

GENERAL NOTES

- 1.1 Fabrication shall be in accordance with A.S.C. standard practices in compliance with the applicable sections, relating to design requirements and allowable stresses of the latest edition of the "AWS Structural Welding Code D1.1 and D1.3".
- 1.2

MATERIALS

Hot Rolled Steel Shapes (W, S, C & L)
Steel Pipes
Structural Tubing
Structural Steel Web Plate
Structural Steel Flange Plates/Bars
Cold Formed Light Gage
Roof and Wall Sheets
Cable Brace
Rod Brace

ASTM DESIGNATION
A572
A500
A500
A572/A1011
A529/A572
A653/A1011
A792/A653
A475 – TYPE 1
A36

MIN. YIELD STRENGTH
Fy = 50 KSI
Fy = 42 KSI
Fy = 42 KSI
Fy = 50 KSI
Fy = 50 KSI
Fy = 50, 55 KSI
Fy = 50, 80 KSI
Extra High Strength
Fy = 36 KSI
- Machine Bolts & Nuts
High Strength Bolts (1"Ø and less)
High Strength Bolts (>1"Ø to 1 1/2"Ø)
Anchor Bolts (if supplied)

A307
A325–TYPE 1
A325–TYPE 1
A36/A307/F1554

MIN. TENSILE STRENGTH
Fu = 60 KSI
Fu = 120 KSI
Fu = 105 KSI
Fu = 60 KSI
- 1.3 **PRIMER**
Shop primer paint is a rust inhibitive primer which meets the end performance of Federal Specification SSPC No. 15 and is A.S.C. Gray Oxide color. This paint is not intended for long term exposure to the elements. A.S.C. is not responsible for any deterioration of the shop primer paint as a result of improper handling and/or jobsite storage. A.S.C. shall not be responsible for any field applied paint and/or coatings. (Section 6.5 AISC Code of Standard Practice, 9th Edition). Nominal thickness of primer will be 1 mil unless otherwise specified in contract documents.
- 1.4 **GALVANIZED OR SPECIAL COATINGS:**
See Contract Documents
- 1.5 **ALL BOLTS ARE 1/2"Ø x 0'-1 1/4" A307 EXCEPT :**
a) Endwall rafter splice – 5/8"Ø x 0'-1 3/4" A325–N
b) Endwall column to rafter connection – 5/8"Ø x 0'-1 1/2" A325–N
c) Main frame connections – SEE CROSS SECTION
d) Flange Brace connections – 1/2"Ø x 0'-1 1/4" A325

NOTE: Washers are not supplied unless noted otherwise on drawing
- 1.6 **A325 BOLT TIGHTENING REQUIREMENTS**

All high strength bolts are A325–N unless specifically noted otherwise.

Structural bolts shall be tightened by the turn–of–the–nut method in accordance with the 9th Edition AISC "Specification For Structural Joints " using ASTM A325 or A490 Bolts, when specifically required. A325–N bolts are supplied without washer unless otherwise noted on the drawings.

All bolted connections unless noted are designed as bearing type connections with bolt threads not excluded from the shear plane.
- 1.7 **CLOSURE STRIPS ARE FURNISHED FOR APPLICATION:**
INSIDE– Under roof panels at eave & base
OUTSIDE – Between endwall panels and rake trim
– Under continuous ridge vent skirts
- 1.8 **ERECTION NOTE:**
All bracing, strapping, & bridging shown and provided by A.S.C. for this building is required and shall be installed by the erector as a permanent part of the structure. If additional bracing is required for stability during erection, it shall be the erector's responsibility to determine the amount of such bracing and to procure and install as needed.
- 1.9 **ERECTION AND UNLOADING NOT BY A.S.C.**
- 1.10 **SHORTAGES**
Any claims or shortages by buyer must be made to A.S.C. within five (5) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed.
- 1.11 **CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10)**
Claims for correction of alleged misfits will be disallowed unless A.S.C. shall have received prior notice thereof and allowed reasonable inspection of such misfits. The correction of minor misfits by the use of drift pins to draw the components into line, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim. No part of the Building may be returned for alleged misfits without the prior approval of A.S.C.
- BUYER/END USE CUSTOMER RESPONSIBILITIES
- 2.1 It is the responsibility of the BUYER/END USE CUSTOMER to obtain appropriate approvals and secure necessary permits from City, County, State, or Federal Agencies as required, and to advise/release A.S.C. to fabricate upon receiving such.
- 2.2 Armstrong Steel Corp (hereafter referred to as A.S.C.) standard specifications apply unless stipulated otherwise in the Contract Documents. A.S.C. design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USE CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications.
- 2.3 In case of discrepancies between A.S.C. structural steel plans and plans for other trades, A.S.C. plans shall govern. (Section. 3 AISC Code of Standard Practices, 9th Edition)
- 2.4 Approval of A.S.C. drawings and calculations indicates that A.S.C. has correctly interpreted and applied the Contract Documents. This approval constitutes the contractor/owners acceptance of the A.S.C. design concepts, assumptions, and loading. (Section 4 AISC Code and MBMA 3.3.3)
- 2.5 Once the BUYER/END USE CUSTOMER has signed A.S.C. Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/END USE CUSTOMER including material, engineering and other costs. An additional fee may be charged if the project must be moved from the fabrication and shipping schedule.



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

JOB NO. : 53774R1

CUSTOMER : RUVIN LERMAN

END USER : RUVIN LERMAN

END USE : GARAGE

LOCATION : 2984 BLACK CANYON RD

: CRAWFORD, CO 81415

: MONTROSE COUNTY

PH. NO. : 907–868–2828 EMAIL: RLERMAN@MTA–TELCO.COM

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

DESIGN LOADS:

Design Code / Wind Code : IBC–12
Building Risk Category : II – Normal
Enclosure : Closed
Dead Load (psf) : 2.00
Collateral Load (psf) : 1.00

Wind Load
Ultimate Wind Speed, (Vult) : 115.00
Wind Exposure : C
Internal Pressure Coefficient, GCpi : 0.18/–0.18
Wall Panel Design Wind Pressure : 30.9/–33.5
Live Load
Primary Framing (psf) : 20.00
Trib. Area Reduction : No
Secondary Framing (psf) : 20.00
Snow Load
Ground Snow Load, Pg (psf) : 75.00
Roof Snow Load, Pf (psf) : 59.07
Sloped Roof Snow Load, Ps (psf) : 59.07
Snow Exposure Factor, Ce : 1.00
Snow Importance Factor, Is : 1.00
Thermal Factor, Ct : 1.20
Sloped Factor, Cs : 0.94

Seismic Load
Seismic Importance Factor, Ie : 1.00
Site Class : D
Mapped Spectral Response Acceleration : Ss = 0.332 :S1 = 0.085
Spectral Response Coefficients : Sds = 0.340 :Sd1 = 0.136
Seismic Design Category : C
Basic Force Resisting Systems Used : Steel System Not Specifically Detailed For Resistance

Total Design Base Shear, V (kips)
: Longitudinal = 5.48
: Transverse = 5.58

Response Modification Factors, R : Rigid Frames = 3.00 Ω = 3.00
: SW X–Bracing = 3.00 Ω = 2.00

Seismic Response Coefficient, Cs : Rigid Frames = 0.1133
: SW X–Bracing = 0.1133

Analysis Procedure Used : Equivalent Lateral Force Procedure
Other Loads/Requirements

BUILDING DESCRIPTION:

Width (ft) : 44
Length (ft) : 60
Eave Ht. at BSW (ft) : 17.5
Eave Ht. at FSW (ft) : 17.5
Roof Slope at BSW : 4.0:12
Roof Slope at FSW : 4.0:12
Bay Spacing (ft) : 2 at 19.5, 1 at 21

COVERING AND TRIMS:

Roof Panels & Trims

Panel Type : 26 Ga. PR
Panel Color : Colony Green
Trim Colors
Gable/Eave Trim: Fern Green
Eave Gutter : Fern Green

Wall Panel & Trims

Panel Type : 26 Ga. PR
Panel Color : Light Stone
Trim Colors
Corner Trims : Fern Green
Opening Trims : Fern Green
Downspouts : Fern Green
Base Trim : Fern Green

Insulation

Roof Insulation : NONE
Wall Insulation : NONE

Drawing Index

Drawing Name	Page(s)
Drawing Cover	---
3D Reference	3D Ref.
Anchor Bolt Plan	1
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Roof Plan	9
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SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT ARMSTRONG STEEL ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY A.S.C. IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN ARMSTRONG ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

2.6 The BUYER/END USE CUSTOMER is responsible for overall project coordination. All interface, compatibility, and design considerations concerning any materials not furnished by A.S.C. and A.S.C. steel system are to be considered and coordinated by the BUYER/END USE CUSTOMER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or A.S.C. assumptions will govern (Section 4 and Commentary, AISC Code of Standard Practice, 9th Edition)

2.7 It is the responsibility of the BUYER/END USE CUSTOMER to insure that A.S.C. plans comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that A.S.C. or its design engineers are acting as the engineer of record or design professional for a construction project. These drawings are sealed only to certify the design of the structural components furnished by A.S.C.

2.8 The BUYER/END USE CUSTOMER is responsible for setting of anchor bolts and erection of steel in accordance with A.S.C. "For Construction" drawings only. Temporary supports such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined furnished and installed by the erector. No items should be purchased from a preliminary set of drawings, including anchor bolts. Use only final "FOR CONSTRUCTION DRAWINGS" for this use. (Section 7 AISC Code of Standard Practice, 9th Edition.)

2.9 Armstrong Steel Corp is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing and tension, but is not responsible for the transfer of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the concrete. Unless otherwise provided in the Order Documents, A.S.C. does not design and is not responsible for the design, material and construction of the foundation or foundation embedments. The END USE CUSTOMER should assure himself that adequate provisions are made in the foundation design for loads imposed by column reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the building site. It is recommended that the anchorage and foundation of the building be designed by a Registered Professional Engineer experienced in the design of such structures. (Section A10 1996 MBMA Low Rise Building Systems Manual)

2.10 Normal erection operations include the corrections of minor misfits by moderate amounts of reaming, chipping, welding or cutting, and the drawing of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member configuration are to be reported immediately to A.S.C. by the BUYER/END USE CUSTOMER, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others. (Section 7 AISC Code of Standard Practice, 9th Edition)

2.11 Neither the fabricator nor the BUYER/END USE CUSTOMER will cut, drill or otherwise alter his work, or the work of other trades, to accommodate other trades, unless such work is clearly specified in the contract documents. Whenever such work is specified, the BUYER/END USE CUSTOMER is responsible for furnishing complete information as to materials, sized location and number of alterations prior to preparation of shop drawings. (Section 7 AISC Code of Standard Practice, 9th Edition)

2.12 **WARNING** In no case should Galvalume steel panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels. Even run-off from copper flashing, wiring, or tubing onto Galvalume should be avoided.

2.13 **SAFETY COMMITMENT** Armstrong Steel Corp has a commitment to manufacture quality building components that can be safely erected. However, the safety commitment and job site practices of the erector are beyond the control of A.S.C. It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Local, State, and Federal safety and health standards should always be followed to help insure workers safety. Make certain all employees know the safest and most productive way of erecting a building. Emergency procedures should be known to all employees. Daily meetings highlighting safety procedures are also recommended. The use of hard hats, rubber sole shoes for roof work, proper equipment for handling material, and safety nets where applicable, are recommended.

2.14 Roof drainage systems (gutter, downspouts, etc.) must be free of any obstruction to ensure smooth operation at any given time.

2.15 It is recommended by Factory Mutual (Reference: B2.44) that roofs be cleared of snow when half of the maximum snow depth is reached. The maximum snow depth can be estimated based on the design snow load and the density of snow and/or ice buildup. See Chart below.

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

NOTE:
For Snow/Ice Removal Procedure, Refer to Metal Building System Manual 2002 Edition, Section A8.4, Page XI–A8–2,

Drawing Status

☐ **APPROVAL:** ☐ **REVISED APPROVAL:**

These drawings are conceptual only and are not to be used for the permit or construction process.

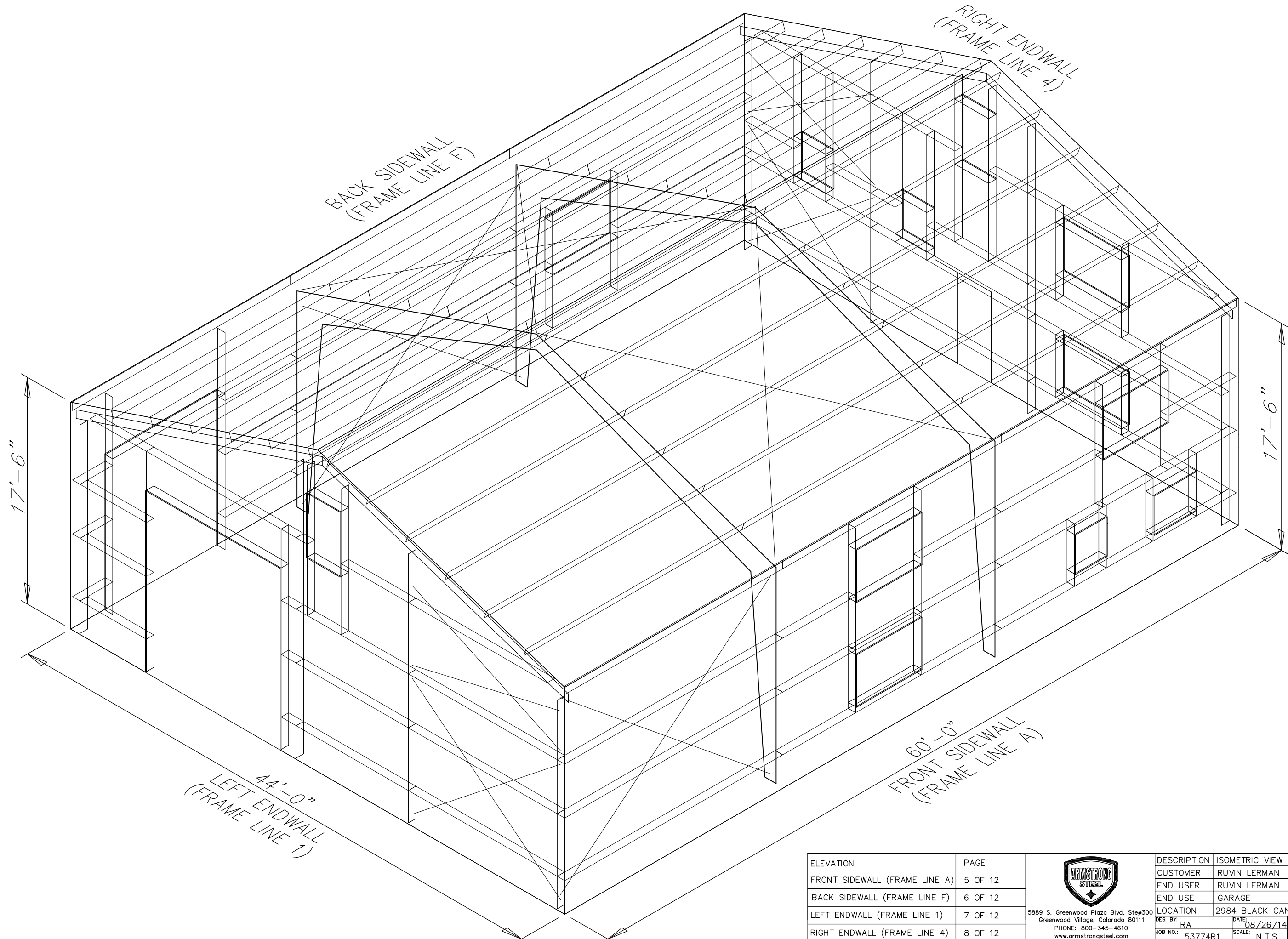
☐ **PERMIT:** ☐ **REVISED PERMIT:**

These drawings are Final and are for review by the building official or others. This set is not intended for construction as piece marks and dimensions have not been finalized.

☒ **CONSTRUCTION:**

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

JOB NO : 53774R1 RUVIN LERMAN

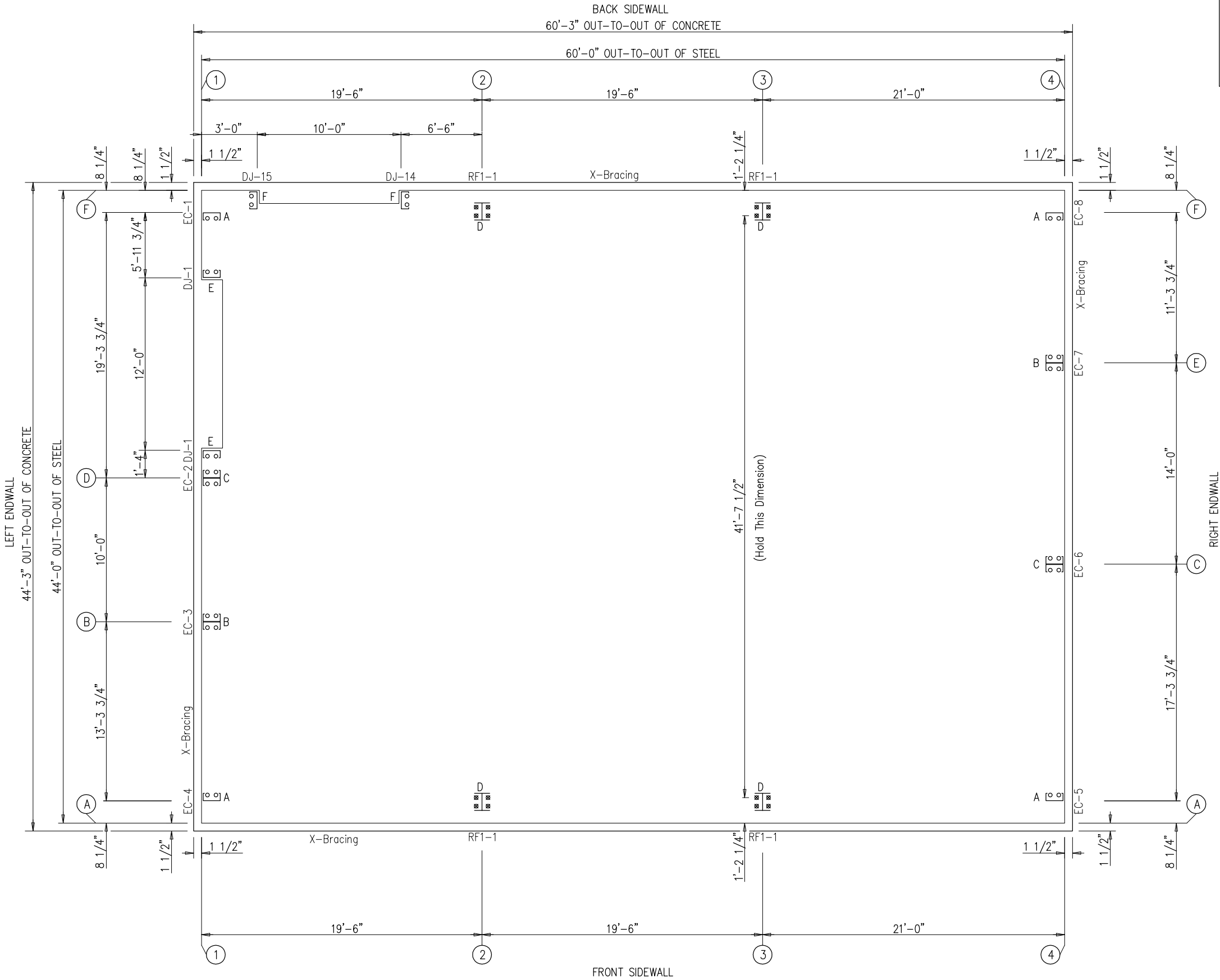


ELEVATION	PAGE
FRONT SIDEWALL (FRAME LINE A)	5 OF 12
BACK SIDEWALL (FRAME LINE F)	6 OF 12
LEFT ENDWALL (FRAME LINE 1)	7 OF 12
RIGHT ENDWALL (FRAME LINE 4)	8 OF 12



5889 S. Greenwood Plaza Blvd, Ste#300
Greenwood Village, Colorado 80111
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DESCRIPTION	ISOMETRIC VIEW			
CUSTOMER	RUVIN LERMAN			
END USER	RUVIN LERMAN			
END USE	GARAGE			
LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415			
DES. BY: RA	DATE: 08/26/14	ENG. BY: RA	DATE: 08/26/14	
JOB NO.: 53774R1	SCALE: N.T.S.	DWG. NO.: 3D REFERENCE	ISSUE: 0	

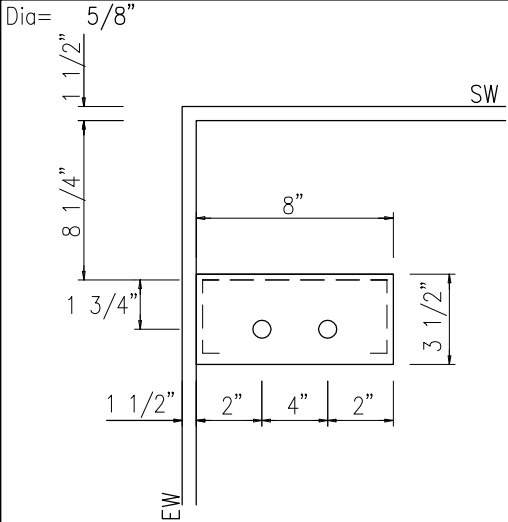


ANCHOR BOLT SUMMARY

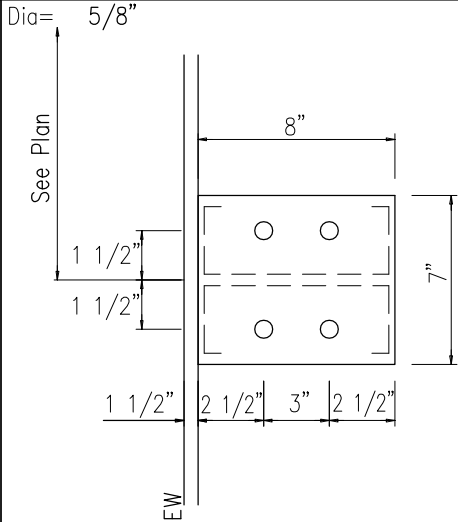
Qty	Locate	Dia (in)	Type
○ 8	Jamb	5/8"	
○ 24	Endwall	5/8"	A307
⊗ 16	Frame	3/4"	A307

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

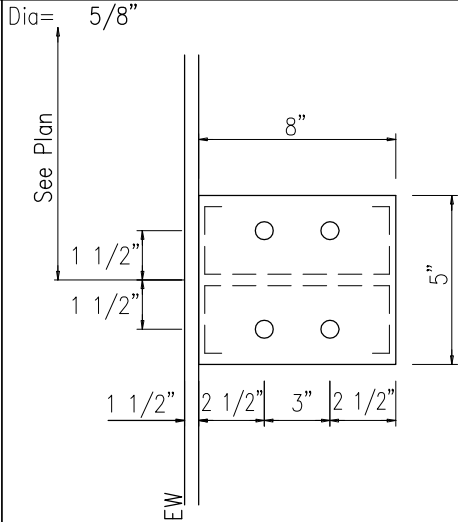
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.		DESCRIPTION	ANCHOR BOLT PLAN		
A	APPROVAL	05.17.14	CR	SRB	RA		CUSTOMER	RUVIN LERMAN		
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA		END USER	RUVIN LERMAN		
P	PERMIT	07.15.14	CBR	RS	RA		END USE	GARAGE		
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA		LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415		
P2	REVISED PERMIT	08.29.14	DB	TSP	RA	5889 S. Greenwood Plaza Blvd, Ste#300 Greenwood Village, Colorado 80111 PHONE: 800-345-4610 www.armstrongsteel.com	DES. BY: RA	DATE: 08/26/14	ENG. BY: RA	DATE: 08/26/14
O	CONSTRUCTION	03.11.15	DB	SH	RA		JOB NO.: 53774R1	SCALE: N.T.S.	DWG. NO.: 1 OF 12	ISSUE: 0



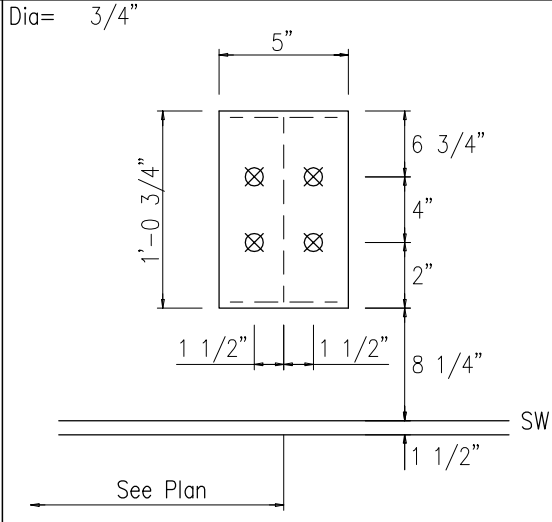
DETAIL A



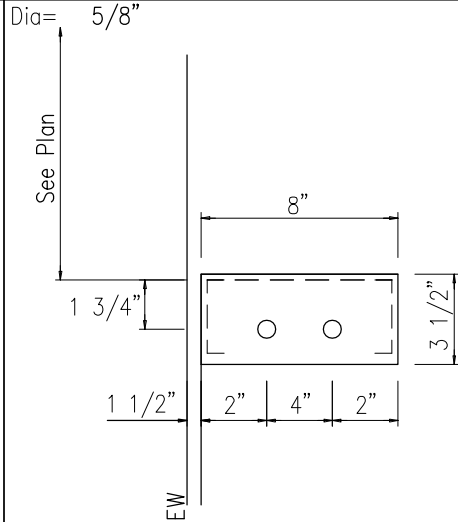
DETAIL B



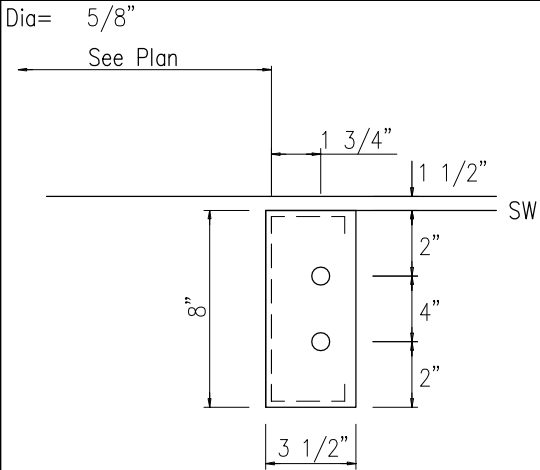
DETAIL C



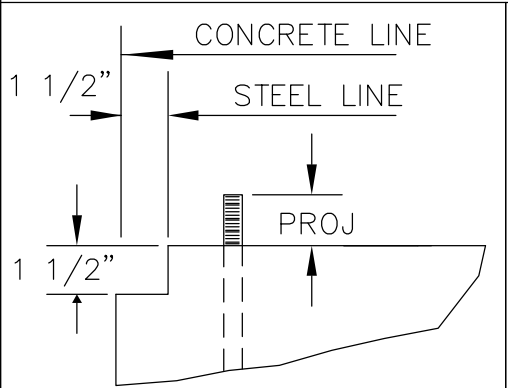
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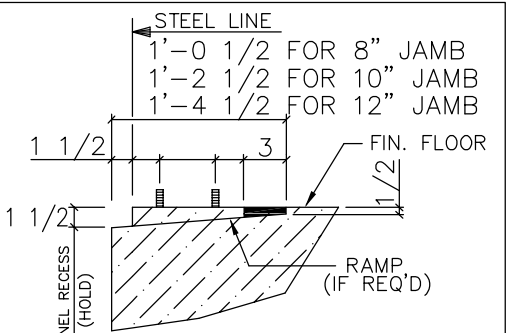
DETAIL E



DETAIL F



CONCRETE NOTCH AND ANCHOR BOLT PROJECTION



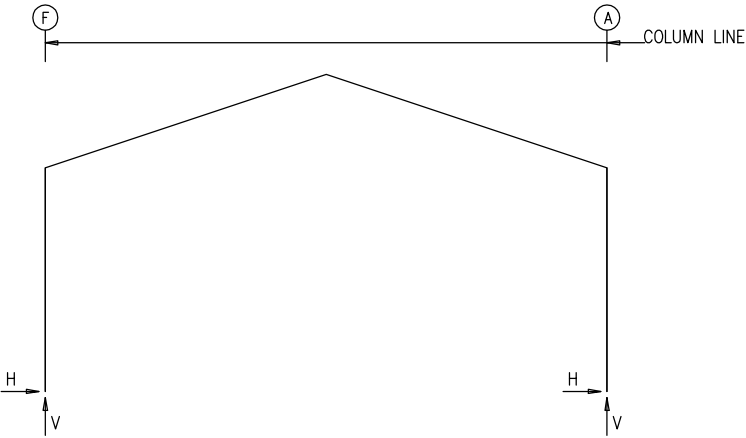
CONCRETE NOTCH DETAIL AT OVERHEAD DOOR

ANCHOR BOLT DIAMETERS HAVE BEEN DESIGNED BY THE METAL BUILDING MANUFACTURER BASED ON AISC METHOD WITH COMBINED SHEAR AND TENSION.	
DEVELOPMENT, EMBEDMENT AND HOOK LENGTH OF ANCHOR BOLTS IN THE CONCRETE ARE DESIGN RESPONSIBILITY OF OTHERS. ALSO DESIGN OF SHEAR ANGLES, TENSION PLATES, HAIRPINS, AND ANY OTHER EMBEDDED MATERIAL IN THE CONCRETE SHALL BE DESIGNED AND PROVIDED BY OTHERS.	
NOTE: ANCHOR BOLT PROJECTION IS FROM BOTTOM OF BASE PLATE.	

ANCHOR BOLT PROJECTION		DIA.	PROJ
	*	1/2"	1 1/2"
	*	5/8"	2"
	*	3/4"	2 1/2"
	*	7/8"	3 1/2"
	*	1"	3 1/2"
	*	1 1/8"	3 1/2"
ANCHOR BOLTS (BY OTHERS)		1 1/4"	3 1/2"

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
A	APPROVAL	05.17.14	CR	SRB	RA
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA
P	PERMIT	07.15.14	CBR	RS	RA
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA
P2	REVISED PERMIT	08.29.14	DB	TSP	RA
O	CONSTRUCTION	03.11.15	DB	SH	RA

		DESCRIPTION		ANCHOR BOLT DETAILS	
5889 S. Greenwood Plaza Blvd, Ste#300 Greenwood Village, Colorado 80111 PHONE: 800-345-4610 www.armstrongsteel.com		CUSTOMER		RUVIN LERMAN	
		END USER		RUVIN LERMAN	
		END USE		GARAGE	
		LOCATION		2984 BLACK CANYON RD, CRAWFORD, CO 81415	
		DES. BY:	RA	DATE:	08/26/14
		JOB NO.:	53774R1	SCALE:	N.T.S.
		ENG. BY:	RA	DATE:	08/26/14
		DWG. NO.:	2 OF 12	ISSUE:	0



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load ID	Column Reactions (k)				Anc. Bolt Qty	Dia	Base_Plate (in)		Thick	Grout (in)
			Hmax H	V Vmax	Load ID	Hmin H			Width	Length		
2*	F	1	10.6	28.5	2	-3.7	4	0.750	5.000	12.75	0.500	0.0
					4	0.9						
2*	A	3	3.7	-3.0	1	-10.6	4	0.750	5.000	12.75	0.500	0.0
		1	-10.6	28.5	5	-0.9						
2*	Frame lines:		2	3								

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	44.0
Length (ft)	=	60.0
Eave Height (ft)	=	17.5/17.5
Roof Slope (rise/12)	=	4.0/4.0
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	1.0
Live Load (psf)	=	20.0
Snow Load (psf)	=	59.1
Ultimate Wind Speed (Vult)	=	115.0
Wind Code	=	IBC-12
Exposure	=	C
Closed/Open	=	C
Importance Wind	=	1.0
Importance Seismic	=	1.0
Seismic Zone	=	C
Seismic Coeff (Fa*Ss)	=	0.51

ID	Description
1	Dead+Collateral+Snow+Slide_Snow
2	0.6Dead+0.6Wind_Left2
3	0.6Dead+0.6Wind_Right2
4	0.6Dead+0.6Wind_Long1
5	0.6Dead+0.6Wind_Long2
6	0.6Dead+0.6Wind_Suction+0.6Wind_Long1
7	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1
8	Dead+Collateral+E1UNB_SL_L
9	0.6Dead+0.6Wind_Left2+0.6Wind_Suction
10	0.6Dead+0.6Wind_Suction+0.6Wind_Long2
11	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2
12	Dead+Collateral+E1UNB_SL_R
13	0.6Dead+0.6Wind_Right2+0.6Wind_Suction
14	Dead+Collateral+0.75Snow+0.45Wind_Suction+0.75Slide_Snow
15	Dead+Collateral+E2UNB_SL_L
16	Dead+Collateral+E2UNB_SL_R

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type
○ 8	Jamb	5/8"	A307
○ 24	Endwall	5/8"	A307
⊗ 16	Frame	3/4"	A307

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead		Collateral		Live		Snow		Wind_Left1		Wind_Right1	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	F	0.5	1.7	0.2	0.5	3.4	8.9	9.9	26.3	-6.3	-10.9	1.5	-6.7
2*	A	-0.5	1.7	-0.2	0.5	-3.4	8.9	-9.9	26.3	-1.5	-6.7	6.3	-10.9
Frame Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	F	-6.7	-6.7	1.1	-2.5	1.0	-12.6	-0.3	-11.9	-0.9	-0.7	0.9	0.7
2*	A	-1.1	-2.5	6.7	-6.7	0.3	-11.9	-1.0	-12.7	-0.9	0.7	0.9	-0.7
Frame Line	Column Line	Seismic_Long		F1UNB_SL_L		F1UNB_SL_R							
		Horiz	Vert	Horiz	Vert	Horiz	Vert						
2*	F	0.0	-2.2	8.0	25.1	8.1	14.8						
2*	A	0.0	-2.2	-8.1	14.8	-8.0	25.1						

2* Frame lines: 2 3

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1		Wind_Left2		Wind_Right2		Wind Press Horiz
						Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	
1	F	0.4	0.1	1.7	4.9	0.0	-2.4	0.0	-2.5	0.0	-2.4	0.0	-2.5	-2.1
1	D	1.0	0.2	3.8	11.2	0.0	-5.5	0.0	-2.7	0.0	-5.5	0.0	-2.7	-4.1
1	B	0.6	0.1	2.1	6.1	2.2	-5.2	0.0	-0.6	2.2	-5.2	0.0	-0.6	-3.0
1	A	0.3	0.1	1.2	3.7	0.0	2.1	2.2	-5.1	0.0	2.1	2.2	-5.1	-1.5
Frm Line	Col Line	Wind Suct Horiz	Wind_Long1		Wind_Long2		Seis_Left		Seis_Right		E1UNB_SL_L		E1UNB_SL_R	
			Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	F	2.3	0.0	-3.1	0.0	-1.7	0.0	0.1	0.0	-0.1	0.0	5.1	0.0	1.4
1	D	4.5	0.0	-5.3	0.0	-3.4	0.0	-0.2	0.0	0.2	0.0	13.3	0.0	5.1
1	B	3.3	0.0	0.1	1.0	-5.8	1.0	-1.7	0.0	1.4	0.0	-0.3	0.0	9.7
1	A	1.7	1.0	-3.0	0.0	-0.3	0.0	1.8	1.0	-1.5	0.0	1.4	0.0	3.3
Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1		Wind_Left2		Wind_Right2		Wind Press Horiz
						Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	
4	A	0.4	0.1	1.6	4.7	0.0	-2.2	0.0	-2.5	0.0	-2.2	0.0	-2.5	-1.9
4	C	1.0	0.2	4.0	11.9	0.0	-5.6	0.0	-3.1	0.0	-5.6	0.0	-3.1	-4.3
4	E	0.7	0.1	2.7	8.1	2.4	-6.8	0.0	-0.5	2.4	-6.8	0.0	-0.5	-3.1
4	F	0.3	0.1	1.1	3.1	0.0	3.1	2.4	-5.6	0.0	3.1	2.4	-5.6	-1.3
Frm Line	Col Line	Wind Suct Horiz	Wind_Long1		Wind_Long2		Seis_Left		Seis_Right		E2UNB_SL_L		E2UNB_SL_R	
			Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
4	A	2.1	0.0	-3.0	0.0	-1.6	0.0	0.1	0.0	-0.1	0.0	4.9	0.0	1.2
4	C	4.7	0.0	-5.5	0.0	-3.9	0.0	-0.2	0.0	0.2	0.0	13.4	0.0	6.2
4	E	3.4	0.0	-0.4	1.1	-6.9	1.0	-2.1	0.0	1.7	0.0	1.6	0.0	11.1
4	F	1.5	1.1	-3.2	0.0	0.4	0.0	2.2	1.0	-1.8	0.0	1.2	0.0	2.6

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column Reactions (k)						Anc. Qty	Bolt Dia	Base_Plate (in)			Grout (in)
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin			Width	Length	Thick	
1	F	6	1.4	-1.6	7	-1.2	-1.6	2	0.625	3.500	8.000	0.375	0.0
		8	0.0	5.6	6	1.4	-1.6						
1	D	9	2.7	-2.7	7	-2.5	-2.6	4	0.625	5.000	8.000	0.375	0.0
		8	0.0	14.5	9	2.7	-2.7						
1	B	10	2.0	-3.1	11	-1.8	-3.1	4	0.625	7.000	8.000	0.375	0.0
		12	0.0	10.4	10	2.0	-3.1						
1	A	13	1.0	-2.9	7	-0.9	-1.6	2	0.625	3.500	8.000	0.375	0.0
		14	0.8	4.1	13	1.0	-2.9						
4	A	6	1.3	-1.6	7	-1.1	-1.6	2	0.625	3.500	8.000	0.375	0.0
		15	0.0	5.3	6	1.3	-1.6						
4	C	9	2.8	-2.8	7	-2.6	-2.7	4	0.625	5.000	8.000	0.375	0.0
		15	0.0	14.6	9	2.8	-2.8						
4	E	10	2.1	-3.7	11	-1.9	-3.7	4	0.625	7.000	8.000	0.375	0.0
		16	0.0	11.9	10	2.1	-3.7						
4	F	13	0.9	-3.2	7	-0.8	-1.8	2	0.625	3.500	8.000	0.375	0.0
		14	0.7	4.0	13	0.9	-3.2						

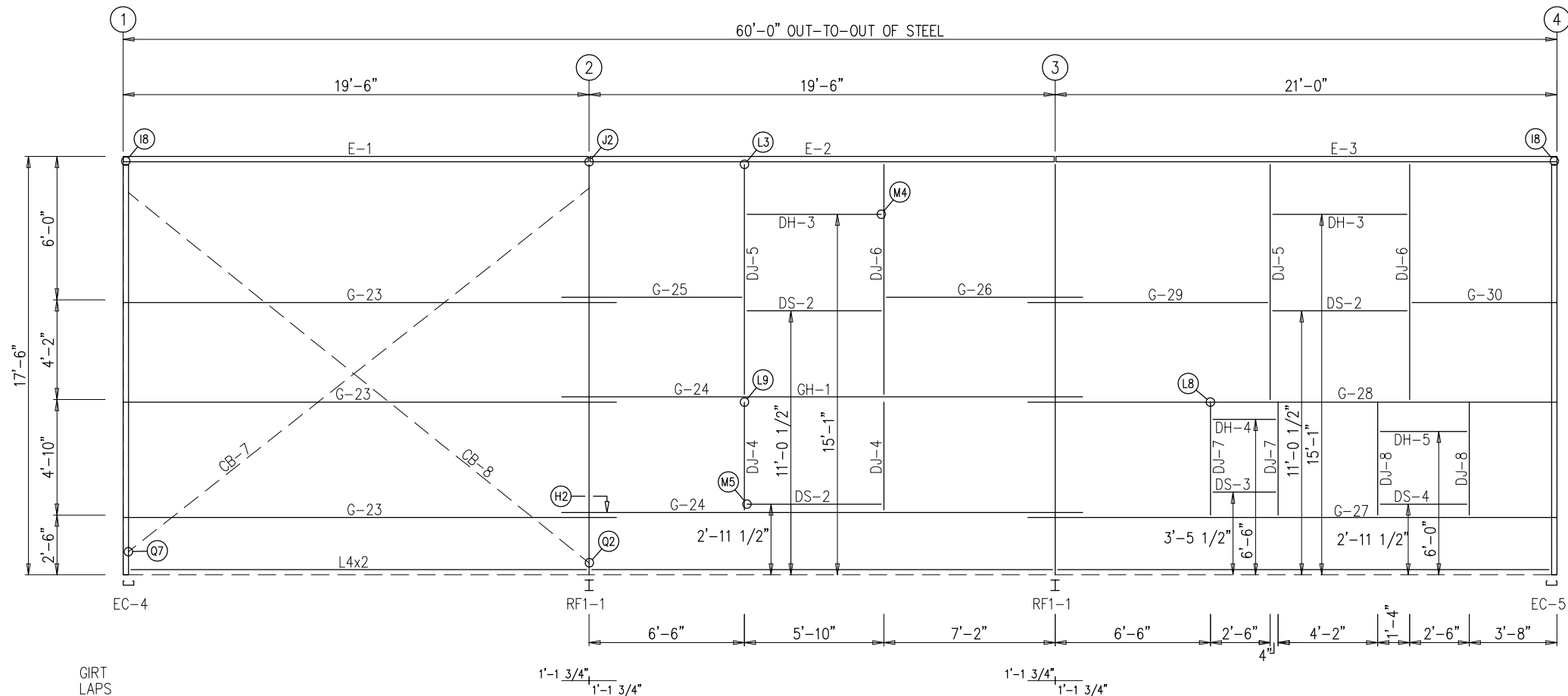
BUILDING BRACING REACTIONS

Wall Loc	Line	Col Line	± Reactions (k)				Panel Shear (lb/ft)	
			Wind Horiz	Wind Vert	Seismic Horiz	Seismic Vert	Wind	Seis
L_EW	1	B,A	2.2	3.4	1.0	1.5		
F_SW	A	1,2	5.0	4.0	2.7	2.2		
R_EW	4	E,F	2.4	4.2	1.0	1.8		
B_SW	F	3,2	5.0	4.0	2.7	2.2		

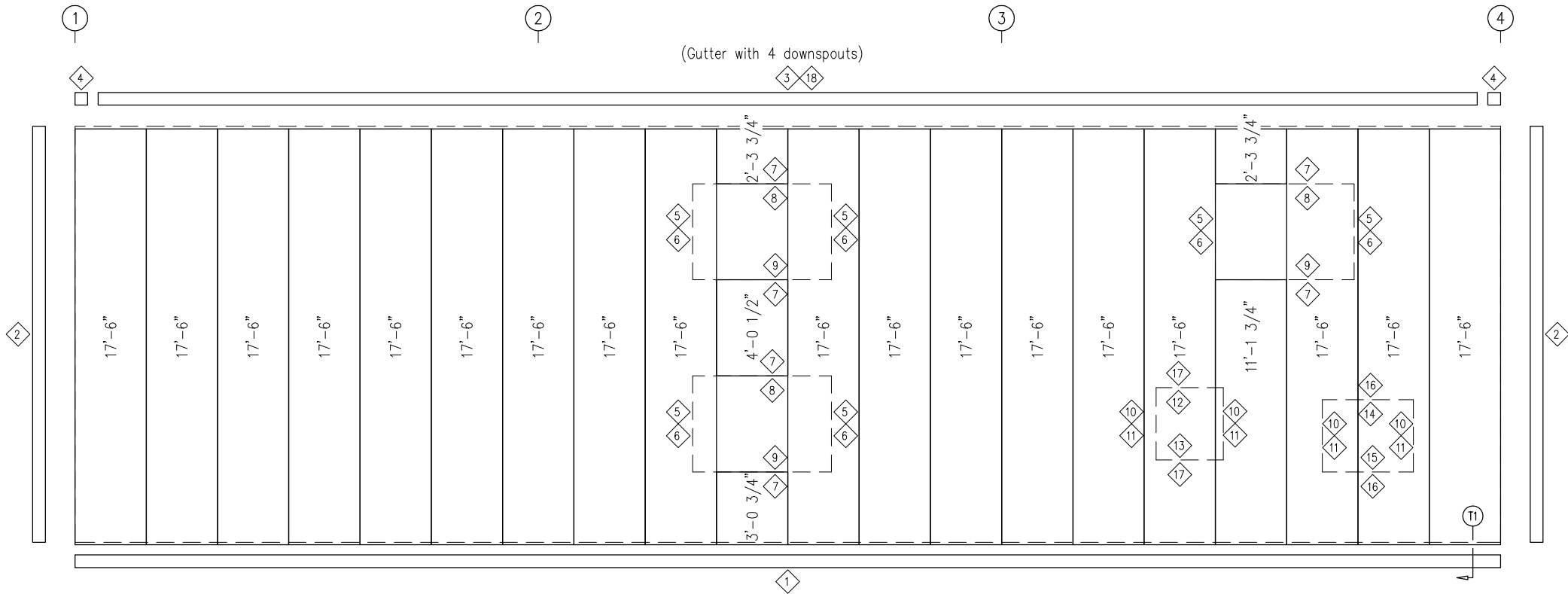
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	 5889 S. Greenwood Plaza Blvd, Ste#300 Greenwood Village, Colorado 80111 PHONE: 800-345-4610 www.armstrongsteel.com	DESCRIPTION	ANCHOR BOLT REACTIONS	
A	APPROVAL	05.17.14	CR	SRB	RA		CUSTOMER	RUVIN LERMAN	
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA		END USER	RUVIN LERMAN	
P	PERMIT	07.15.14	CBR	RS	RA		END USE	GARAGE	
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA		LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415	
P2	REVISED PERMIT	08.29.14	DB	TSP	RA	DES. BY: RA JOB NO.: 53774R1	DATE: 08/26/14	ENG. BY: RA	DATE: 08/26/14
O	CONSTRUCTION	03.11.15	DB	SH	RA		SCALE: N.T.S.	DWG. NO.: 3 OF 12	ISSUE: 0

▽ FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A - L2x2x14G

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	 5889 S. Greenwood Plaza Blvd, Ste#300 Greenwood Village, Colorado 80111 PHONE: 800-345-4610 www.armstrongsteel.com	DESCRIPTION	RIGID FRAME ELEVATION						
A	APPROVAL	05.17.14	CR	SRB	RA		CUSTOMER	RUVIN LERMAN						
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA		END USER	RUVIN LERMAN						
P	PERMIT	07.15.14	CBR	RS	RA		END USE	GARAGE						
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA		LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415						
P2	REVISED PERMIT	08.29.14	DB	TSP	RA		DES. BY:	RA	DATE:	08/26/14	ENG. BY:	RA	DATE:	08/26/14
O	CONSTRUCTION	03.11.15	DB	SH	RA		JOB NO.:	53774R1	SCALE:	N.T.S.	DWG. NO.:	4 OF 12	ISSUE:	0



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 Ga. PR - Light Stone

TRIM TABLE				
FRAME LINE A				
ID	QUAN	PART	LENGTH	DETAIL
1	6	FL-72	10'-2"	TRIM_25
2	2	FL-834	17'-6"	TRIM_2
3	4	FL-18	15'-4"	TRIM_150
4	2	FL-18A	6"	TRIM_30
5	6	FL-37	4'-6"	TRIM_30
6	6	FL-23	4'-4"	TRIM_30
7	6	FL-37	6'-4"	TRIM_31
8	3	FL-851	6'-1"	TRIM_31
9	3	FL-25	6'-1"	TRIM_30
10	4	FL-37	3'-6"	TRIM_30
11	4	FL-22	3'-4"	TRIM_31
12	1	FL-850	3'-1"	TRIM_31
13	1	FL-24	3'-1"	TRIM_31
14	1	FL-851	4'-1"	TRIM_31
15	1	FL-25	4'-1"	TRIM_31
16	2	FL-37	4'-4"	TRIM_31
17	2	FL-37	3'-4"	TRIM_31
18	4	FL-19	15'-4"	TRIM_2

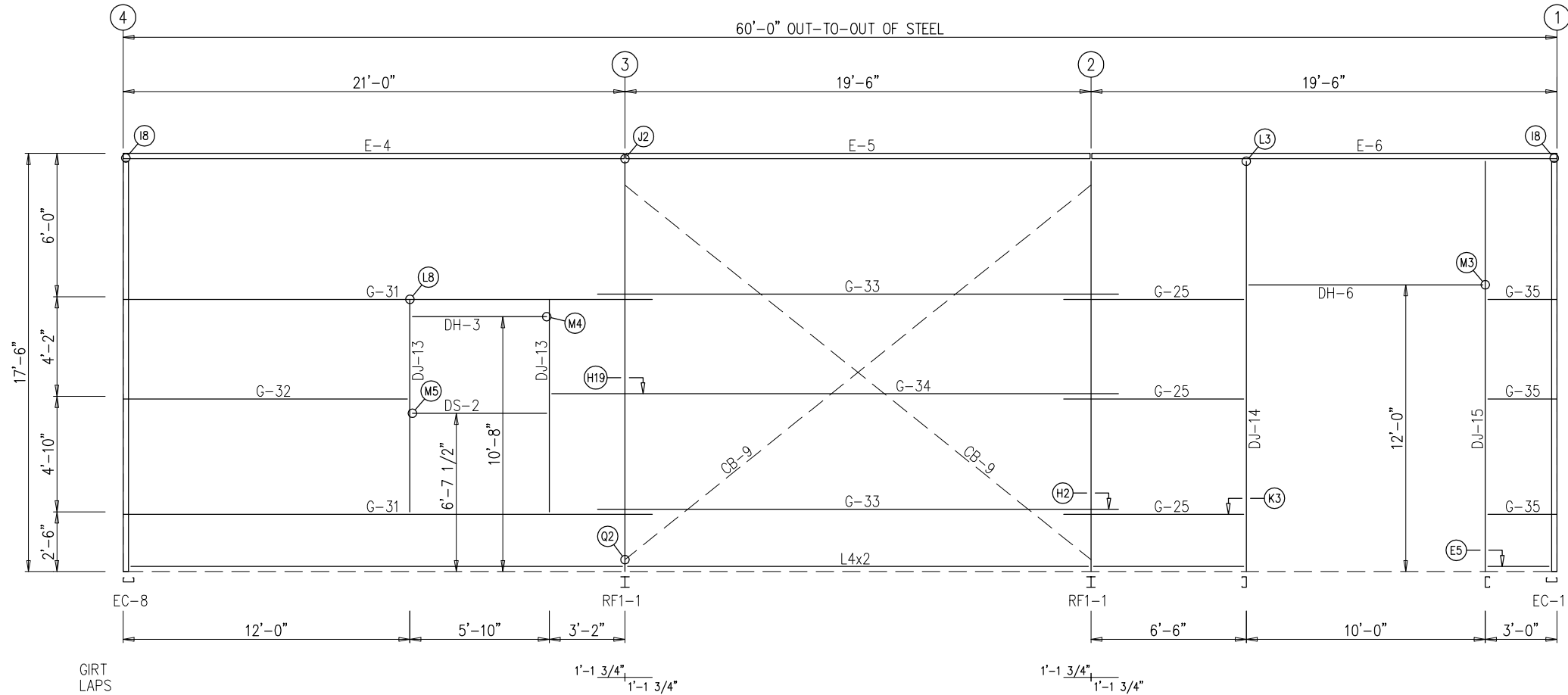
MEMBER TABLE				
FRAME LINE A				
QUAN	MARK	PART	LENGTH	
2	DJ-4	8X25C16	4'-10"	
2	DJ-5	8X25C16	9'-5 7/8"	
2	DJ-6	8X25C16	9'-5 7/8"	
2	DJ-7	8X25C16	4'-10"	
2	DJ-8	8X25C16	4'-10"	
2	DH-3	8X25C16	5'-9 1/2"	
1	DH-4	8X25C16	2'-9 1/2"	
1	DH-5	8X25C16	3'-9 1/2"	
3	DS-2	8X25C16	5'-9 1/2"	
1	DS-3	8X25C16	2'-9 1/2"	
1	DS-4	8X25C16	3'-9 1/2"	
1	E-1	10ES4L14	19'-5 1/2"	
1	E-2	10ES4L14	19'-5 1/2"	
1	E-3	10ES4L14	20'-11 1/2"	
3	G-23	8X25Z16	20'-7 1/2"	
2	G-24	8X25Z16	21'-9 1/2"	
1	G-25	8X25Z16	7'-3 3/4"	
1	G-26	8X25Z16	7'-11 3/4"	
1	G-27	8X25Z16	22'-1 1/2"	
1	G-28	8X25Z16	22'-1 1/2"	
1	G-29	8X25Z16	9'-9 3/4"	
1	G-30	8X25Z16	5'-9 3/4"	
1	CB-7	HW-374	25'-0"	
1	CB-8	HW-374	24'-1 1/4"	
1	GH-1	8X4C14	5'-10"	

NOTE:
FIELD CUT PANEL & DRILL 9/16"Ø HOLES FOR
FIELD LOCATED WINDOW FRAMED OPENINGS.

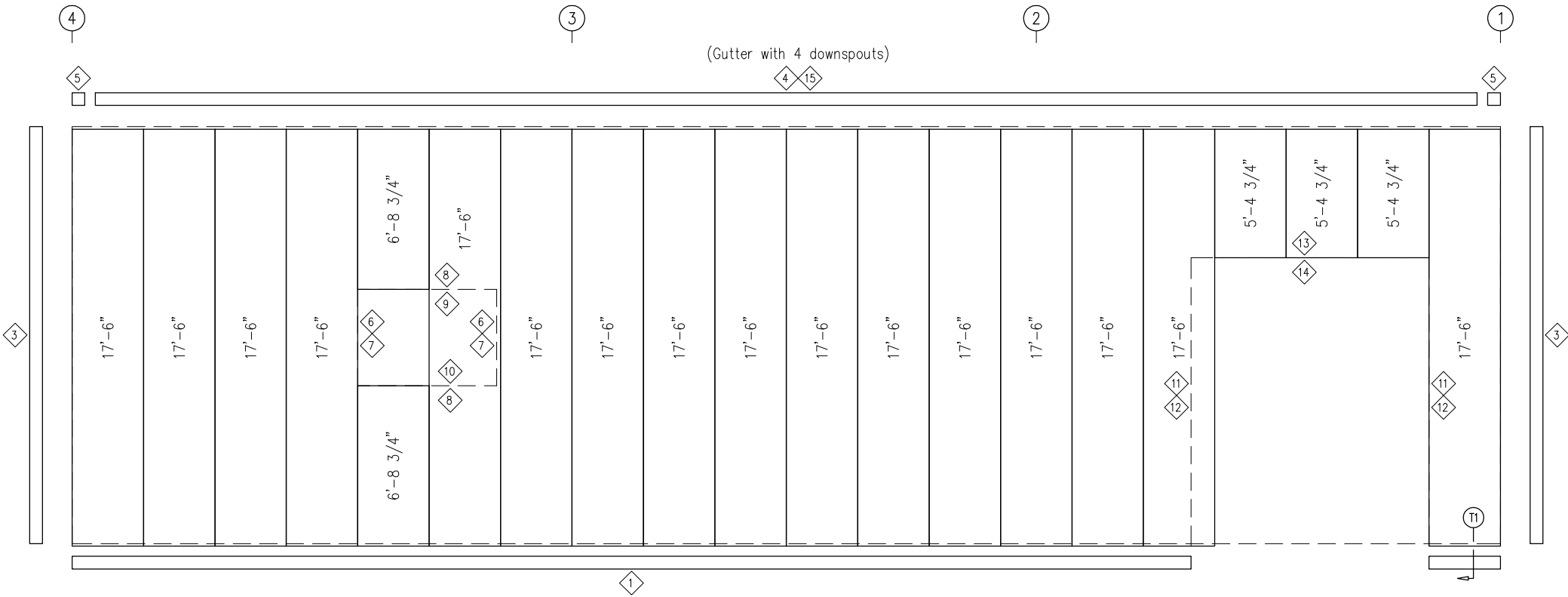
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	DESCRIPTION	SIDEWALL FRAMING & SHEETING
A	APPROVAL	05.17.14	CR	SRB	RA	CUSTOMER	RUVIN LERMAN
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA	END USER	RUVIN LERMAN
P	PERMIT	07.15.14	CBR	RS	RA	END USE	GARAGE
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA	LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415
P2	REVISED PERMIT	08.29.14	DB	TSP	RA	DES. BY:	RA
O	CONSTRUCTION	03.11.15	DB	SH	RA	DATE:	08/26/14
						ENG. BY:	RA
						SCALE:	N.T.S.
						DWG. NO.:	5 OF 12
						ISSUE:	0



5889 S. Greenwood Plaza Blvd, Ste#300
Greenwood Village, Colorado 80111
PHONE: 800-345-4610
www.armstrongsteel.com



SIDEWALL FRAMING: FRAME LINE F



SIDEWALL SHEETING & TRIM: FRAME LINE F

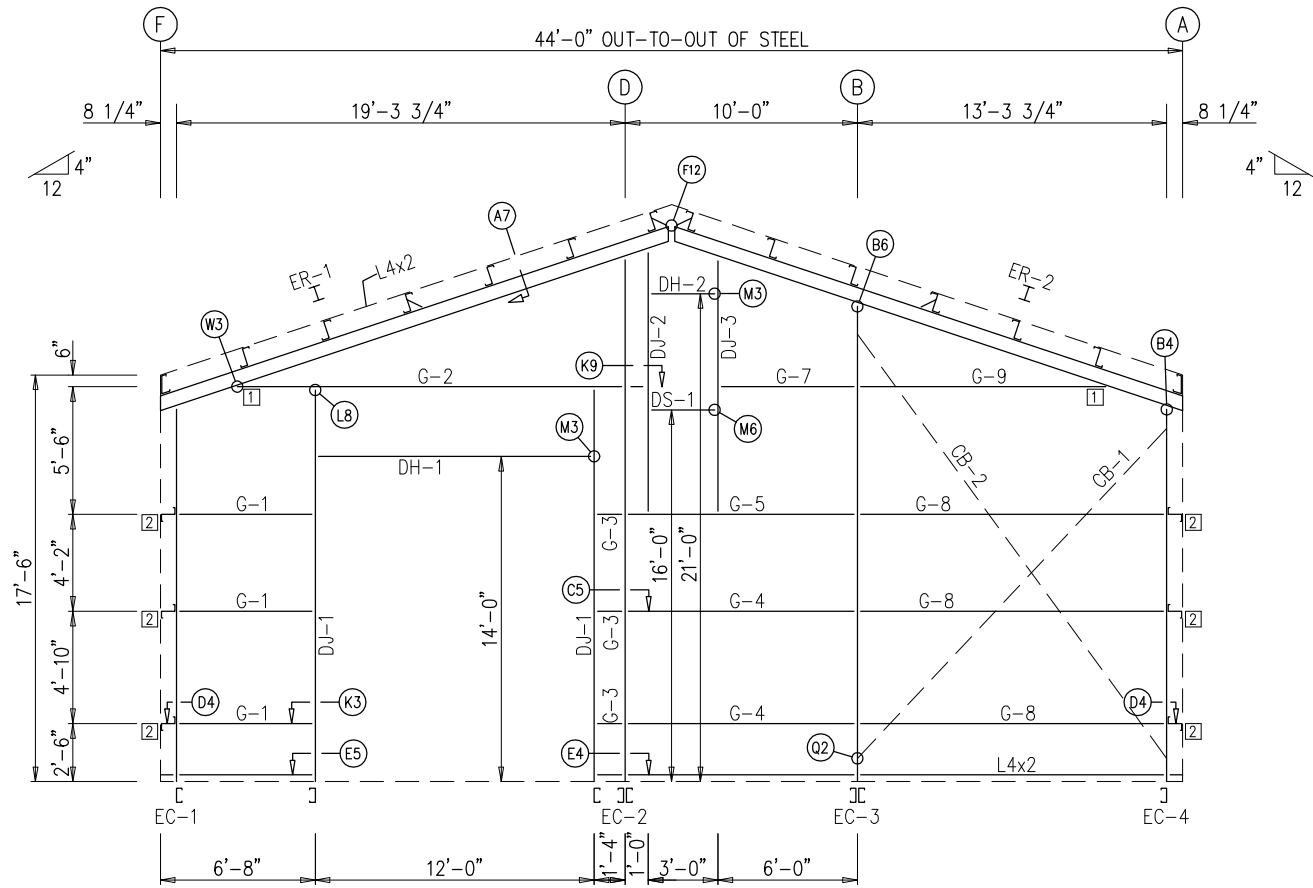
PANELS: 26 Ga. PR – Light Stone

TRIM TABLE				
FRAME LINE F				
◇ID	QUAN	PART	LENGTH	DETAIL
1	6	FL-72	10'-2"	TRIM_25
3	2	FL-834	17'-6"	TRIM_2
4	4	FL-18	15'-4"	TRIM_150
5	2	FL-18A	6"	TRIM_30
6	2	FL-37	4'-6"	TRIM_30
7	2	FL-23	4'-4"	TRIM_30
8	2	FL-37	6'-4"	TRIM_31
9	1	FL-851	6'-1"	TRIM_31
10	1	FL-25	6'-1"	TRIM_31
11	2	FL-37	12'-3"	TRIM_30
12	2	FL-23B	12'-2"	TRIM_30
13	1	FL-37	10'-6"	TRIM_31
14	1	FL-852	10'-3"	TRIM_31
15	4	FL-19	15'-4"	TRIM_2

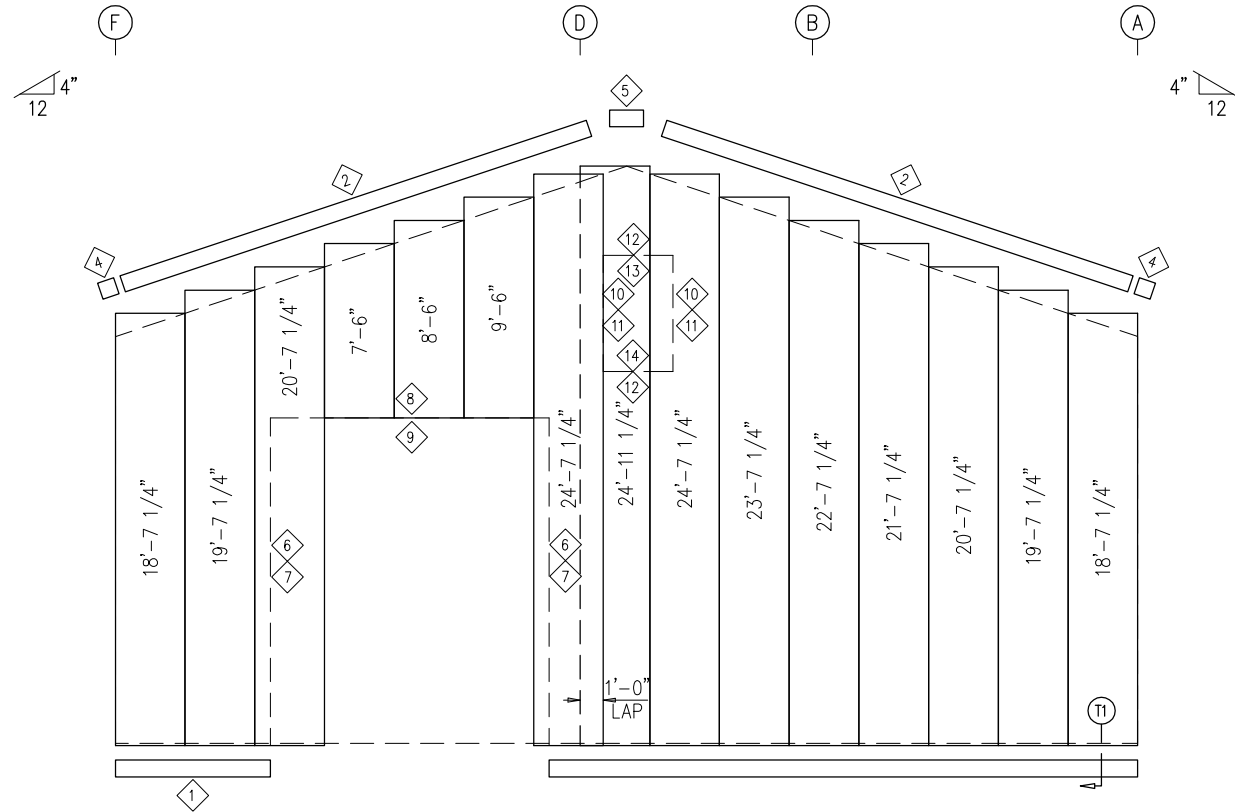
MEMBER TABLE				
FRAME LINE F				
QUAN	MARK	PART	LENGTH	
2	DJ-13	8X25C16	9'-0"	
1	DJ-14	8X25C16	16'-9 7/8"	
1	DJ-15	8X25C16	16'-9 7/8"	
1	DH-3	8X25C16	5'-9 1/2"	
1	DH-6	8X25C16	10'-0"	
1	DS-2	8X25C16	5'-9 1/2"	
1	E-4	10ES4L14	20'-11 1/2"	
1	E-5	10ES4L14	19'-5 1/2"	
1	E-6	10ES4L14	19'-5 1/2"	
3	G-25	8X25Z16	7'-3 3/4"	
2	G-31	8X25Z16	22'-1 1/2"	
1	G-32	8X25Z16	11'-7 3/4"	
2	G-33	8X25Z16	21'-9 1/2"	
1	G-34	8X25Z16	23'-5 3/4"	
3	G-35	8X25Z16	2'-7 3/4"	
2	CB-9	HW-374	25'-8 1/4"	

NOTE:
FIELD CUT PANEL & DRILL 9/16"Ø HOLES FOR
FIELD LOCATED WINDOW FRAMED OPENINGS.

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	5889 S. Greenwood Plaza Blvd, Ste#300 Greenwood Village, Colorado 80111 PHONE: 800-345-4610 www.armstrongsteel.com	DESCRIPTION	SIDEWALL FRAMING & SHEETING			
A	APPROVAL	05.17.14	CR	SRB	RA		CUSTOMER	RUVIN LERMAN			
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA		END USER	RUVIN LERMAN			
P	PERMIT	07.15.14	CBR	RS	RA		END USE	GARAGE			
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA		LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415			
P2	REVISED PERMIT	08.29.14	DB	TSP	RA	DES. BY: RA JOB NO.: 53774R1	DATE: 08/26/14	ENG. BY: RA	DATE: 08/26/14	SCALE: N.T.S.	
O	CONSTRUCTION	03.11.15	DB	SH	RA		SCALE: N.T.S.	DWG. NO.: 6 OF 12	ISSUE: 0		



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PR - Light Stone

TRIM TABLE FRAME LINE 1				
ID	QUAN	PART	LENGTH	DETAIL
1	4	FL-72	10'-2"	TRIM_23 TRIM_150 TRIM_106 TRIM_30 TRIM_30 TRIM_31 TRIM_31 TRIM_30 TRIM_30 TRIM_31 TRIM_31 TRIM_31
2	4	FL-16	11'-10"	
4	2	FL-16A	6"	
5	1	FL-16B	1'-4"	
6	2	FL-37	14'-3"	
7	2	FL-23C	14'-2"	
8	1	FL-37	12'-6"	
9	1	FL-853	12'-3"	
10	2	FL-37	5'-6"	
11	2	FL-22	5'-3"	
12	2	FL-37	3'-6"	
13	1	FL-850	3'-3"	
14	1	FL-24	3'-3"	

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	5/8"	1 3/4"
Columns/Rafter	4	A325	5/8"	1 1/2"
Jamb/Rafter	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 1			
QUAN	MARK	PART	LENGTH
1	EC-1	8X25C12	15'-11 3/8"
1	EC-2	8X50D12	22'-4 5/8"
1	EC-3	8X70D14	20'-4 5/8"
1	EC-4	8X25C14	15'-11 3/8"
1	ER-1	W8X18	23'-2"
1	ER-2	W8X18	23'-2"
2	DJ-1	8X25C12	17'-0"
1	DJ-2	8X25C16	11'-2 5/8"
1	DJ-3	8X25C16	10'-10 5/8"
1	DH-1	8X25C16	12'-0"
1	DH-2	8X25C16	3'-0"
1	DS-1	8X25C16	3'-0"
3	G-1	8X25Z16	5'-3 9/16"
1	G-2	8X35Z12	15'-11 13/16"
3	G-3	8X25Z16	7 13/16"
2	G-4	8X25Z16	9'-4"
1	G-5	8X25Z16	9'-4"
1	G-7	8X25Z16	5'-4"
3	G-8	8X25Z16	12'-7 3/4"
1	G-9	8X25Z16	9'-11 7/8"
1	CB-1	HW-373	23'-2"
1	CB-2	HW-373	19'-9"

CONNECTION PLATES FRAME LINE 1		
ID	QUAN	MARK/PART
1	2	ACL-109
2	6	SC-5

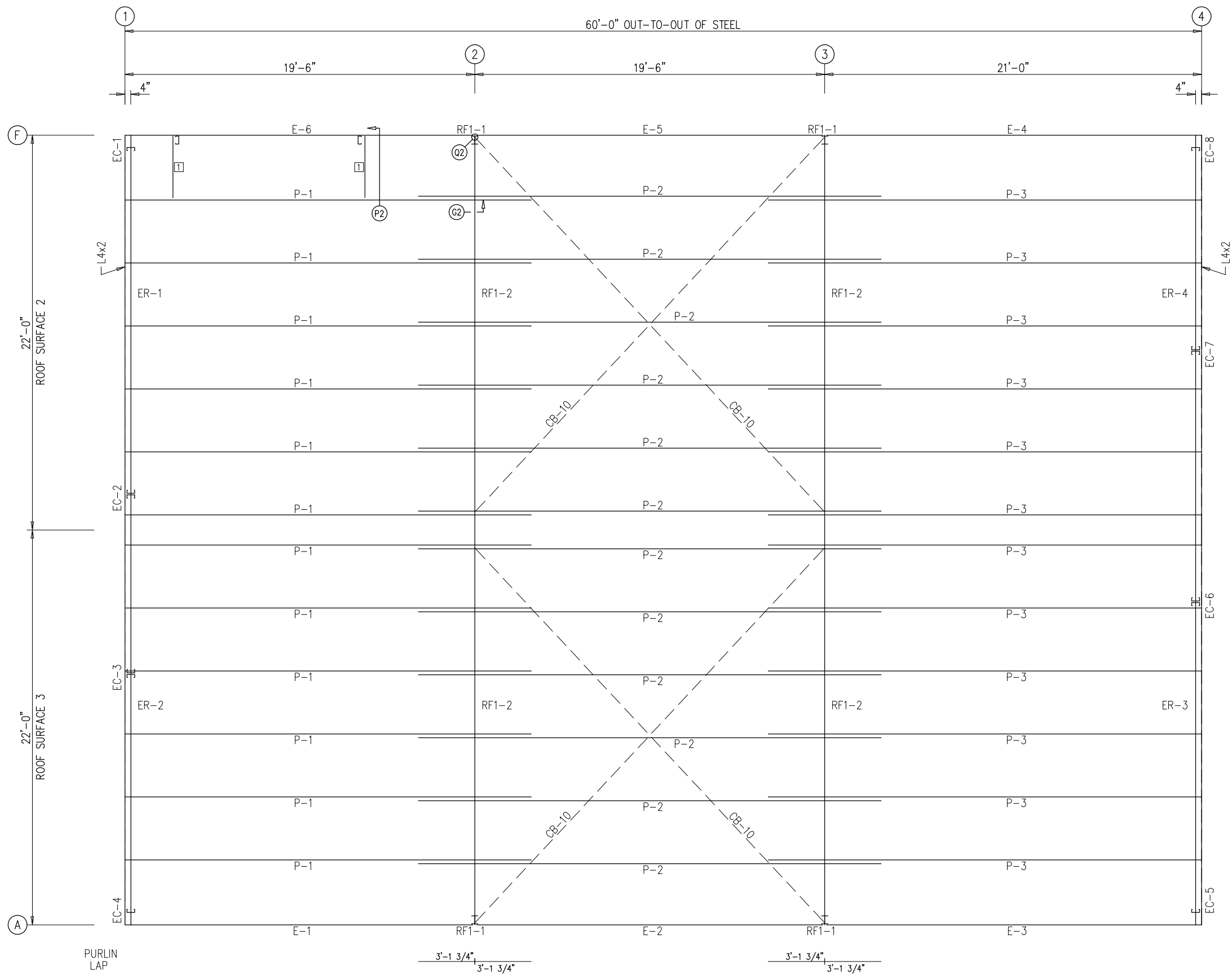
NOTE:
FIELD CUT PANEL & DRILL 9/16"Ø HOLES FOR
FIELD LOCATED WINDOW FRAMED OPENINGS.

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	5889 S. Greenwood Plaza Blvd, Ste#300 Greenwood Village, Colorado 80111 PHONE: 800-345-4610 www.armstrongsteel.com ARMSTRONG STEEL	DESCRIPTION	ENDWALL FRAMING & SHEETING		
A	APPROVAL	05.17.14	CR	SRB	RA		CUSTOMER	RUVIN LERMAN		
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA		END USER	RUVIN LERMAN		
P	PERMIT	07.15.14	CBR	RS	RA		END USE	GARAGE		
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA		LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415		
P2	REVISED PERMIT	08.29.14	DB	TSP	RA		DES. BY: RA	DATE: 08/26/14	ENG. BY: RA	DATE: 08/26/14
O	CONSTRUCTION	03.11.15	DB	SH	RA		JOB NO.: 53774R1	SCALE: N.T.S.	DWG. NO.: 7 OF 12	ISSUE: 0

TRIM TABLE				
ROOF PLAN				
◇ID	QUAN	PART	LENGTH	DETAIL
1	20	FL-51	3'-0"	TRIM_80

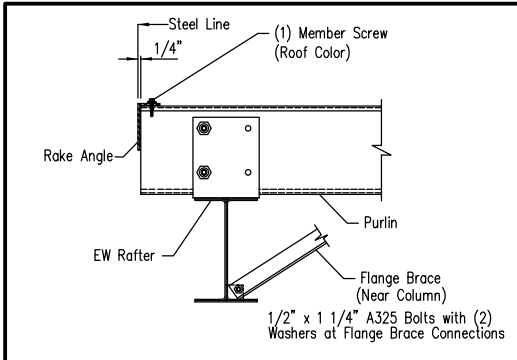
MEMBER TABLE			
ROOF PLAN			
QUAN	MARK	PART	LENGTH
12	P-1	10X25Z12	22'-7 1/2"
12	P-2	10X25Z14	25'-9 1/2"
12	P-3	10X25Z12	24'-1 1/2"
1	E-1	10ES4L14	19'-5 1/2"
1	E-2	10ES4L14	19'-5 1/2"
1	E-3	10ES4L14	20'-11 1/2"
1	E-4	10ES4L14	20'-11 1/2"
1	E-5	10ES4L14	19'-5 1/2"
1	E-6	10ES4L14	19'-5 1/2"
4	CB-10	HW-373	28'-9"

CONNECTION PLATES		
ROOF PLAN		
□ ID	QUAN	MARK/PART
1	2	JB-1



ROOF FRAMING PLAN

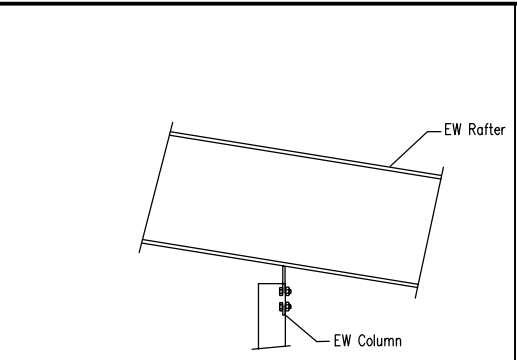
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	 5889 S. Greenwood Plaza Blvd, Ste#300 Greenwood Village, Colorado 80111 PHONE: 800-345-4610 www.armstrongsteel.com	DESCRIPTION	ROOF FRAMING & SHEETING						
A	APPROVAL	05.17.14	CR	SRB	RA		CUSTOMER	RUVIN LERMAN						
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA		END USER	RUVIN LERMAN						
P	PERMIT	07.15.14	CBR	RS	RA		END USE	GARAGE						
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA		LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415						
P2	REVISED PERMIT	08.29.14	DB	TSP	RA		DES. BY:	RA	DATE:	08/26/14	ENG. BY:	RA	DATE:	08/26/14
O	CONSTRUCTION	03.11.15	DB	SH	RA		JOB NO.:	53774R1	SCALE:	N.T.S.	DWG. NO.:	9 OF 12	ISSUE:	0



Steel Line
1/4"
(1) Member Screw (Roof Color)
Rake Angle
EW Rafter
Purlin
Flange Brace (Near Column)
1/2" x 1 1/4" A325 Bolts with (2) Washers at Flange Brace Connections

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

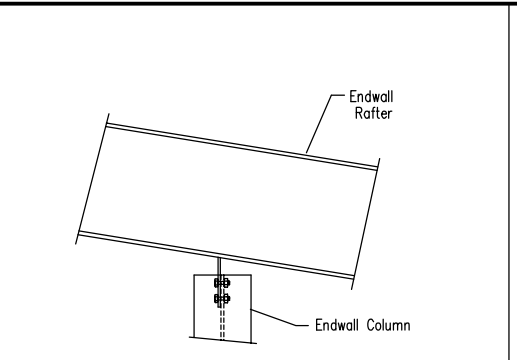
A7 SECTION THRU HOT ROLLED RAFTER



EW Rafter
EW Column

5/8" x 1 1/2" A325 Bolts (Typ.) (U.N.)

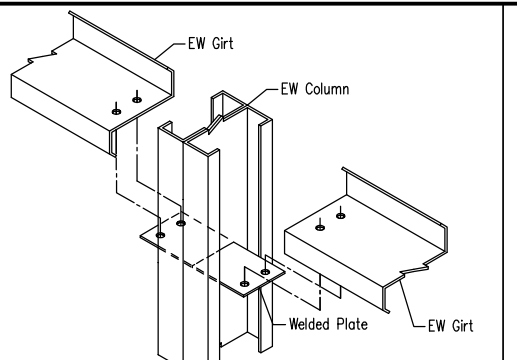
B4 ENDWALL COLUMN TO RAFTER



Endwall Rafter
Endwall Column

Refer To Endwall Drawing For Bolt Dia. And Type

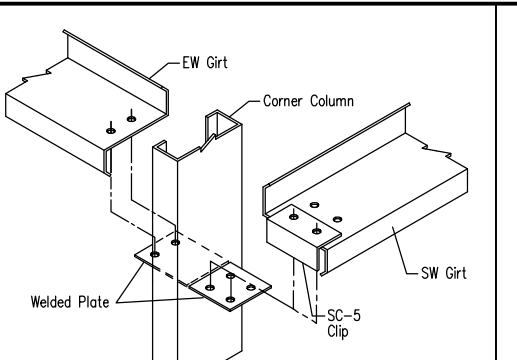
B6 HOT ROLLED ENDWALL COLUMN TO RAFTER



EW Girt
EW Column
Welded Plate
EW Girt

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

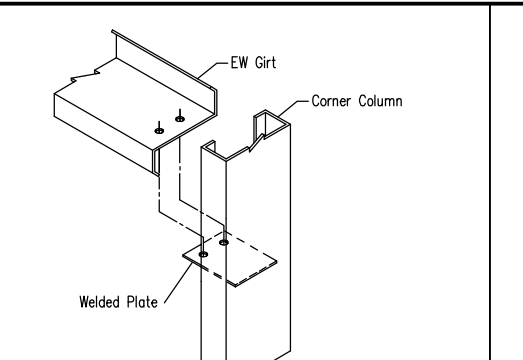
C5 DOUBLE CEE ENDWALL COLUMN TO WALL GIRT



EW Girt
Corner Column
Welded Plate
SC-5 Clip
SW Girt

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

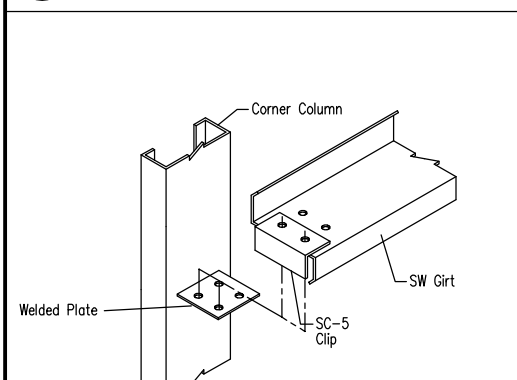
D4 CORNER COLUMN TO WALL GIRT



EW Girt
Corner Column
Welded Plate
SC-5 Clip

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

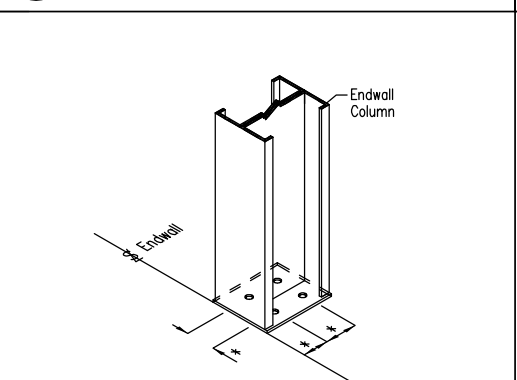
D5 CORNER COLUMN TO WALL GIRT



Corner Column
SW Girt
Welded Plate
SC-5 Clip

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

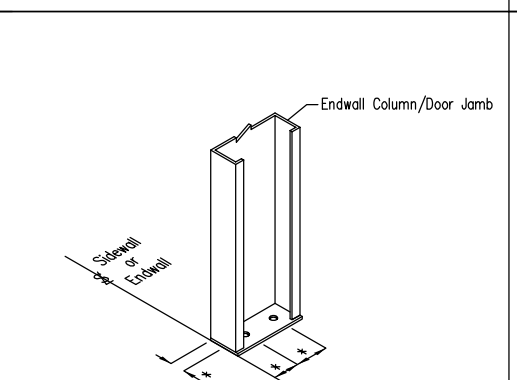
D6 CORNER COLUMN TO WALL GIRT



Endwall Column
Endwall

(*) = Refer To Anchor Bolt Plan

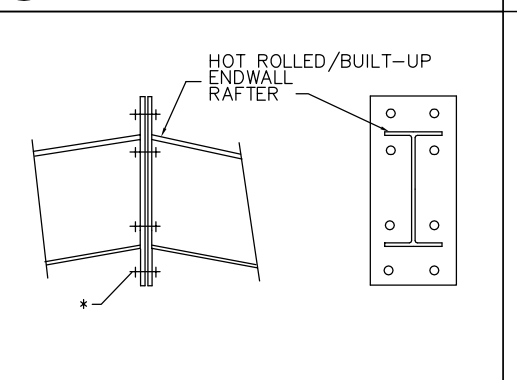
E4 BASE PLATE FOR ENDWALL COLUMN OR DOOR JAMB



Endwall Column/Door Jamb
Sidewall or Endwall

(*) = Refer To Anchor Bolt Plan

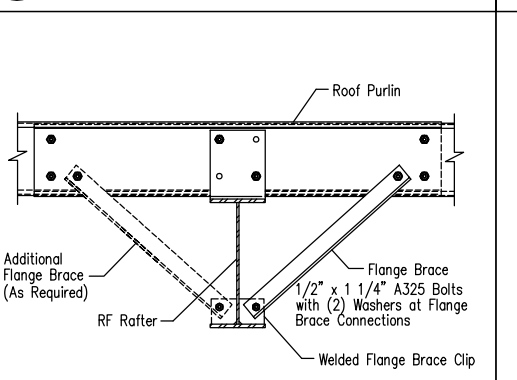
E5 BASE PLATE FOR ENDWALL COLUMN/DOOR JAMB



HOT ROLLED/BUILT-UP ENDWALL RAFTER

(*) = Refer To Endwall Drawing For Bolt Quantity, Dia. & Type

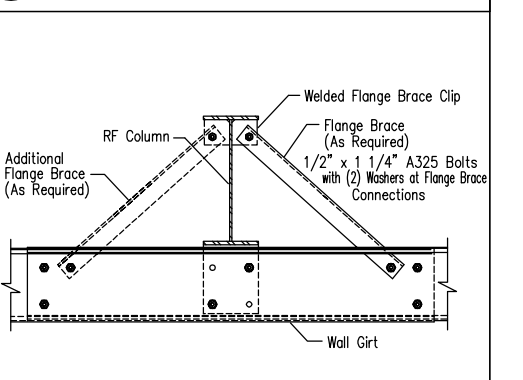
F12 RAFTER SPLICE AT SURFACE CHANGE



Roof Purlin
RF Rafter
Flange Brace
1/2" x 1 1/4" A325 Bolts with (2) Washers at Flange Brace Connections
Welded Flange Brace Clip
Additional Flange Brace (As Required)

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

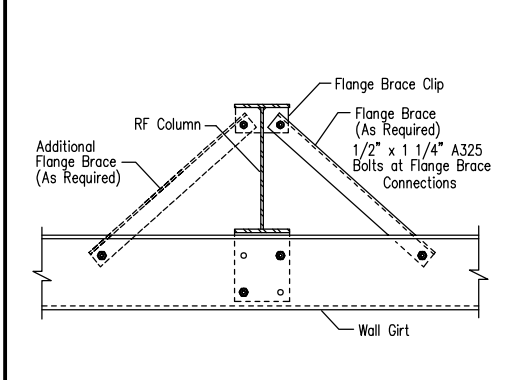
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



RF Column
Flange Brace (As Required)
1/2" x 1 1/4" A325 Bolts with (2) Washers at Flange Brace Connections
Welded Flange Brace Clip
Wall Girt
Additional Flange Brace (As Required)

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

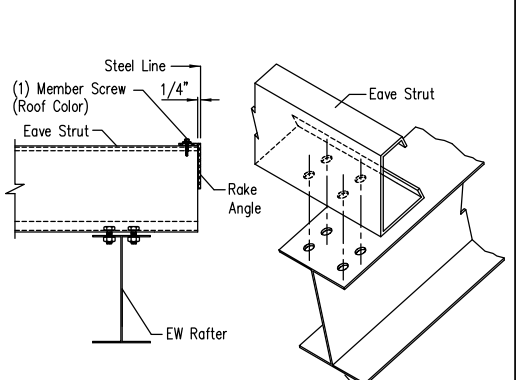
H2 WALL GIRT TO RIGID FRAME COLUMN



RF Column
Flange Brace (As Required)
1/2" x 1 1/4" A325 Bolts at Flange Brace Connections
Welded Flange Brace Clip
Additional Flange Brace (As Required)
Wall Girt

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

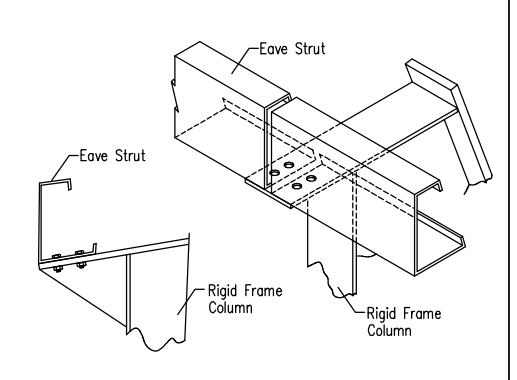
H19 WALL GIRT TO RIGID FRAME COLUMN



Steel Line
1/4"
(1) Member Screw (Roof Color)
Rake Angle
Eave Strut
EW Rafter
Endwall Rafter

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

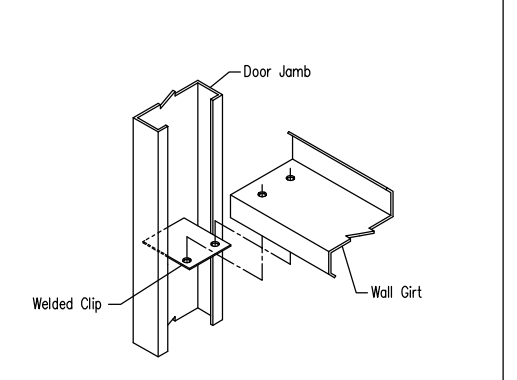
I8 LOW SIDE EAVE STRUT TO HOT ROLLED RAFTER



Eave Strut
Rigid Frame Column
Rigid Frame Column

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

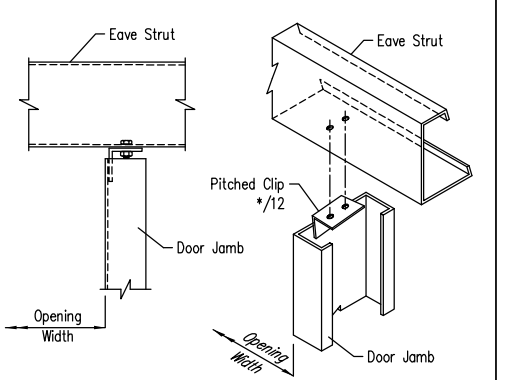
J2 EAVE STRUT TO RIGID FRAME



Door Jamb
Wall Girt
Welded Clip

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

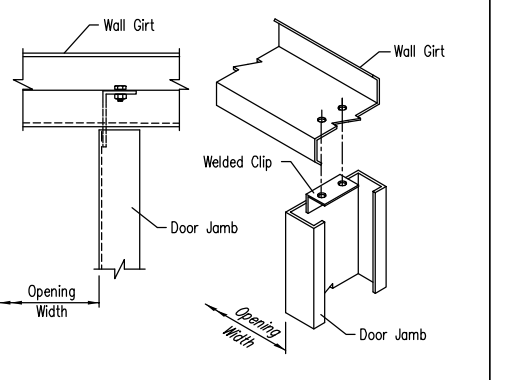
K3 WALL GIRT TO DOOR JAMB



Eave Strut
Door Jamb
Pitched Clip *1/2
Door Jamb
Opening Width
Opening Width

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

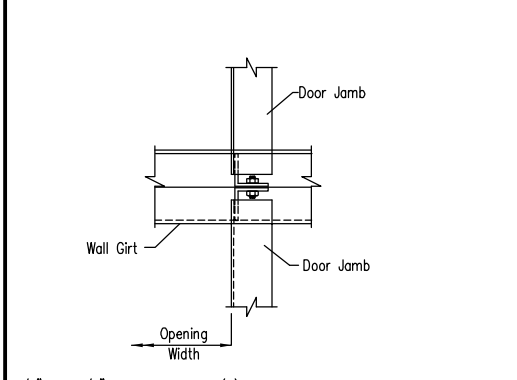
L3 DOOR JAMB TO EAVE STRUT



Wall Girt
Door Jamb
Welded Clip
Door Jamb
Opening Width
Opening Width

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

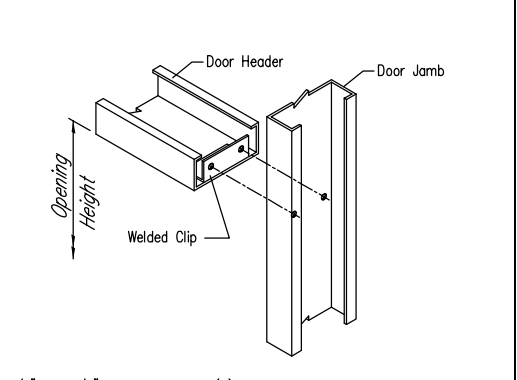
L8 DOOR JAMB TO WALL GIRT



Door Jamb
Wall Girt
Opening Width

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

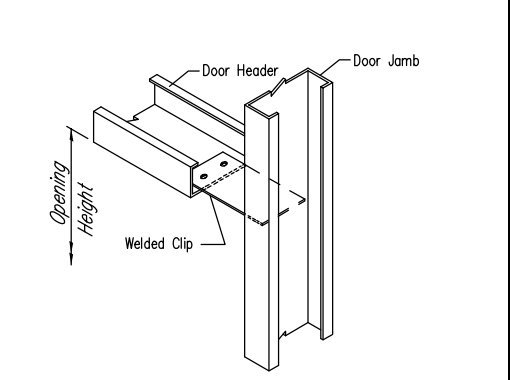
L9 DOOR JAMB TO WALL GIRT



Door Header
Door Jamb
Welded Clip
Opening Height

1/2" x 1 1/4" A307 Bolts with (2) Washers (Typ.) (U.N.)

M3 DOOR HEADER TO DOOR JAMB



Door Header
Door Jamb
Welded Clip
Opening Height

1/2" x 1" A307 Button Head Bolts (Typ.) (U.N.)

M4 DOOR HEADER TO DOOR JAMB

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
A	APPROVAL	05.17.14	CR	SRB	RA
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA
P	PERMIT	07.15.14	CBR	RS	RA
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA
P2	REVISED PERMIT	08.29.14	DB	TSP	RA
O	CONSTRUCTION	03.11.15	DB	SH	RA



5889 S. Greenwood Plaza Blvd, Ste#300
Greenwood Village, Colorado 80111
PHONE: 800-345-4610
www.armstrongsteel.com

DESCRIPTION	DETAIL DRAWINGS
CUSTOMER	RUVIN LERMAN
END USER	RUVIN LERMAN
END USE	GARAGE
LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415
DES. BY: RA	DATE: 08/26/14
JOB NO.: 53774R1	SCALE: N.T.S.
ENG. BY: RA	DATE: 08/26/14
DWG. NO.: 10 OF 12	ISSUE: 0

4\"/>

4\"/>

Downspout Strap Attachment Detail

TRIM_98

STANDARD PEAK BOX DETAIL
PBR Roof

TRIM_106

EAVE GUTTER

TRIM LAPS

RAKE TRIM

TRIM_150

Eave Strut Brace Section

TRIM_150

Fastener Location for Panel At Wall

SCREW_174

Fastener Location for "PBR" Roof Panel

SCREW_175

Framed Opening Jamb Brace Angle Detail

SCREW_175

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	 5889 S. Greenwood Plaza Blvd, Ste#300 Greenwood Village, Colorado 80111 PHONE: 800-345-4610 www.armstrongsteel.com	DESCRIPTION	DETAIL DRAWINGS			
A	APPROVAL	05.17.14	CR	SRB	RA		CUSTOMER	RUVIN LERMAN			
A1	REVISED APPROVAL	06.16.14	RHS	SRB	RA		END USER	RUVIN LERMAN			
P	PERMIT	07.15.14	CBR	RS	RA		END USE	GARAGE			
P1	REVISED PERMIT	07.31.14	DB	RAJ	RA		LOCATION	2984 BLACK CANYON RD, CRAWFORD, CO 81415			
P2	REVISED PERMIT	08.29.14	DB	TSP	RA		DES. BY:	RA		ENG. BY:	RA
O	CONSTRUCTION	03.11.15	DB	SH	RA		DATE:	08/26/14		DATE:	08/26/14
							JOB NO.:	53774R1		SCALE:	N.T.S.
							DWG. NO.:	12 OF 12		ISSUE:	0