BUILDER / CONTRACTOR RESPONSIBILITIES

IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO INSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS 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 THE BUILDING MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.

THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.

APPROVAL OF THE MANUFACTURER'S DRAWINGS AND CALCULATIONS INDICATE THAT THE BUILDING MANUFACTURER CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. (SECT. 4.2.1 AISC CODE OF STANDARD PRACTICES, 9TH ED.)

WHERE DISCREPANCIES EXIST BETWEEN THE MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE 9TH ED.)

DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY THE BUILDING MANUFACTURER ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN THE BUILDING MANUFACTURER'S ENGINEERS UNLESS SPECIFICALLY INDICATED.

THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE BUILDING MANUFACTURER'S "FOR CONSTRUCTION" DRAWINGS.

PRODUCTS SHIPPED TO BUILDER OR HIS CUSTOMER SHALL BE INSPECTED BY BUILDER IMMEDIATELY UPON ARRIVAL. CLAIMS FOR SHORTAGES OR DEFECTIVE MATERIAL IF NOT PACKAGED MUST BE MAILED TO THE MANUFACTURER IN WRITING WITHIN FIVE (5) DAYS AFTER RECEIPT OF THE SHIPMENT. HOWEVER, IF A DEFECT IS OF SUCH A NATURE THAT REASONABLE VISUAL INSPECTION WOULD FAIL TO DISCLOSE IT, THEN THE CLAIM MUST BE MADE WITHIN FIVE (5) DAYS AFTER THE BUILDER LEARNS OF THE DEFECT. THE MANUFACTURER WILL NOT BE LIABLE FOR ANY DEFECT UNLESS CLAIM IS MADE WITHIN ONE (1) YEAR AFTER DATE OF THE ORIGINAL SHIPMENT BY THE MANUFACTURER TO BUILDER OR HIS CUSTOMER. THE MANUFACTURER WILL BE GIVEN A REASONABLE OPPORTUNITY TO INSPECT DEFECTIVE MATERIALS UPON RECEIPT OF CLAIM BY BUILDER.

IF A DEFECT IS OF SUCH NATURE THAT IT CAN BE REMEDIED BY A FIELD OPERATION AT THE JOB SITE WITHOUT THE NECESSITY OF RETURNING THE MATERIAL TO THE MANUFACTURER, THEN UPON WRITTEN AUTHORIZATION OF THE MANUFACTURER THE BUILDER MAY REPAIR OR CAUSE THE MATERIAL TO BE REPAIRED AND THE MANUFACTURER WILL REIMBURSE THE BUILDER FOR THE COST OF THE REPAIR IN ACCORDANCE WITH THE WRITTEN AUTHORIZATION.

ALL BRACING AS SHOWN AND PROVIDED BY THE MANUFACTURER FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.

TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION OR COLLISION. (SECT. 7.9.1 AISC CODE OF STANDARD PRACTICE, 9TH ED.)

DESIGN OF GUTTER AND DOWNSPOUT IS A FUNCTION OF THE RAINFALL INTENSITY AND AREA TO BE DRAINED. DESIGN PARAMETERS UTILIZED ARE IN ACCORDANCE WITH THE 1986 LOW RISE BUILDING SYSTEMS MANUAL AND/OR THE 9TH EDITION OF THE ARCHITECTURAL GRAPHIC STANDARDS, AS APPLICABLE. PROPER OWNER MAINTENANCE DICTATES THAT THE DRAINAGE SYSTEM BE KEPT FREE AND CLEAR OF DEBRIS AND/OR ICE AT ALL TIMES TO ENSURE PROPER FUNCTION OF THE GUTTER AND DOWNSPOUT. IN THOSE CASES WHERE THE OWNER/TENANT OF A PROPERTY IS UNWILLING OR UNABLE TO PROVIDE PROPER MAINTENANCE, ELIMINATION OF GUTTER SHOULD BE CONSIDERED AS AN ALTERNATIVE.

PRODUCT CERTIFICATIONS

THE BUILDING MANUFACTURER'S FABRICATION AND PRODUCTS ARE COVERED BY ONE OR MORE OF THE FOLLOWING CERTIFICATIONS:

1. CITY OF HOUSTON APPROVED FABRICATOR (REGISTRATION NO. 763)
2. IAS ACCREDITATION CRITERIA AC472

A325 PRIMARY FRAMING BOLTS

All A325 bolts in primary framing (rigid fames and bracing) may be "snug-tight" except as follows:

"Fully-pretension" A325 bolts if:

A) Building supports a crame system with a capacity greater than 5 tons.
B) Building supports machinery that creates vibration, impact, or stress-reversals on the connnections. The Engineer-of-Record for the project should be consulted to evaluate for this condition.
C) The project site is located in a high seismic area. For IBC-based codes, "High Seismic Area" is defined as Seismic Design Category of 'D', 'E', or 'F'. See the "Building Loads" section on this page for the defined seismic design category for this project.
D) Any connection designated in these drawings as "A325-SC". "Slip-Critical (SC)" connections must be free of paint, oil, or other materials that reduce friction at contact surfaces. Galvanized or light-rusted surfaces are acceptable.

APPROVAL NOTES

THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS:

A) IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS:

1) BE MADE IN CONTRASTING INK.
3) HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED.
2) BE LEGIBLE AND UNAMBIGUOUS.

B) DATED SIGNATURE IS REQUIRED ON ALL PAGES.

C) MANUFACTURER RESERVES THE RIGHT TO RE-SUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED TO AVOID MISFABRICATION. THIS MAY IMPACT THE DELIVERY SCHEDULE.

D) APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE MANUFACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN, OR AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTAL OF THE MATERIALS TO BE SUPPLIED BY MANUFACTURER.

E) ANY CHANGES NOTED ON THE DRAWINGS NOT IN CONFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECOGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTUAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILAR INDICATION OF APPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERATIONS TO THESE DRAWING NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

STRAIGHT LINE METAL BUILDINGS

DESIGN • FABRICATION • ERECTION

32916 FM 529 • BROOKSHIRE, TX 77423 • (281) 375-2020

GENERAL NOTES

THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS, OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. THE BUILDING MANUFACTURER WILL ASSUME NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.

THIS METAL BUILDING IS DESIGNED WITH THE BUILDING MANUFACTURER'S STANDARD PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES.

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION: "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
2. AMERICAN IRON AND STEEL INSTITUTE: "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS"
3. AMERICAN WELDING SOCIETY: "STRUCTURAL WELDING CODE" AWS D1.1.
4. METAL BUILDING MANUFACTURER'S ASSOCIATION: "LOW RISE BUILDING SYSTEMS MANUAL"
5. INTERNATIONAL BUILDING CODE
6. WARNING: IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSION EFFECTS ON THE ALUMINUM ZINC ALLOY COATING WHEN THEY ARE USED IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.

MATERIAL PROPERTIES OF STEEL PLATE USED IN THE FABRICATION OF PRIMARY RIGID FRAMES, AND OTHER PRIMARY STRUCTURAL EXCLUSIVE OF COLD-FORMED SECTIONS, CONFORM TO ASTM-A529 OR A-572 . FLANGES WITH THICKNESS OF ONE INCH OR LESS AND WIDTH OF 12" OR LESS CONFORM TO A-529 WITH A MINIMUM YIELD POINT OF 55,000 psi. FLANGES GREATER THAN 1" IN THICKNESS OR 12" IN WIDTH CONFORM TO A-572 WITH A MINIMUM YIELD POINT OF 50,000 psi. WEB MATERIAL CONFORMS TO ASTM-A36 MODIFIED WITH A MINIMUM YIELD POINT OF 46,000 psi.

MATERIAL PROPERTIES OF PIPE SECTIONS CONFORM TO ASTM-A53 TYPE E, GRADE B WITH A MINIMUM YIELD POINT OF 35,000 psi.

MATERIAL PROPERTIES OF HOT ROLLED STEEL MEMBERS CONFORM TO THE REQUIREMENTS OF ASTM-A36 OR A572 WITH A MINIMUM YIELD POINT OF 50,000 psi.

MATERIAL PROPERTIES OF COLD FORMED LIGHT GAGE STEEL MEMBERS CONFORM TO ASTM-A570 OR A607 GRADE 55 MODIFIED WITH A MINIMUM YIELD POINT OF 57,000 psi.

MATERIAL PROPERTIES OF ROOF/WALL SHEETING, BASE METAL CONFORM TO ASTM-A792 GRADES D OR E WITH MINIMUM YIELD POINTS OF 50,000 psi AND 80,000 psi RESPECTIVELY, AS REQUIRED BY DESIGN. COATING OF BASE MATERIAL IS 55% ALUMINUM-ZINC ALLOY IN ACCORDANCE WITH AZ55 SPECIFICATIONS.

CABLE UTILIZED FOR BRACING CONFORMS TO ASTM A475. CABLE BRACING IS TO BE INSTALLED TO A TAUT CONDITION WITH ALL SLACK REMOVED.

ROD AND ANGLE UTILIZED FOR BRACING MEMBERS CONFORM TO ASTM A36.

STRUCTURAL JOINTS WITH A.S.T.M. A-325 HIGH STRENGTH BOLTS, WHERE INDICATED ON THE DRAWINGS, SHALL BE ASSEMBLED AND THE FASTENERS TIGHTENED IN ACCORDANCE WITH "TURN-OF-NUT" METHOD AS DESCRIBED IN THE SPECIFICATION FOR STRUCTURAL JOINTS USING A.S.T.M. A-325 OR A-490 BOLTS (11-13-85), UNLESS OTHERWISE NOTED. ALL JOINTS WILL BE ASSEMBLED WITHOUT WASHERS UNLESS OTHERWISE NOTED.

ALL STEEL MEMBERS EXCEPT BOLTS, FASTENERS AND CABLE SHALL RECEIVE ONE SHOP COAT OF IRON OXIDE CORROSION INHIBITIVE PRIMER, MEETING THE PERFORMANCE REQUIREMENTS OF TTP-636.

SHOP AND FIELD INSPECTIONS AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS STIPULATED OTHERWISE IN THE CONTRACT.

SAFETY COMMITMENT

THE BUILDING MANUFACTURER 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

IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP CONTROL OF THE BUILDING MANUFACTURER.

PRIORITY OF ANY JOB SITE.

LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE WORKER 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.

IAS ACCREDITED METAL BUILDING SYSTEMS AC 472

BUILDING DESCRIPTION:

ENDWALL FRAME TYPE

BASIC SIZE:	WIDTH	LENGTH	HEIGHT	ROOF PITCH	LEFT	RIGHT
RF	100'	100'	28'	3.0:12	NON EXPANDABLE RIGID FRAME	NON EXPANDABLE RIGID FRAME

BASE CONDITION:		SHEETING:			BLANKET TYPE INSULATION:	
BASE ANGLE	24	ULTRA DEK – GALVALUME +	ROOF		NONE ☒ BY MANUFACTURER	BY OTHERS
	26	PBR – LIGHT STONE	WALL		INSULATION TYPE ROOF: R–10 / VR	WALL: R–10 / VR
TAPE SEAL:		N/A	SOFFIT		ALL SCREWS ARE LONG LIFE	
		N/A	LINER		MEMBER ROOF(#12 x 1 1/4" S.D.S)	STITCH ROOF(#14 x 7/8" S.D.S)
7/8" ☒	26	FERN GREEN	RAKE		MEMBER WALL(#12 x 1 1/4" S.D.S)	STITCH WALL(#14 x 7/8" S.D.S)
1" ☐	26	FERN GREEN	EAVE		RAKE TO ROOF: #14 x 7/8" S.D.S	RAKE TO WALL: #14 x 7/8" S.D.S
WARRANTIES	26	FERN GREEN	GUTTER		GUTTER TO ROOF: #14 x 7/8" S.D.S	GUTTER STRAPS: #14 x 7/8" S.D.S
U.L. 90 NO	26	FERN GREEN	DOWNS.		CORNER TRIM: #14 x 7/8" S.D.S	RAKE ANGLE: FASTENER #12A
20 YR ROOF NO	26	FERN GREEN	CORNER		STRUCTURAL PRIMER: RED OXIDE	
20 YR WALL NO	26	FERN GREEN	JAMB		ADDITIONAL FEATURES: (2) CONTINUOUS VENT 9" X 120" FLAT GALVALUME PLUS (2) 3070 WALKDOOR PKG TYPE M DEADBOLT, PASSAGE LEVER GRAY 8 1/4 FR: HW9200 (2) ANTI–PANIC HARDWARE SURFACE MOUNT w/ LEVER LOCK SET (1) 12 X 20 ROLLING STEEL DOOR GRAY COLOR (1) 20 X 20 ROLLING STEEL DOOR GRAY COLOR (2) LIFTMASTERS OPERATORS 3 PHASE (2) 5 X 5 FIXED LOUVERS MILL FINISHED	

ANCHOR BOLTS: BY OTHERS ☒ / BY BUILDING MANUFACTURER ☐

DESIGN REFERENCES

COLD FORMED STEEL DESIGN MANUAL, NAUS, 2016

STEEL CONSTRUCTION MANUAL, AISC 360-16

INTERNATIONAL BUILDING CODE, 2021 EDITION

DESIGN LOADING

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED BY THE:

IBC 21

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

SPECIFIC LOADS - (SEE STRUCTURAL CALCULATIONS AND FOUNDATION REACTIONS.)

2	USE CATEGORY (Is = 1.0) (Iw = 1.0) (Ie = 1.0)
2.000	PSF DEAD LOAD BLDG. WEIGHT - (PURLINS, PANELS, ETC.)
20.00	PSF LIVE LOAD
	LL REDUCTION ALLOWED: YES
5.0	PSF GROUND SNOW LOAD
3.85	PSF ROOF SNOW LOAD
0.5	PSF COLLATERAL LOAD (CEILINGS, SPRINKLERS, ETC.)
115	MPH WIND SPEED EXPOSURE C (IF APPLICABLE)
	WIND CLOSURE CATEGORY ENCLOSED
.	COMPONENT WIND LOAD (psf)

CRANE LOAD .

SEISMIC DATA :

BASED ON: IBC 21

REQUIRED DESIGN DATA

1) SEISMIC CRITERIA = Ss = 0.05 S1 = 0.03
2) SEISMIC HAZARD EXPOSURE GROUP = 0
3) SEISMIC PERFORMANCE CATEGORY = A
4) SOIL PROFILE TYPE = D SITE COEFF = 0.08
5) BASIC STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM = STEEL ORDINARY MOMENT RESISTING FRAME
6) RESPONSE MODIFICATION FACTORS: R (FRAMES) = 3
R (BRACING) = X
7) DEFLECTION AMPLIFICATION FACTOR: FRAMES: CD =
BRACING: CD = X
8) ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE

DRAWING INDEX

ISSUE	PAGE	DESCRIPTION
1	COVER	COVER SHEET
1	E1	ROOF FRAMING
1	E2	BACK SIDEWALL FRAMING
1	E3	FRONT SIDEWALL FRAMING
1	E4	LEFT ENDWALL FRAMING
1	E5	RIGHT ENDWALL FRAMING
1	E6	RIGID FRAME ELEVATION
1	E7	RIGID FRAME ELEVATION
1	E8	RIGID FRAME ELEVATION
1	D1	DETAIL DRAWINGS
1	D2	DETAIL DRAWINGS
1	D3	DETAIL DRAWINGS
1	D4	DETAIL DRAWINGS
1	D5	DETAIL DRAWINGS
1	AB1	ANCHOR BOLT PLAN
1	AB2	ANCHOR BOLT DETAILS
1	AB3	ANCHOR BOLT REACTIONS

DRAWING STATUS

- ☐ FOR APPROVAL: THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
- ☐ FOR PERMIT: THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY DRAWINGS ISSUED `` FOR CONSTRUCTION " CAN BE CONSIDERED AS COMPLETE.
- ☒ FOR CONSTRUCTION: FINAL DRAWINGS.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

STRAIGHT LINE METAL BUILDINGS — DESIGN • FABRICATION • ERECTION

32916 FM 529 BROOKSHIRE, TX 77423 (281) 375-2020

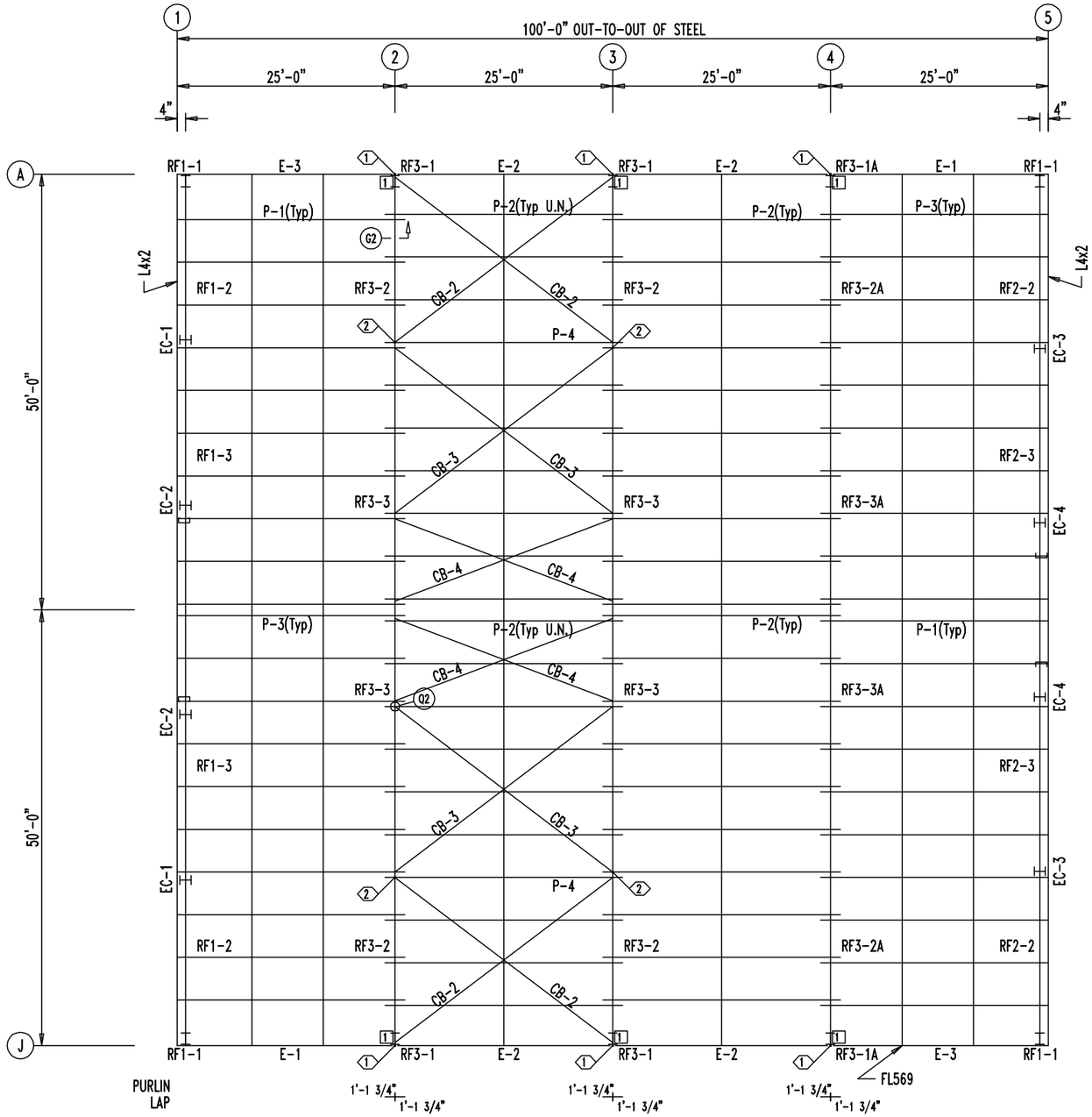
DESCRIPTION	COVER
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

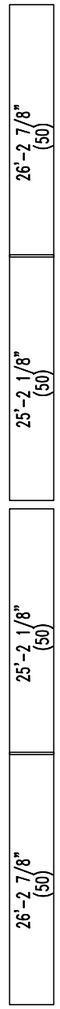
DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	COVER	1

SPECIAL BOLTS ROOF PLAN					
◇ ID	QUAN	TYPE	DIA	LENGTH	
1	8	A325	1/2"	1 1/4"	
2	4	A325	1/2"	1 1/4"	(AT CLIP)

CONNECTION PLATES ROOF PLAN	
□ID	MARK/PART
1	SC18

MEMBER TABLE ROOF PLAN	
MARK	PART
P-1	10X35Z14
P-2	10X35Z14
P-3	10X35Z14
P-4	10X35Z12
E-1	E105323L
E-2	E105323L
E-3	E105323L
CB-2	CBL5000
CB-3	CBL3750
CB-4	CBL2500





ROOF SHEETING

PANELS: 24 Ga. UD
Galvalume +

ROOF FRAMING PLAN

DRAWING STATUS

- ☐ **FOR APPROVAL:** THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
- ☐ **FOR PERMIT:** THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY DRAWINGS ISSUED " FOR CONSTRUCTION " CAN BE CONSIDERED AS COMPLETE.
- ☒ **FOR CONSTRUCTION:** FINAL DRAWINGS.

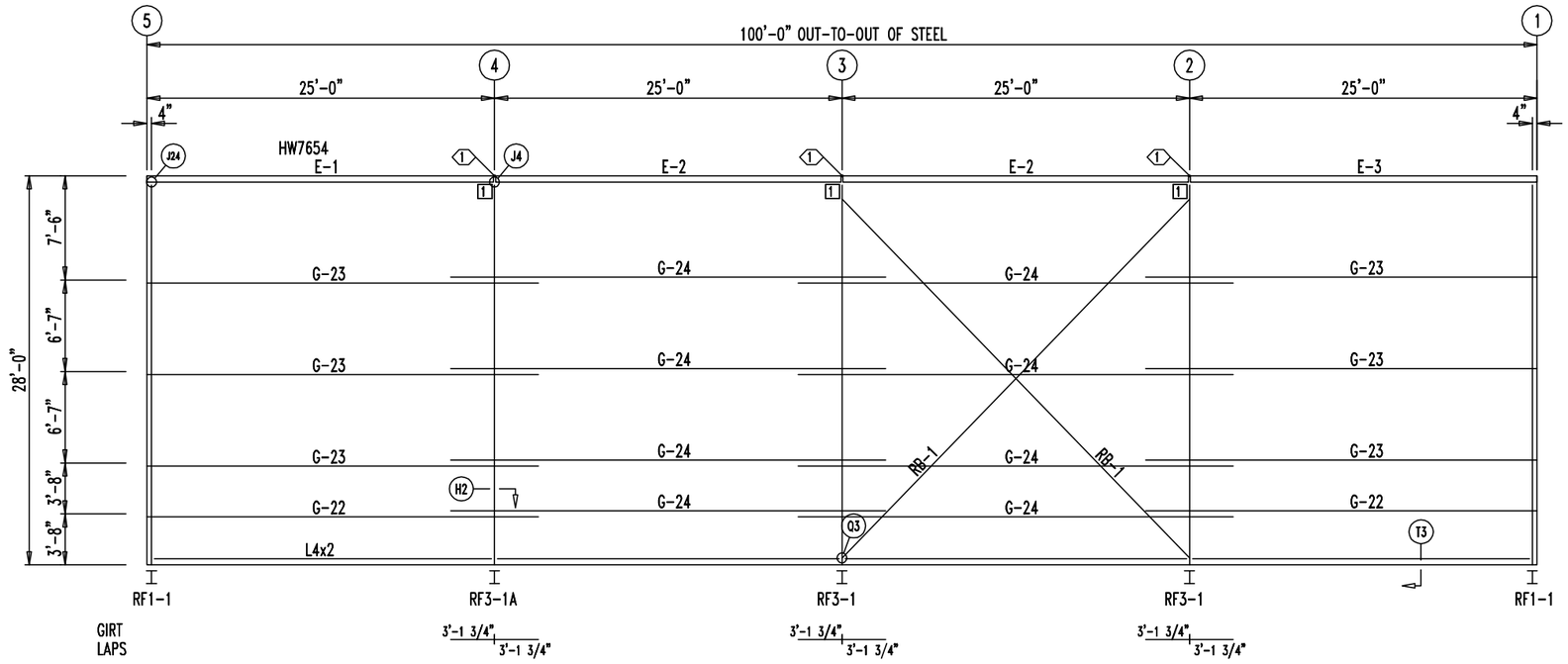
REVISIONS				
NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

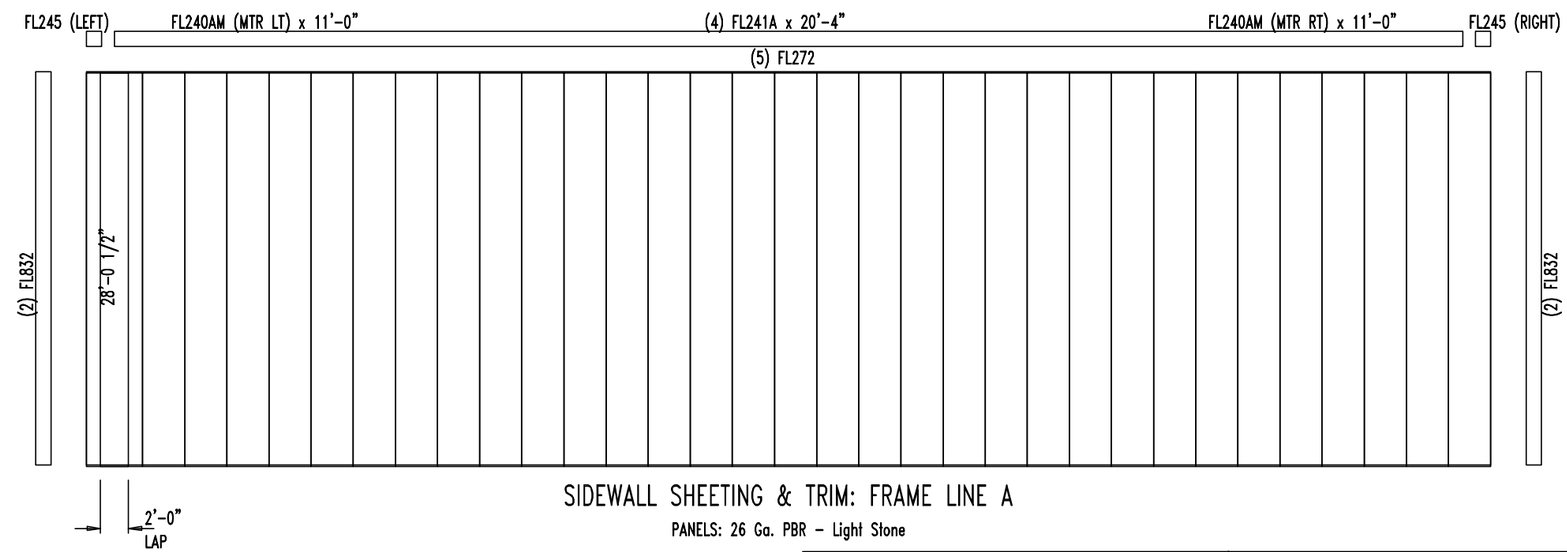
DESCRIPTION	ROOF FRAMING
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	E1 OF 8	1

DOWNSPOUT LOCATIONS
FL31B & FL31E
w/ (6) FL797 Ea. Loc.



SIDEWALL FRAMING: FRAME LINE A



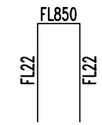
SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR – Light Stone

SPECIAL BOLTS					
◇ ID	QUAN	TYPE	DIA	LENGTH	WASH
1	8	A325	1/2"	1 1/4"	0

CONNECTION PLATES FRAME LINE A	
□ID	MARK/PART
1	SC18

MEMBER TABLE FRAME LINE A	
MARK	PART
E-1	E105323L
E-2	E105323L
E-3	E105323L
G-22	8X25Z16
G-23	8X25Z12
G-24	8X25Z16
RB-1	1"ø ROD



(2) 3070 WALKDOOR TRIM PKG.
(FIELD LOCATE)

DRAWING STATUS

☐ FOR APPROVAL:
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☐ FOR PERMIT:
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☒ FOR CONSTRUCTION:
FINAL DRAWINGS.

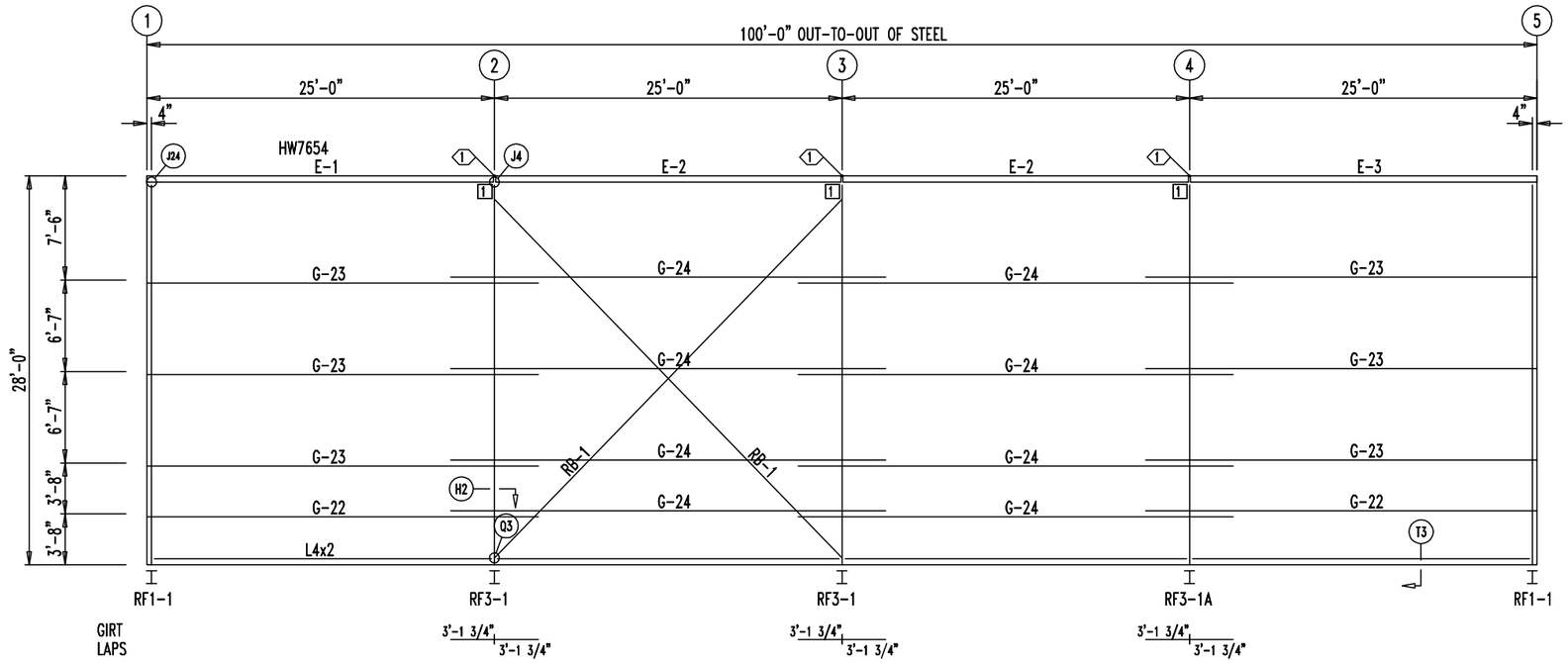
REVISIONS				
NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

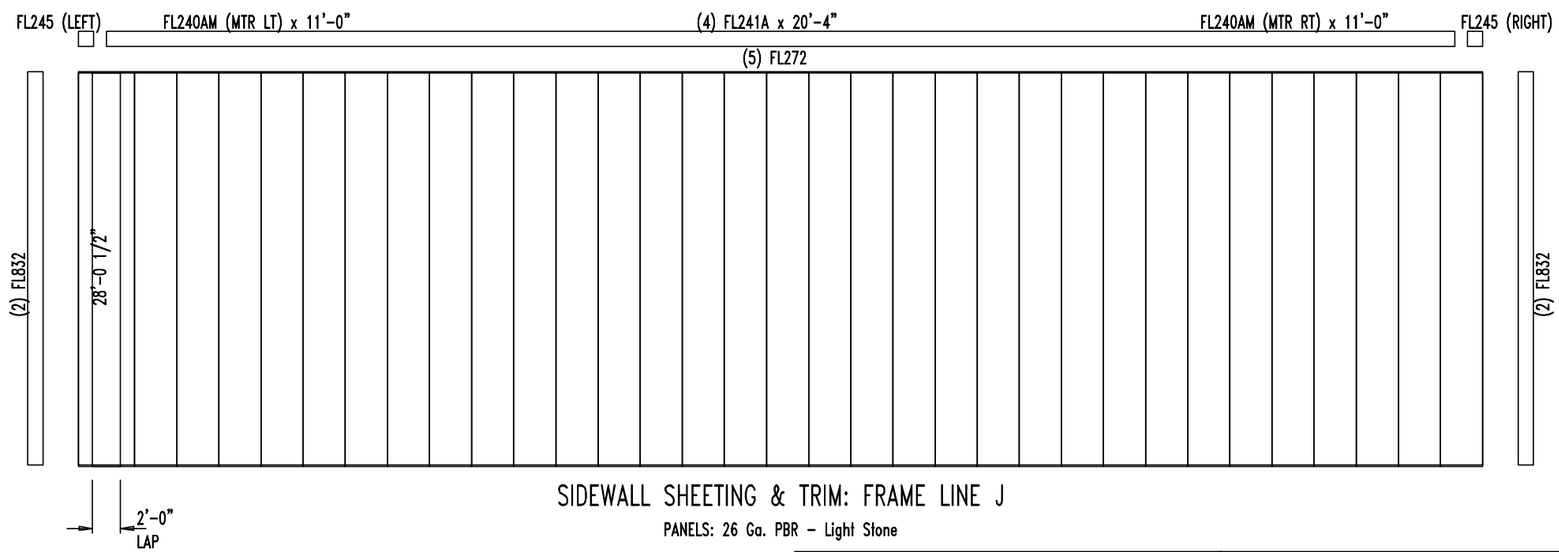
DESCRIPTION	SIDEWALL FRAMING
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	E2 OF 8	1

DOWNSPOUT LOCATIONS
FL31B & FL31E
w/ (6) FL797 Ea. Loc.



SIDEWALL FRAMING: FRAME LINE J



SIDEWALL SHEETING & TRIM: FRAME LINE J

PANELS: 26 Ga. PBR – Light Stone

SPECIAL BOLTS					
ID	QUAN	TYPE	DIA	LENGTH	WASH
1	8	A325	1/2"	1 1/4"	0

CONNECTION PLATES FRAME LINE J	
ID	MARK/PART
1	SC18

MEMBER TABLE FRAME LINE J	
MARK	PART
E-1	E105323L
E-2	E105323L
E-3	E105323L
G-22	8X25Z16
G-23	8X25Z12
G-24	8X25Z16
RB-1	1" ROD

DRAWING STATUS

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- ☒ **FOR CONSTRUCTION:** FINAL DRAWINGS.

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

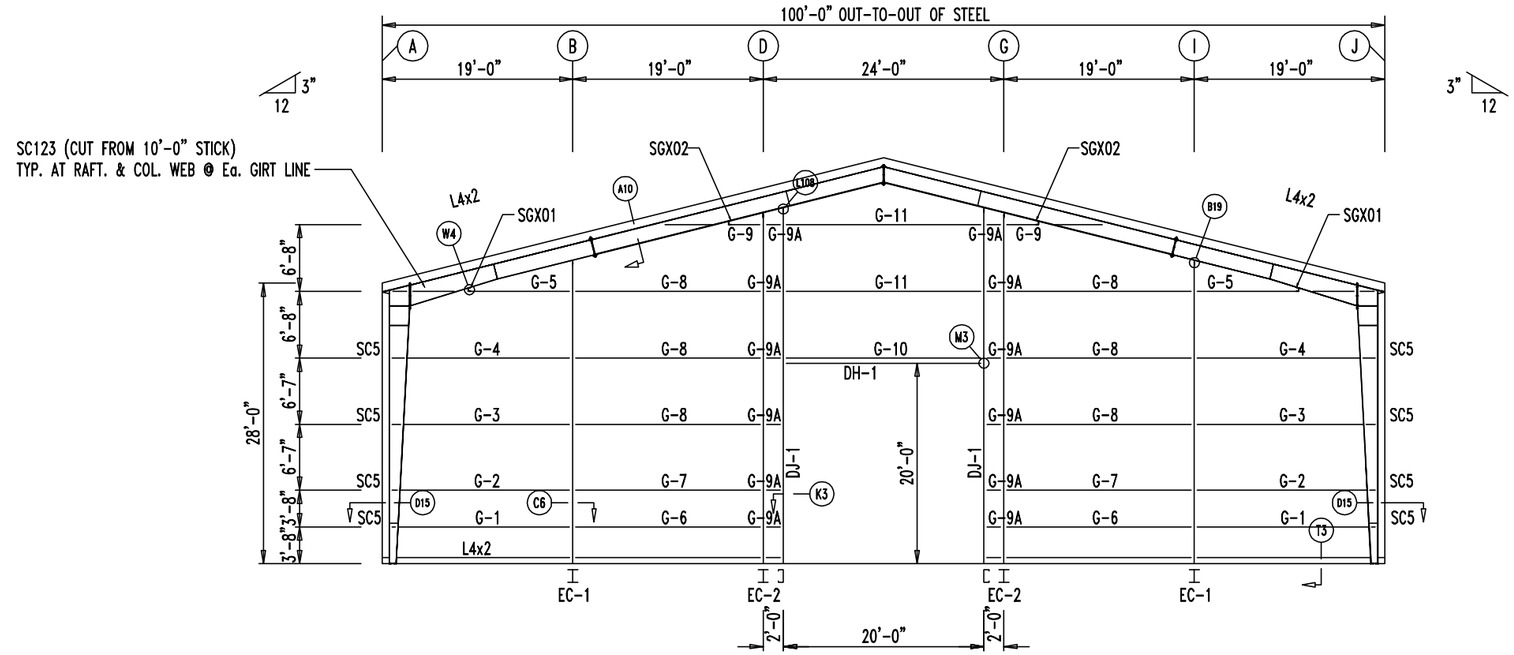
STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

DESCRIPTION	SIDEWALL FRAMING
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

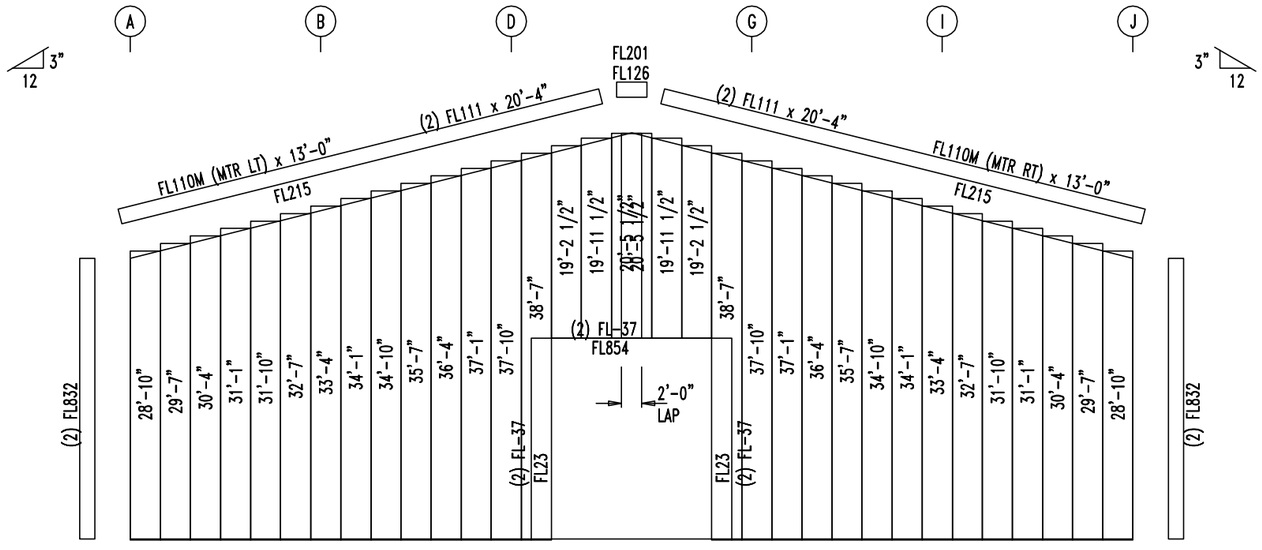
DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	E3 OF 8	1

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	2	A325	5/8"	1 1/2"
Jamb	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 1	
MARK	PART
EC-1	W14X22
EC-2	W14X22
DJ-1	8X35c14
DH-1	8X25c16
G-1	8X25Z16
G-2	8X25Z14
G-3	8X25Z12
G-4	8X25Z12
G-5	8X25Z16
G-6	8X25Z16
G-7	8X25Z14
G-8	8X25Z12
G-9	8X25Z16
G-9A	8X25Z16
G-10	8X25Z16
G-11	8X25Z12



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBR – Light Stone

DRAWING STATUS

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REVISIONS				
NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

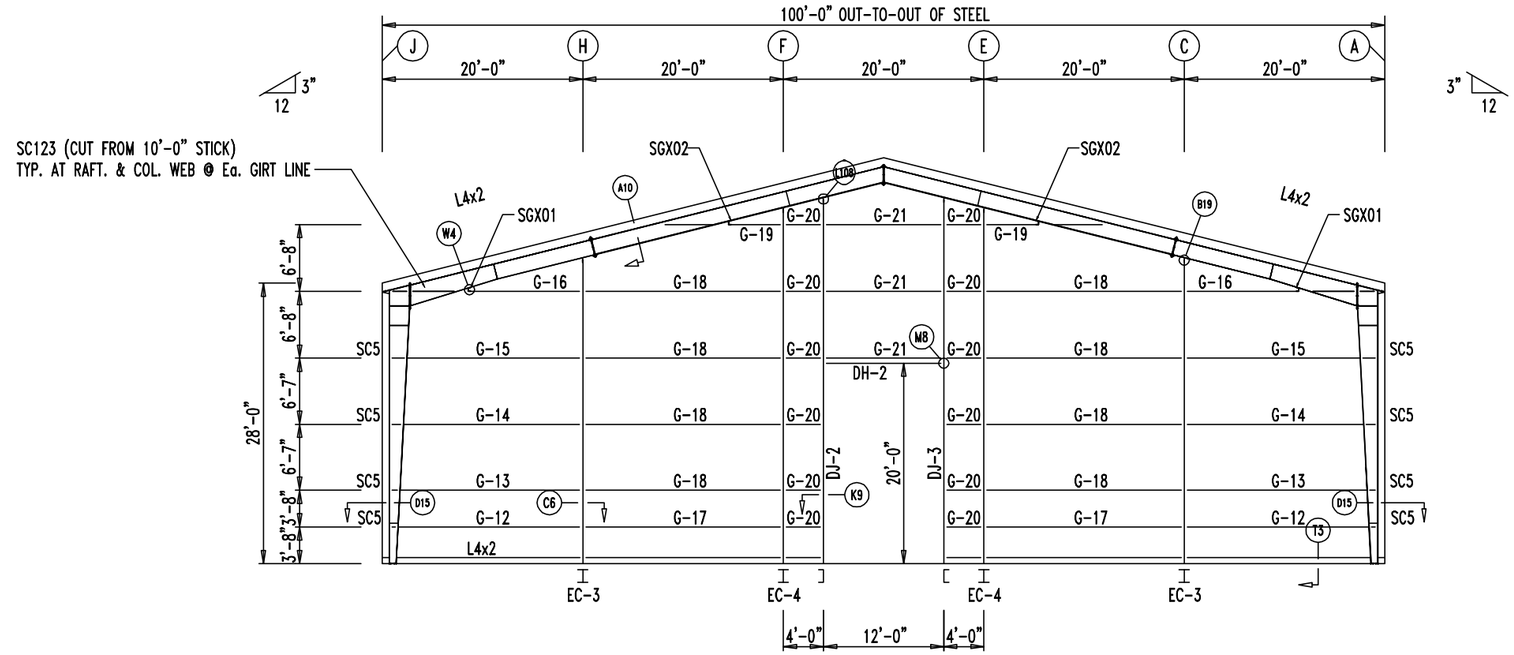
STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

DESCRIPTION	ENDWALL FRAMING
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

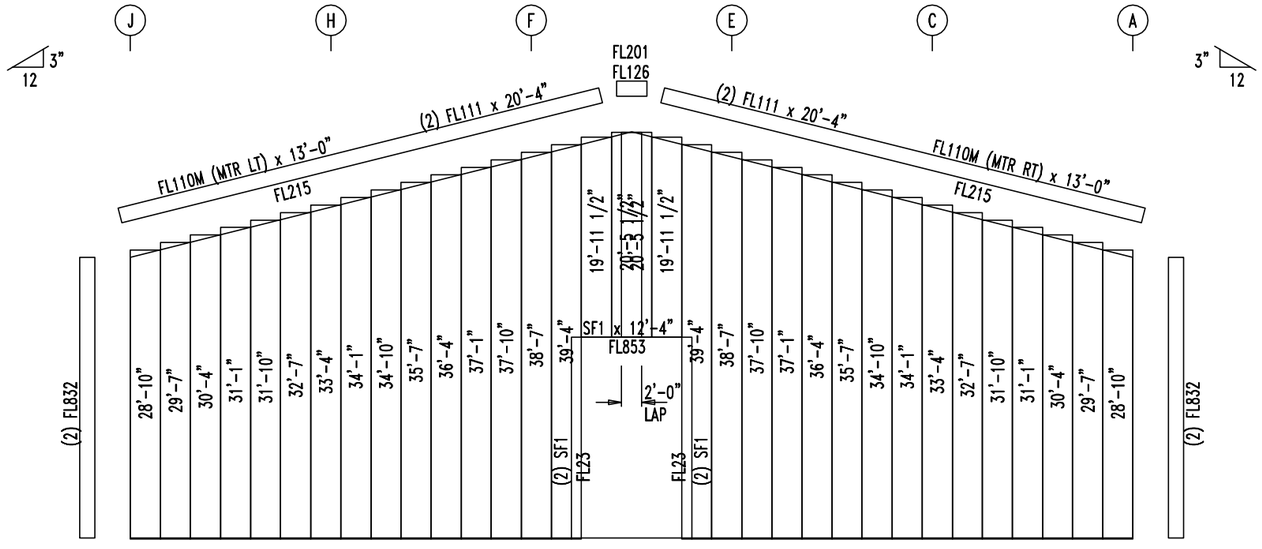
DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	E4 OF 8	1

BOLT TABLE FRAME LINE 5				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	2	A325	5/8"	1 1/2"
Jamb	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 5	
MARK	PART
EC-3	W12X19
EC-4	W12X22
DJ-2	C10x15.3
DJ-3	C10x15.3
DH-2	10X25c14
G-12	8X25Z16
G-13	8X25Z14
G-14	8X25Z12
G-15	8X25Z12
G-16	8X25Z16
G-17	8X25Z16
G-18	8X25Z12
G-19	8X25Z16
G-20	8X25Z16
G-21	8X25Z16



ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Ga. PBR – Light Stone

DRAWING STATUS

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- ☒ **FOR CONSTRUCTION:** FINAL DRAWINGS.

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

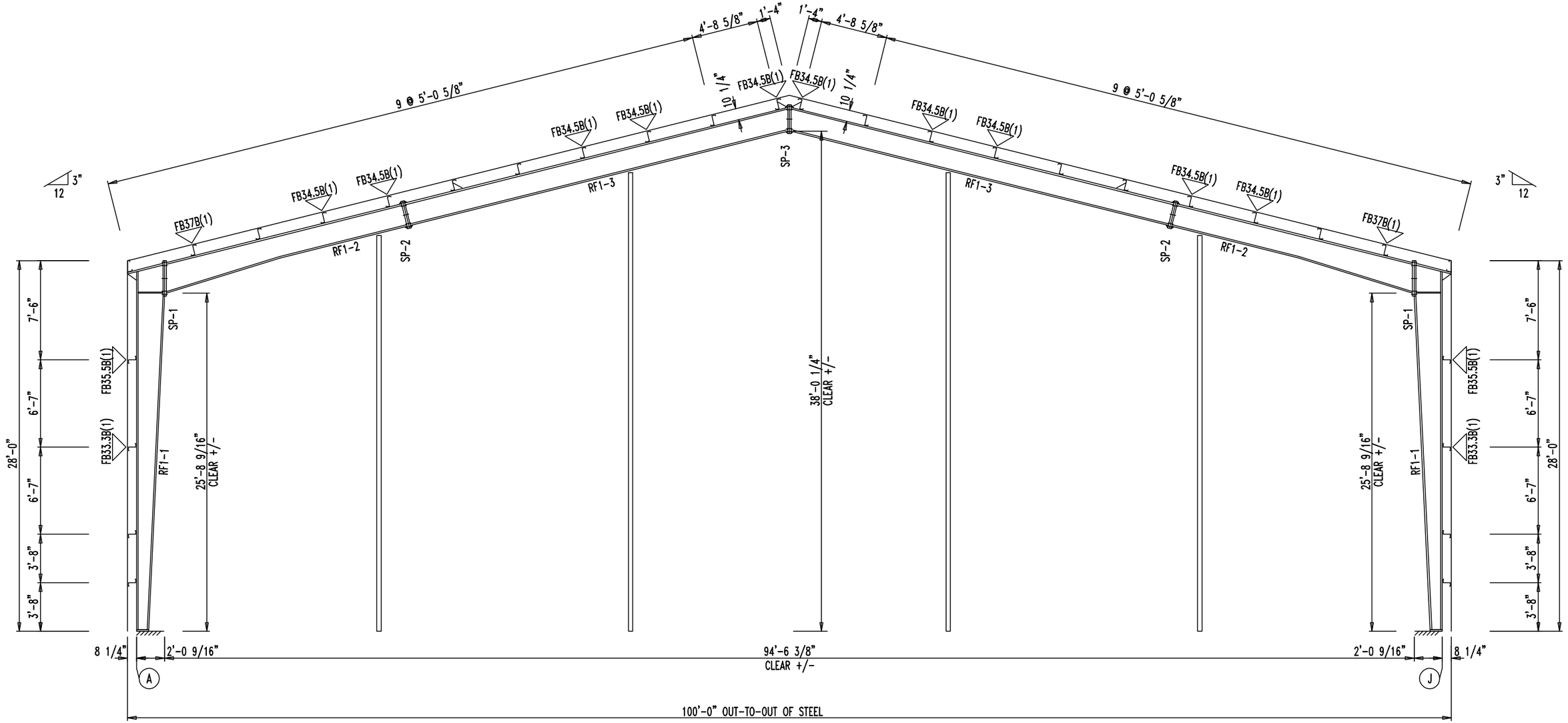
DESCRIPTION	ENDWALL FRAMING
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	E5 OF 8	1

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	0.750	2.25	6"	5/8"	2'-7 1/2"
SP-2	4	4	2	A325	0.625	1.75	6"	3/8"	2'-1 1/4"
SP-3	4	4	2	A325	0.625	1.75	6"	3/8"	2'-1"

FLANGE BRACES: Both Sides(U.N.)
FBxxB(1): xx=length(in)
B - FB2X14G

MEMBER TABLE							
Mark	Weight	Length	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	597	27'-3 1/2"	8.0/10.5	0.135	4'-0"	6 x 1/4" x 19'-8"	6 x 1/4" x 9'-7 1/8"
			10.5/23.0	0.135	19'-8 13/16"	6 x 1/4" x 7'-6 3/4"	6 x 5/16" x 15'-9 11/16"
			23.0/24.0	0.188	4'-0"	6 x 1/4" x 2'-9 7/16"	
RF1-2	435	18'-7 1/2"	24.0/18.0	0.135	9'-0 9/16"	6 x 1/4" x 18'-6 1/2"	6 x 5/16" x 9'-0 11/16"
			18.0/18.0	0.135	10'-0"		6 x 1/4" x 10'-0"
RF1-3	607	30'-0 13/16"	18.0/18.0	0.135	20'-0"	6 x 1/4" x 19'-8"	6 x 1/4" x 19'-8"
			18.0/18.0	0.135	10'-0"	6 x 1/4" x 10'-4"	6 x 1/4" x 9'-11 7/16"



RIGID FRAME ELEVATION: FRAME LINE 1

DRAWING STATUS

- ☐ **FOR APPROVAL:** THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
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REVISIONS				
NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

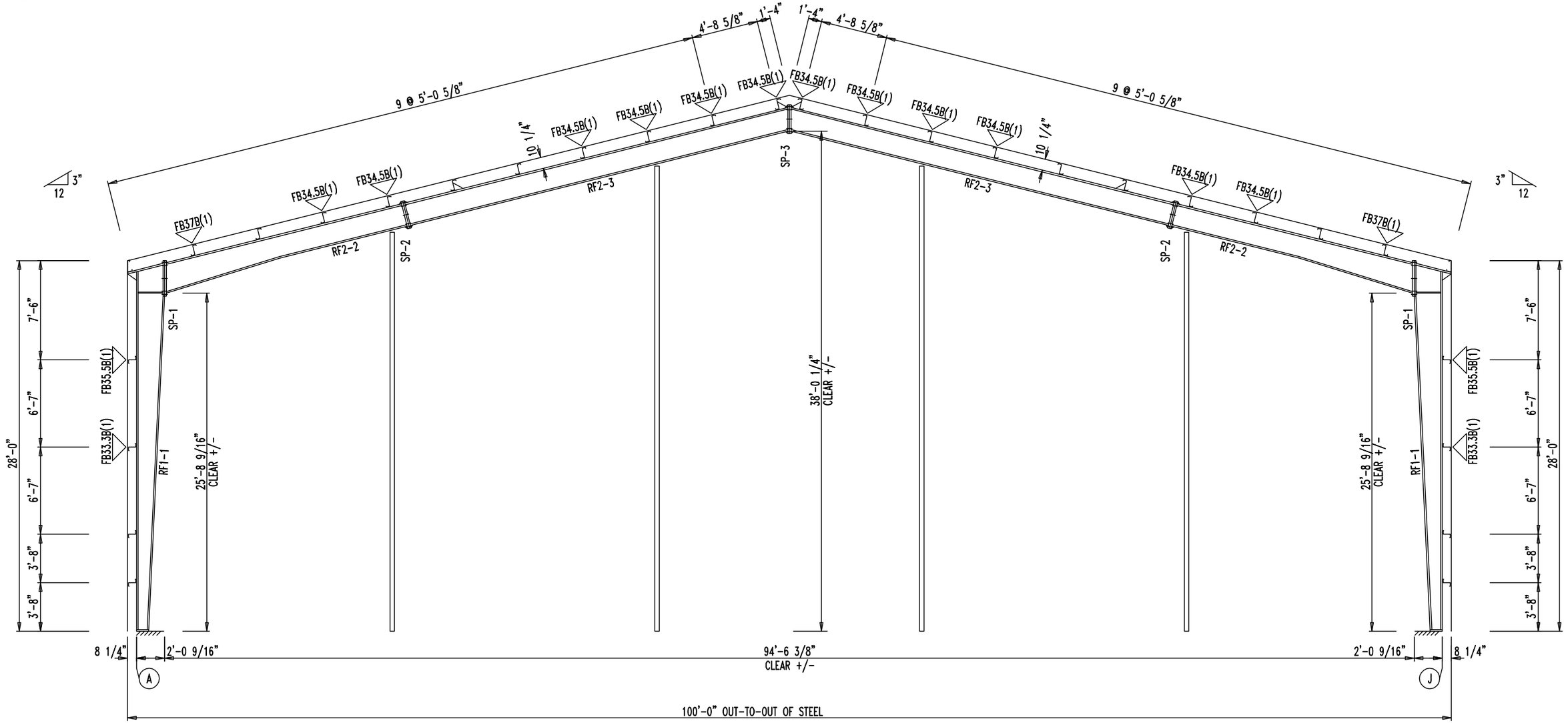
DESCRIPTION	RIGID FRAME ELEVATION
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	E6 OF 8	1

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	0.750	2.25	6"	5/8"	2'-7 1/2"
SP-2	4	4	2	A325	0.625	1.75	6"	3/8"	2'-1 1/4"
SP-3	4	4	2	A325	0.625	1.75	6"	3/8"	2'-1"

FLANGE BRACES: Both Sides(U.N.)
FBxxB(1): xx=length(in)
B - FB2X14G

MEMBER TABLE							
Mark	Weight	Length	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	597	27'-3 1/2"	8.0/10.5	0.135	4'-0"	6 x 1/4" x 19'-8"	6 x 1/4" x 9'-7 1/8"
			10.5/23.0	0.135	19'-8 13/16"	6 x 1/4" x 7'-6 3/4"	6 x 5/16" x 15'-9 11/16"
			23.0/24.0	0.188	4'-0"	6 x 1/4" x 2'-9 7/16"	
RF2-2	435	18'-7 1/2"	24.0/18.0	0.135	9'-0 9/16"	6 x 1/4" x 18'-6 1/2"	6 x 5/16" x 9'-0 11/16"
			18.0/18.0	0.135	10'-0"		6 x 1/4" x 10'-0"
RF2-3	608	30'-0 13/16"	18.0/18.0	0.135	20'-0"	6 x 1/4" x 19'-8"	6 x 1/4" x 19'-8"
			18.0/18.0	0.135	10'-0"	6 x 1/4" x 10'-4"	6 x 1/4" x 9'-11 7/16"



RIGID FRAME ELEVATION: FRAME LINE 5

DRAWING STATUS

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NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

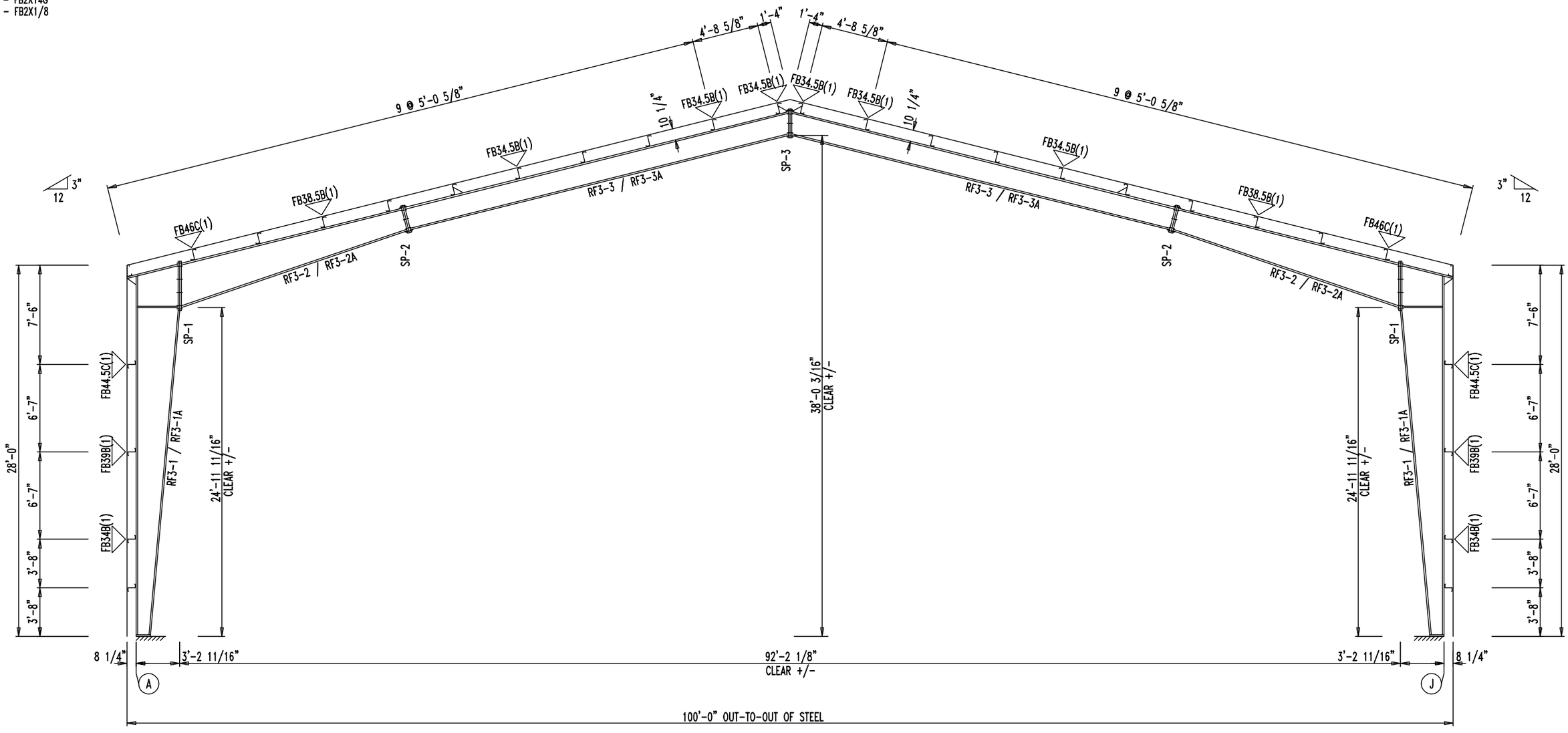
DESCRIPTION	RIGID FRAME ELEVATION
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	E7 OF 8	1

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	4	A325	0.750	2.50	6"	3/4"	3'-8"
SP-2	4	4	2	A325	0.625	1.75	6"	3/8"	2'-1 1/4"
SP-3	4	4	2	A325	0.625	1.75	6"	3/8"	2'-1"

MEMBER TABLE							
Mark	Weight	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF3-1 / RF3-1A	886	27'-3 1/2"	10.0/32.6	0.135	19'-10"	6 x 5/16" x 20'-0"	6 x 5/16" x 9'-7 1/2"
			32.6/37.3	0.188	4'-2"	6 x 5/16" x 7'-2 7/16"	6 x 3/8" x 15'-1 1/16"
			37.3/38.0	0.250	4'-0"	6 x 5/16" x 3'-11 15/16"	
RF3-2 / RF3-2A	565	17'-4 7/8"	36.0/28.0	0.188	8'-0 13/16"	6 x 1/4" x 17'-3 3/4"	6 x 3/8" x 8'-5 1/8"
			28.0/18.0	0.135	10'-0"		6 x 5/16" x 9'-8 3/8"
RF3-3 / RF3-3A	606	30'-0 13/16"	18.0/18.0	0.135	20'-0"	6 x 1/4" x 19'-8"	6 x 1/4" x 19'-8"
			18.0/18.0	0.135	10'-0"	6 x 1/4" x 10'-4"	6 x 1/4" x 9'-11 7/16"

FLANGE BRACES: Both Sides(U.N.)
FBxxB(1): xx=length(in)
B - FB2X14G
C - FB2X1/8



RIGID FRAME ELEVATION: FRAME LINE 2 3 4

DRAWING STATUS

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NO.	DATE	DESCRIPTION	BY	CK'D
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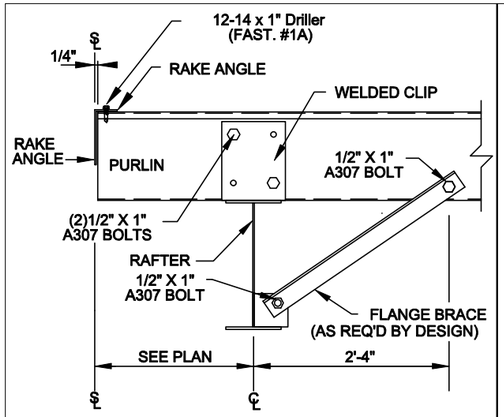
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

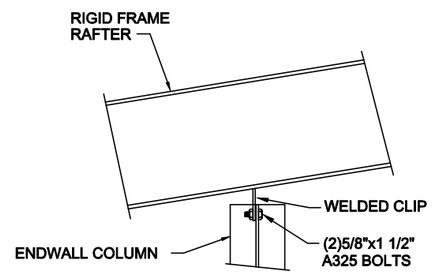
STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

DESCRIPTION	RIGID FRAME ELEVATION
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

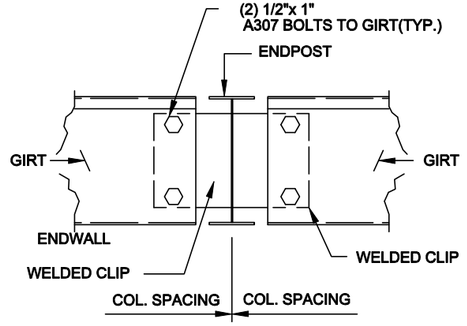
DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	E8 OF 8	1



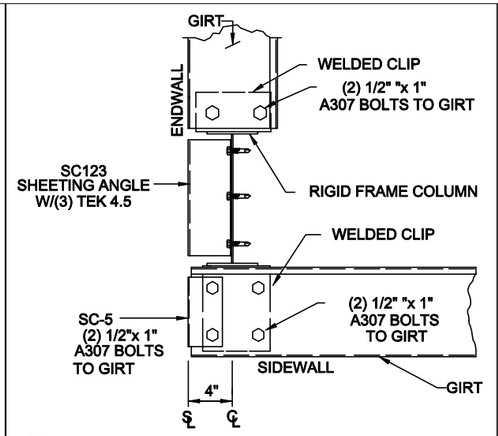
A10 ROOF PURLIN TO EXPANDABLE ENDWALL (RIGID FRAME)



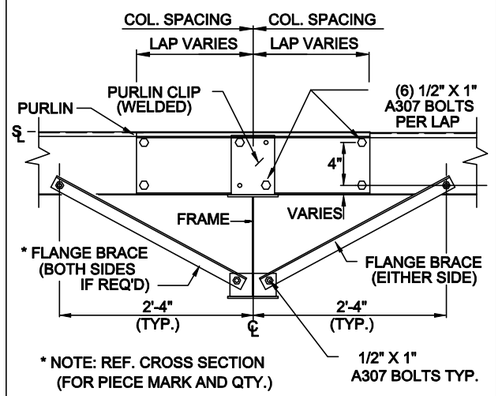
B19 RIGID FRAME RAFTER TO COLUMN



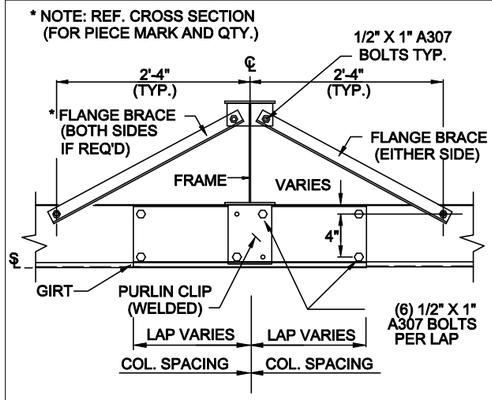
C6 GIRT TO COLUMN



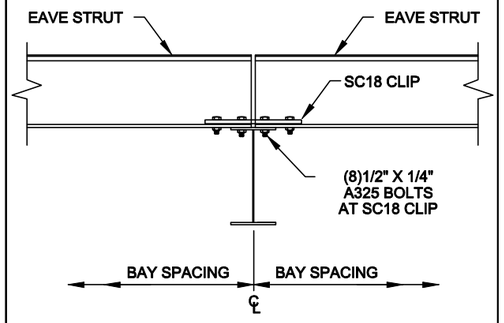
D15 CORNER COLUMN TO WALL GIRT



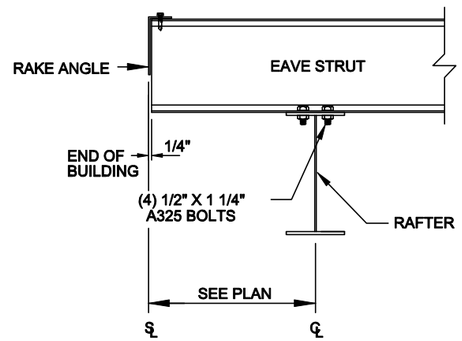
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



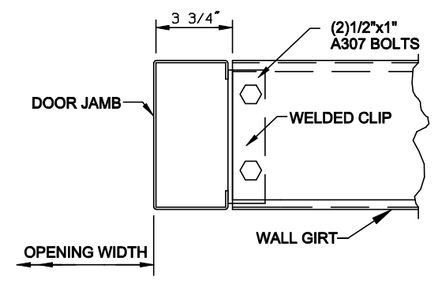
H2 WALL GIRT TO FRAME COLUMN



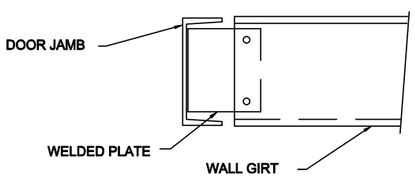
J4 EAVE STRUT COLUMN W/ SC18



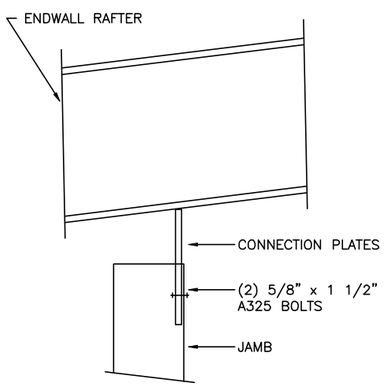
J24 EAVE STRUT TO RIGID FRAME



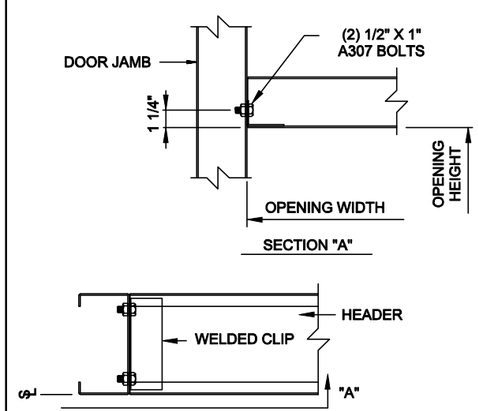
K3 WALL GIRT TO DOOR JAMB



K9 WALL GIRT TO DOOR JAMB

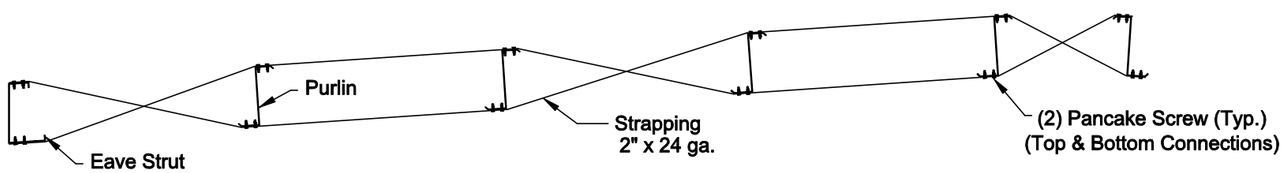


L108 JAMB TO ENDWALL RAFTER FLANGE



M3 DOOR HEADER TO DOOR JAMB

Note: 1) Attach straps with (2) #12A Pancake Head without washer at all purlins or eave strut.
2) Cross at eaves and ridge & mid span



Roof Strap Installation

(Refer to Roof Plan for Locations)
(Top & Bottom Band Strapping)

DRAWING STATUS

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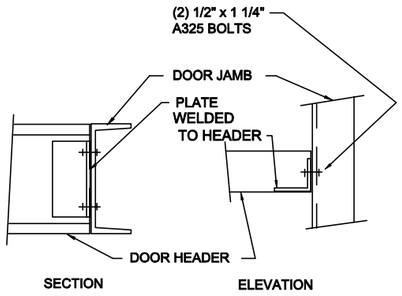
STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

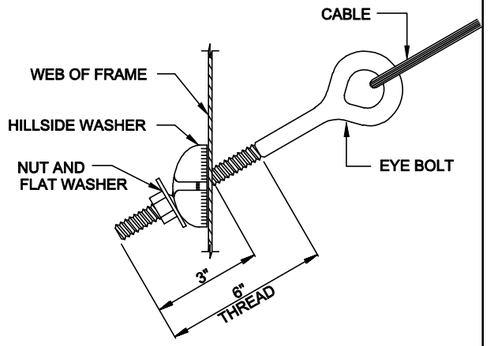
DESCRIPTION	DETAIL DRAWINGS
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744

CAD BY MEM

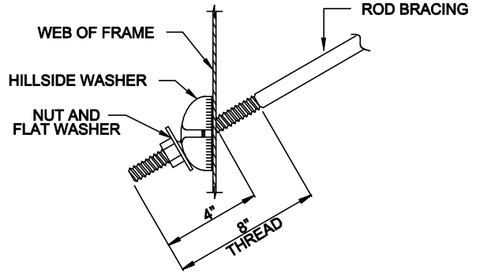
DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	D1 OF 5	1



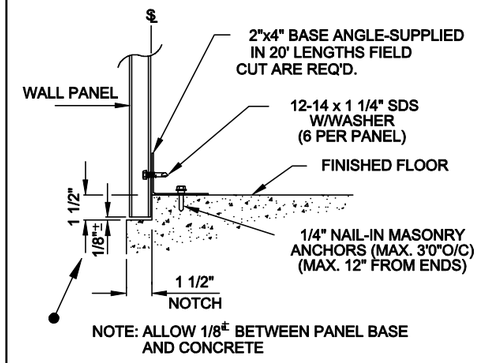
M8 DOOR HEADER TO DOOR JAMB



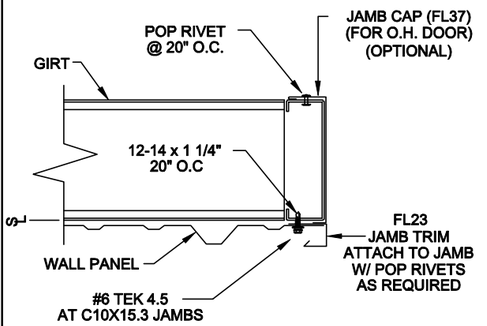
Q2 DIAGONAL CABLE, EYEBOLT END



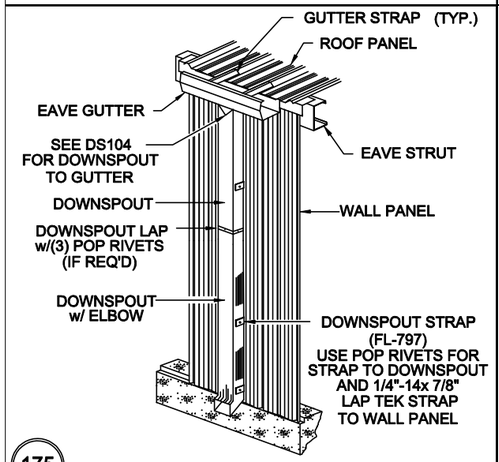
Q3 DIAGONAL ROD BRACING



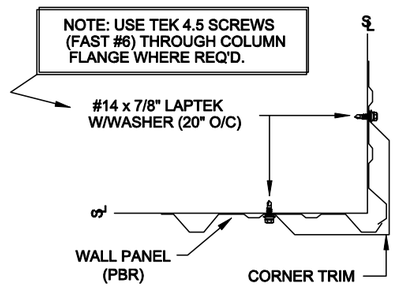
T3 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



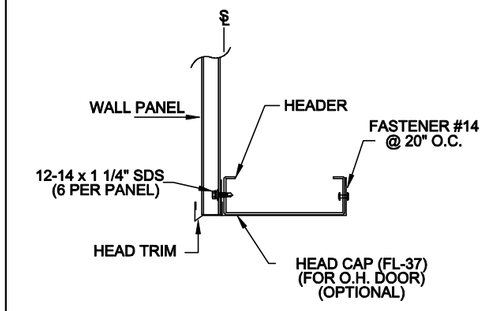
23 WALKDOOR/OHD JAMB DETAIL



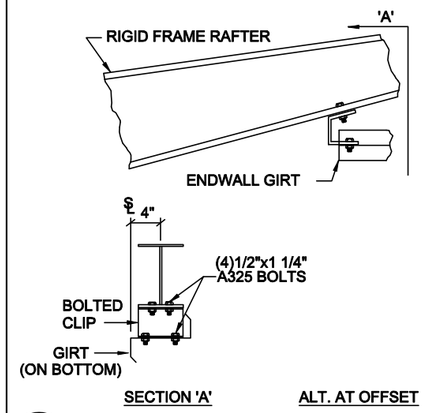
175 DOWNSPOUT DETAIL



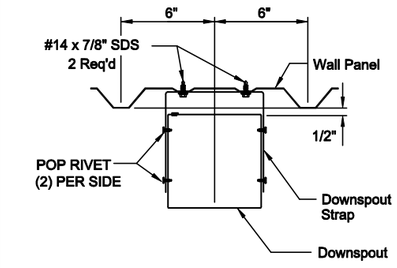
830 CORNER TRIM DETAIL

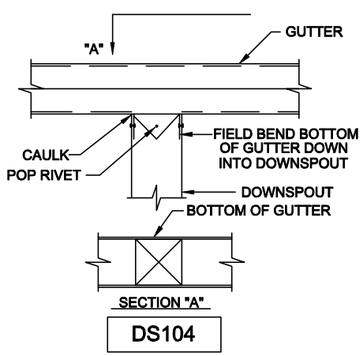


850 HEADER TRIM DETAIL



W4 ENDWALL GIRT UNDER RAFTER





DS104

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CAD BY	MEM

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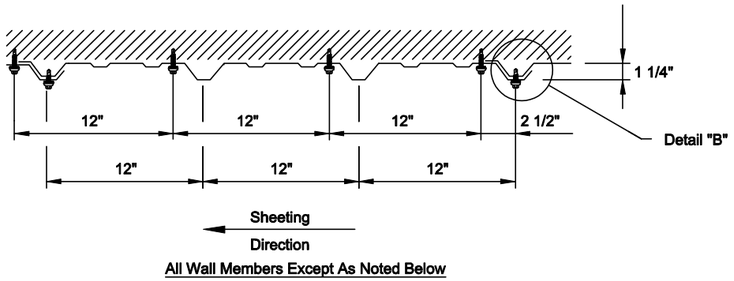
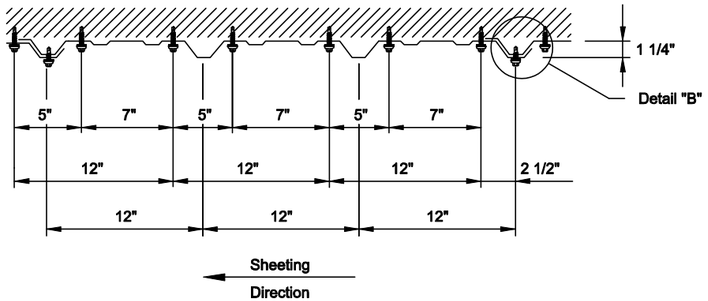
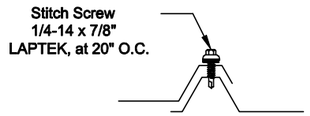


All Wall Members Except As Noted Below



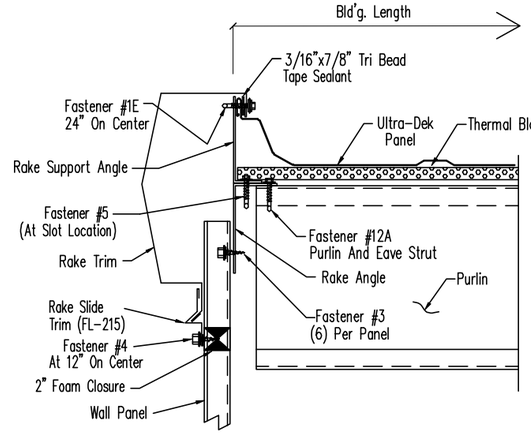
At Eave Strut, Panel End Lap, and Base Angle



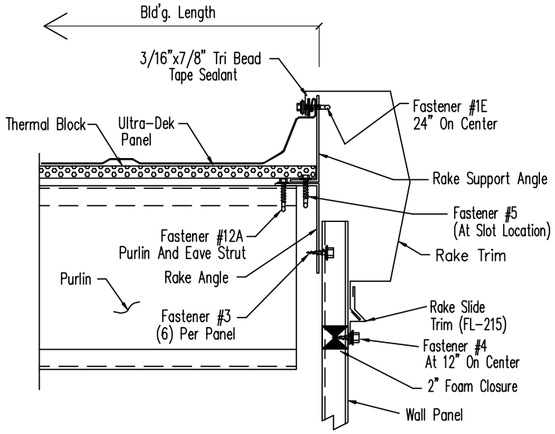
Detail "B"

SC5

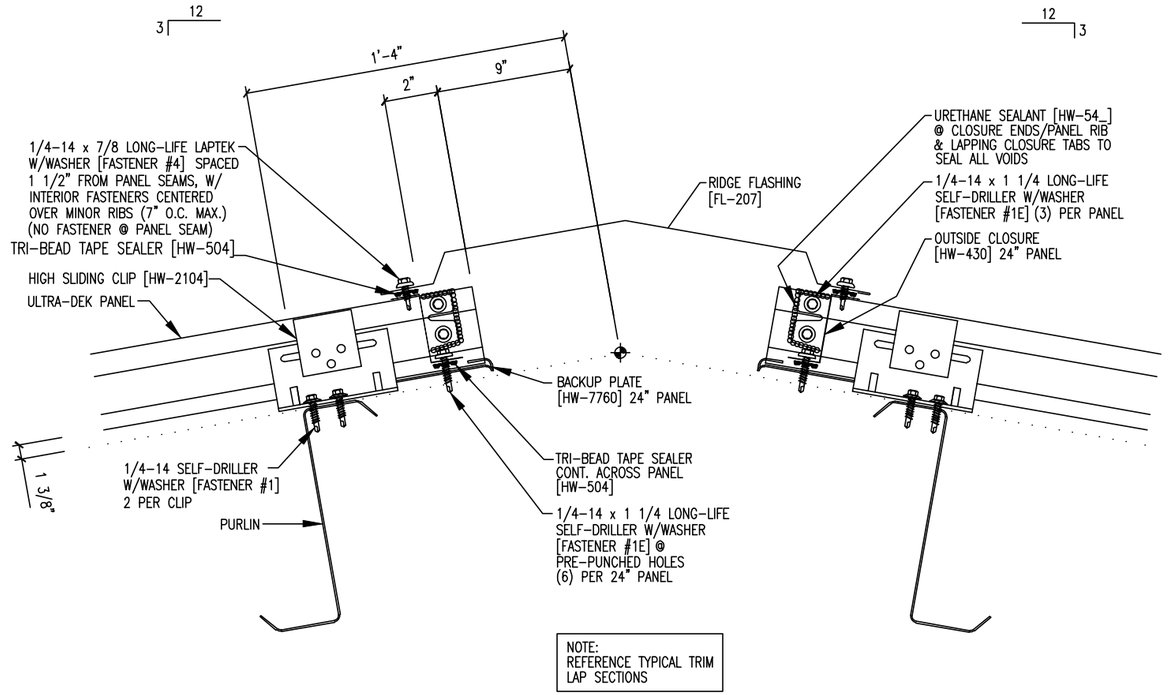
FASTENER LACATION FOR "PBR" PANEL AT WALL



BEGINNING RAKE CONDITION ON MODULE



TERMINATION RAKE CONDITION ON MODULE



NOTE:
REFERENCE TYPICAL TRIM
LAP SECTIONS

RIDGE DETAIL

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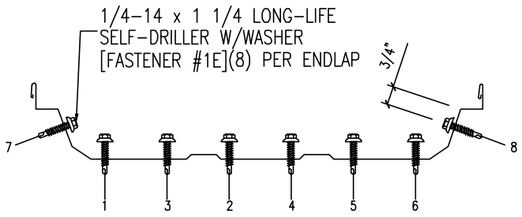
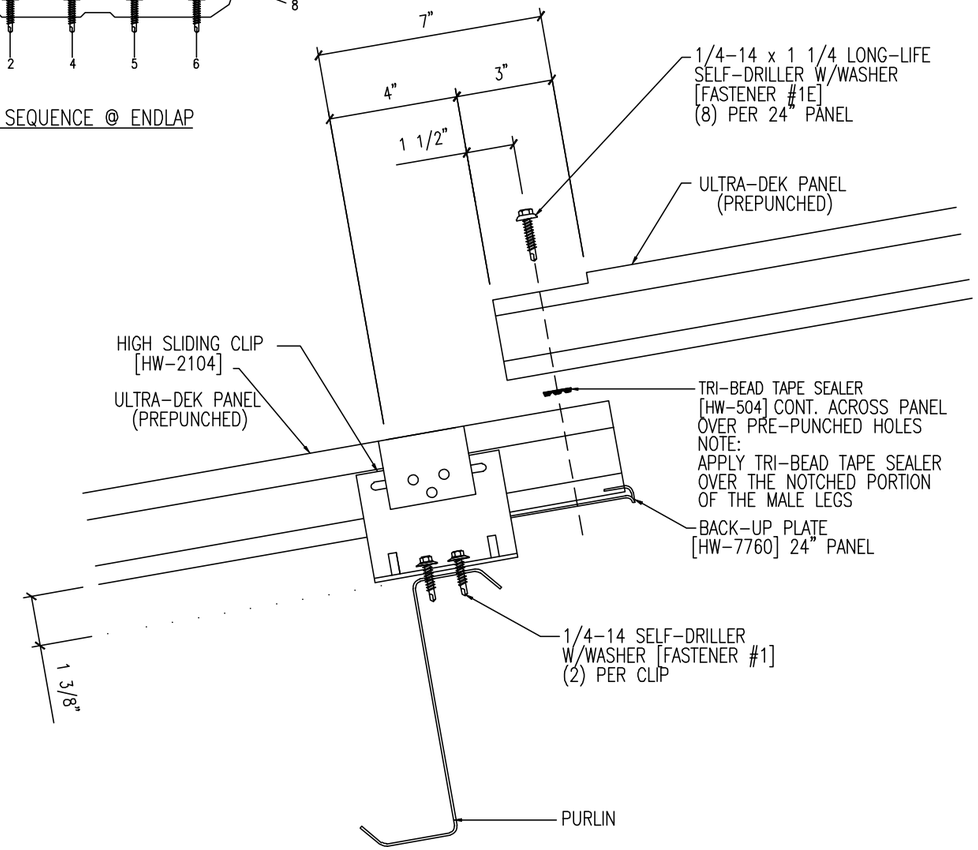
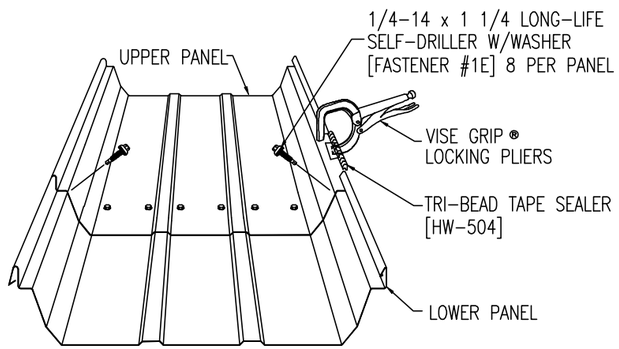


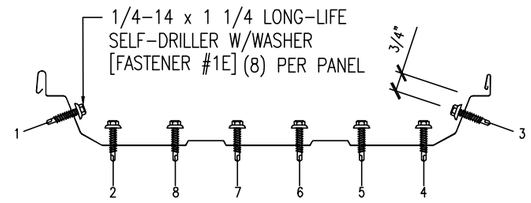
FASTENER SEQUENCE @ ENDLAP



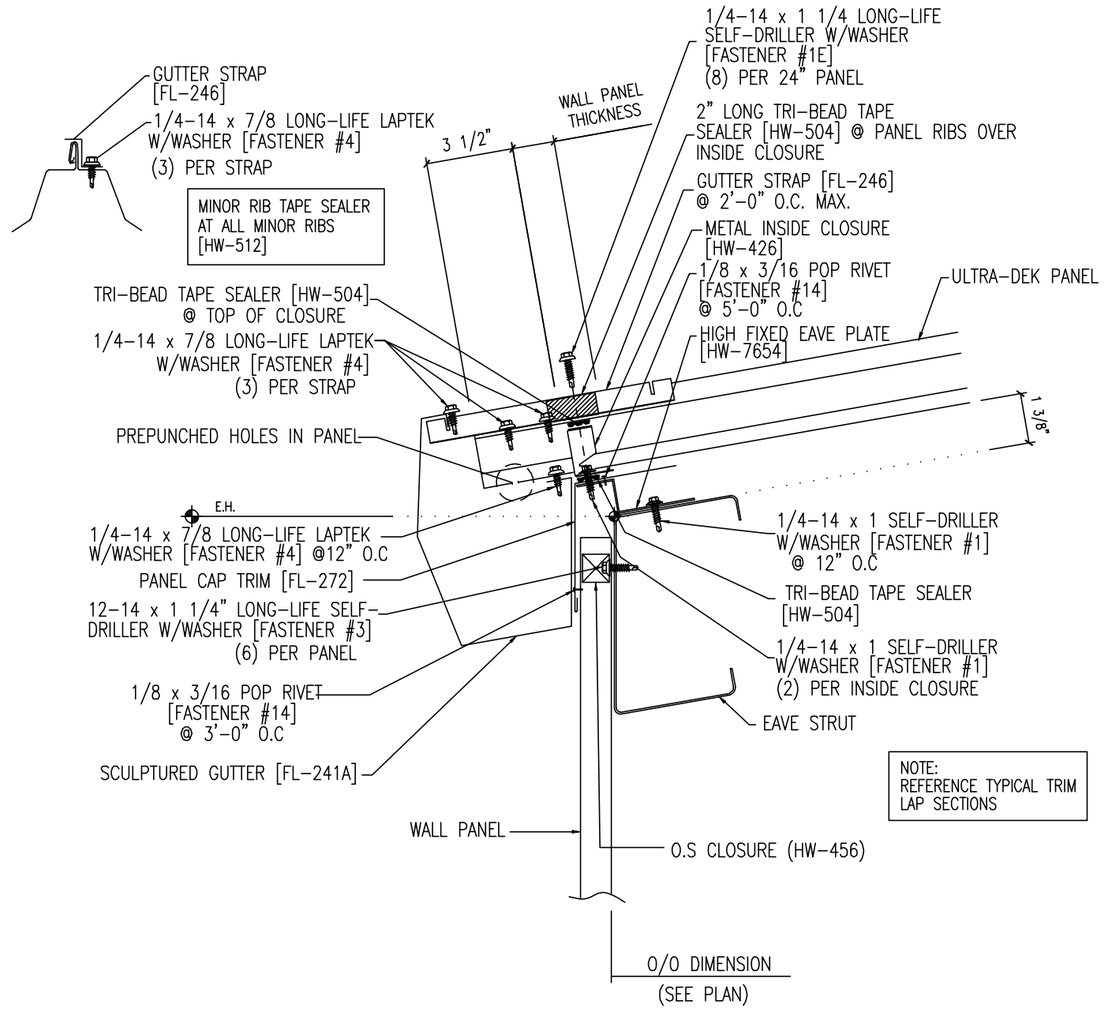


PANEL INSTALLATION SEQUENCE

ROOF PANEL ENDLAP



FASTENER SEQUENCE @ EAVE



EAVE DETAIL AT SHEETED WALL

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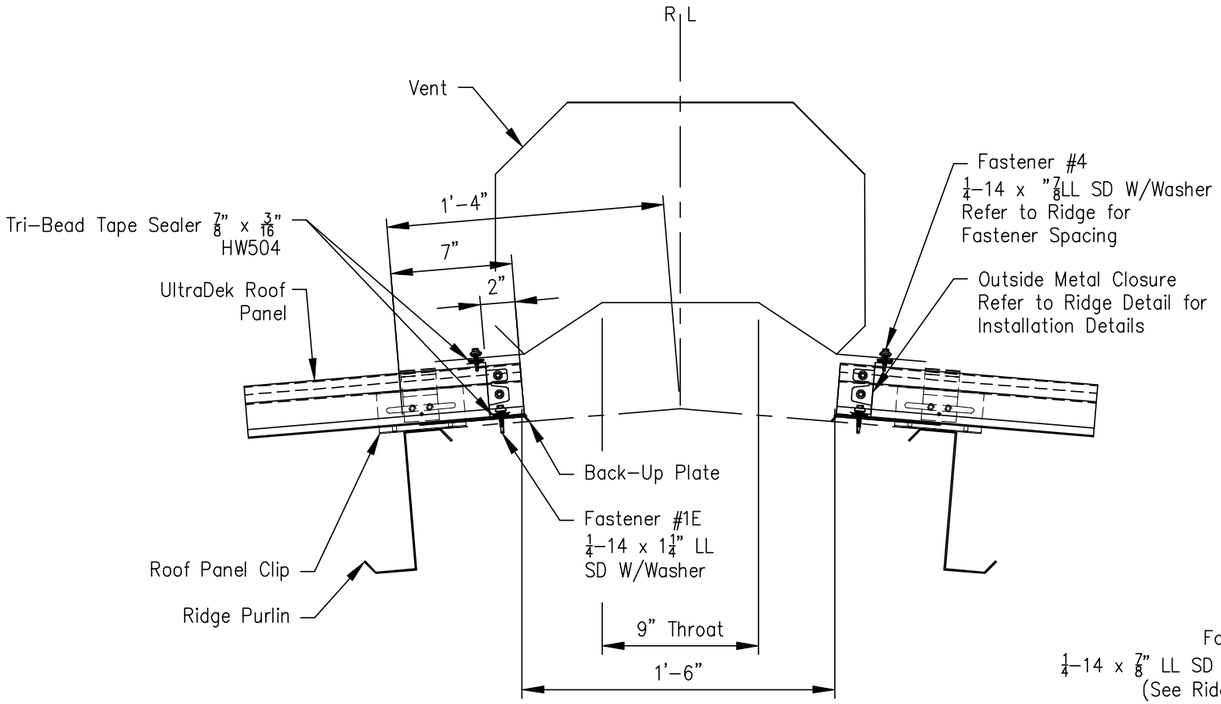
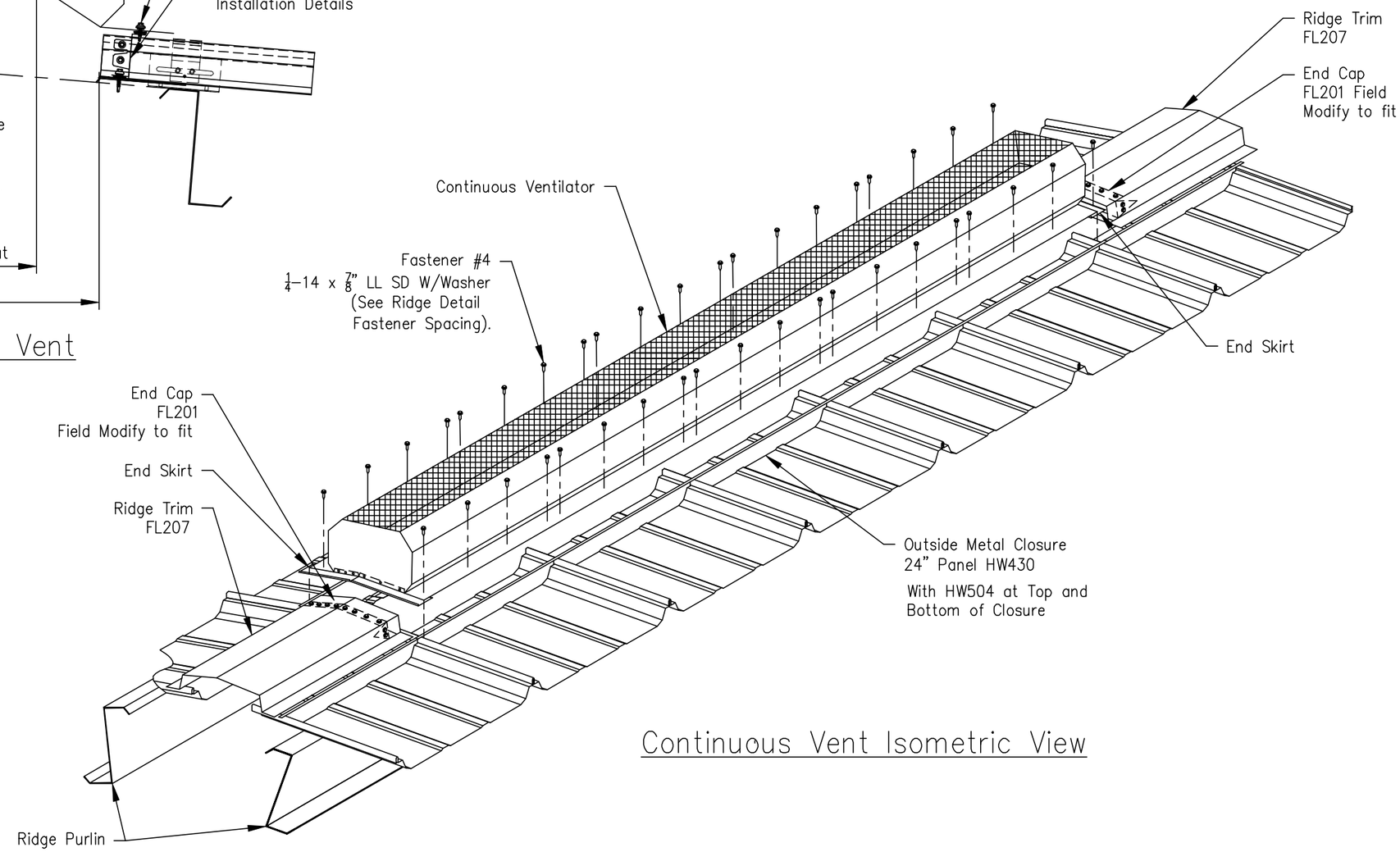


Section at Ridge 9" Throat Vent



Continuous Vent Isometric View

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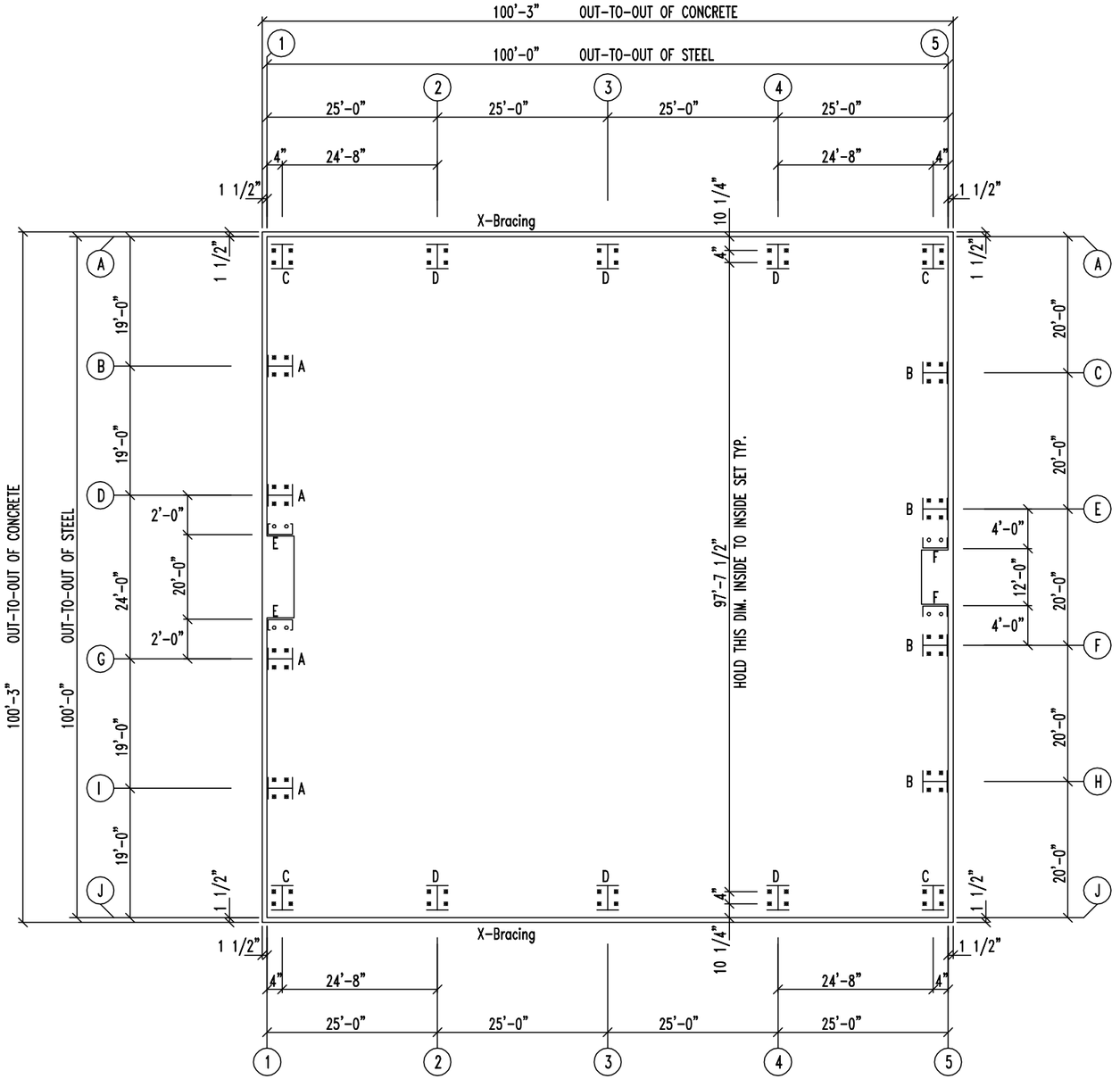


ANCHOR BOLT PLAN

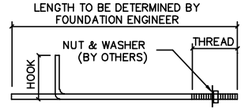
NOTE: All Base Plates @ 100'-0" (U.N.)

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, ADJUST FOR GROUT AS REQUIRED.

ANCHOR BOLT DETAIL



ANCHOR BOLTS (BY OTHERS)

DIA.	QTY.	LENGTH	THRD	HOOK	PROJ
1/2"		*	*	*	1 1/2"
5/8"	8	*	*	*	2 1/4"
3/4"	72	*	*	*	2 1/2"
7/8"		*	*	*	3 1/2"
1"		*	*	*	3 1/2"
1 1/8"					3 1/2"
1 1/4"					3 1/2"

* = DETERMINED BY OTHERS

DRAWING STATUS

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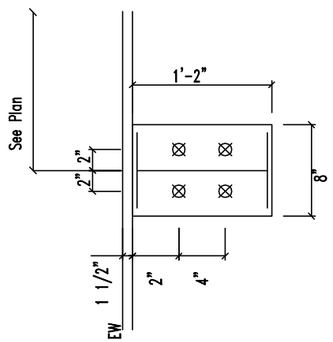
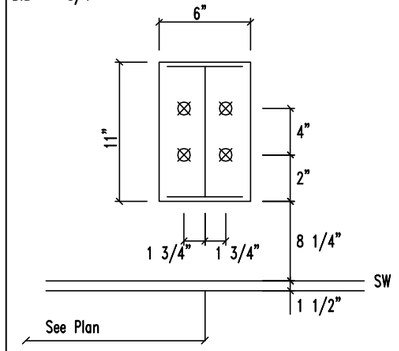
DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	AB1 OF 3	1

Dia= 3/4"

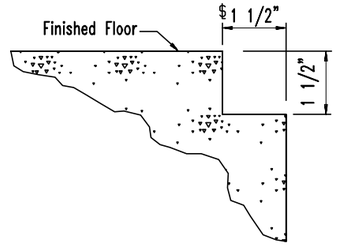


DETAIL A

Dia= 3/4"

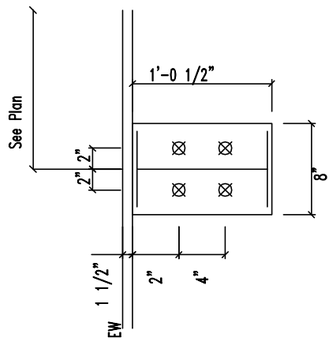


DETAIL D



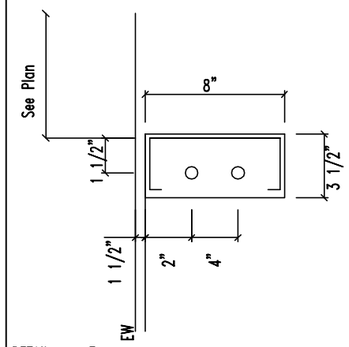
SUGGESTED SHEETING NOTCH IN CONCRETE

Dia= 3/4"

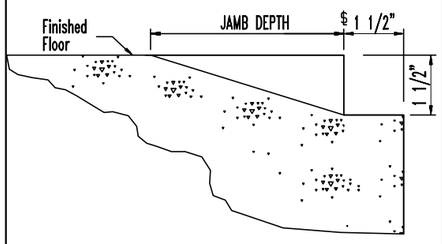


DETAIL B

Dia= 5/8"

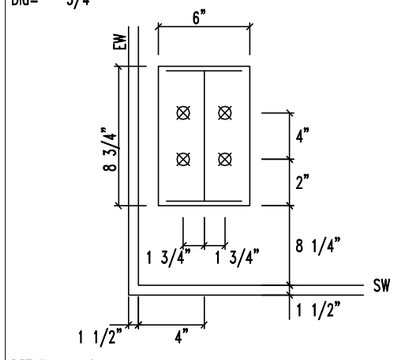


DETAIL E



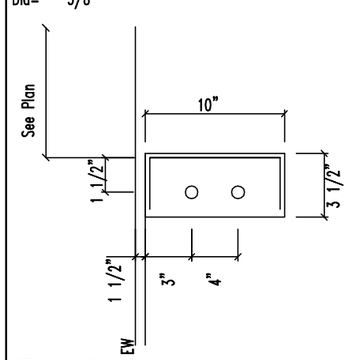
SUGGESTED CONCRETE CONDITION AT ROLL-UP DOOR

Dia= 3/4"



DETAIL C

Dia= 5/8"



DETAIL F

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REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

STRAIGHT LINE
METAL BUILDINGS
DESIGN • FABRICATION • ERECTION

32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

DESCRIPTION	ANCHOR BOLT DETAILS
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744

CAD BY MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	AB2 OF 3	1

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)	=	100.0
Length (ft)	=	100.0
Eave Height (ft)	=	28.0/ 28.0
Roof Slope (rise/12)	=	3.0/ 3.0
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	0.5
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Snow Load (psf)	=	3.8
Wind Speed (mph)	=	115.0
Wind Code	=	IBC 21
Exposure	=	C
Closure	=	Enclosed
Importance Wind	=	1.00
Importance Seismic	=	1.25
Seismic Zone	=	A
Seismic Coeff (Fa*Ss)	=	0.08

5. Loading conditions are:
   1. Dead+Collateral+Live
   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. 1.01Dead+1.01Collateral+0.52Seismic_LongR
   7. 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
   8. 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	-----Dead---- Horiz	Vert	--Collateral- Horiz	Vert	-----Live---- Horiz	Vert	-----Snow---- Horiz	Vert	--Wind_Left1- Horiz	Vert	-Wind_Right1- Horiz	Vert
1	A	1.1	2.7	0.2	0.3	3.7	7.6	1.2	2.4	-9.3	-15.3	-1.9	-11.3
1	J	-1.1	2.7	-0.2	0.3	-3.7	7.6	-1.2	2.4	1.9	-11.3	9.3	-15.3

Frame Line	Column Line	--Wind_Left2- Horiz	Vert	-Wind_Right2- Horiz	Vert	--Wind_Long1- Horiz	Vert	--Wind_Long2- Horiz	Vert	-Seismic_Left Horiz	Vert	Seismic_Right Horiz	Vert
1	A	-8.3	-8.8	-0.8	-4.9	-1.8	-13.7	-3.3	-11.8	-0.1	-0.1	0.1	0.1
1	J	0.8	-4.9	8.3	-8.8	3.3	-11.8	1.8	-13.7	-0.1	0.1	0.1	-0.1

Frame Line	Column Line	-MIN_SNOW-- Horiz	Vert	F1UNB_SL_L- Horiz	Vert	F1UNB_SL_R- Horiz	Vert
1	A	1.7	3.5	1.3	2.8	1.3	1.8
1	J	-1.7	3.5	-1.3	1.8	-1.3	2.8

Frame Line	Column Line	-----Dead---- Horiz	Vert	--Collateral- Horiz	Vert	-----Live---- Horiz	Vert	-----Snow---- Horiz	Vert	--Wind_Left1- Horiz	Vert	-Wind_Right1- Horiz	Vert
5	A	1.1	2.7	0.2	0.3	3.7	7.6	1.2	2.4	-9.3	-15.3	-1.9	-11.3
5	J	-1.1	2.7	-0.2	0.3	-3.7	7.6	-1.2	2.4	1.9	-11.3	9.3	-15.3

Frame Line	Column Line	--Wind_Left2- Horiz	Vert	-Wind_Right2- Horiz	Vert	--Wind_Long1- Horiz	Vert	--Wind_Long2- Horiz	Vert	-Seismic_Left Horiz	Vert	Seismic_Right Horiz	Vert
5	A	-8.3	-8.8	-0.8	-4.9	-1.8	-13.7	-3.3	-11.8	-0.1	-0.1	0.1	0.1
5	J	0.8	-4.9	8.3	-8.8	3.3	-11.8	1.8	-13.7	-0.1	0.1	0.1	-0.1

Frame Line	Column Line	-MIN_SNOW-- Horiz	Vert	F2UNB_SL_L- Horiz	Vert	F2UNB_SL_R- Horiz	Vert
5	A	1.7	3.5	1.3	2.8	1.3	1.8
5	J	-1.7	3.5	-1.3	1.8	-1.3	2.8

Frame Line	Column Line	-----Dead---- Horiz	Vert	--Collateral- Horiz	Vert	-----Live---- Horiz	Vert	-----Snow---- Horiz	Vert	--Wind_Left1- Horiz	Vert	-Wind_Right1- Horiz	Vert
2*	A	2.0	4.4	0.4	0.6	8.4	15.0	2.7	4.8	-20.0	-30.2	-5.2	-22.3
2*	J	-2.0	4.4	-0.4	0.6	-8.4	15.0	-2.7	4.8	5.2	-22.3	20.0	-30.2

Frame Line	Column Line	--Wind_Left2- Horiz	Vert	-Wind_Right2- Horiz	Vert	--Wind_Long1- Horiz	Vert	--Wind_Long2- Horiz	Vert	-Seismic_Left Horiz	Vert	Seismic_Right Horiz	Vert
2*	A	-17.3	-17.4	-2.6	-9.6	-4.8	-46.1	-7.6	-42.3	-0.2	-0.1	0.2	0.1
2*	J	2.6	-9.6	17.3	-17.4	7.6	-42.3	4.8	-46.1	-0.1	0.1	0.1	-0.1

Frame Line	Column Line	-Seismic_Long Horiz	Vert	-MIN_SNOW-- Horiz	Vert	F3UNB_SL_L- Horiz	Vert	F3UNB_SL_R- Horiz	Vert
2*	A	0.0	-0.7	3.8	6.9	3.0	5.5	3.0	3.6
2*	J	0.0	-0.7	-3.8	6.9	-3.0	3.6	-3.0	5.5

2* Frame lines: 2 3 4

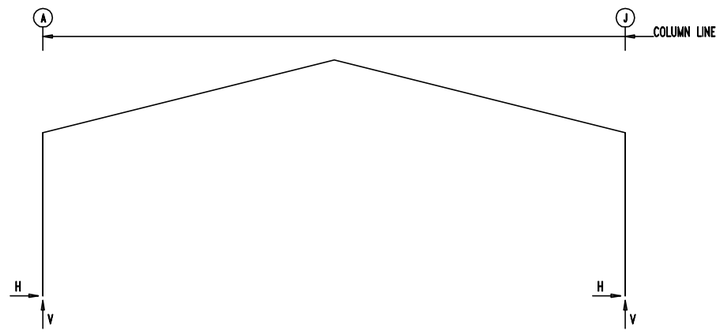
ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Sucl Horz	Seis Long Vert
1	B	0.7	-7.8	8.7	0.0
1	D	0.8	-10.2	11.3	0.0
1	G	0.8	-10.2	11.3	0.0
1	I	0.7	-7.8	8.7	0.0
5	H	0.6	-8.3	9.2	0.0
5	F	0.8	-9.7	10.7	0.0
5	E	0.8	-9.7	10.7	0.0
5	C	0.6	-8.3	9.2	0.0

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	B	7	5.2	0.4	8	-4.7	0.4	4	0.750	8.000	14.00	0.375	0.0
		6	0.0	0.7									
1	D	7	6.8	0.5	8	-6.1	0.5	4	0.750	8.000	14.00	0.375	0.0
		6	0.0	0.8									
1	G	7	6.8	0.5	8	-6.1	0.5	4	0.750	8.000	14.00	0.375	0.0
		6	0.0	0.8									
1	I	7	5.2	0.4	8	-4.7	0.4	4	0.750	8.000	14.00	0.375	0.0
		6	0.0	0.7									
5	H	7	5.5	0.4	8	-5.0	0.4	4	0.750	8.000	12.50	0.375	0.0
		6	0.0	0.6									
5	F	7	6.4	0.5	8	-5.8	0.5	4	0.750	8.000	12.50	0.375	0.0
		6	0.0	0.8									
5	E	7	6.4	0.5	8	-5.8	0.5	4	0.750	8.000	12.50	0.375	0.0
		6	0.0	0.8									
5	C	7	5.5	0.4	8	-5.0	0.4	4	0.750	8.000	12.50	0.375	0.0
		6	0.0	0.6									

FRAME LINES: 1 2 3 4 5



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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	A	1	5.0	10.7	2	-4.9	-7.5	4	0.750	6.000	8.750	0.500	0.0
1	J	3	4.9	-7.5	1	-5.0	10.7	4	0.750	6.000	8.750	0.500	0.0
		1	-5.0	10.7	3	4.9	-7.5						

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
2*	A	1	10.8	20.0	2	-10.8	-15.5	4	0.750	6.000	11.00	0.750	0.0
					4	-1.7	-25.1						
2*	J	3	10.8	-15.5	1	-10.8	20.0	4	0.750	6.000	11.00	0.750	0.0
		1	-10.8	20.0	5	1.7	-25.1						

2* Frame lines: 2 3 4

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
5	A	1	5.0	10.7	2	-4.9	-7.5	4	0.750	6.000	8.750	0.500	0.0
5	J	3	4.9	-7.5	1	-5.0	10.7	4	0.750	6.000	8.750	0.500	0.0
		1	-5.0	10.7	3	4.9	-7.5						

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
L_EW	1								(h)
F_SW	J	2,3	18.2	19.1	0.7	0.7			
R_EW	5								(h)
B_SW	A	3,2	18.2	19.1	0.7	0.7			

(h)Rigid frame at endwall

Reaction values for seismic shear force, Eh
Reaction values shown are unfactored
Maximum load combination factors are:
Wind : 0.60
Seismic : 0.70

DRAWING STATUS

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FINAL DRAWINGS.

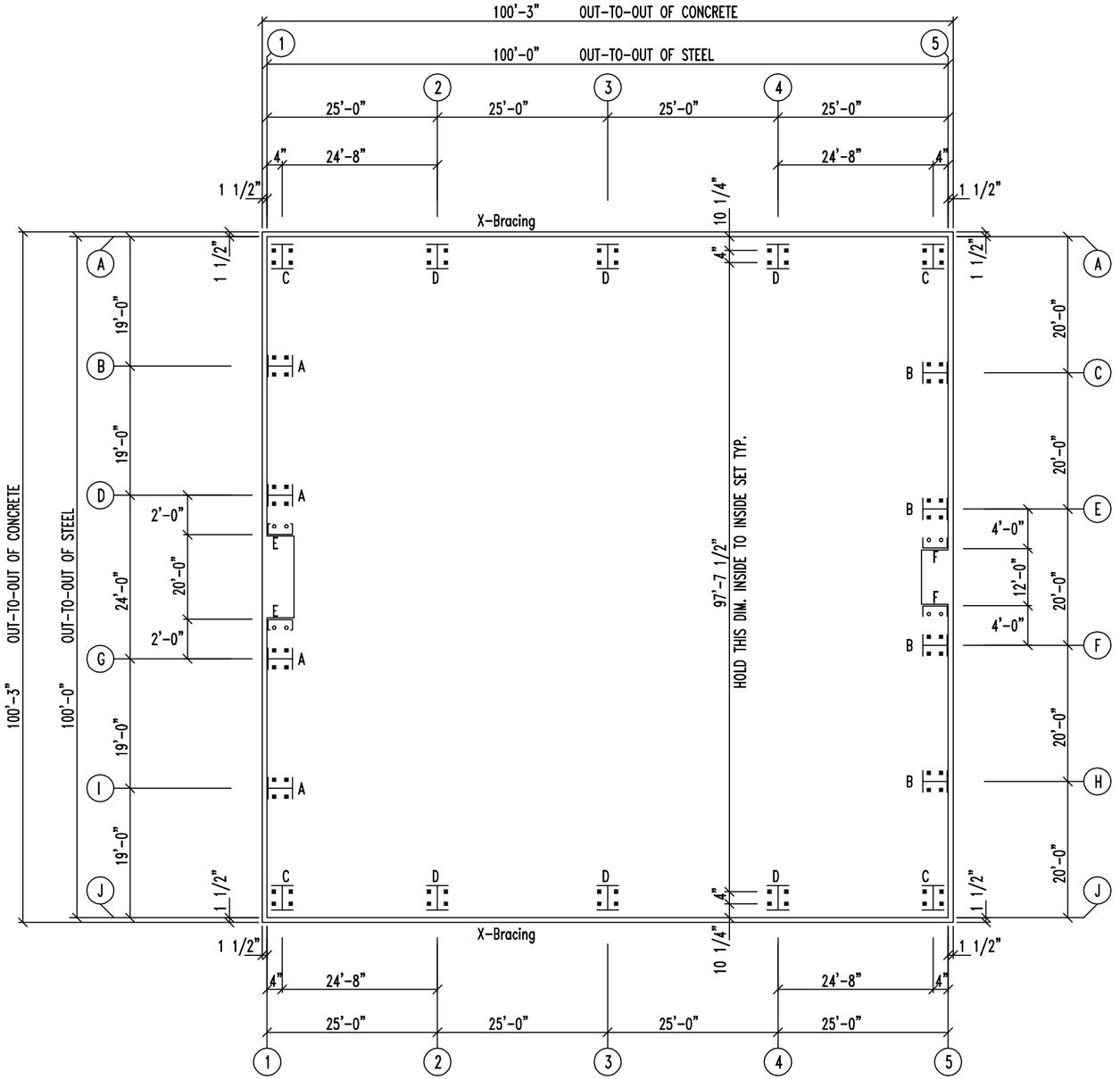
REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D
1	12/14/23	FOR CONSTRUCTION	ASB	JWW

STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

DESCRIPTION	ANCHOR BOLT REACTIONS
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	JWW	12/14/23	NONE		23-8142	AB3 OF 3	1



ANCHOR BOLT PLAN

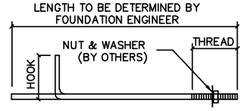
NOTE: All Base Plates @ 100'-0" (U.N.)

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, ADJUST FOR GROUT AS REQUIRED.

ANCHOR BOLT DETAIL



ANCHOR BOLTS (BY OTHERS)

DIA.	QTY.	LENGTH	THRD	HOOK	PROJ
1/2"		*	*	*	1 1/2"
5/8"	8	*	*	*	2 1/4"
3/4"	72	*	*	*	2 1/2"
7/8"		*	*	*	3 1/2"
1"		*	*	*	3 1/2"
1 1/8"					3 1/2"
1 1/4"					3 1/2"

* = DETERMINED BY OTHERS

DRAWING STATUS

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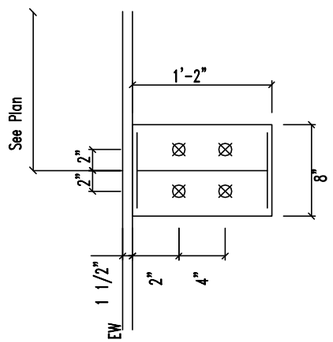
STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

DESCRIPTION	ANCHOR BOLT PLAN
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

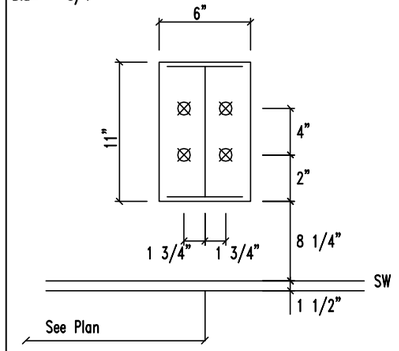
DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	CK'D	11/27/23	NONE		23-8142	AB1 OF 3	0

Dia= 3/4"

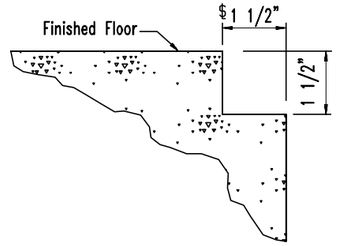


DETAIL A

Dia= 3/4"

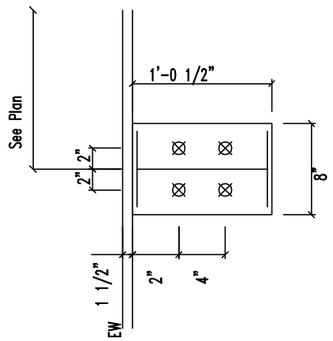


DETAIL D



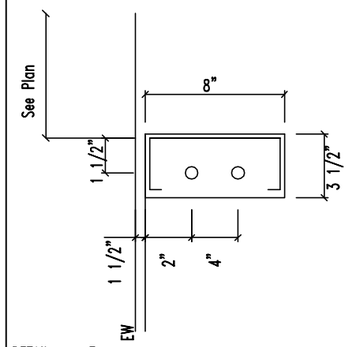
SUGGESTED SHEETING NOTCH IN CONCRETE

Dia= 3/4"

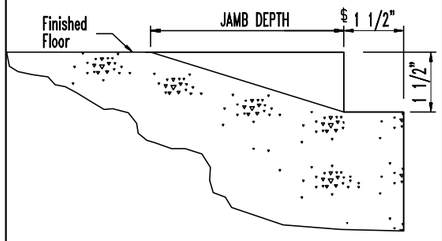


DETAIL B

Dia= 5/8"

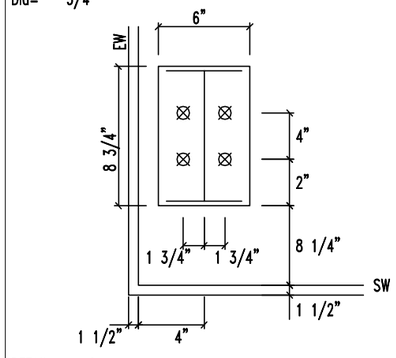


DETAIL E



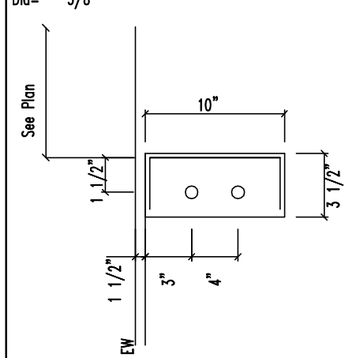
SUGGESTED CONCRETE CONDITION AT ROLL-UP DOOR

Dia= 3/4"



DETAIL C

Dia= 5/8"



DETAIL F

DRAWING STATUS

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REVISIONS

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STRAIGHT LINE
METAL BUILDINGS
DESIGN • FABRICATION • ERECTION

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(281) 375-2020

DESCRIPTION	ANCHOR BOLT DETAILS
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CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	CK'D	11/27/23	NONE		23-8142	AB2 OF 3	0

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)	=	100.0
Length (ft)	=	100.0
Eave Height (ft)	=	28.0/ 28.0
Roof Slope (rise/12)	=	3.0/ 3.0
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	0.5
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Snow Load (psf)	=	3.8
Wind Speed (mph)	=	115.0
Wind Code	=	IBC 21
Exposure	=	C
Closure	=	Enclosed
Importance Wind	=	1.00
Importance Seismic	=	1.25
Seismic Zone	=	A
Seismic Coeff (Fa*Ss)	=	0.08

5. Loading conditions are:

1	Dead+Collateral+Live
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	1.01Dead+1.01Collateral+0.52Seismic_LongR
7	0.6Dead+0.6Wind_Right2+0.6Wind_Suction
8	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	-----Dead---- Horiz	Vert	--Collateral- Horiz	Vert	-----Live---- Horiz	Vert	-----Snow---- Horiz	Vert	--Wind_Left1- Horiz	Vert	-Wind_Right1- Horiz	Vert
1	A	1.1	2.7	0.2	0.3	3.7	7.6	1.2	2.4	-9.3	-15.3	-1.9	-11.3
1	J	-1.1	2.7	-0.2	0.3	-3.7	7.6	-1.2	2.4	1.9	-11.3	9.3	-15.3

Frame Line	Column Line	--Wind_Left2- Horiz	Vert	-Wind_Right2- Horiz	Vert	--Wind_Long1- Horiz	Vert	--Wind_Long2- Horiz	Vert	-Seismic_Left Horiz	Vert	Seismic_Right Horiz	Vert
1	A	-8.3	-8.8	-0.8	-4.9	-1.8	-13.7	-3.3	-11.8	-0.1	-0.1	0.1	0.1
1	J	0.8	-4.9	8.3	-8.8	3.3	-11.8	1.8	-13.7	-0.1	0.1	0.1	-0.1

Frame Line	Column Line	-MIN_SNOW-- Horiz	Vert	F1UNB_SL_L- Horiz	Vert	F1UNB_SL_R- Horiz	Vert
1	A	1.7	3.5	1.3	2.8	1.3	1.8
1	J	-1.7	3.5	-1.3	1.8	-1.3	2.8

Frame Line	Column Line	-----Dead---- Horiz	Vert	--Collateral- Horiz	Vert	-----Live---- Horiz	Vert	-----Snow---- Horiz	Vert	--Wind_Left1- Horiz	Vert	-Wind_Right1- Horiz	Vert
5	A	1.1	2.7	0.2	0.3	3.7	7.6	1.2	2.4	-9.3	-15.3	-1.9	-11.3
5	J	-1.1	2.7	-0.2	0.3	-3.7	7.6	-1.2	2.4	1.9	-11.3	9.3	-15.3

Frame Line	Column Line	--Wind_Left2- Horiz	Vert	-Wind_Right2- Horiz	Vert	--Wind_Long1- Horiz	Vert	--Wind_Long2- Horiz	Vert	-Seismic_Left Horiz	Vert	Seismic_Right Horiz	Vert
5	A	-8.3	-8.8	-0.8	-4.9	-1.8	-13.7	-3.3	-11.8	-0.1	-0.1	0.1	0.1
5	J	0.8	-4.9	8.3	-8.8	3.3	-11.8	1.8	-13.7	-0.1	0.1	0.1	-0.1

Frame Line	Column Line	-MIN_SNOW-- Horiz	Vert	F2UNB_SL_L- Horiz	Vert	F2UNB_SL_R- Horiz	Vert
5	A	1.7	3.5	1.3	2.8	1.3	1.8
5	J	-1.7	3.5	-1.3	1.8	-1.3	2.8

Frame Line	Column Line	-----Dead---- Horiz	Vert	--Collateral- Horiz	Vert	-----Live---- Horiz	Vert	-----Snow---- Horiz	Vert	--Wind_Left1- Horiz	Vert	-Wind_Right1- Horiz	Vert
2*	A	2.0	4.4	0.4	0.6	8.4	15.0	2.7	4.8	-20.0	-30.2	-5.2	-22.3
2*	J	-2.0	4.4	-0.4	0.6	-8.4	15.0	-2.7	4.8	5.2	-22.3	20.0	-30.2

Frame Line	Column Line	--Wind_Left2- Horiz	Vert	-Wind_Right2- Horiz	Vert	--Wind_Long1- Horiz	Vert	--Wind_Long2- Horiz	Vert	-Seismic_Left Horiz	Vert	Seismic_Right Horiz	Vert
2*	A	-17.3	-17.4	-2.6	-9.6	-4.8	-46.1	-7.6	-42.3	-0.2	-0.1	0.2	0.1
2*	J	2.6	-9.6	17.3	-17.4	7.6	-42.3	4.8	-46.1	-0.1	0.1	0.1	-0.1

Frame Line	Column Line	-Seismic_Long Horiz	Vert	-MIN_SNOW-- Horiz	Vert	F3UNB_SL_L- Horiz	Vert	F3UNB_SL_R- Horiz	Vert
2*	A	0.0	-0.7	3.8	6.9	3.0	5.5	3.0	3.6
2*	J	0.0	-0.7	-3.8	6.9	-3.0	3.6	-3.0	5.5

2* Frame lines: 2 3 4

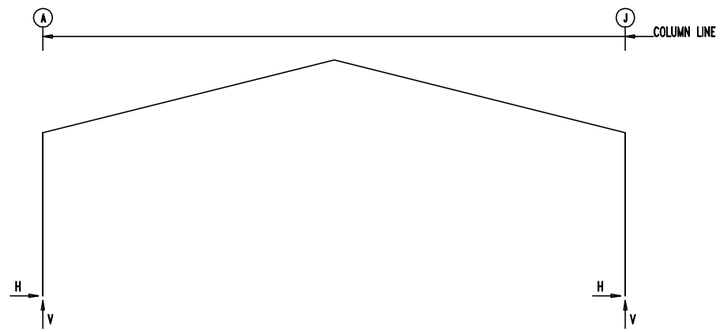
ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Sucl Horz	Seis Long Vert
1	B	0.7	-7.8	8.7	0.0
1	D	0.8	-10.2	11.3	0.0
1	G	0.8	-10.2	11.3	0.0
1	I	0.7	-7.8	8.7	0.0
5	H	0.6	-8.3	9.2	0.0
5	F	0.8	-9.7	10.7	0.0
5	E	0.8	-9.7	10.7	0.0
5	C	0.6	-8.3	9.2	0.0

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	B	7	5.2	0.4	8	-4.7	0.4	4	0.750	8.000	14.00	0.375	0.0
		6	0.0	0.7									
1	D	7	6.8	0.5	8	-6.1	0.5	4	0.750	8.000	14.00	0.375	0.0
		6	0.0	0.8									
1	G	7	6.8	0.5	8	-6.1	0.5	4	0.750	8.000	14.00	0.375	0.0
		6	0.0	0.8									
1	I	7	5.2	0.4	8	-4.7	0.4	4	0.750	8.000	14.00	0.375	0.0
		6	0.0	0.7									
5	H	7	5.5	0.4	8	-5.0	0.4	4	0.750	8.000	12.50	0.375	0.0
		6	0.0	0.6									
5	F	7	6.4	0.5	8	-5.8	0.5	4	0.750	8.000	12.50	0.375	0.0
		6	0.0	0.8									
5	E	7	6.4	0.5	8	-5.8	0.5	4	0.750	8.000	12.50	0.375	0.0
		6	0.0	0.8									
5	C	7	5.5	0.4	8	-5.0	0.4	4	0.750	8.000	12.50	0.375	0.0
		6	0.0	0.6									

FRAME LINES: 1 2 3 4 5



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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	A	1	5.0	10.7	2	-4.9	-7.5	4	0.750	6.000	8.750	0.500	0.0
1	J	3	4.9	-7.5	1	-5.0	10.7	4	0.750	6.000	8.750	0.500	0.0
		1	-5.0	10.7	3	4.9	-7.5						

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
2*	A	1	10.8	20.0	2	-10.8	-15.5	4	0.750	6.000	11.00	0.750	0.0
					4	-1.7	-25.1						
2*	J	3	10.8	-15.5	1	-10.8	20.0	4	0.750	6.000	11.00	0.750	0.0
		1	-10.8	20.0	5	1.7	-25.1						

2* Frame lines: 2 3 4

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
5	A	1	5.0	10.7	2	-4.9	-7.5	4	0.750	6.000	8.750	0.500	0.0
5	J	3	4.9	-7.5	1	-5.0	10.7	4	0.750	6.000	8.750	0.500	0.0
		1	-5.0	10.7	3	4.9	-7.5						

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
L_EW	1								(h)
F_SW	J	2,3	18.2	19.1	0.7	0.7			
R_EW	5								(h)
B_SW	A	3,2	18.2	19.1	0.7	0.7			

(h)Rigid frame at endwall

Reaction values for seismic shear force, Eh
Reaction values shown are unfactored
Maximum load combination factors are:
Wind : 0.60
Seismic : 0.70

DRAWING STATUS

☐ FOR APPROVAL:
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

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THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY DRAWINGS ISSUED " FOR CONSTRUCTION " CAN BE CONSIDERED AS COMPLETE.

☒ FOR CONSTRUCTION:
FINAL DRAWINGS.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
0	11/27/23	ANCHOR BOLT FOR CONSTRUCTION	ASB	CK'D

STRAIGHT LINE METAL BUILDINGS
DESIGN • FABRICATION • ERECTION
32916 FM 529
BROOKSHIRE, TX 77423
(281) 375-2020

DESCRIPTION	ANCHOR BOLT REACTIONS
SIZE	100'-0" x 100'-0" x 28'-0"
CUSTOMER	LCRA
LOCATION	AUSTIN TX 78744
CAD BY	MEM

DRN. BY	CK'D BY	DATE	SCALE	QUOTE NO.	JOB NO.	SHEET NO.	ISSUE
ASB	CK'D	11/27/23	NONE		23-8142	AB3 OF 3	0