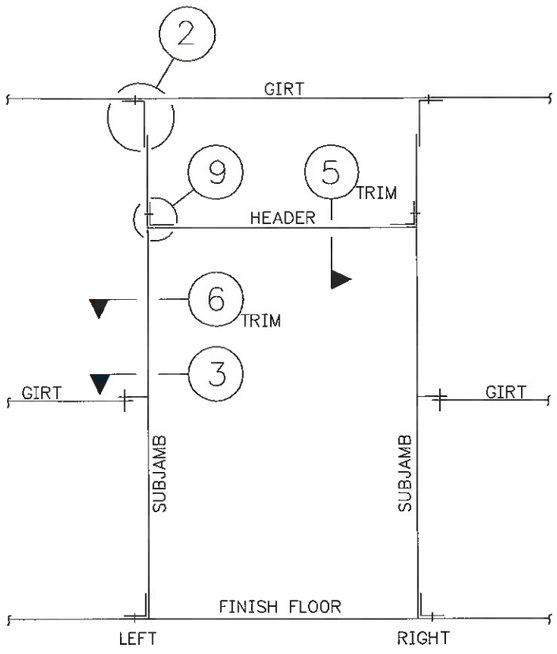
Sunward Steel Buildings

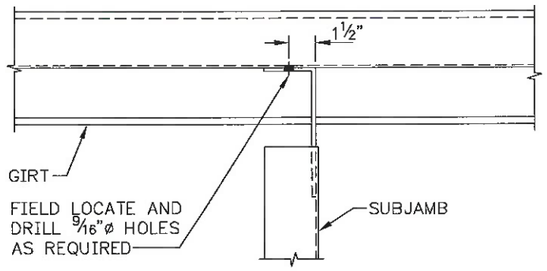
BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C 6/ 9/20
CHECK BY:
DES. ENG. :

SHEET NO. G5 OF 8

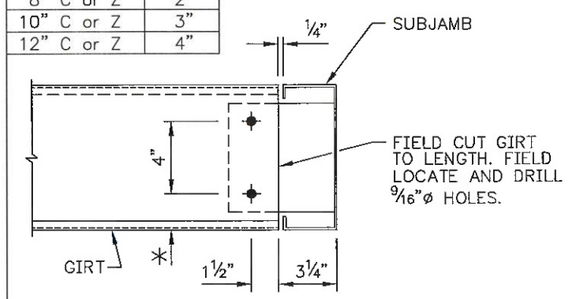


WALKDOOR SUBJAMB TO GIRT | 1



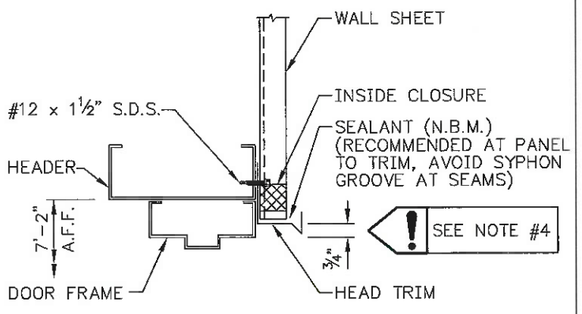
SUBJAMB TO GIRT | 2

GIRT SIZE(S)	* DIM.
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"

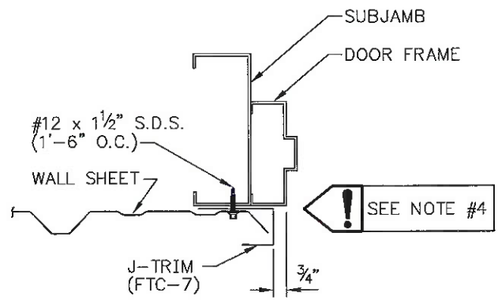


GIRT TO SUBJAMB | 3

4



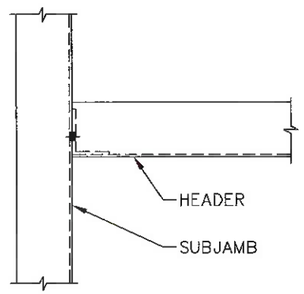
HEADER TRIM | 5



SUBJAMB TRIM | 6

7

8



HEADER TO SUBJAMB | 9

10

11

GENERAL NOTES:

1) ALL BOLTS ARE TO BE ½"ø x 1¼" A307 UNLESS NOTED.
2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
3) ALL DIMENSIONS ARE +/-.
4) ENSURE THAT INSULATION IS NOT EXPOSED!
5) MATCH SHOP MARK "⊗" IF SHOWN.
6) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.

COLORADO REGISTERED PROFESSIONAL ENGINEER
SALEM G. SALEM
31893
6/24/22

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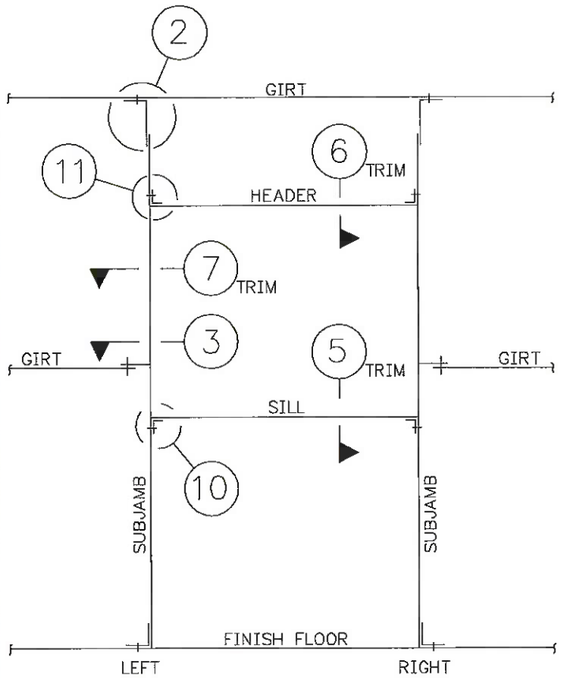
△

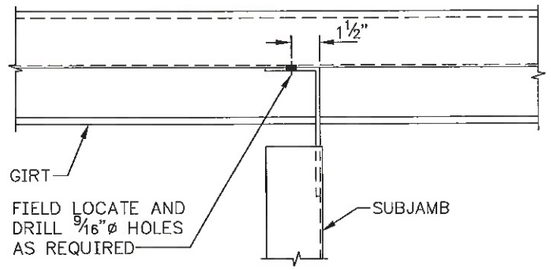
Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C 6/ 9/20
CHECK BY:
DES. ENG.:
SHEET NO. G6 OF 8

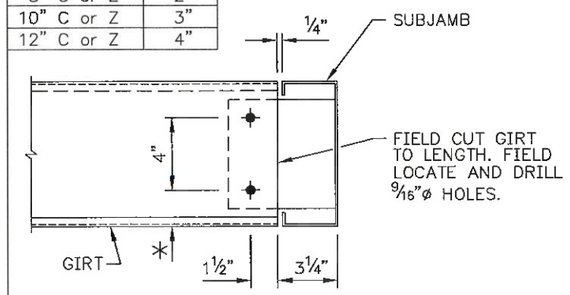


WINDOW SUBJAMB TO GIRT | 1



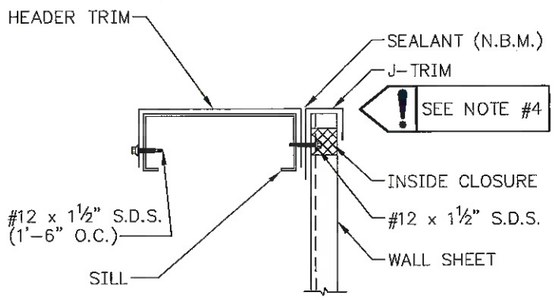
SUBJAMB TO GIRT | 2

GIRT SIZE(S)	* DIM.
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"

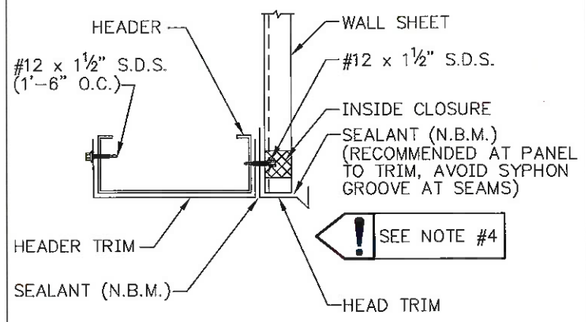


GIRT TO SUBJAMB | 3

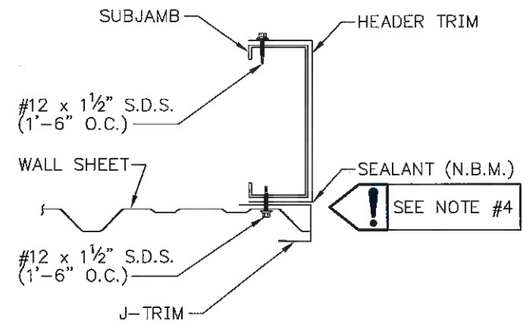
4



SILL TRIM | 5



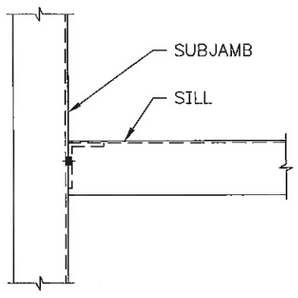
HEADER TRIM | 6



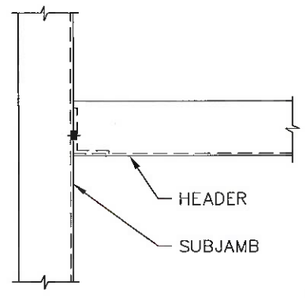
SUBJAMB TRIM | 7

8

9



SILL TO SUBJAMB | 10



HEADER TO SUBJAMB | 11

GENERAL NOTES:

1) ALL BOLTS ARE TO BE ½"ø x 1¼" A307 UNLESS NOTED.
2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
3) ALL DIMENSIONS ARE +/-.
4) ENSURE THAT INSULATION IS NOT EXPOSED!
5) MATCH SHOP MARK "⊗" IF SHOWN.
6) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.

COLORADO REGISTERED
SALEM G. SALEM
31893
PROFESSIONAL ENGINEER
6/24/20

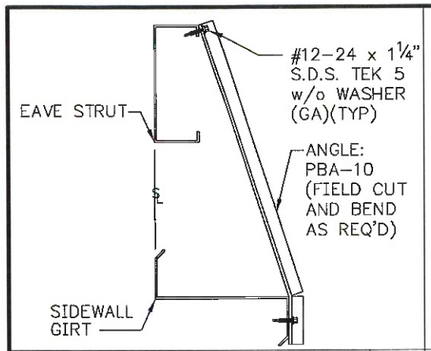
△
△
△

Sunward Steel Buildings

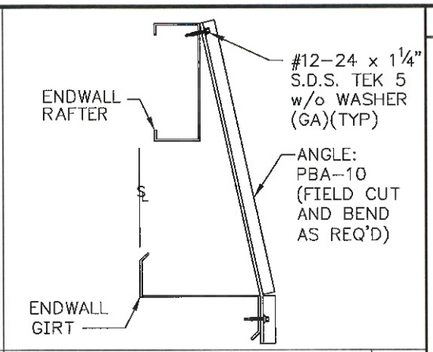
BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG. :

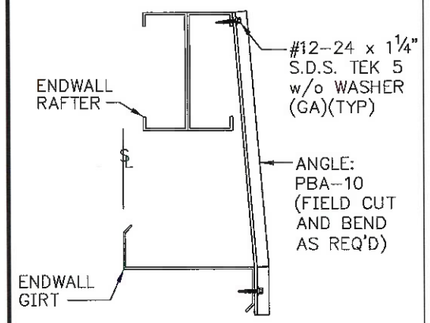
SHEET NO. G7 OF 8



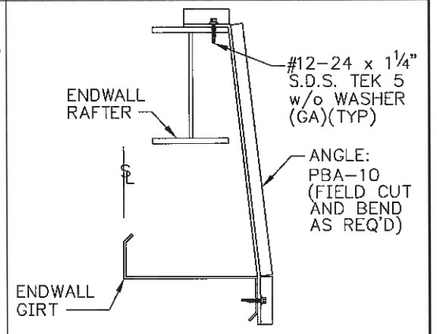
SIDEWALL PBA-10 SECTION | 1



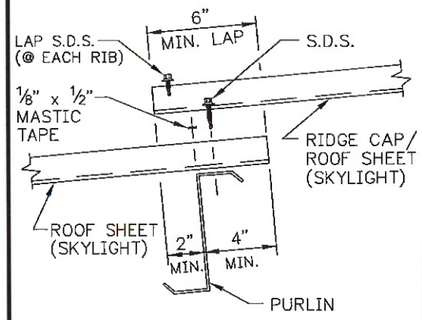
ENDWALL PBA-10 SECTION | 2



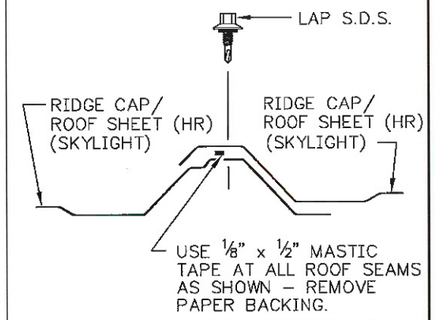
ENDWALL PBA-10 SECTION | 3



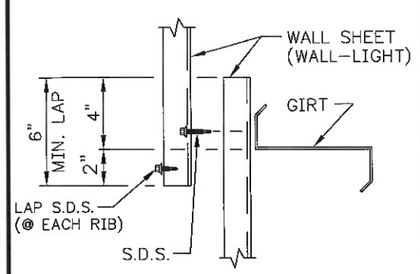
ENDWALL PBA-10 SECTION | 4



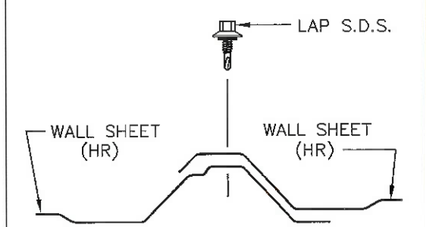
ROOF SHEETING END LAP | 5



ROOF SHEETING SIDE LAP | 6



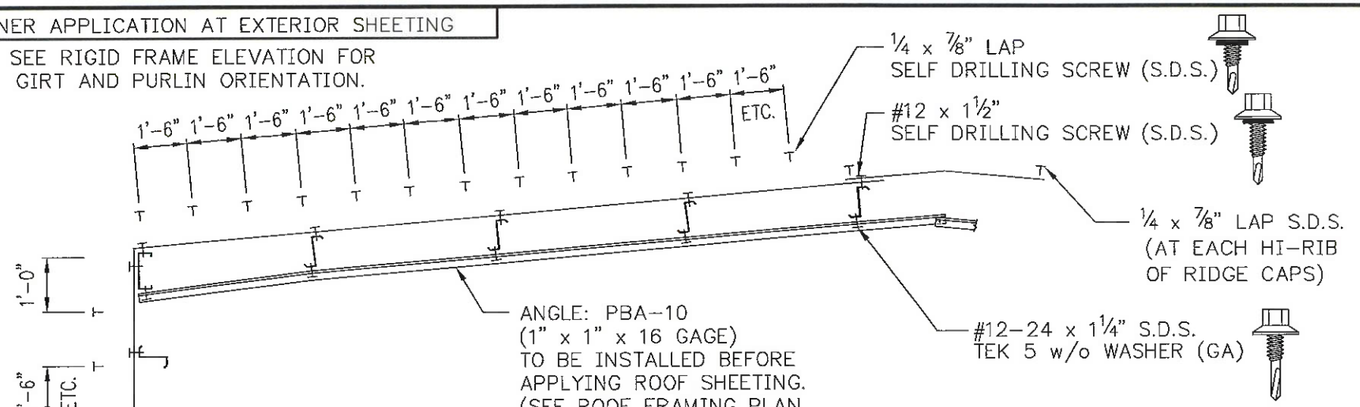
WALL SHEETING END LAP | 7

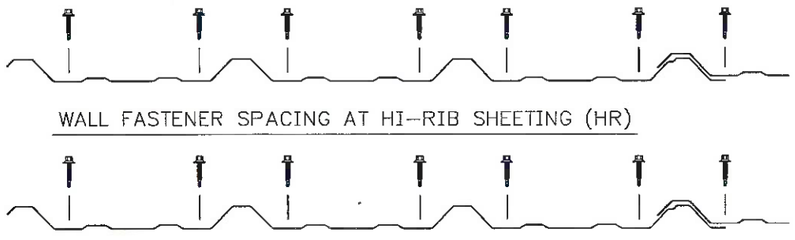


WALL SHEETING SIDE LAP | 8

FASTENER APPLICATION AT EXTERIOR SHEETING

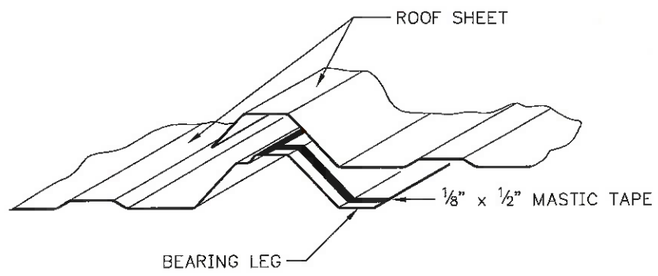
NOTE: SEE RIGID FRAME ELEVATION FOR GIRT AND PURLIN ORIENTATION.





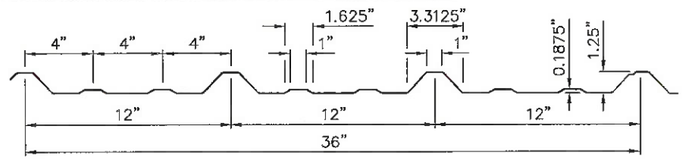
WALL FASTENER SPACING AT HI-RIB SHEETING (HR)

ROOF FASTENER SPACING AT HI-RIB SHEETING (HR)



MASTIC TAPE APPLICATION AT ROOF SHEET EAVES AND RIDGE CAP | 9

HI-RIB PANEL SECTION (TYPE HR) (SEE PAGE A1 FOR GAGE)



GENERAL NOTES:

1) VIEW IS FROM OUTSIDE OF BUILDING (U.N.)
2) ALL DIMENSIONS ARE +/-.
3) SOME DETAILS THAT ARE SHOWN MAY NOT APPLY TO YOUR BUILDING. REFER TO YOUR VERIFICATION FOR THE OPTIONS THAT ARE INCLUDED.
4) FOR INTERIOR SHEETING FASTENER APPLICATION SEE "LINER APPLICATION" PAGES, DO NOT USE THIS PAGE.

INSULATION NOTE:

1) MORE THAN 6" OF FIBERGLASS INSULATION IS NOT RECOMMENDED BETWEEN THE GIRTS/PURLINS AND SHEETING.

COLORADO REGISTERED SALEM G. SALEM 31893 PROFESSIONAL ENGINEER
6/24/20

△
△
△

Sunward Steel Buildings

BUYER : Marty McMullen
CUST. : Marty McMullen
SITE : Colorado Springs, CO
DESCR.: See Elevations
SCALE : NONE
P.O. : B33530

DRAWN BY: R2C
6/ 9/20
CHECK BY:
DES. ENG. :
SHEET NO. G8 OF 8