

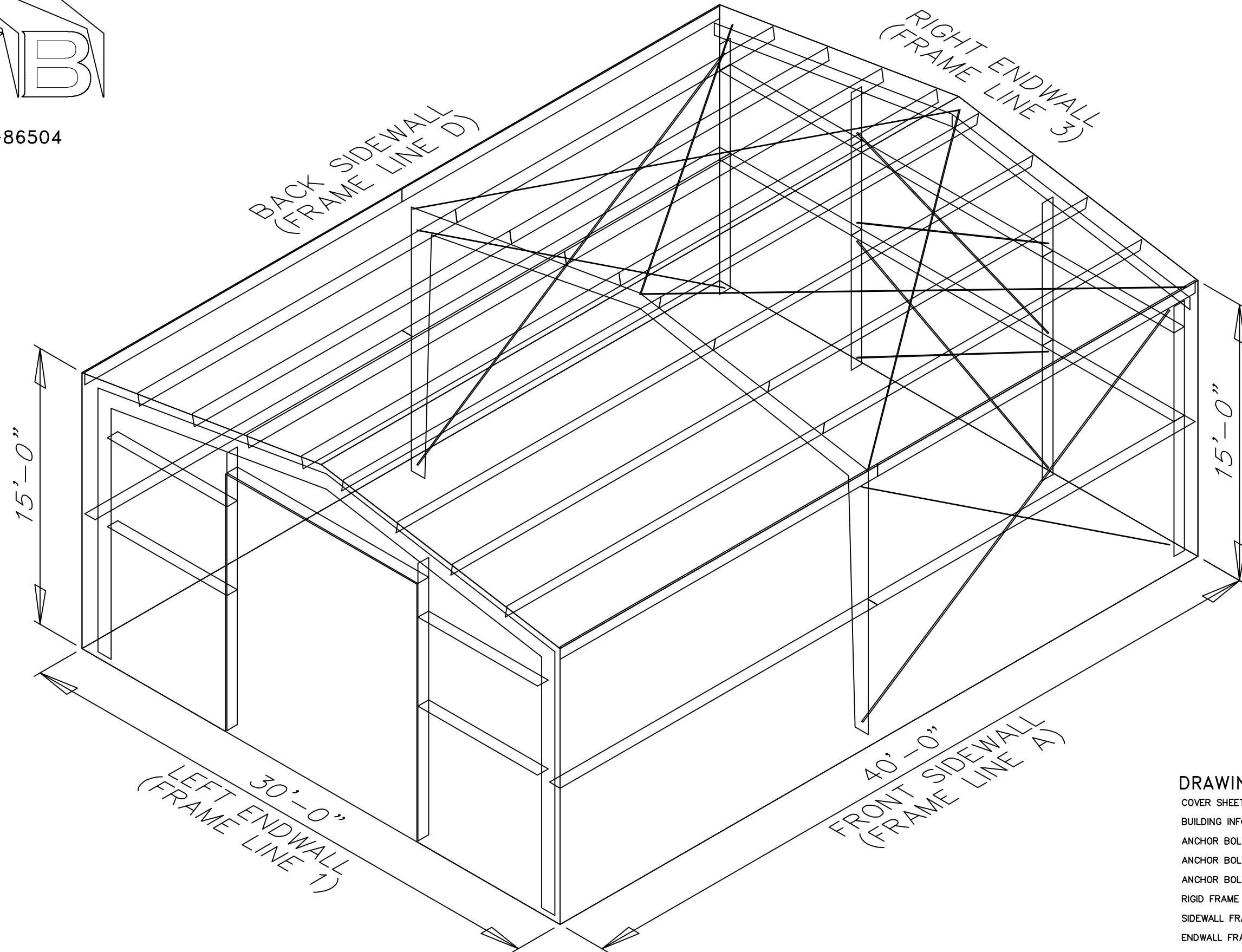
JOB NUMBER: 94852-86504

PROJECT NAME: ---

PROJECT LOCATION: ---

PROJECT LOCATION: ---

PROJECT COUNTY: ---



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**GENERAL NOTES**

- 1.1 FABRICATION SHALL BE IN ACCORDANCE WITH METAL BUILDING SUPPLIER, STANDARD PRACTICES IN COMPLIANCE WITH THE APPLICABLE SECTIONS, RELATING TO DESIGN REQUIREMENTS AND ALLOWABLE STRESSES OF THE LATEST EDITION OF THE "AWS STRUCTURAL WELDING CODE D1.1 AND D1.3".
- 1.2 **MATERIALS**
- | ASTM DESIGNATION | MIN. YIELD STRENGTH |
|------------------|---------------------|
| A572             | Fy = 50 KSI         |
| A36              | Fy = 36 KSI         |
| A500             | Fy = 42 KSI         |
| A500             | Fy = 42 KSI         |
| A572/A1011       | Fy = 50 KSI         |
| A529/A572        | Fy = 55 KSI         |
| A653/A1011       | Fy = 55 KSI         |
| A792/A653        | Fy = 50, 80 KSI     |
| A475 - TYPE 1    | EXTRA HIGH STRENGTH |
| A36              | Fy = 36 KSI         |
- MIN. TENSILE STRENGTH
- |                |              |
|----------------|--------------|
| A307           | Fu = 60 KSI  |
| A325-TYPE 1    | Fu = 120 KSI |
| A325-TYPE 1    | Fu = 105 KSI |
| A36/A307/F1554 | 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 GRAY OXIDE IN COLOR. THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS. METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR ANY DETERIORATION OF THE SHOP PRIMER PAINT AS A RESULT OF IMPROPER HANDLING AND/OR JOBSITE STORAGE. METAL BUILDING SUPPLIER SHALL NOT BE RESPONSIBLE FOR ANY FIELD APPLIED PAINT AND/OR COATINGS. (AISC CODE OF STANDARD PRACTICE, LATEST 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" x 0'-1 1/4" A307 EXCEPT:**  
A) ENDWALL RAFTER SPlice - 5/8" x 0'-1 3/4" A325-N  
B) ENDWALL COLUMN TO RAFTER CONNECTION - (SEE WALL ELEVATION)  
C) MAIN FRAME CONNECTIONS - SEE CROSS SECTION  
D) FLANGE BRACE CONNECTIONS - 1/2" x 0'-1 1/4" A325  
NOTE: WASHERS ARE NOT SUPPLIED UNLESS NOTED OTHERWISE ON DRAWING
- 1.6 **A325 BOLT TIGHTENING REQUIREMENTS**  
ALL HIGH STRENGTH BOLTS ARE A325-N UNLESS SPECIFICALLY NOTED OTHERWISE. HOLES ARE NOT SLOTTED AND DESIGN IS BEARING CONNECTION. STRUCTURAL BOLTS SHALL BE TIGHTENED BY THE "TURN-OF-THE-NUT" METHOD IN ACCORDANCE WITH THE LATEST EDITION AISC "SPECIFICATION FOR STRUCTURAL JOINTS" USING ASTM A325 OR A490 BOLTS, WHEN SPECIFICALLY REQUIRED. A325-N BOLTS ARE SUPPLIED WITHOUT WASHER UNLESS OTHERWISE NOTED ON THE DRAWINGS.  
ALL BOLTED CONNECTIONS UNLESS NOTED ARE DESIGNED AS BEARING TYPE CONNECTIONS WITH BOLT THREADS NOT EXCLUDED FROM THE SHEAR PLANE.  
BUILDINGS IN SEISMIC DESIGN CATEGORY C OR LOWER AND/OR WITH CRANE SYSTEMS 10 TONS OR LESS DO NOT REQUIRE TURN OF THE NUT PRE TENSIONING
- 1.7 **CLOSURE STRIPS ARE FURNISHED (IF ORDERED) FOR APPLICATION:**  
INSIDE - UNDER ROOF PANELS & BASE OF WALL PANELS  
OUTSIDE - BETWEEN ROOF PANELS & RIDGE CAP  
- BETWEEN WALL PANELS & EAVE/GABLE TRIM
- 1.8 **ERECTION NOTE:**  
ALL BRACING, STRAPPING, & BRIDGING SHOWN AND PROVIDED BY M.B.S. 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 G.W.B.**
- 1.10 **SHORTAGES**  
ANY CLAIMS OR SHORTAGES BY BUYER MUST BE MADE TO M.B.S. 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 M.B.S. 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 M.B.S.

**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 M.B.S. TO FABRICATE UPON RECEIVING SUCH.
- 2.2 METAL BUILDING SUPPLIER (HEREAFTER REFERRED TO AS M.B.S.) STANDARD SPECIFICATIONS APPLY UNLESS STIPULATED OTHERWISE IN THE CONTRACT DOCUMENTS. M.B.S. 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 M.B.S. STRUCTURAL STEEL PLANS AND PLANS FOR OTHER TRADES, M.B.S. PLANS SHALL GOVERN. (SECTION 3 AISC CODE OF STANDARD PRACTICES, LATEST EDITION)
- 2.4 APPROVAL OF M.B.S. DRAWINGS AND CALCULATIONS INDICATE THE M.B.S. HAS CORRECTLY INTERPRETED AND APPLIED THE CONTRACT DOCUMENTS. THIS APPROVAL CONSTITUTES THE CONTRACTOR/OWNERS ACCEPTANCE OF THE M.B.S. DESIGN CONCEPTS, ASSUMPTIONS, AND LOADING. (SECTION 4 AISC CODE AND MBMA 3.3.3)
- 2.5 ONCE THE BUYER/END USE CUSTOMER HAS SIGNED M.B.S. 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.

- 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 M.B.S. AND M.B.S. 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 M.B.S. ASSUMPTIONS WILL GOVERN (AISC CODE OF STANDARD PRACTICE, LATEST EDITION)
- 2.7 IT IS THE RESPONSIBILITY OF THE BUYER/END USE CUSTOMER TO INSURE THAT M.B.S. 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 M.B.S. 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 M.B.S.
- 2.8 THE BUYER/END USE CUSTOMER IS RESPONSIBLE FOR SETTING OF ANCHOR BOLTS AND ERECTION OF STEEL IN ACCORDANCE WITH M.B.S. "FOR ERECTION" DRAWINGS ONLY. TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSE WORK, 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 ERECTION" DRAWINGS FOR THIS USE. (AISC CODE OF STANDARD PRACTICE, LATEST EDITION.)
- 2.9 METAL BUILDING SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF THE ANCHOR BOLTS TO PERMIT THE TRANSFER OF FORCES BETWEEN THE BASE PLATE AND THE ANCHOR BOLT IN SHEAR, BEARING AND TENSION, BUT IT 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 NOTED PROVIDED IN THE ORDER DOCUMENTS, M.B.S. DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL AND CONSTRUCTION OF THE FOUNDATION OR FOUNDATION EMBEDMENTS. THE END USE CUSTOMER SHOULD BE 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. (LATEST 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 M.B.S. BY THE BUYER/END USE CUSTOMER, TO ENABLE WHOEVER IS RESPONSIBLE EITHER TO CORRECT THE ERROR OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE USED BY OTHERS. (AISC CODE OF STANDARD PRACTICE LATEST 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, SIZE, LOCATION AND NUMBER OF ALTERATIONS PRIOR TO PREPARATION OF SHOP DRAWINGS. (AISC CODE OF STANDARD PRACTICE LATEST EDITION)
- 2.12 **WARNING:** IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED 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, WRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.
- 2.13 **SAFETY COMMITMENT:** METAL BUILDING SUPPLIER 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 M.B.S. 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 TABLE 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 AB.4, PAGE XI-AB-2

**BUILDING LOADS**

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

- DESIGN LOADS:**
- DESIGN CODE / WIND CODE : IBC-21  
OCCUPANCY / RISK CATEGORY : II-Normal  
ENCLOSURE : Enclosed  
ROOF DEAD LOAD (D) (PSF) : 2.00  
ROOF COLLATERAL LOAD (C) (PSF) : 1.00  
WIND LOAD  
ULTIMATE WIND SPEED, (VULT) (MPH) : 125.00  
WIND EXPOSURE CATEGORY : C  
INTERNAL PRESSURE COEFFICIENT, (GCpi) : 0.18/-0.18  
WALL PANEL DESIGN WIND PRESSURE (PSF) : 28.07/-30.41  
WIND ENCLOSURE CLASSIFICATION : Enclosed
- LIVE LOAD  
PRIMARY FRAMING (PSF) : 20.00  
TRIB. AREA REDUCTION : No  
SECONDARY FRAMING (PSF) : 20.00
- SNOW LOAD  
GROUND SNOW LOAD, (Pg) (PSF) : 5.00  
ROOF SNOW LOAD, (Pf) (PSF) : 40.00  
SNOW EXPOSURE FACTOR, (Ce) : 1.00  
SNOW IMPORTANCE FACTOR, (Is) : 1.00  
THERMAL FACTOR, (Ct) : 1.20
- SEISMIC LOAD  
SEISMIC IMPORTANCE FACTOR, (Ie) : 1.00  
SITE CLASSIFICATION : d  
SPECTRAL RESPONSE ACCELERATION : Ss = 1.144 :S1 = 0.443  
SPECTRAL RESPONSE COEFFICIENTS : Sds = 0.914 :Sd1 = 0.548  
SEISMIC DESIGN CATEGORY : D  
BASIC SEISMIC FORCE RESISTING SYSTEM : STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR RESISTANCE  
RIGID FRAMES (OMF) :  
BRACED FRAMES (OCBF/OMF) :  
LONGITUDINAL = 2.30  
TRANSVERSE = 2.56
- TOTAL DESIGN BASE SHEAR, (V) (KIPS)  
RESPONSE MODIFICATION FACTORS, (R) : RIGID FRAMES = 3.25     Ω = 3.00  
: SW X-BRACING = 3.25     Ω = 2.00
- SEISMIC RESPONSE COEFFICIENTS, (Cs) : RIGID FRAMES = 0.2815  
: SW X-BRACING = 0.2815
- ANALYSIS PROCEDURE USED : EQUIVALENT LATERAL FORCE PROCEDURE
- OTHER LOADS/REQUIREMENTS

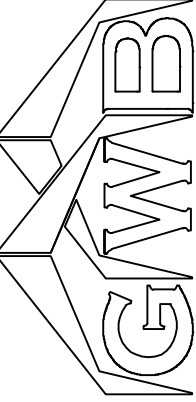
**BUILDING DESCRIPTION:**

- WIDTH (FT) : 30.00  
LENGTH (FT) : 40.00  
EAVE HEIGHT AT BSW (FT) : 15.00  
EAVE HEIGHT AT FSW (FT) : 15.00  
ROOF SLOPE AT BSW : 2.0:12  
ROOF SLOPE AT FSW : 2.0:12  
BAY SPACING (FT) : 2 AT 20.00

**COVERING AND TRIMS:**

- ROOF PANELS & TRIMS**  
PANEL TYPE : 26 GA. PBR  
PANEL COLOR : GALVALUME  
TRIM COLORS  
GABLE/EAVE : CHARCOAL GRAY  
EAVE GUTTER : NEED STD. COLOR
- WALL PANELS & TRIMS**  
PANEL TYPE : 26 GA. PBR  
PANEL COLOR : ASH GRAY  
TRIM COLORS  
CORNER : CHARCOAL GRAY  
FRAMED OPENING : CHARCOAL GRAY  
DOWNSPOUTS : NEED STD. COLOR  
BASE : CHARCOAL GRAY
- INSULATION**  
ROOF INSULATION : N/A  
WALL INSULATION : N/A

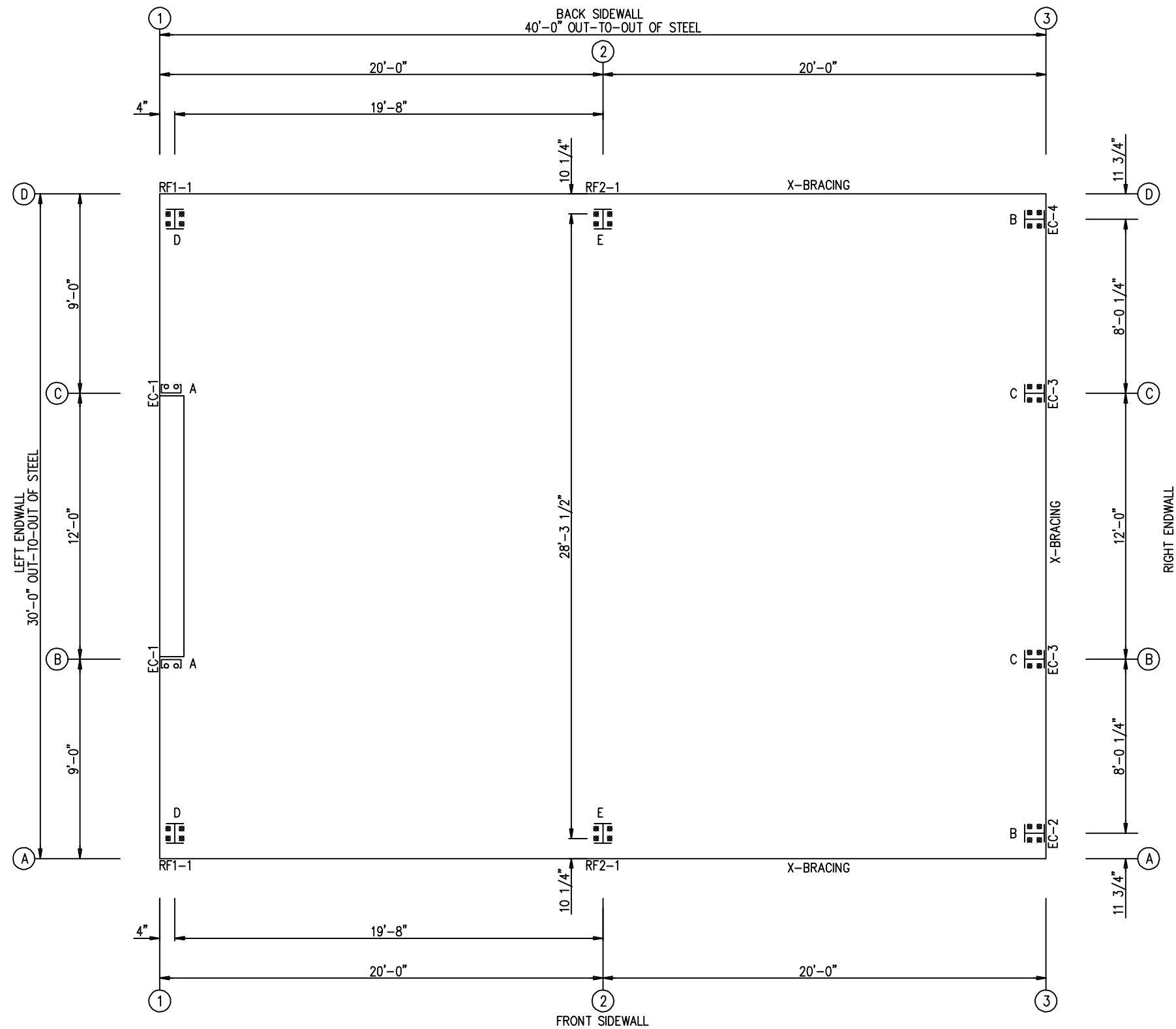
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					11/21	APPROVAL



1101 3RD AVE  
GRAND JUNCTION, CO 81501  
PHONE: (800)-497-2135  
WWW.GREATWESTERNBUILDINGS.COM

CUSTOMER NAME:	
PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	2 OF 18
JOB NUMBER:	94852-86504
SHEET TITLE:	BUILDING INFO COVERSHEET

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY GREAT WESTERN BUILDINGS. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF GREAT WESTERN BUILDINGS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL AND SIGNATURE APPEARS ON THESE DRAWINGS IS EMPLOYED BY GREAT WESTERN BUILDINGS AND DOES NOT SERVE AS OR REPRESENT THE OVERALL PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.



ANCHOR BOLT PLAN  
 NOTE: ALL BASE PLATES @ 100'-0" (U.N.)

ANCHOR BOLT SUMMARY

QTY	LOCATE	DIA (in)	TYPE
4	ENDWALL	5/8"	A307
16	ENDWALL	3/4"	A307
16	FRAME	3/4"	A307

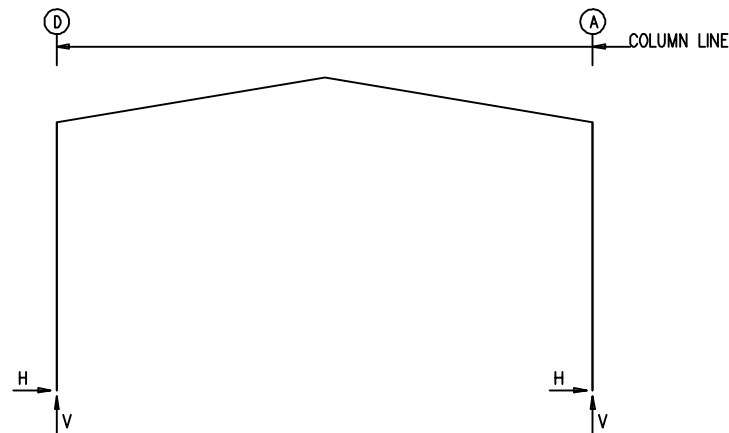
DATE	DWN.	CHK.	ENG.
11/14			

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

Frm Line	Col Line	Column_Reactions(k )						Bolt(in) QTY	DIA	Base_Plate(in)			Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin			Width	Length	Thick	
1	D	3	1.7	4.6	6	-1.3	-1.1	4	0.750	6.000	10.50	0.375	0.0
		1	1.6	6.9	4	-1.0	-1.9						
1	A	7	1.3	-1.1	2	-1.7	4.6	4	0.750	6.000	10.50	0.375	0.0
		1	-1.6	6.9	5	1.0	-1.9						

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

Frm Line	Col Line	Column_Reactions(k )						Bolt(in) QTY	DIA	Base_Plate(in)			Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin			Width	Length	Thick	
2	D	3	4.4	10.7	6	-3.2	-2.9	4	0.750	6.000	10.50	0.375	0.0
		1	4.4	16.4	4	-2.7	-5.0						
2	A	7	3.2	-2.9	2	-4.4	10.7	4	0.750	6.000	10.50	0.375	0.0
		1	-4.4	16.4	5	2.7	-5.0						

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k )

Frm Line	Col Line	Dead		Wind		Seis	
		Vert	Press	Suct	Long	Long	Long
1	C	0.0	-1.8	2.0	0.1		
1	B	0.0	-1.8	2.0	0.1		

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1		Wind_Left2		Wind_Right2	
						Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
3	A	0.2	0.0	0.7	1.4	0.0	-0.9	0.0	-0.8	0.0	-0.4	0.0	-0.3
3	B	0.5	0.1	2.4	4.7	-1.6	-5.3	0.0	0.1	-1.6	-4.3	0.0	1.1
3	C	0.5	0.1	2.4	4.7	0.0	0.1	1.6	-5.3	0.0	1.1	1.6	-4.3
3	D	0.2	0.0	0.7	1.4	0.0	-0.8	0.0	-0.9	0.0	-0.3	0.0	-0.4

Frm Line	Col Line	Wind_Press		Wind_Suct		Wind_Long1		Wind_Long2		Seis_Left		Seis_Right		Seis_Long	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
3	A	-3.1	-1.6	0.9	1.6	0.0	-1.3	0.0	-0.8	0.0	0.0	0.0	0.0	-1.5	-1.0
3	B	-1.7	0.0	1.9	0.0	0.0	-2.4	-0.3	-2.1	-0.8	-1.1	0.0	1.1	0.1	0.0
3	C	-1.7	0.0	1.9	0.0	0.3	-2.1	0.0	-2.4	0.0	1.1	0.8	-1.1	0.1	0.0
3	D	-3.1	-1.6	0.9	1.6	0.0	-0.8	0.0	-1.3	0.0	0.0	0.0	0.0	-1.5	-1.0

Frm Line	Col Line	-MIN_SNOW-		E2UNB_SL_L-		E2UNB_SL_R-	
		Horz	Vert	Horz	Vert	Horz	Vert
3	A	0.0	0.2	0.0	1.4	0.0	0.3
3	B	0.0	0.6	0.0	4.6	0.0	1.9
3	C	0.0	0.6	0.0	1.9	0.0	4.6
3	D	0.0	0.2	0.0	0.3	0.0	1.4

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

Frm Line	Col Line	Column_Reactions(k )						Bolt(in) QTY	DIA	Base_Plate(in)			Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin			Width	Length	Thick	
1	C	8	1.2	0.0	9	-1.1	0.0	2	0.625	3.500	8.000	0.250	0.0
		10	0.9	0.0									
1	B	8	1.2	0.0	9	-1.1	0.0	2	0.625	3.500	8.000	0.250	0.0
		10	0.9	0.0									
3	A	11	0.5	0.3	12	-1.9	-1.6	4	0.750	6.000	8.000	0.375	0.0
		13	0.4	1.9									
3	B	14	1.2	-2.9	12	-1.0	-1.2	4	0.750	6.000	8.000	0.375	0.0
		1	0.0	5.3	14	1.2	-2.9						
3	C	15	1.2	-2.9	9	-1.0	-1.2	4	0.750	6.000	8.000	0.375	0.0
		1	0.0	5.3	15	1.2	-2.9						
3	D	16	0.5	0.3	9	-1.9	-1.6	4	0.750	6.000	8.000	0.375	0.0
		17	0.4	1.9									

RIGID FRAME: BASIC COLUMN REACTIONS (k )

FRAME Line	Column Line	Dead		Collateral		Live		Snow		Wind_Left1		Wind_Right1	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	D	0.1	0.7	0.0	0.2	0.7	3.1	1.4	6.1	-1.8	-3.9	1.0	-1.8
1	A	-0.1	0.7	0.0	0.2	-0.7	3.1	-1.4	6.1	-1.0	-1.8	1.8	-3.9

FRAME Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	D	-2.2	-2.5	0.7	-0.4	0.6	-3.0	0.4	-2.6	-0.4	-0.4	0.4	0.4
1	A	-0.7	-0.4	2.2	-2.5	-0.4	-2.6	-0.6	-3.0	-0.4	0.4	0.4	-0.4

FRAME Line	Column Line	-MIN_SNOW-		F1UNB_SL_L-		F1UNB_SL_R-	
		Horz	Vert	Horz	Vert	Horz	Vert
1	D	0.2	0.8	1.0	5.2	1.0	2.9
1	A	-0.2	0.8	-1.0	2.9	-1.0	5.2

FRAME Line	Column Line	Dead		Collateral		Live		Snow		Wind_Left1		Wind_Right1	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2	D	0.3	1.1	0.1	0.4	2.0	7.4	4.0	14.9	-4.8	-9.5	2.2	-4.5
2	A	-0.3	1.1	-0.1	0.4	-2.0	7.4	-4.0	14.9	-2.2	-4.5	4.8	-9.5

FRAME Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2	D	-5.5	-6.0	1.5	-1.0	1.4	-9.0	0.9	-7.9	-0.8	-0.8	0.8	0.8
2	A	-1.5	-1.0	5.5	-6.0	-0.9	-7.9	-1.4	-9.0	-0.8	0.8	0.8	-0.8

FRAME Line	Column Line	-Seismic_Long		-MIN_SNOW-		F2UNB_SL_L-		F2UNB_SL_R-	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2	D	0.0	-1.0	0.5	1.9	2.7	12.8	2.7	7.2
2	A	0.0	-1.0	-0.5	1.9	-2.7	7.2	-2.7	12.8

NOTES FOR REACTIONS

Building reactions are based on the following building data:

- Width (ft) = 30.00
- Length (ft) = 40.00
- Eave Height (ft) = 15.00/15.00
- Roof Slope (rise/12) = 2.0/12/2.0/12
- Dead Load (psf) = 2.00
- Collateral Load (psf) = 1.00
- Live Load (psf) = 20.00
- Snow Load (psf) = 40.00
- Ultimate Wind Speed (mph) = 125.00
- Wind Code = IBC-21
- Exposure = C
- Closed/Open = Enclosed
- Importance Wind = 1.00
- Importance Seismic = 1.00
- Seismic Zone = D
- Seismic Coeff (Fa\*Ss) = 1.37

ID Description

- 1 Dead+Collateral+Snow+Slide\_Snow
- 2 Dead+Collateral+0.75Snow+0.45Wind\_Left1+0.75Slide\_Snow
- 3 Dead+Collateral+0.75Snow+0.45Wind\_Right1+0.75Slide\_Snow
- 4 0.6Dead+0.6Wind\_Left1
- 5 0.6Dead+0.6Wind\_Right1
- 6 0.6Dead+0.6Wind\_Left2
- 7 0.6Dead+0.6Wind\_Right2
- 8 0.6Dead+0.6Wind\_Right2+0.6Wind\_Suction
- 9 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long2L
- 10 Dead+Collateral+0.45Wind\_Right2+0.45Wind\_Suction+0.75E1UNB\_SL\_R
- 11 0.6Dead+0.6Wind\_Suction+0.6Wind\_Long1L
- 12 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long1L
- 13 Dead+Collateral+0.45Wind\_Right2+0.45Wind\_Suction+0.75E2UNB\_SL\_L
- 14 0.6Dead+0.6Wind\_Left1+0.6Wind\_Suction
- 15 0.6Dead+0.6Wind\_Right1+0.6Wind\_Suction
- 16 0.6Dead+0.6Wind\_Suction+0.6Wind\_Long2L
- 17 Dead+Collateral+0.45Wind\_Left2+0.45Wind\_Suction+0.75E2UNB\_SL\_R

BUILDING BRACING REACTIONS

Loc	Wall Line	Col Line	± Reactions(k )				Panel_Shear (lb/ft)		Note
			Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Wind	Seis	
L_EW		1						(h)	
F_SW	A	2,3	2.4	1.6	1.5	1.0			
R_EW		3	1.6	2.1	0.8	1.1			
B_SW	D	3,2	2.4	1.6	1.5	1.0			

(h)Rigid frame at endwall

Reactions for seismic represent shear force, Eh

ANCHOR BOLT SUMMARY

QTY	LOCATE	DIA (in)	TYPE
4	ENDWALL	5/8"	A307
16	ENDWALL	3/4"	A307
16	FRAME	3/4"	A307

DATE	DWN	CHK	ENG	RTS

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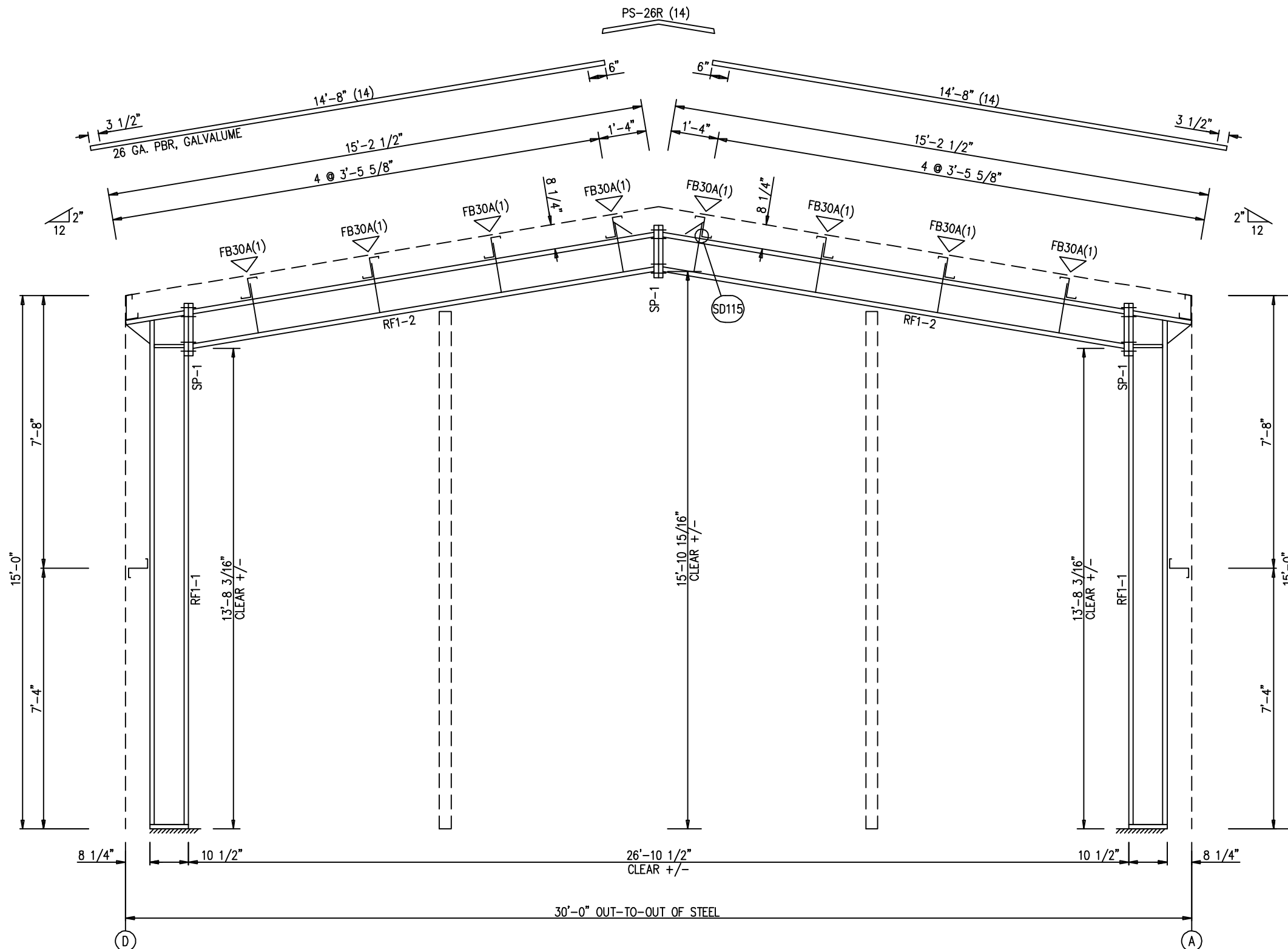
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PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	5 OF 18
JOB NUMBER:	94852-86504
SHEET TITLE:	ANCHOR BOLT REACTIONS

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SPLICE BOLT TABLE						
Mark	Qty		Int	Type	Dia	Length
	Top	Bot				
SP-1	4	4	0	A325	5/8"	1 3/4"

MEMBER TABLE						
Mark	Web Depth		Web Plate		Outside Flange	Inside Flange
	Start	End	Thick	Length	W x Thk x Length	W x Thk x Length
RF1-1	10.0	10.0	0.135	14'-6 1/16"	5 x 1/4" x 14'-4 3/8"	5 x 1/4" x 13'-4 15/16"
RF1-2	10.0	10.0	0.135	13'-8 1/4"	5 x 1/4" x 1'-6 11/16"	5 x 1/4" x 13'-6 9/16"

▽ FLANGE BRACES: FBxx (1 or 2)  
 xx=length(in)  
 (1) One Side; (2) Two Sides  
 A - 2X2X14Ga



RIGID FRAME ELEVATION: FRAME LINE 1

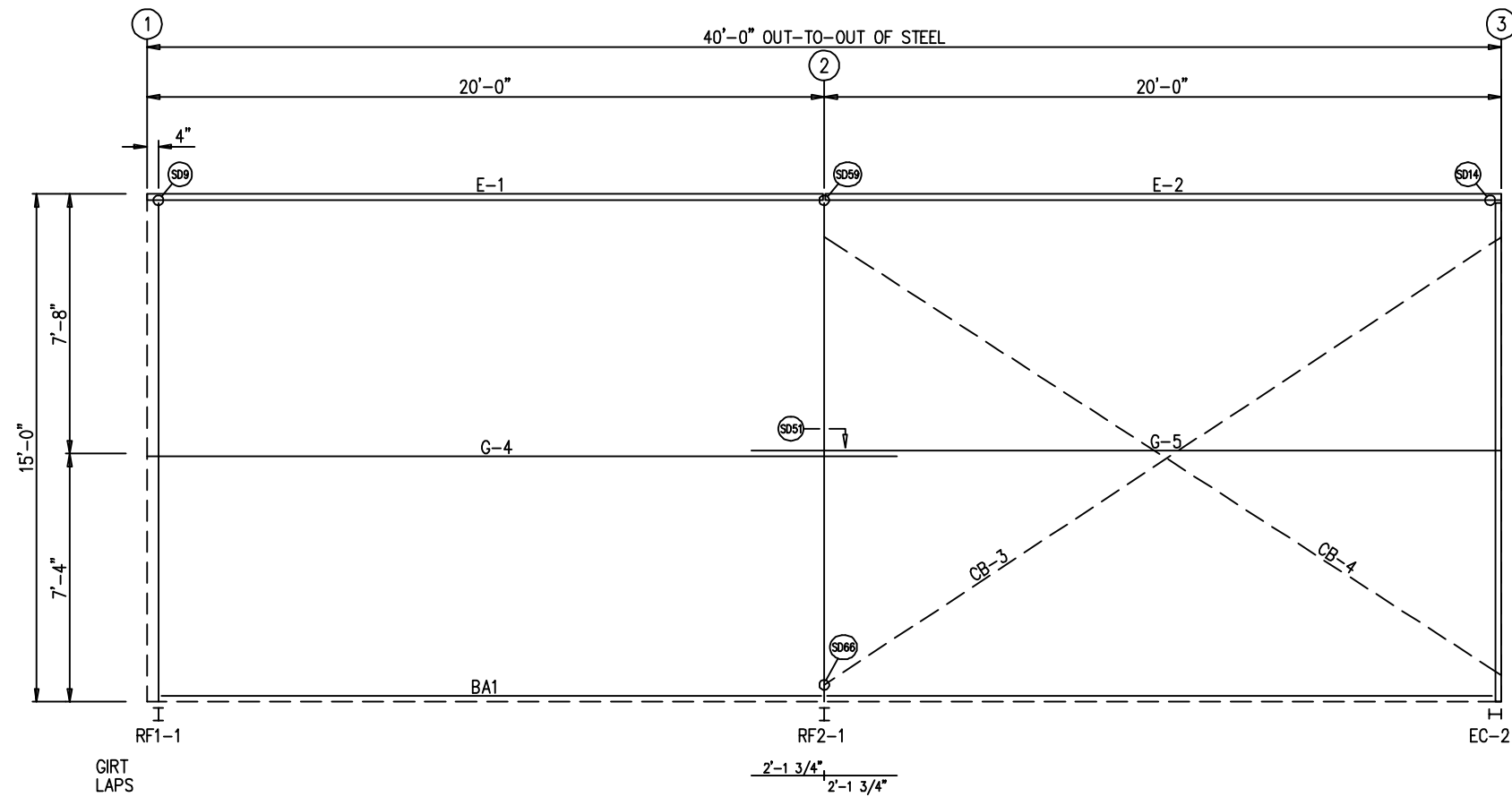
ISSUE	DATE	BY	CHK.	ENG.
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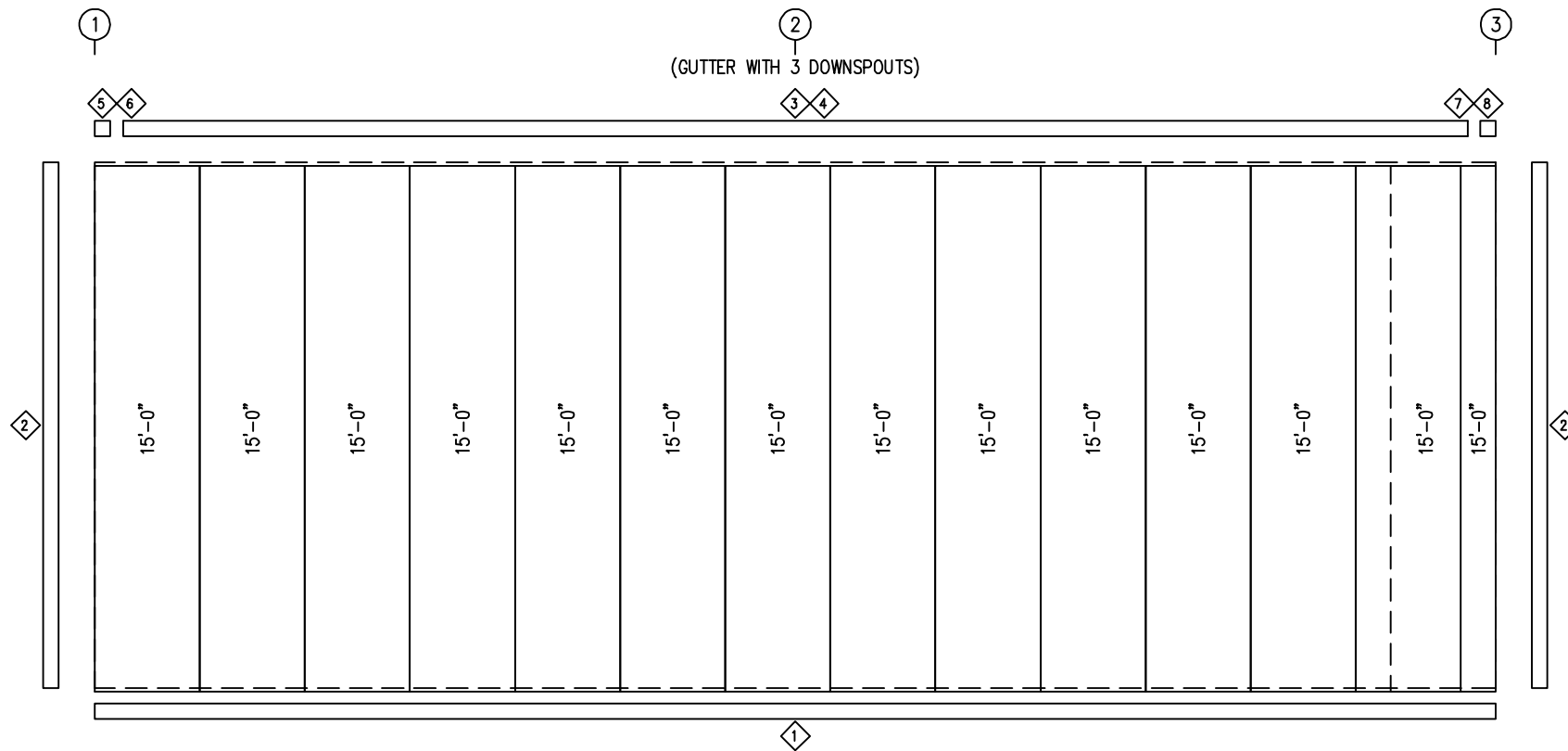
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PROJECT COUNTY:	
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CUSTOMER PHONE NUMBER:	
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SCALE:	N.T.S.
SHEET NUMBER:	6 OF 18
JOB NUMBER:	94852-86504
SHEET TITLE:	RIGID FRAME ELEVATION

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SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 GA. PBR - ASH GRAY

ID	QUAN	PART	LENGTH	DETAIL
1	4	FL-60	10'-2"	TD74
2	2	FL-10	15'-0"	TD40
3	2	FL-32	10'-1"	TD15
4	4	FL-31	10'-2"	TD15
5	1	FL-32L	11'-2"	TD13
6	1	FL-33L	8"	TD85
7	1	FL-32R	11'-2"	TD13
8	1	FL-33R	8"	TD85

QUAN	MARK	PART	LENGTH
1	E-1	L08E16-2	19'-11 1/2"
1	E-2	L08E16-2	19'-11 1/2"
1	G-4	8X25Z16	22'-1 1/2"
1	G-5	8X25Z16	22'-1 1/2"
1	CB-3	RD0500	23'-7 3/4"
1	CB-4	RD0500	23'-11 1/2"

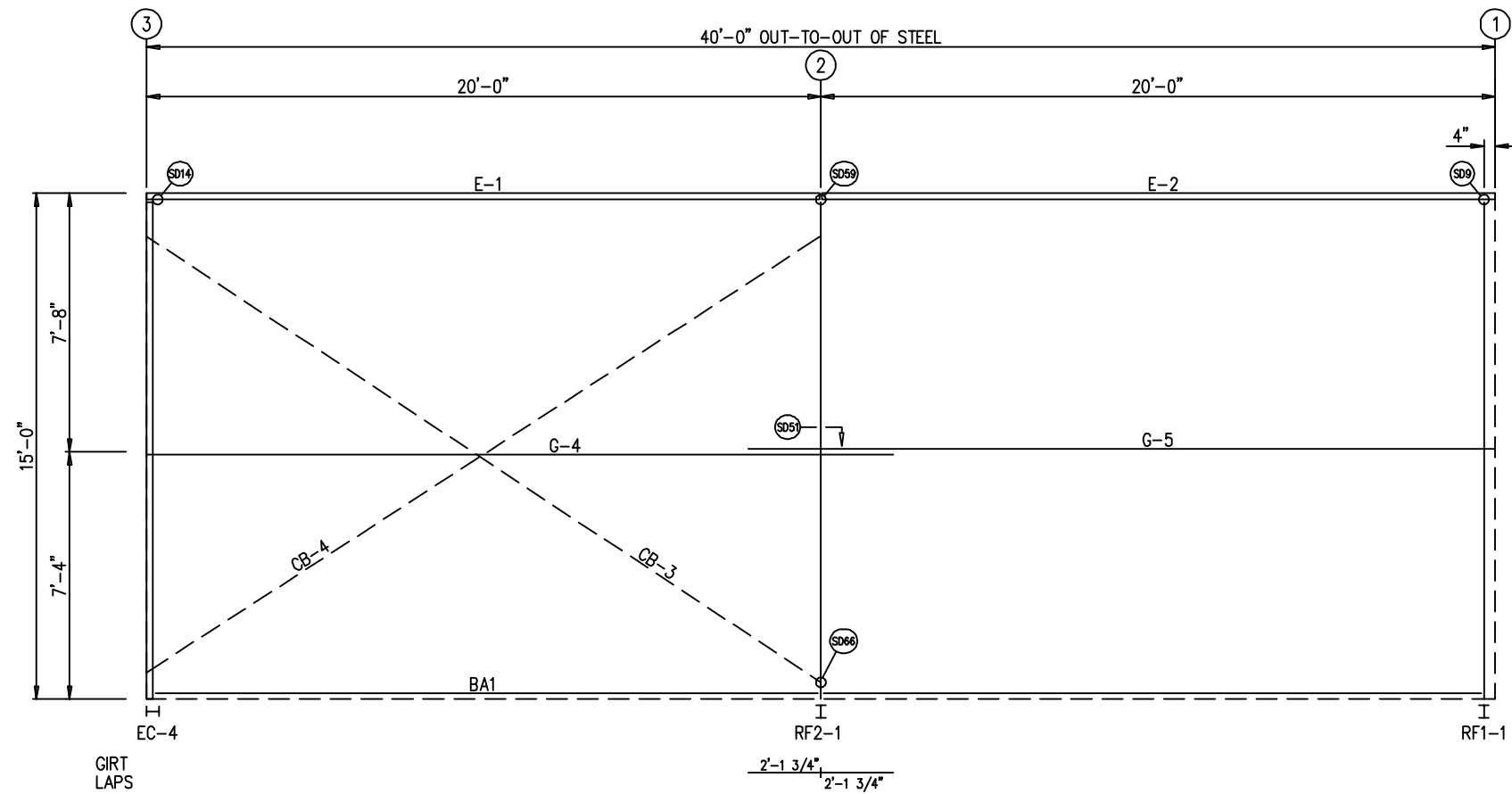
ISSUE	APPROVAL	DATE	DWN.	CHK.	ENG.

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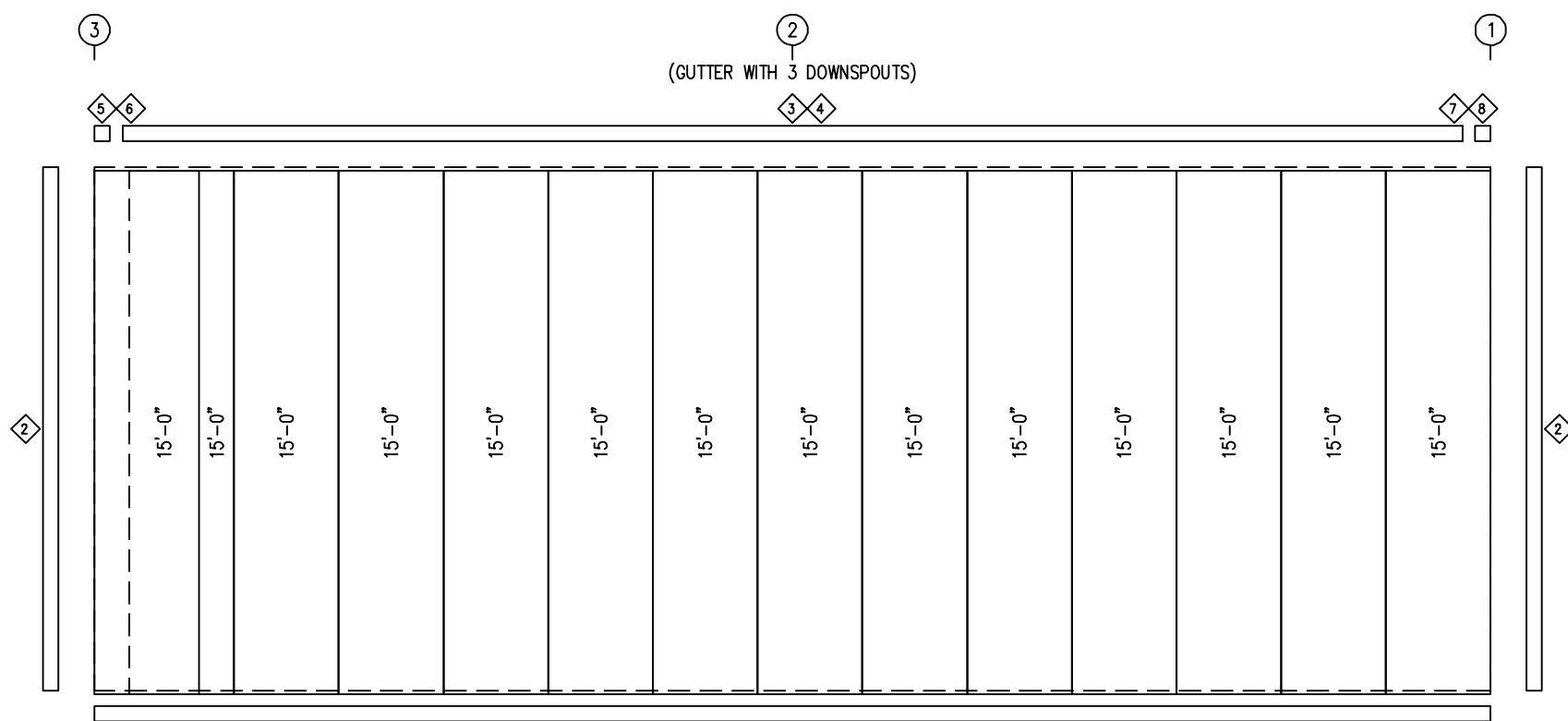
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PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	8 OF 18
JOB NUMBER:	94852-86504
SHEET TITLE:	SIDEWALL FRAMING & SHEETING

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SIDEWALL FRAMING: FRAME LINE D



SIDEWALL SHEETING & TRIM: FRAME LINE D  
PANELS: 26 GA. PBR - ASH GRAY

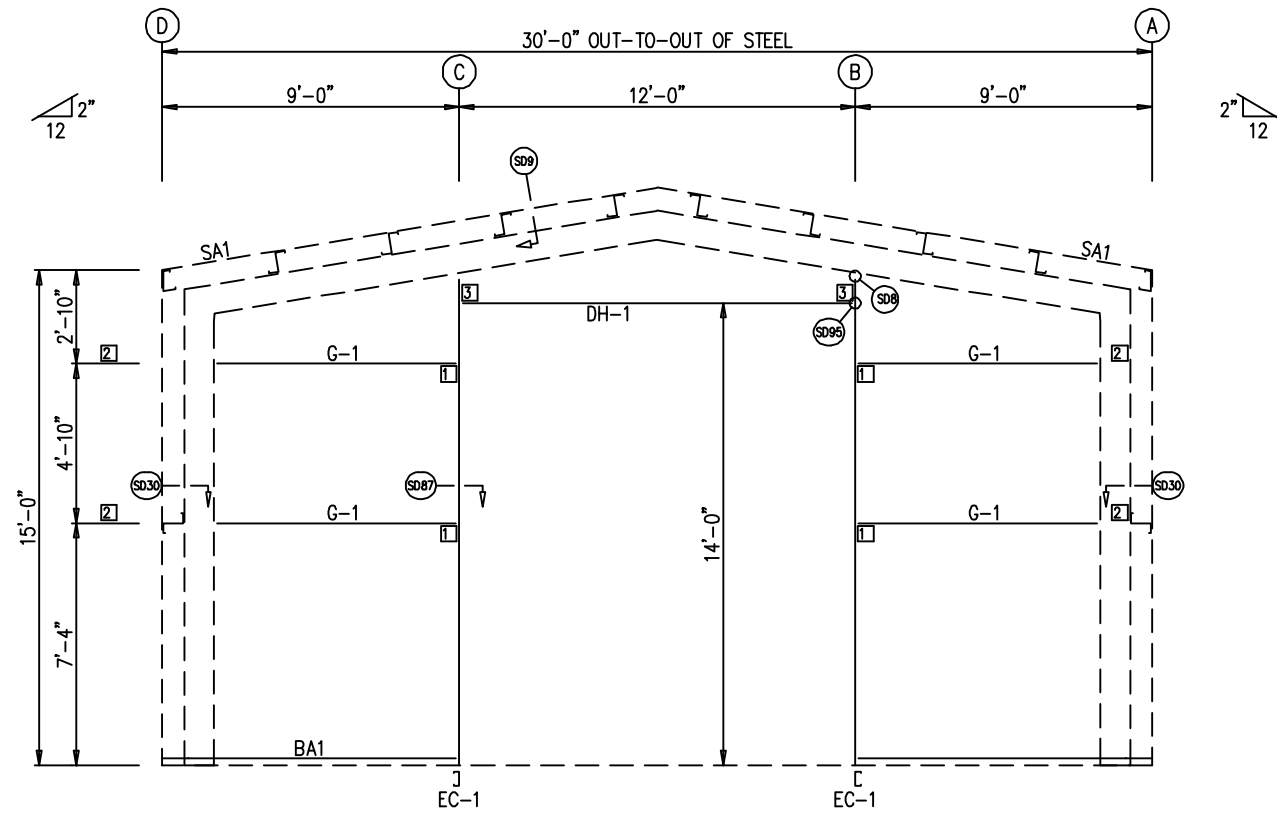
ID	QUAN	PART	LENGTH	DETAIL
1	4	FL-60	10'-2"	TD74
2	2	FL-10	15'-0"	TD40
3	2	FL-32	10'-1"	TD15
4	4	FL-31	10'-2"	TD15
5	1	FL-32L	11'-2"	TD13
6	1	FL-33L	8"	TD85
7	1	FL-32R	11'-2"	TD13
8	1	FL-33R	8"	TD85

QUAN	MARK	PART	LENGTH
1	E-1	L08E16-2	19'-11 1/2"
1	E-2	L08E16-2	19'-11 1/2"
1	G-4	8X25Z16	22'-1 1/2"
1	G-5	8X25Z16	22'-1 1/2"
1	CB-3	RD0500	23'-7 3/4"
1	CB-4	RD0500	23'-11 1/2"

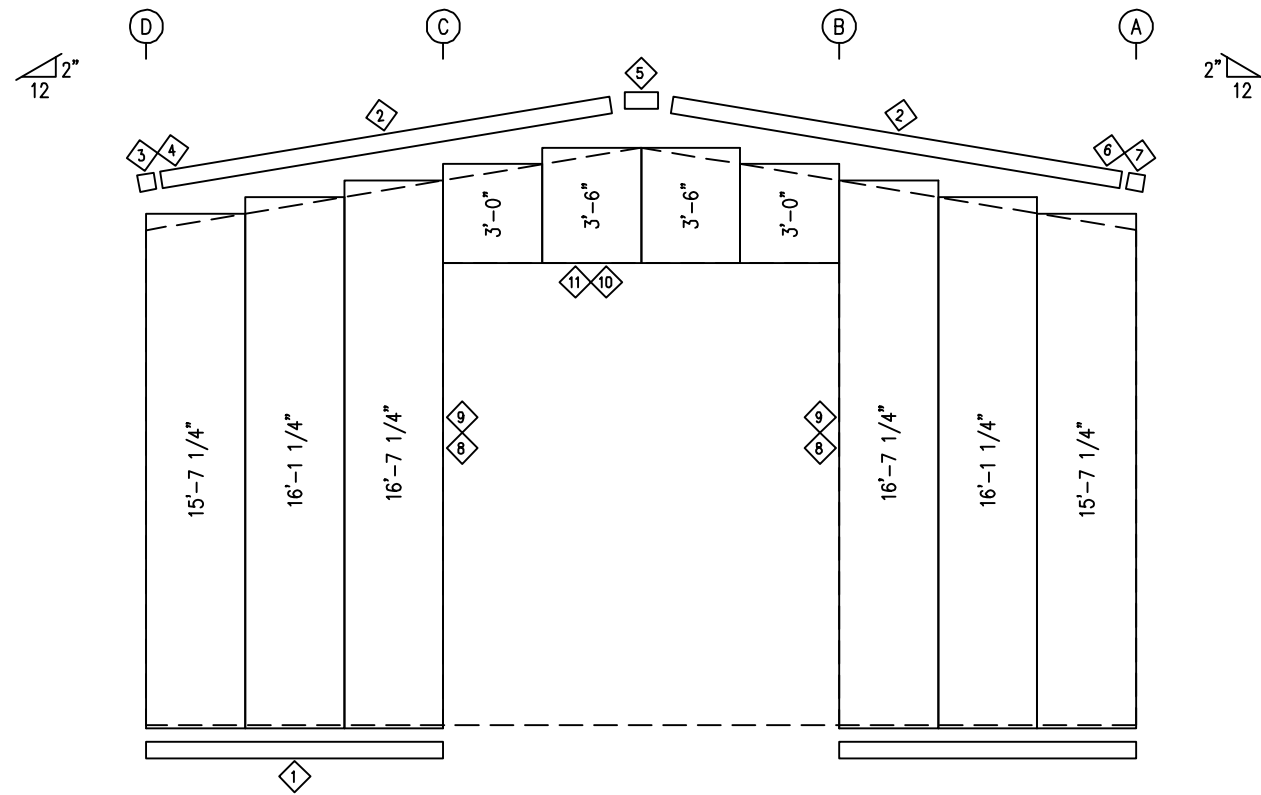
ISSUE	APPROVAL	DATE	DWN.	CHK.	ENG.

CUSTOMER NAME:	
PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
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SHEET TITLE:	SIDEWALL FRAMING & SHEETING

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ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1  
PANELS: 26 GA. PBR - ASH GRAY

TRIM TABLE FRAME LINE 1				
ID	QUAN	PART	LENGTH	DETAIL
1	2	FL-60	10'-2"	TD74
2	2	FL-21	5'-3"	TD35
3	1	FL-21L	11'-2"	TD85
4	1	FL-328L	9 1/2"	TD13
5	1	FL-23	1'-4"	
6	1	FL-21R	11'-2"	TD85
7	1	FL-328R	9 1/2"	TD13
8	2	FL-55	14'-2"	TD51
9	2	FL-48	14'-2"	TD51
10	1	FL-55	12'-7"	TD52
11	1	FL-52	12'-4"	TD52

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
COLUMNS/RAFTER	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 1			
QUAN	MARK	PART	LENGTH
2	EC-1	8X35C16	14'-10 1/4"
1	DH-1	8x25C16	11'-11 1/2"
4	G-1	8X25Z16	7'-1"

CONNECTION PLATES FRAME LINE 1		
ID	QUAN	MARK
1	4	CL-103
2	4	4" ZEE
3	2	CL-100

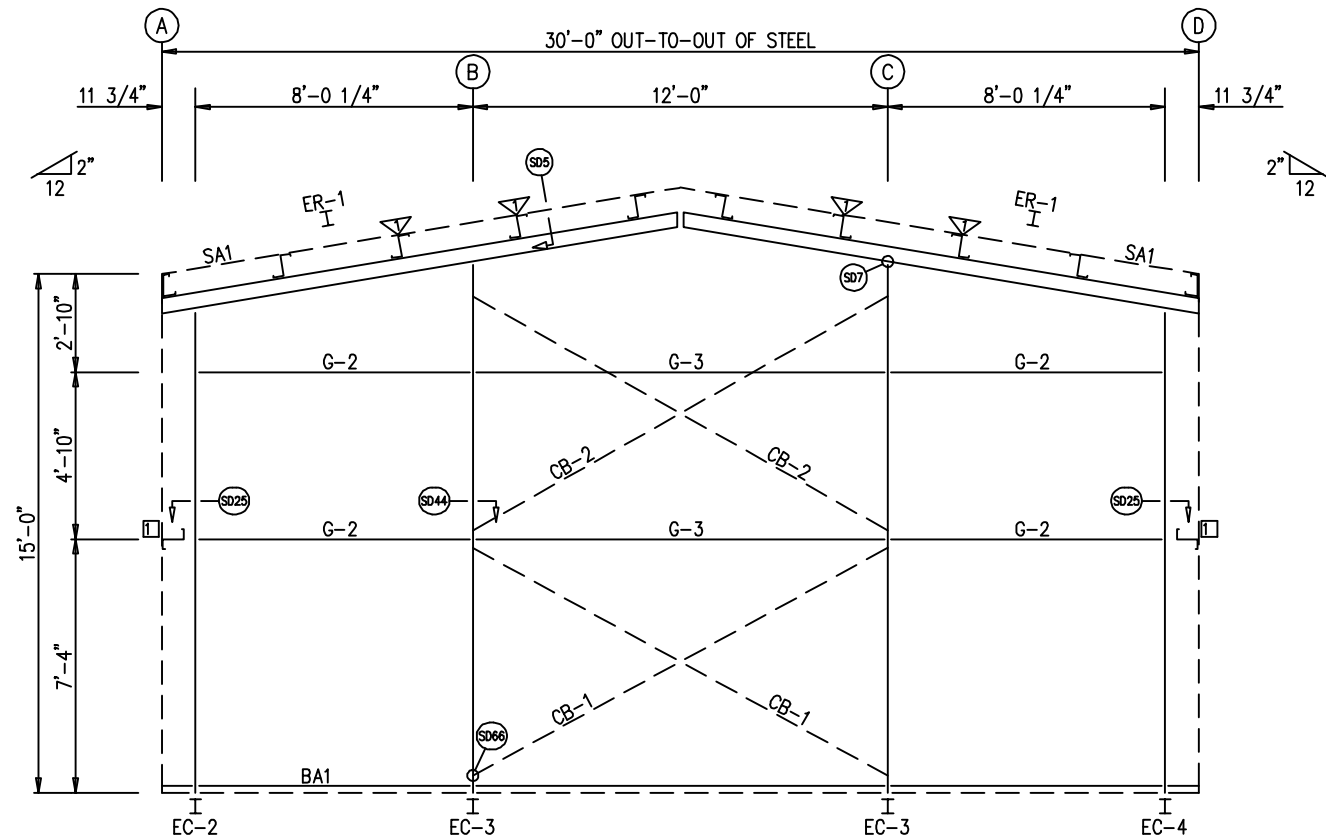
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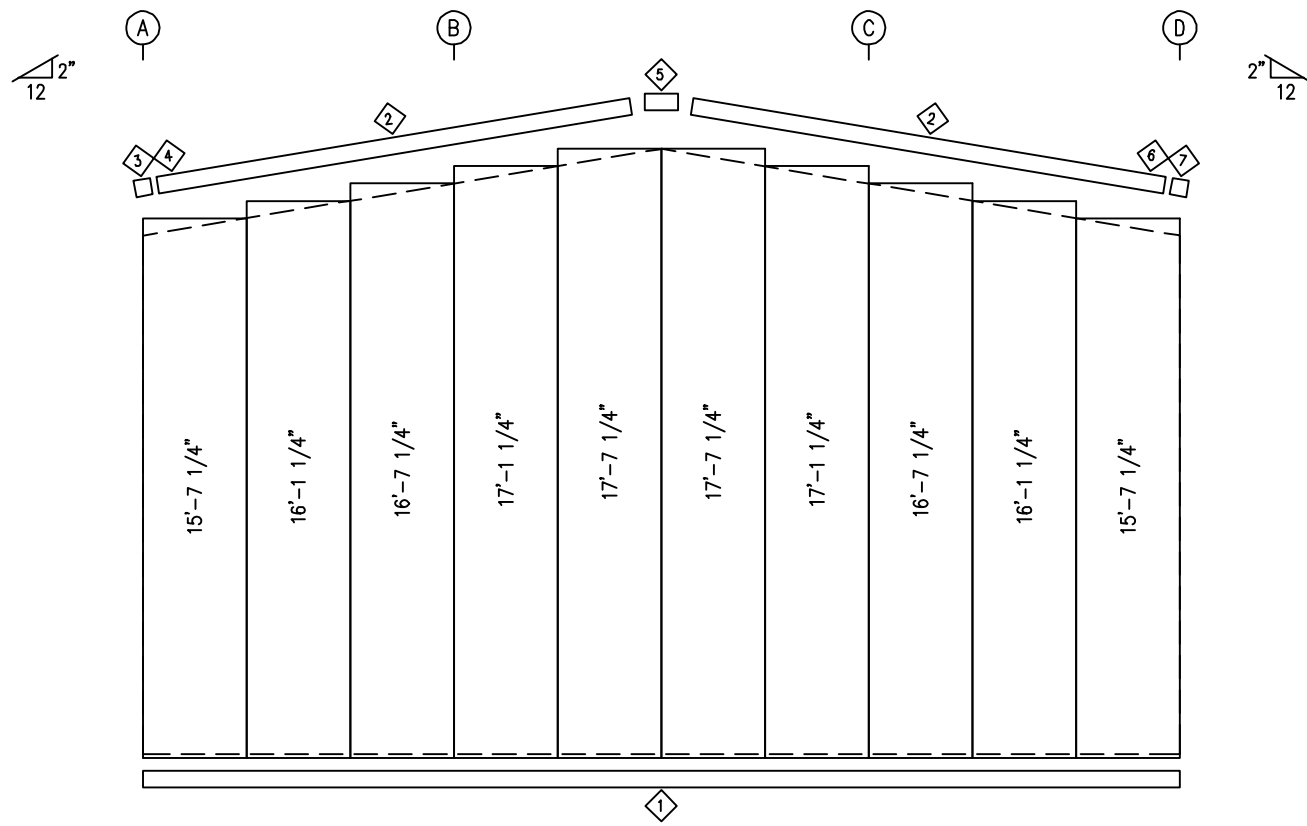
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ENDWALL FRAMING: FRAME LINE 3



ENDWALL SHEETING & TRIM: FRAME LINE 3  
PANELS: 26 GA. PBR - ASH GRAY

TRIM TABLE FRAME LINE 3				
ID	QUAN	PART	LENGTH	DETAIL
1	3	FL-60	10'-2"	TD74
2	2	FL-21	5'-3"	TD35
3	1	FL-21L	11'-2"	TD85
4	1	FL-328L	9 1/2"	TD13
5	1	FL-23	1'-4"	
6	1	FL-21R	11'-2"	TD85
7	1	FL-328R	9 1/2"	TD13

BOLT TABLE FRAME LINE 3				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-1	8	A325	5/8"	1 1/2"
COLUMNS/RAFTER	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 3			
QUAN	MARK	PART	LENGTH
1	EC-2	W8X10	13'-8 7/8"
2	EC-3	W8X10	15'-0 7/8"
1	EC-4	W8X10	13'-8 7/8"
2	ER-1	W8X10	15'-2 1/4"
4	G-2	8X25Z16	7'-4 1/4"
2	G-3	8X25Z16	11'-4"
2	CB-1	RD0500	14'-0 3/4"
2	CB-2	RD0500	14'-3"

CONNECTION PLATES FRAME LINE 3		
ID	QUAN	MARK
1	2	CL-5

FLANGE BRACE TABLE FRAME LINE 3		
ID	QUAN	MARK
1	4	FB29.3

DATE	DWN.	CHK.	ENG.



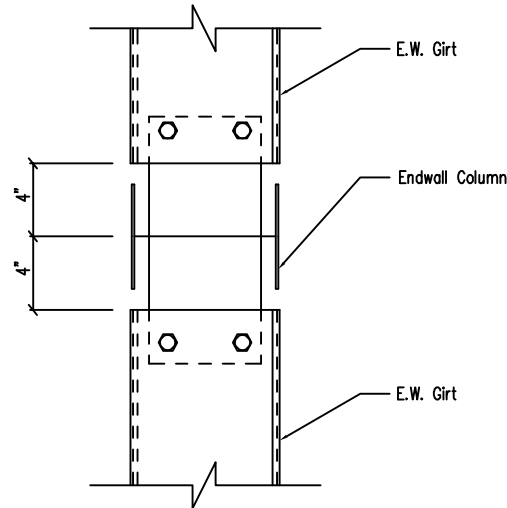
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PROJECT LOCATION:	
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CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
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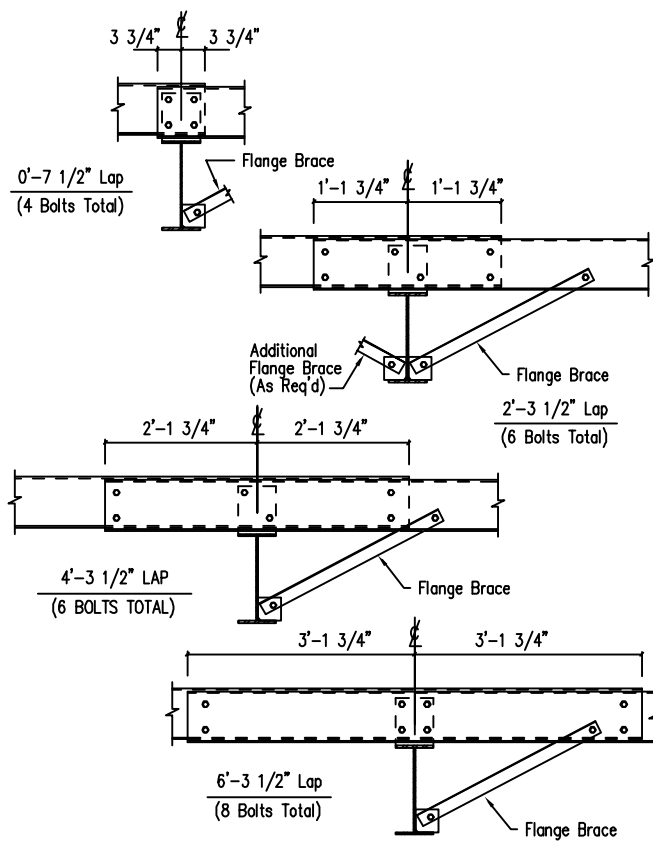






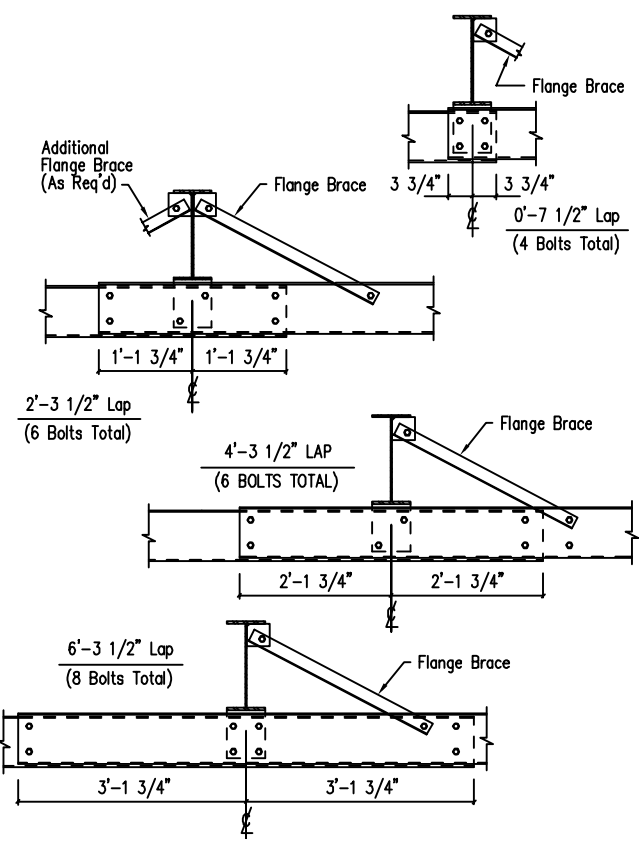
Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.

Girt to Hot Rolled Endwall Column Connection SD44



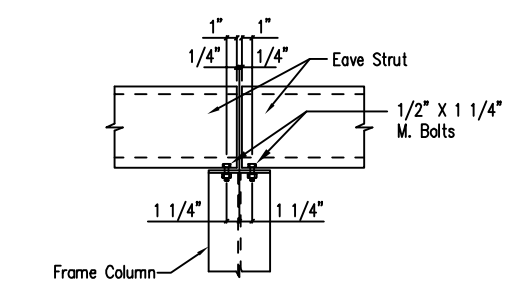
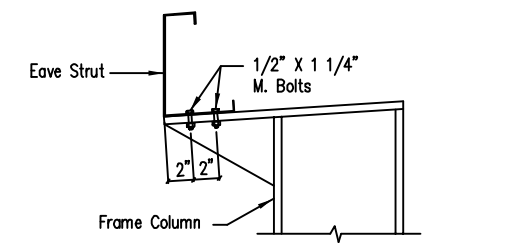
Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.

Interior Bay Purlin Framing SD50

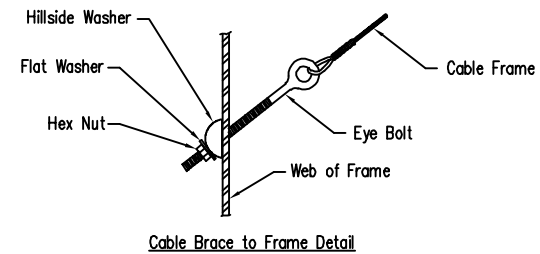


Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.

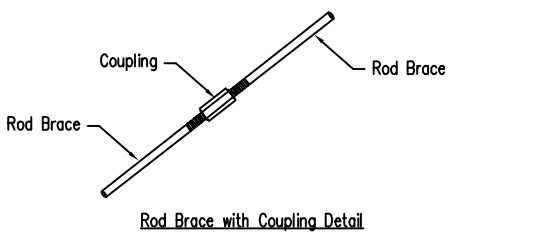
Interior Bay Girt Framing SD51



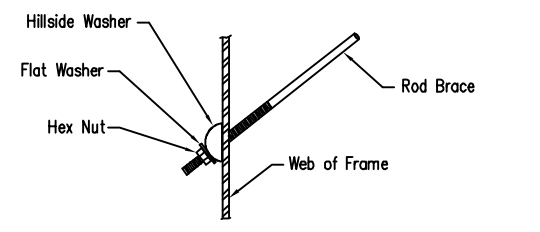
Eave Strut at Interior Column By-Pass Sidewall SD59



Cable Brace to Frame Detail

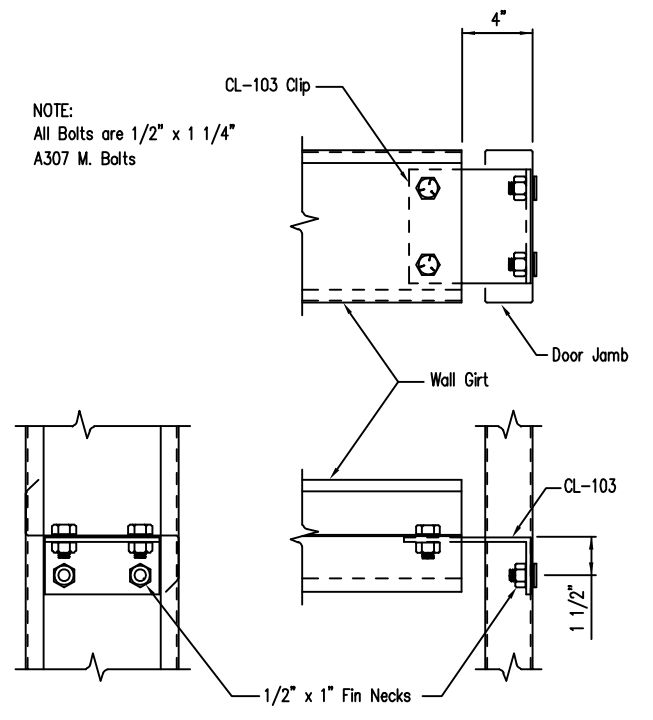


Rod Brace with Coupling Detail



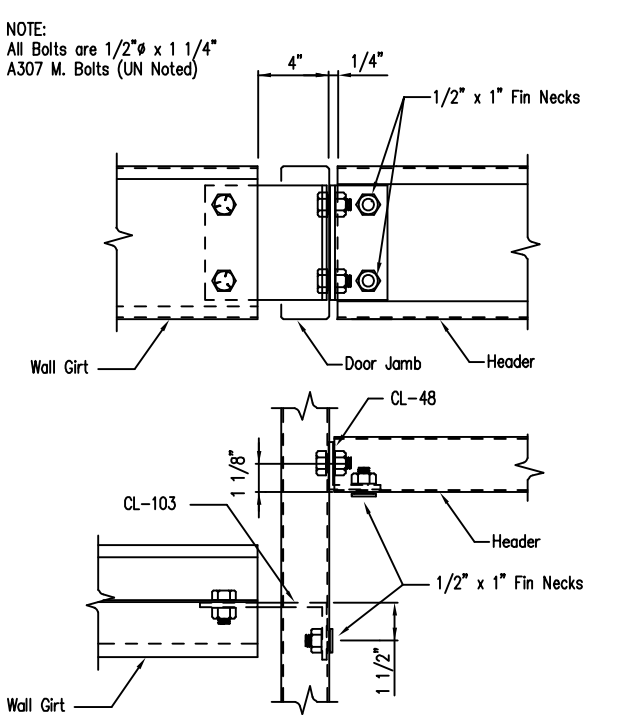
Rod Brace to Frame Detail

Cable or Rod Brace to Frame Connection SD66



ERECTOR NOTE: IF CLIP BOXES ON BUILDING ELEVATION VIEW(S) ARE BELOW THE INTENDED GIRT LINE, THE CLIP(S) IN REFERENCE ARE TOED DOWN. IF ABOVE THE GIRT LINE, THEN TOED UP. THE DRAWINGS ABOVE ARE TOED DOWN FOR REFERENCE.

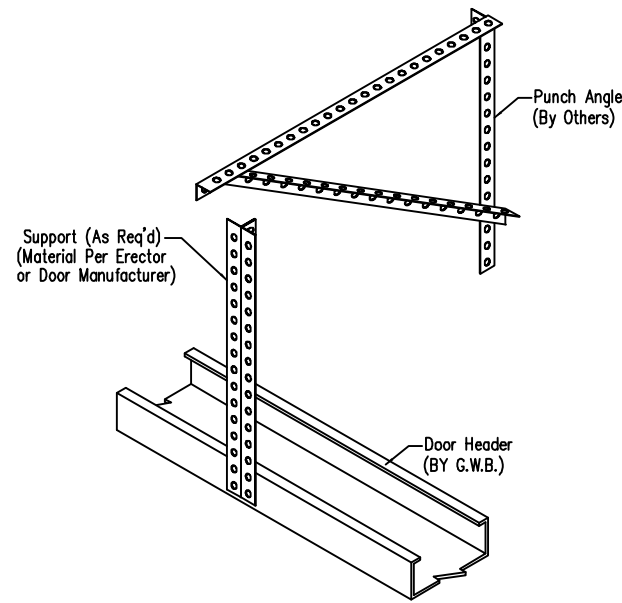
Girt to Jamb (Bolted Clips) SD87



NOTE: All Bolts are 1/2" x 1 1/4" A307 M. Bolts (UN Noted)

ERECTOR NOTE: IF CLIP BOXES ON BUILDING ELEVATION VIEW(S) ARE BELOW THE INTENDED GIRT LINE, THE CLIP(S) IN REFERENCE ARE TOED DOWN. IF ABOVE THE GIRT LINE, THEN TOED UP. THE DRAWINGS ABOVE ARE TOED DOWN FOR REFERENCE.

Girt/Header to Jamb SD95



ERECTOR NOTE: ALL MATERIAL BY OTHERS (U.N.) FIELD FABRICATE & ASSEMBLE AS REQ'D. CONNECTION TO MEMBER ABOVE SIMILAR TO HEADER CONNECTION.

Overhead Door Torsion Bar Bearing Connection SD101

DATE	ISSUE	APPROVAL	CHK.	ENG.
1/1/14			MEZ	RTS

1101 3RD AVE  
GRAND JUNCTION, CO 81501  
PHONE: (800)-497-2135  
WWW.GREATWESTERNBUILDINGS.COM

CUSTOMER NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	14 OF 18
JOB NUMBER:	94852-86504
SHEET TITLE:	DETAIL DRAWINGS

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY GREAT WESTERN BUILDINGS. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF GREAT WESTERN BUILDINGS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL AND SIGNATURE APPEARS ON THESE DRAWINGS IS EMPLOYED BY GREAT WESTERN BUILDINGS AND DOES NOT SERVE AS OR REPRESENT THE OVERALL PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.









