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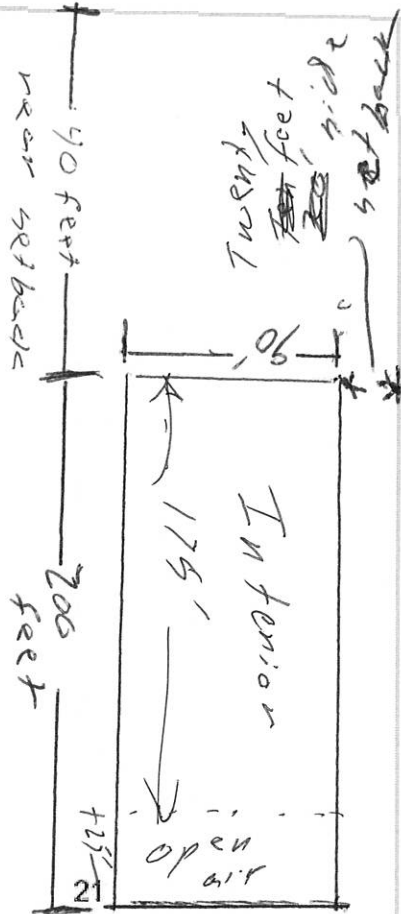
-

9298e 1300s huntsville, ut X Q

Show search results for 9298e ...

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ED KNEE FARMS



60ft

**GENERAL NOTES**

- CO BUILDING SYSTEMS STANDARD PRODUCT SPECIFICATIONS (UNLESS SPECIFIED OTHERWISE IN THE CONTRACT DOCUMENTS) APPLY TO ALL BUILDING SYSTEMS DESIGN, FABRICATION, QUALITY CRITERIA STANDARDS AND TOLERANCES WILL GOVERN THE WORK. IN CASE OF CONFLICTS BETWEEN CO BUILDING SYSTEMS STRUCTURAL PLANS AND PLANS FOR OTHER TRADES, CO BUILDING SYSTEMS PLANS SHALL GOVERN.
- IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO OBTAIN APPROPRIATE APPROVALS AND NECESSARY PERMITS FROM CITY, COUNTY, STATE, OR FEDERAL AGENCIES, AS REQUIRED.
- APPROVAL OF CO BUILDING SYSTEMS DRAWINGS CONSTITUTES THE BUILDER/CONTRACTOR'S ACCEPTANCE OF CO BUILDING SYSTEMS INTERPRETATION OF THE CONTRACT PURCHASE ORDER.
- FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF CO BUILDING SYSTEMS.
- CO BUILDING SYSTEMS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR FOUNDATION, FLOOR, OR SLAB DESIGN OR CONSTRUCTION.
- THE BUILDING REACTION DATA REPORTS THE LOADS WHICH THIS BUILDING PLACES ON THE FOUNDATION, COLUMN FOOTINGS, AND PIERS REACTIONS. REACTIONS ARE GIVEN IN KIPS (1 KIP = 1000 LBS.)
- ALL COLUMN BASE PLATES SET AT FINISHED FLOOR (100'-0") UNLESS NOTED (JUN.) SEE DETAIL TEMPLATES ON ANCHOR BOLT PLAN.
- ALL ANCHOR BOLTS, INCLUDING NUTS AND WASHERS, FOR SAME BOLT, TO BE DETERMINED BY THE FOUNDATION DESIGNER. ANCHOR BOLT MATERIALS SHALL CONFORM TO ASTM F1554 OR 36 OR EQUAL.
- ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLERANCE OF ±0.005" IN ELEVATION AND LOCATION. REFER TO ANCHOR BOLT SUMMARY TABLE ON ANCHOR BOLT PLAN FOR PROJECTION.
- WALK DECKS ARE FIELD LOCATED AND ARE NOT SHOWN ON THE BUILDING REACTION DRAWINGS. WELDE ANCHORS ARE PROVIDED AND ARE TO BE FIELD DRILLED. ALLOW NECESSARY TOLERANCES, WHEN TYPICAL, TO FILLANCE OF DOOR WIDTH ± 5/16" MINIMUM.
- WINDOW FRAMED OPENINGS ARE FIELD LOCATED AND ARE NOT SHOWN ON THE BUILDING REACTION DRAWINGS. WELDE ANCHORS ARE PROVIDED WITH FULL GEE FRAMED OPENINGS AND ARE TO BE FIELD DRILLED.
- OVERHEAD DOORS ARE FACTORY LOCATED AND ARE SHOWN ON THE BUILDING REACTION DRAWINGS. OVERHEAD DOORS ARE FRAMED OPENING W/TRIM ONLY AND DO NOT INCLUDE DOORS.

13. MATERIALS:

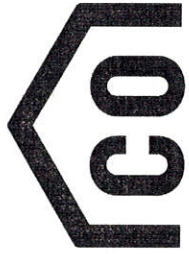
ITEM	YIELD (ksi)	ASTM SPECIFICATION
1. PLATE/BAR		
1.0	55	A1011 GRADE 55
1.1	55	A572, A572 GRADE 55
2. HOT ROLLED STRUCTURAL SHAPES		
2.0	55	A36
2.1	55	A36
2.2	55	A572, A572 GRADE 55
2.3	55	A500 GRADE B
2.4	55	A500 GRADE B
3. COLD FORMED STRUCTURAL SHAPES		
3.0	55	A1011 GRADE 55
3.1	55	A563 GRADE 55
4. ROOF AND WALL SHEETS		
4.0	60	A792, A653 GRADE 80
4.1	60	A792, A653 GRADE 50
5. BRACKETS		
5.0	50	A792, A653 GRADE 50
6. CABLE		
6.0	180	EXTRA HIGH STRENGTH A473
7. BOLTS		
7.0	180	F1512 GR A533, A307 (A307 U.S.)

- ELECTRODES ER70 S-6 (GMW) F7A6-EC1 (SAW)
- THE SEISMIC LOAD RESISTING SYSTEM (SLRS) MUST MEET THE REQUIREMENTS OF AISC 341.10 AND AWS D1.8/D1.8M, HAVING A MIN. CHARPY V-TOUGHNESS=20 ft-lb @ 70°F.
- SHOP PRIMER IS A RUST INHIBITIVE PRIMER AND IS CO BUILDING SYSTEMS COLOR RED OXIDE. THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS.
- HIGH STRENGTH BOLTS ARE A325 UNLESS SPECIFICALLY NOTED OTHERWISE.
- STRUCTURAL BOLTS SHALL BE TIGHTENED BY THE TURN OF THE NUT METHOD OR CALIBRATED WRENCH METHOD IN ACCORDANCE WITH ROSS SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS. WRENCH TORQUE SHALL BE 220 FT-LBS. BOLTS MAY BE INSTALLED WITHOUT WASHERS WHEN TIGHTENED BY THE TURN OF THE NUT METHOD.
- ALL HIGH STRENGTH BOLTS, EXCEPT AS NOTED OTHERWISE, ARE SUBJECT TO DIRECT TENSION AND MAY REQUIRE INSPECTION AS DEFINED BY THE APPLICABLE BUILDING CODE OR STANDARD. IT IS THE RESPONSIBILITY OF THE ERECTOR TO ASSURE PROPER TIGHTNESS.

**DRAWING INDEX**

SHEET	TITLE	REV
1	ANCHOR BOLT PLAN	
2	ANCHOR BOLT REACTIONS	
3	RIGID FRAME ELEVATION	
4	RIGID FRAME ELEVATION	
5	RIGID FRAME ELEVATION	
6	ROOF DRAWING	
7	SIDEWALL FRAMING	
8	SIDEWALL FRAMING	
9	ENDWALL FRAMING	
10	ENDWALL FRAMING	
11	DETAIL SHEET	
12	DETAIL SHEET	
13	DETAIL SHEET	

**FOR CONSTRUCTION**



**BUILDING SYSTEMS INC.**



**BUILDER: REBOUNDER PROPERTIES LLC**  
**9298 E 1300 S**  
**HUNTSVILLE, UT 84317**  
**937-206-1474**

**OWNER: MARTIN F BERTRAM RLТ**  
**9298 E 1300 S**  
**HUNTSVILLE, UT 84317**

**PROJECT: AG STORAGE**  
**JOB #: 20082440**

**BUILDING DESIGN INFORMATION**

NOMINAL WIDTH : 90 feet  
 LENGTH : 200 feet  
 EAVE HEIGHT : 15 feet  
 ROOF SLOPE : 3:0.12

This Document is to certify that the project that is referenced and its components have been designed in general accordance with the AISC 360-16 Specification for Structural Steel Buildings and the AISI S100-2016 NAUS Specification for Cold Formed Steel Decking, as well as the designated building code stipulated in the order documentation.

Based on the requirements of the order documentation, the structural design criteria applied to the design of the project is as follows:

**DESIGN LOADS:**

BUILDING CODE : IBC 16  
 RISK CATEGORY : I - Low  
 ROOF LOAD DATA :  
 DEAD : 3.000 psf  
 LIVE : 0 psf  
 COLLATERAL LOAD : 20.000 psf  
 ROOF LIVE LOAD : 2.95000 in/hr  
 RAIN INTENSITY :  
 FLOOR LOAD DATA :  
 FLOOR COLLATERAL LOAD : psf  
 FLOOR LIVE LOAD : psf  
 SNOW LOAD DATA :  
 GROUND SNOW LOAD, P<sub>g</sub> : 54.0 psf  
 ROOF SNOW LOAD, P<sub>s</sub> : 100 psf  
 SNOW EXPOSURE FACTOR, C<sub>e</sub> : 0.80  
 THERMAL FACTOR, C<sub>t</sub> : 1.20  
 WIND LOAD DATA :  
 BASIC DESIGN WIND SPEED, V : 97 mph  
 ALLOWABLE STRESS DESIGN WIND SPEED, V<sub>asd</sub> : 75 mph  
 WIND EXPOSURE : C  
 INTERNAL PRESSURE COEFFICIENT : +/-0.18  
 DESIGN WIND PRESSURE FOR COMPONENTS : 16.0 / -16.2 psf  
 EARTHQUAKE DESIGN DATA : 16.2 / -19.8 psf (EQUIVALENT LATERAL FORCE ANALYSIS)  
 SEISMIC IMPORTANCE FACTOR : 1.00  
 SEISMIC DESIGN CATEGORY : D  
 SITE COEFFICIENTS : For: 2.00  
 MAPPED SPECTRAL RESPONSE ACCELERATION : S<sub>s</sub>: 0.752  
 MAX. CONSIDERED SPECTRAL RESPONSE ACC. : S<sub>m1</sub>: 0.539  
 LONGITUDINAL DESIGN BASE SHEAR, V : S<sub>d1</sub>: 0.359  
 TRANSVERSE DESIGN BASE SHEAR, V : 42.94 kips  
 BASIC SEISMIC FORCE RESISTING SYSTEM :  
 LOCATION :  
 FRONT SW : OSMF : 0.172  
 BACK SW : OSMF : 0.172  
 LEFT EW : OCBF : 3.5  
 RIGHT EW : OCBF : 3.25  
 TRANSVERSE : OSMF : 0.185  
 LONGITUDINAL : OSMF : 0.172  
 CRANE DATA :  
 CRANE TYPE :  
 SERVICE CLASS :  
 MAX. CRANE CAPACITY : tons  
 MAX. BRIDGE WEIGHT : kips  
 MAX. RAIL & R/W BEAM WT : kips  
 SPECIFIED WHEEL BASE : ft

SEISMIC RESPONSE MODIFICATION COEFFICIENT, R : 3.5  
 3.5  
 3.25  
 3.5

This letter of certification applies solely to the above referenced project and its components as furnished by CO Building Systems Inc. Items specifically not covered by this letter of certification include, but are not limited to, any foundation design, masonry design, or general contract work. The engineer's responsibility for design and construction of this project and its components as stipulated in the order documentation. Primary framing, secondary framing, screw-down sheathing, and standing seam roof panels are manufactured at CO Building Systems Inc. facility at 320 W 100 N in Ephraim, Utah.

**ENGINEER'S STAMP**

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT THE CO BUILDING SYSTEMS INC. ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM SUPPLIED BY CO BUILDING SYSTEMS INC. IS INCLUDED BY THE SEALING OF THESE DRAWINGS. FOUNDATION DESIGN, ELECTRICAL, MECHANICAL, AND ALL OTHER TRADES ARE SPECIFICALLY EXCLUDED.

**ENGINEER'S STAMP**

9/14/20

DRAWING COVER REVISION: 0





MARTIN F BERTRAM RLT  
9298 E 1300 S  
HUNTSVILLE, UT 84317

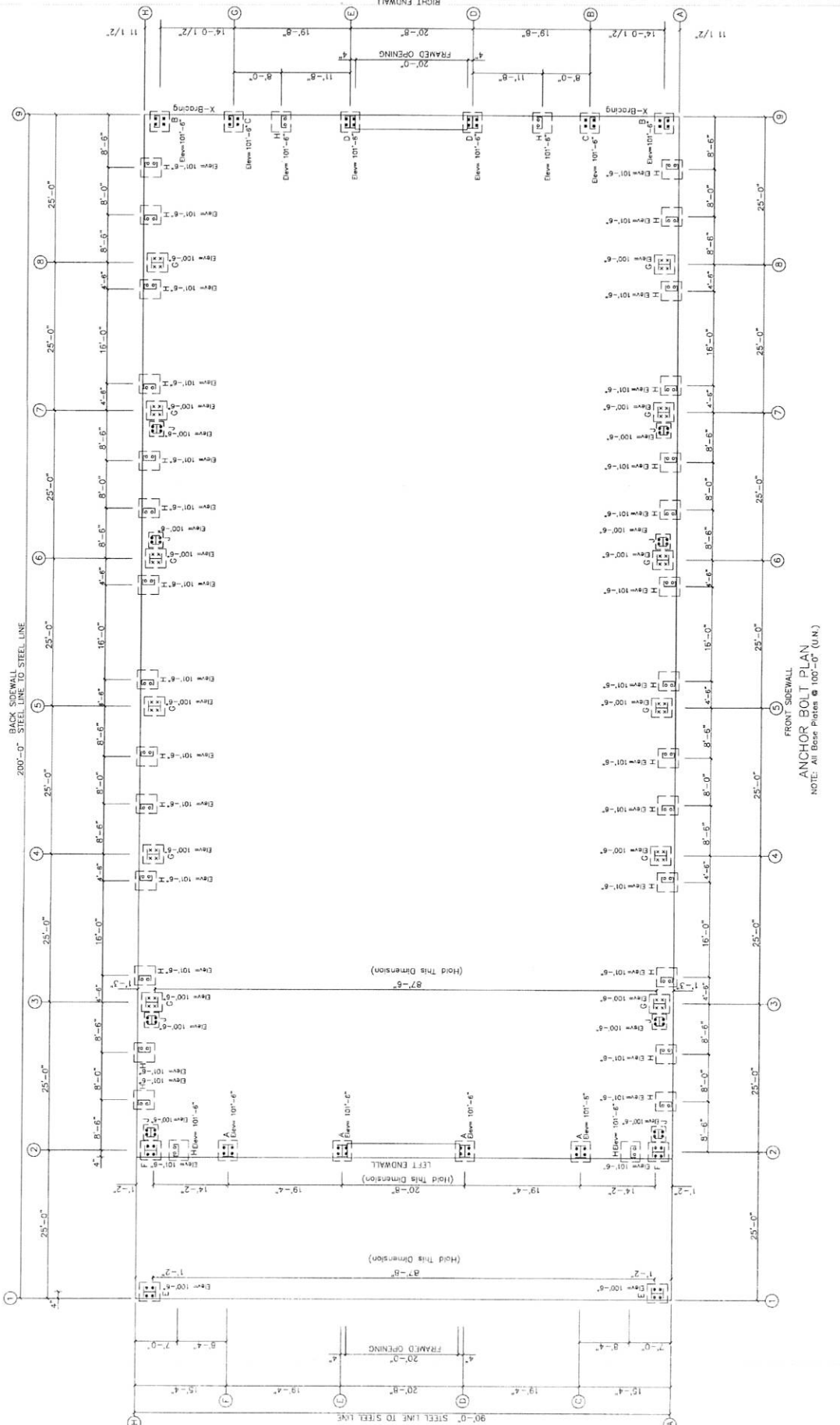
ANCHOR BOLT PLAN & DETAILS

REVISIONS

REV	DATE	DESCRIPTION



DESIGN: OP  
DRAFT: JP/NS  
CHECK: SZ  
DATE: 8/25/20  
JOB # 20082440  
SHEET 1 OF 13 REV 0



ANCHOR BOLT PLAN  
NOTE: All Base Plates @ 100'-0\"/>

DETAIL A Base EL. 101'-6"

DETAIL B Base EL. 101'-6"

DETAIL C Base EL. 101'-6"

DETAIL D Base EL. 101'-6"

DETAIL E Base EL. 100'-0"

DETAIL F Base EL. 101'-6"

DETAIL G Base EL. 100'-6"

DETAIL H Base EL. 101'-6"

DETAIL J Base EL. 100'-6"





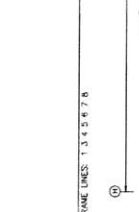
MEMBER  
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MEMBER

MARTIN F BERTRAM RL  
9298 E 1300 S  
HUNTSVILLE, UT 84317  
AG STORAGE

DESIGN: CP  
DRAFT: JF/NS  
CHECK: EZ  
DATE: 8/25/20  
JOB # 20082440  
SHEET 2 OF 13 REV 0

ANCHOR BOLT REACTIONS

REV	DATE	DESCRIPTION



Line	Col	Wind	Reactions	Base Plate

Line	Col	Wind	Reactions	Base Plate



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

Line	Col	Wind	Reactions	Anchor Bolt	Base Plate

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

Line	Col	Wind	Reactions	Anchor Bolt	Base Plate

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

Line	Col	Wind	Reactions	Anchor Bolt	Base Plate

NOTES FOR REACTIONS

- 1. Building reactions are based on...
- 2. Wind (W) bearing on...
- 3. Wind Speed (WSP) = 37.0
- 4. Exposure = B
- 5. Importance = 1.0
- 6. Seismic Design Category = D
- 7. Temperature Change = 10.0
- 8. Dead Column = 25k
- 9. Dead Column = 25k
- 10. Dead Column = 25k
- 11. Dead Column = 25k
- 12. Dead Column = 25k
- 13. Dead Column = 25k
- 14. Dead Column = 25k
- 15. Dead Column = 25k
- 16. Dead Column = 25k
- 17. Dead Column = 25k
- 18. Dead Column = 25k
- 19. Dead Column = 25k
- 20. Dead Column = 25k
- 21. Dead Column = 25k

ANCHOR BOLT SUMMARY

Line	Col	Wind	Reactions	Anchor Bolt	Base Plate

SPICE, PLATE, & BOLT TABLE

Qty	Part	Type	Length	Width	Thickness
4	2	A325	1.000	3.11	3/4"
4	4	C	0.750	2.13	3/8"

FLANGE BRACE TABLE

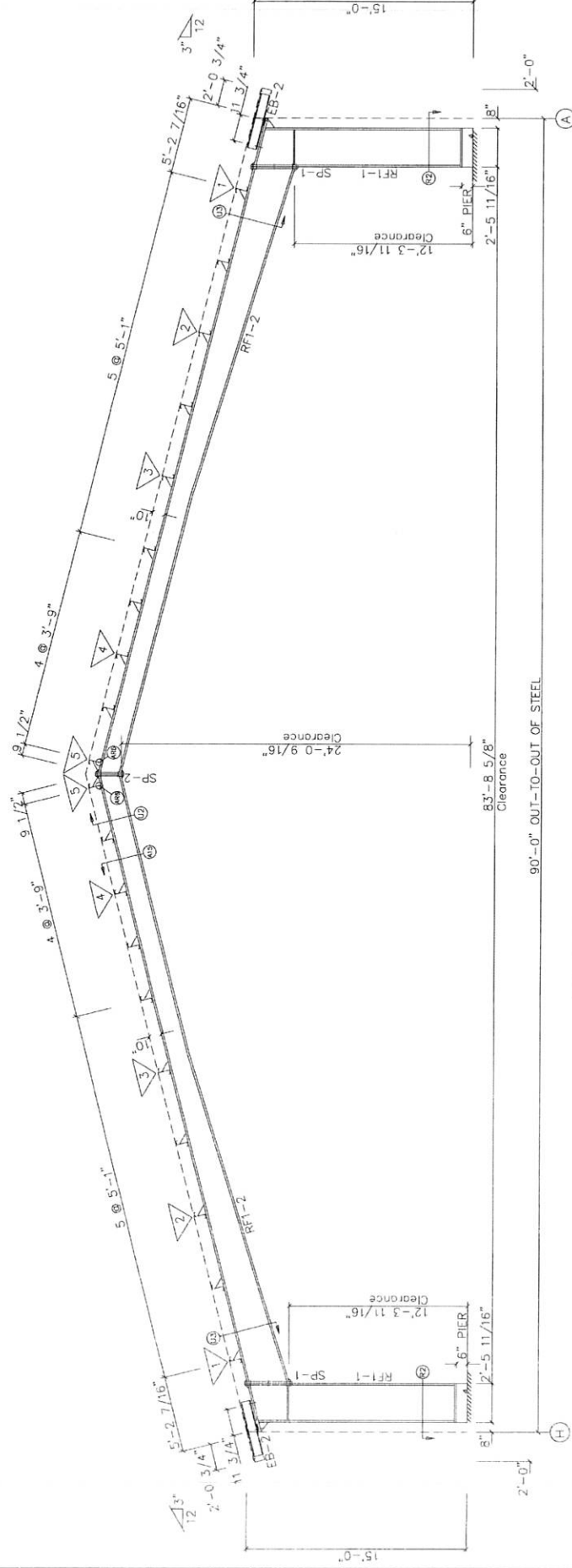
SPICE SERIES	MARK	LENGTH	PART
1	FB1	3'-10 1/2"	U22x42C
2	FB2	2'-5 1/4"	U22x42C
3	FB3	2'-4 3/4"	U22x42C
4	FB4	2'-4 3/4"	U22x42C
5	FB5	2'-4 3/4"	U22x42C

STIFFENER TABLE

Mark	Stiffener	Plate Size	Length	
RF1-1	ST-1	14.000	0.313	28.88

MEMBER TABLE

Mark	Web Depth	Web Thickness	Outside Flange	Inside Flange
RF1-1	28.0/28.0	0.250	8 x 5/16" x 185.0	8 x 3/8" x 17.5
RF1-2	30.0/17.3	0.188	8 x 5/16" x 38.4	8 x 1/2" x 17.6
	17.3/15.0	0.188	6 x 5/16" x 140.0	6 x 5/8" x 18.2
	15.0/15.0	0.188	6 x 5/16" x 161.1	6 x 1/4" x 236.2

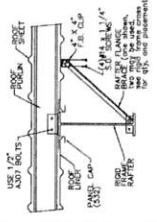


BUILDING CROSS SECTION: FRAME LINE 1



DESIGN: CP  
 DRAFT: NS  
 CHECK: DATE: 9/14/20  
 20082440

SHEET 3 OF 13 REV 0



FLANGE BRACE CONNECTION WITH ROOF LINER SHEET

RIGID FRAME ELEVATION  
 MARTIN F BERTRAM RL  
 9298 E 1300 S  
 HUNTSVILLE, UT 84317  
 AG STORAGE

REVISIONS

REV	DATE	DESCRIPTION



SPRICE PLATE & BOLT TABLE						
Mark	Qty	Top Bolt Int. Type	Qty	Type	Dia.	Length
SP-1	4	0	A325	0.750	2.13	
SP-2	4	0	A325	0.750	2.13	
SP-3	4	0	A325	0.750	2.13	
SP-4	4	0	A325	0.750	2.13	

FLANGE BRACE TABLE			
Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

STIFFENER TABLE			
Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

MEMBER TABLE			
Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325 </tbody

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

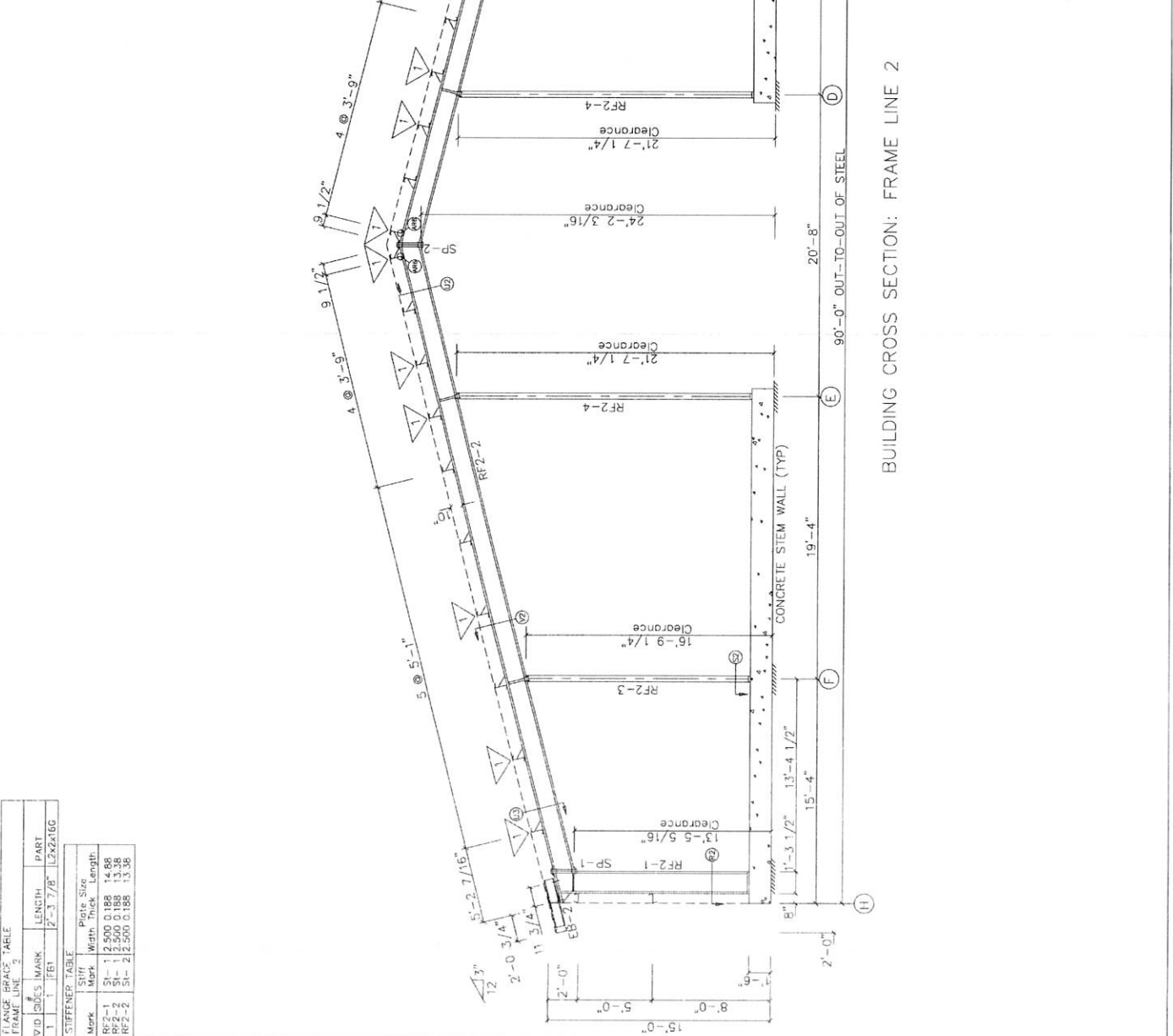
Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325

Mark	Qty	Top Bolt Int. Type	Qty
RF2-1	4	0	A325
RF2-2	4	0	A325
RF2-3	4	0	A325
RF2-4	4	0	A325



BUILDING CROSS SECTION: FRAME LINE 2



MARTIN F BERTRAM RL  
 9298 E 1300 S  
 HUNTSVILLE, UT 84317  
 AG STORAGE

REV	DATE	DESCRIPTION



DESIGN: CP  
 DRAFT: NS  
 CHECK: EC  
 DATE: 9/14/20  
 JOB # 20082440  
 SHEET 4 OF 13 REV 0

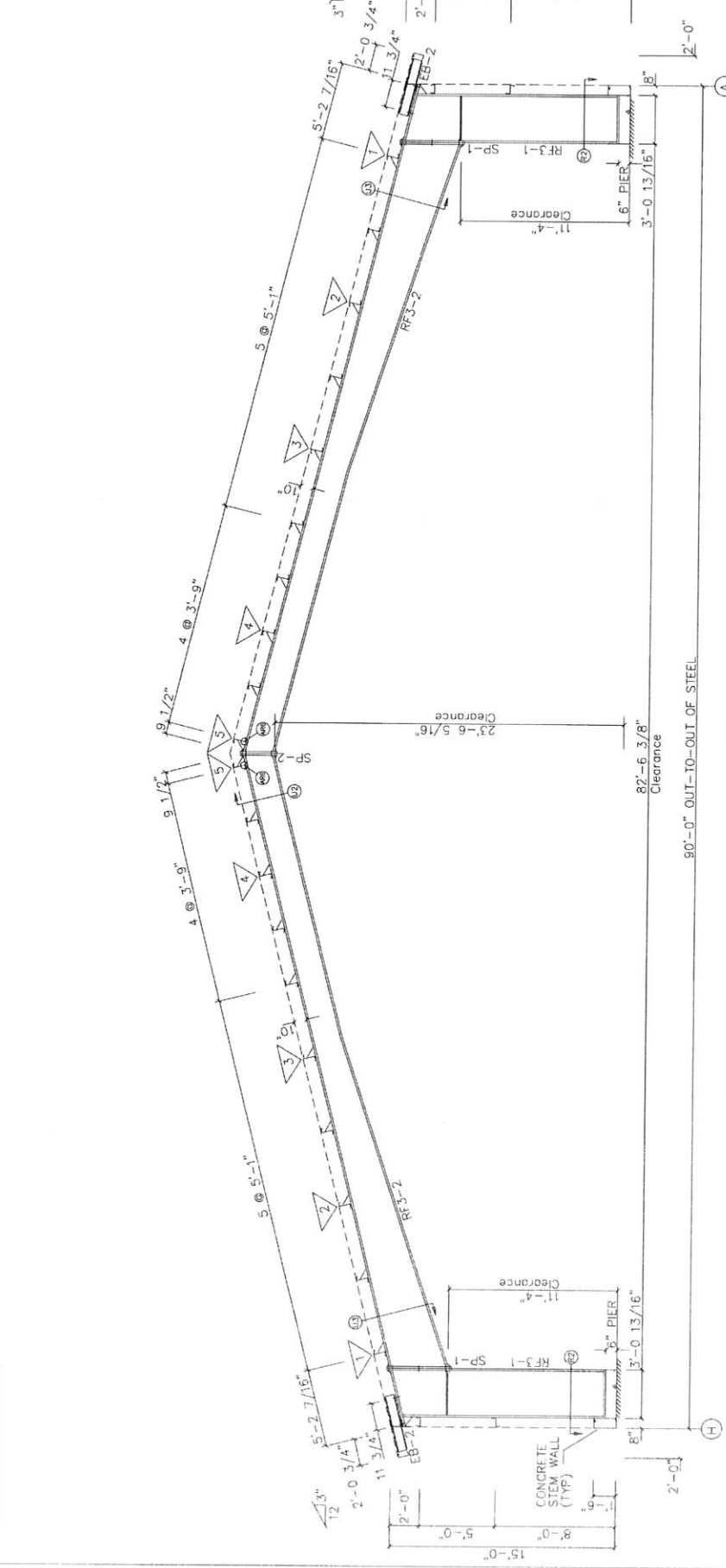
Mark	Qty	Top	Bot.	Int.	Type	Dia.	Length	Width	Thick.
SP-2	4	4	4	0	A325	1.000	3.13	8"	3/4"
SP-1	4	4	0	0	A325	0.750	2.13	8"	3/8"

Mark	Qty	Top	Bot.	Int.	Type	Dia.	Length	Width	Thick.
RF3-1	4	4	0	0	A325	1.000	3.13	8"	3/4"
RF3-2	4	0	4	0	A325	0.750	2.13	8"	3/8"

Mark	Shif.	Mark	Width	Thick.	Length
RF3-1	51	1	4.000	0.313	35.88

Mark	Top	Bot.	Int.	Type	W	Depth	Wt.	Plate	Thick.	Length	Inside Flange	W	Depth	Wt.	Plate	Thick.	Length
RF3-1	43.0	24.1	0	0	43.0	24.1	0.250	240.0	0.250	240.0	8" x 5 1/8" x 165.0	8" x 5 1/8" x 165.0	0.250	174.1			
RF3-2	24.1	21.0	0	0	24.1	21.0	0.250	39.8	0.188	1,240.0	8" x 5 1/8" x 106.4	8" x 5 1/8" x 106.4	0.250	234.7			

MARK	LENGTH	PART
EB11	5'-3 3/4"	L2x2x1/4
EB10	4'-0 7/8"	L2x2x1/2
EB9	2'-8 1/8"	L2x2x1/2
EB8	2'-8 5/8"	L2x2x1/2



BUILDING CROSS SECTION: FRAME LINE 3 4 5 6 7 8

REVISIONS

REV	DATE	DESCRIPTION

DESIGN: CP  
 DRAFT: NS  
 CHECK: EC  
 DATE: 9/14/20  
 JOB: 20082440  
 SHEET 5 OF 13 REV 0

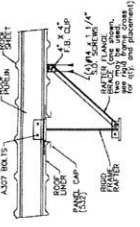
AG STORAGE  
 HUNTSVILLE, UT 84317  
 MARTIN F BERTRAM RLTI  
 9298 E 1300 S

COI BUILDING SYSTEMS INC.  
 MBRM MEMBER  
 IAS ACCREDITED

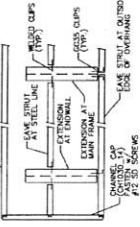
PROFESSIONAL ENGINEER  
 Cory James  
 948 8882 2202  
 UTAH STATE OF

**GENERAL NOTES:**

- STANDARD CONNECTION FOR ALL ROOF PURLINS TO FRAMES ARE 2 EA-1/2" A307 BOLTS.
- IF THE CONTRACTOR/ERECTOR TO ENSURE THAT ALL BOLT GRADES, DIAMETERS, AND QUANTITIES ARE LOCATED AND INSTALLED AS SPECIFIED.
- SEE DETAILS 549, 550, 551, 552, AND 553 BEFORE INSTALLATION OF ROOF PANELS.
- IT IS THE RESPONSIBILITY OF THE ERECTOR TO MAINTAIN PANEL MODULE WIDTH.



**A15** FLANGE BRACE CONNECTION WITH ROOF LINER SHEET



**K50** SIDEWALL & ENDWALL OVERHANG

**EXTENSION/CANOPY BOLTS**

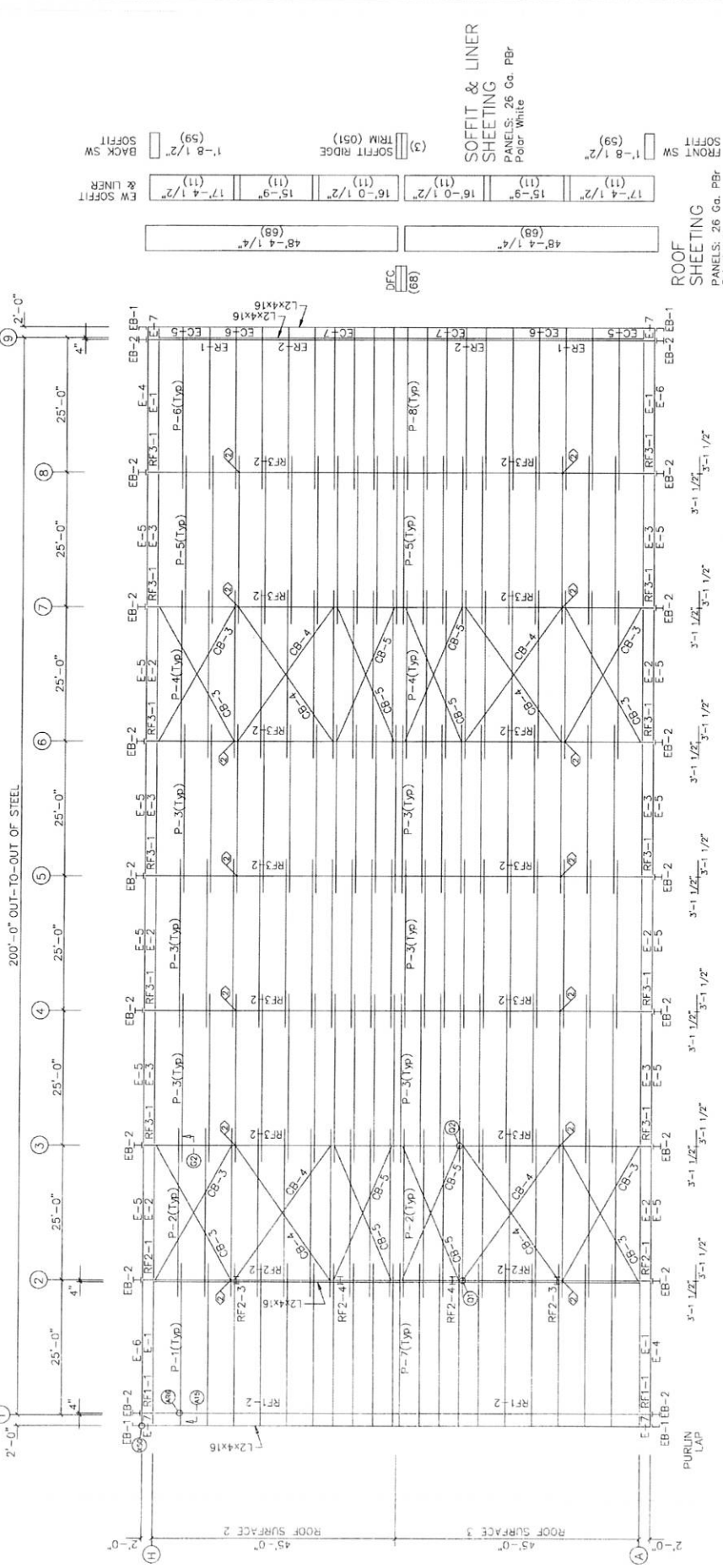
MARK	QUAN	TYPE	DIA	LENGTH
EB-2	4	A325	5/8"	1 1/2"

**MEMBER TABLE**

ROOF PLAN	QUAN	MARK	PART	LENGTH
4	18	EB-1	CH103014	7'-3"
10	10	EB-2	10B13	2'-9"
20	20	P-1	Z1025-12	30'-1 1/2"
60	60	P-2	Z1025-12	31'-3"
20	20	P-3	Z1025-14	31'-3"
20	20	P-4	Z1025-14	31'-3"
10	10	P-5	Z1025-12	30'-1 1/2"
10	10	P-6	Z1025-12	30'-1 1/2"
10	10	P-7	Z1025-12	30'-1 1/2"
4	4	P-8	Z1025-12	30'-1 1/2"
6	6	P-9	E1045-12	24'-0 1/2"
2	2	P-10	E1045-12	24'-4 1/2"
12	12	E-1	C1025-12	26'-11 1/2"
2	2	E-2	C1025-12	26'-11 1/2"
8	8	E-3	E1045-12	1'-11 3/4"
8	8	CB-1	0.38-CBL	27'-3 3/4"
8	8	CB-2	0.38-CBL	29'-6 3/4"
8	8	CB-3	0.38-CBL	25'-10 1/2"

**SPECIAL BOLTS**

ROOF PLAN	QUAN	TYPE	DIA	LENGTH	WASH
2	3	A325	1/2"	1 1/4"	2



AG STORAGE  
HUNTSVILLE, UT 84317  
9298 E 1300 S  
MARTIN F BERTRAM PRT  
ROOF FRAMING

REV	DATE	DESCRIPTION



DESIGN: CP  
DRAFT: NS  
CHECK: DATE: 9/14/20  
JOB # 20082440  
SHEET 6 OF 13 REV 0

REVISIONS

SOFFIT & LINER SHEETING  
PANELS: 26 Ga. PBR  
Polar White

SOFFIT SW  
FRONT SW  
SOFFIT

ROOF SHEETING  
PANELS: 26 Ga. PBR  
Galvalume

ROOF FRAMING PLAN



**GENERAL NOTES:**

CO BUILDING SYSTEMS RECOMMENDS THAT AT LEAST ONE BRACED BAY BE INSTALLED PRIOR TO OTHER FRAME LINES. THIS INCLUDES EAVE STRUTS, PURLIN STRUTS, WIND BENTS, AND BRACE CABLE/ROD OVER THE COMPLETE BAY. FAILURE TO DO SO MAY RESULT IN SERIOUS DAMAGE TO THE STRUCTURE AND/OR BODILY INJURY.

**BOLT TABLE:**

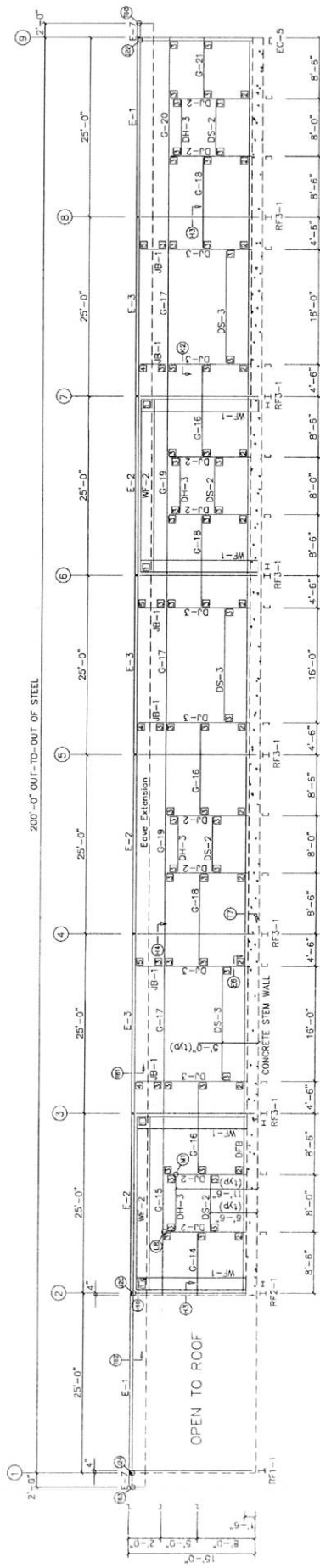
FRAME LINE A	LOCATION	QUAN	TYPE	DIA	LENGTH	WIDTH	THICK	LENGTH
WF-1 - WF-2	8	A325	1"	2	5/8"	6"	5/8"	25 1/8"
	4	A325	5/8"	1	1/2"			

**CONNECTION PLATES**

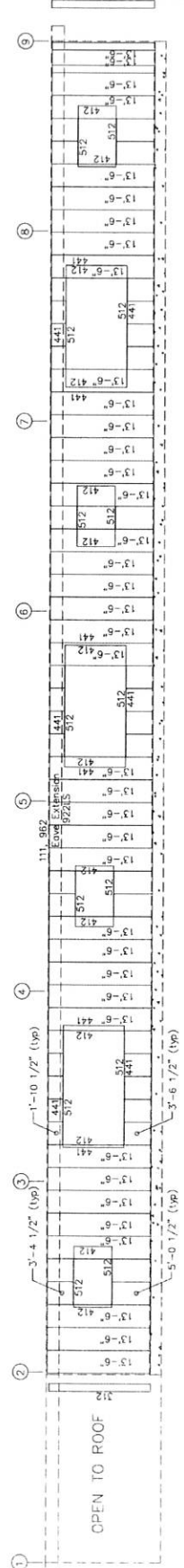
FRAME LINE A	CONNECTION MARK/PART
1	PBCS
2	PBCSN
3	GC35
4	EJ2L
5	EJ2R

**MEMBER TABLE**

FRAME LINE A	MARK	PART	LENGTH
WF-1	20B25		14'-2"
WF-2	18B26		20'-8 7/8"
DJ-2	C825-16		11'-6"
DJ-3	C825-16		11'-6"
DH-3	C825-16		8'-0"
DS-2	C825-16		8'-0"
DS-3	C825-16		16'-0"
E-1	E1045-12		24'-0 1/2"
E-2	E1045-12		24'-4 1/2"
E-3	E1045-12		24'-4 1/2"
E-7	E1045-12		1'-11 3/4"
G-14	Z825-16		8'-6 1/4"
G-15	Z825-16		25'-3 3/4"
G-16	Z825-16		12'-4 1/2"
G-17	Z825-16		24'-11 1/2"
G-18	Z825-16		12'-4 1/2"
G-19	Z825-16		24'-11 1/2"
G-20	Z825-16		24'-11 3/4"
G-21	Z825-16		8'-2 1/4"
JB-1	C825-16		9 3/4"



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 28 Ga. PBR - Burnished Side



MARTIN F BERTRAM RL  
9298 E 1300 S  
HUNTSVILLE, UT 84317  
AG STORAGE

REVISIONS

REV	DATE	DESCRIPTION



DESIGN: CF  
DRAFT: NS  
CHECK: 62  
DATE: 9/15/20  
JOB # 20092440  
SHEET 7 OF 13 REV 0

**GENERAL NOTES:**

CO BUILDING SYSTEMS RECOMMENDS THAT AT LEAST ONE BRACED BAY BE INSTALLED PRIOR TO OTHER FRAME LINES. THIS INCLUDES EAVE STRUTS, PURLIN STRUTS, WIND BENTS, AND BRACE CABLE/ROD OVER THE COMPLETE BAY. FAILURE TO DO SO MAY RESULT IN SERIOUS DAMAGE TO THE STRUCTURE AND/OR BODILY INJURY.

**BOLT TABLE:**

LOCATION	QUAN	TYPE	DIA	LENGTH	WIDTH	THICK	LENGTH
WF-3 - WF-4	8	A325	3/4"	2	3/8"		24
WF-3 - RF	4	A325	5/8"	1	1/2"		

**PLATE SIZE**

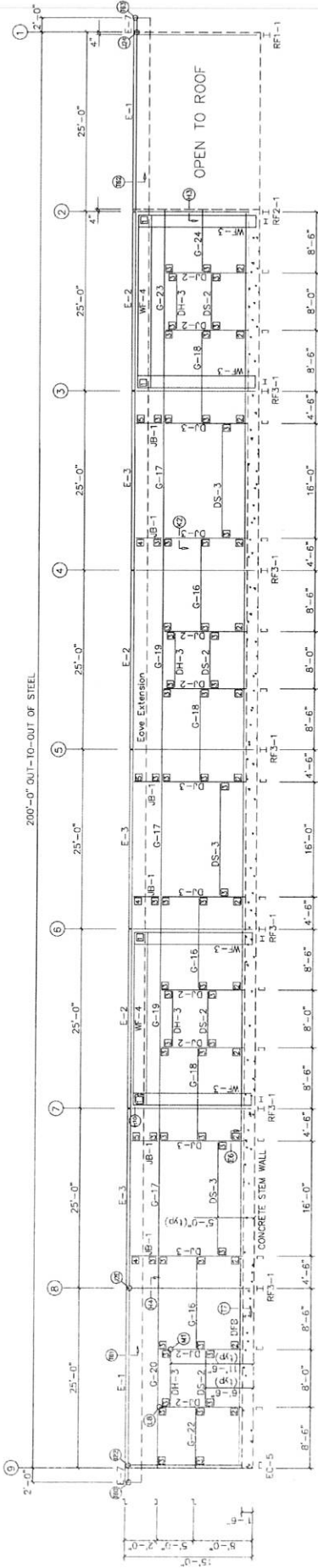
FRAME LINE H	QUAN	TYPE	DIA	LENGTH	WIDTH	THICK	LENGTH
WF-3 - WF-4	8	A325	3/4"	2	3/8"		24
WF-3 - RF	4	A325	5/8"	1	1/2"		

**CONNECTION PLATES**

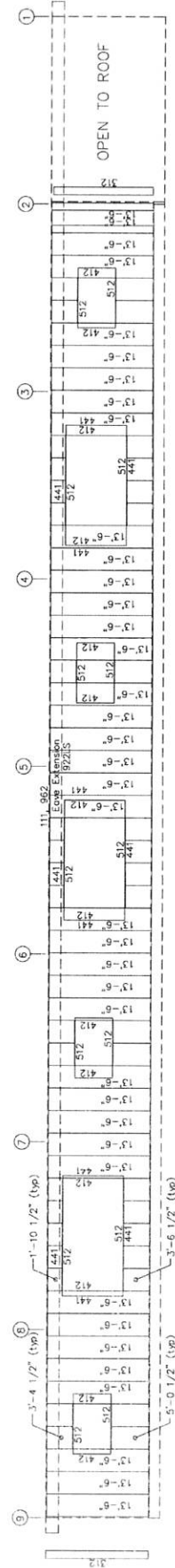
FRAME LINE H	QUAN	TYPE	DIA	LENGTH	WIDTH	THICK	LENGTH
WF-3 - WF-4	8	A325	3/4"	2	3/8"		24
WF-3 - RF	4	A325	5/8"	1	1/2"		

**MEMBER TABLE**

MARK	FRAME LINE H	PART	LENGTH
WF-3	20B25		14'-2"
WF-4	18B26		20'-8 7/8"
DJ-2	c825.16		11'-6"
DJ-3	c825.16		11'-6"
DH-3	c825.16		8'-0"
DS-3	c825.16		8'-0"
DS-2	c825.16		16'-0"
E-1	E1045.12		24'-0 1/2"
E-2	E1045.12		24'-4 1/2"
E-3	E1045.12		24'-4 1/2"
E-7	E1045.12		1'-11 3/4"
G-16	Z825.16		12'-4 1/2"
G-17	Z825.16		24'-11 1/2"
G-18	Z825.16		12'-4 1/2"
G-19	Z825.16		24'-11 1/2"
G-20	Z825.16		24'-11 3/4"
G-22	Z825.16		8'-2 1/4"
G-23	Z825.16		25'-4"
G-24	Z825.16		8'-6 1/4"
JB-1	c825.16		9 3/4"



SIDEWALL FRAMING: FRAME LINE H



SIDEWALL SHEETING & TRIM: FRAME LINE H

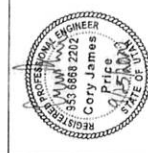
PANELS: 26 Ga PBR - Burnished Slate



MARTIN F BERTRAM RL  
9298 E 1300 S  
HUNTSVILLE, UT 84317  
AG STORAGE

REVISIONS

REV	DATE	DESCRIPTION



DESIGN: CP  
DRAFT: NS  
CHECK: EJ  
DATE: 9/15/20

20082440  
SHEET 8 OF 13 REV 0



**BUILDING SYSTEMS INC.**



ENDWALL FRAMING  
 MARTIN F BERTRAM RL  
 9298 E 1300 S  
 HUNTSVILLE, UT 84317  
 AG STORAGE

REV	DATE	DESCRIPTION



DESIGN: CP  
 DRAFT: NS  
 CHECK: [Signature]  
 DATE: 9/16/20

20082440  
 9 13  
 REV 0

**BOLT TABLE**

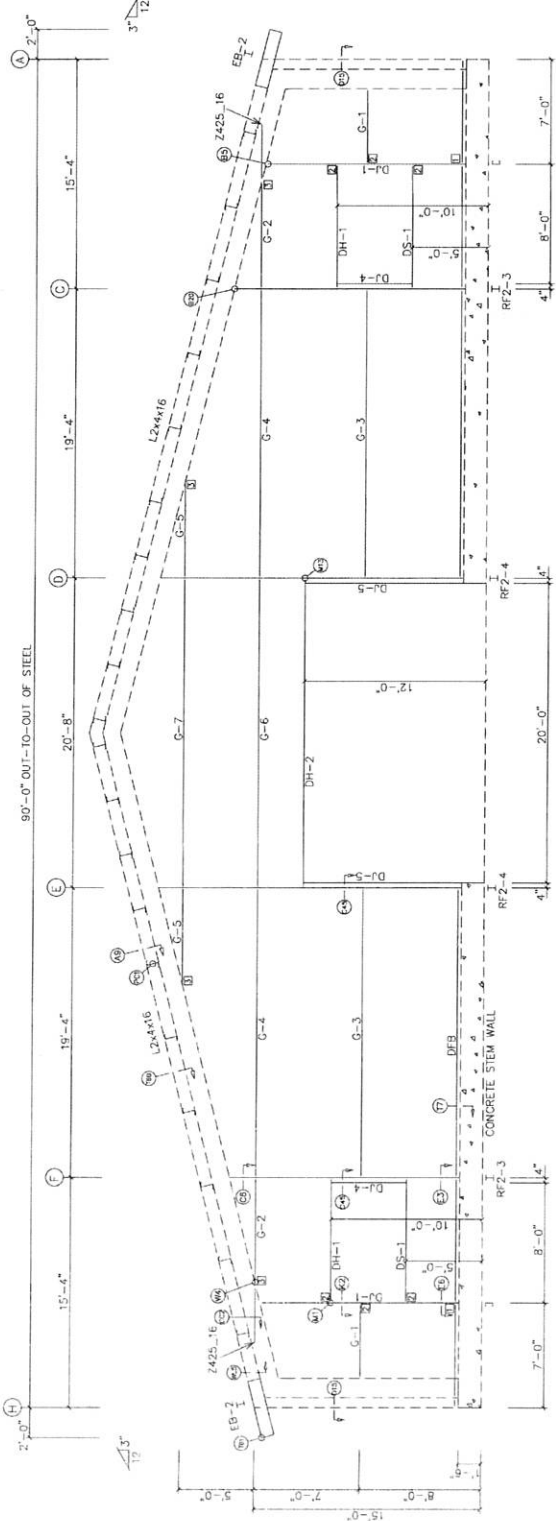
FRAME LINE 2	QUAN	TYPE	DIA	LENGTH
Columns/Ref	4	A325	3/4"	2 1/4"
Dj/Ref	2	A307	1/2"	1 1/2"

**MEMBER TABLE**

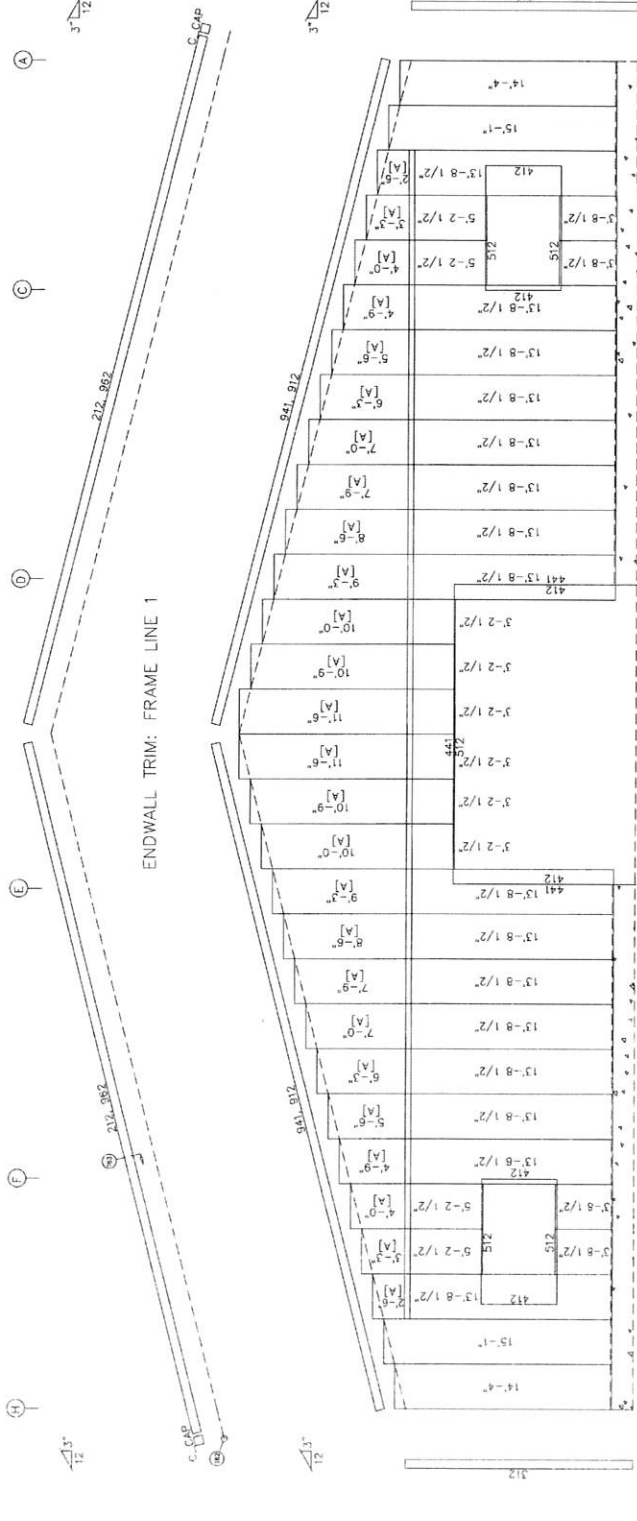
FRAME LINE 2	MARK	PART	LENGTH
EB-2	10B1.3		7'-9"
DJ-2	4B21.16		5'-0"
DJ-4	4B30.16		5'-0"
DJ-5	4B30.16		5'-0"
DH-1	4B30.16		5'-0"
DH-2	4B30.16		5'-0"
DS-1	4B30.16		5'-0"
DS-2	4B30.16		5'-0"
G-1	2B25.16		20'-0"
G-2	2B25.16		20'-0"
G-3	2B25.16		20'-0"
G-4	2B25.16		20'-0"
G-5	2B25.16		20'-0"
G-6	2B25.16		20'-0"
G-7	2B25.16		20'-0"

**CONNECTION PLATES**

FRAME LINE 2	ID	MARK/PART
1	PBC3N	
2	GC35	
3	GCER3.12	



ENDWALL FRAMING: FRAME LINE 2



ENDWALL SHEETING & TRIM: FRAME LINE 2

TYP STANDARD LENGTH = 12'-6" FIELD CUT AS REQUIRED TO FIT. USE FULL LENGTHS WHERE POSSIBLE. DROPS FOR SHORTER LENGTHS AS POSSIBLE.

\* [A] PANELS: Polycarbonate TLP -Type R - Clear

PANELS: 26 Co. PBR - Burnished Slate



**COI**  
BUILDING  
SYSTEMS  
INC.



ENDWALL FRAMING  
MARTIN F BERTRAM RLT  
9298 E 1300 S  
HUNTSVILLE, UT 84317  
AG STORAGE

REV	DATE	DESCRIPTION



DESIGN: CP  
DRAFT: NS  
CHECK: DATE: 9/16/20  
JOB # 20082440  
SHEET 10 13 0

**BOLT TABLE**

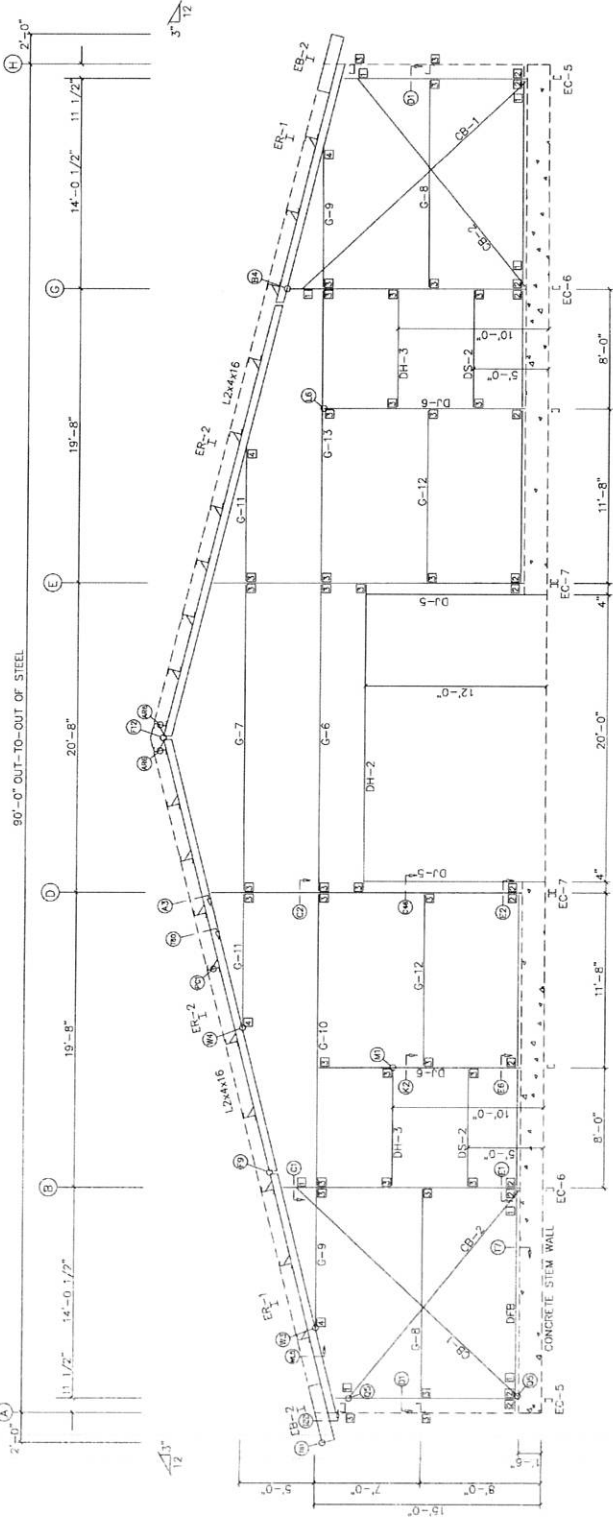
FRAME LINE	LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	Columns/Rof	8	A325	5/8"	2"
ER-2/ER-2	Columns/Rof	8	A325	5/8"	2"
Columns/Rof	Columns/Rof	4	A325	1/2"	1 1/4"

**MEMBER TABLE**

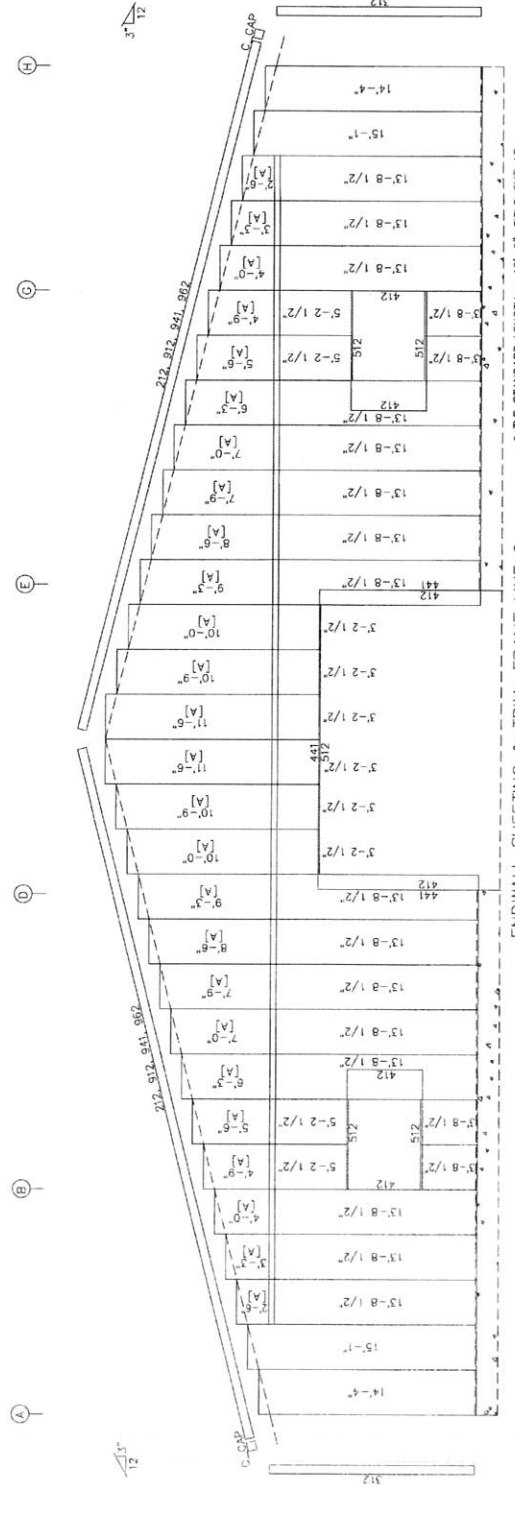
FRAME LINE	MARK	PART	LENGTH
G-9	TOBT3	2	-9
EB-2	6825	16	12'-2 1/16"
EC-5	6825	12	15'-8 3/16"
EC-6	6825	12	20'-7 3/16"
ER-1	08B12	16	6 1/16"
ER-2	08B12	29	10 9/16"
DJ-5	CH830-16	10	-6"
DJ-6	6825	16	13'-2 1/2"
DH-2	6825	16	20'-0 1/2"
DH-3	6825	16	8'-0"
DS-2	6825	16	8'-0"
G-7	6825	16	20'-0 1/2"
G-8	6825	16	20'-0 1/2"
G-9	6825	16	8'-3"
G-10	6825	16	7'-11"
G-11	6825	16	19'-4"
G-12	6825	16	7'-11"
G-13	6825	16	11'-0 1/2"
CB-1	0.25-CBL	18	-10"
CB-2	0.25-CBL	15	-4 3/4"

**CONNECTION PLATES**

FRAME LINE	MARK	PART
1	BCC3/5	
2	BCC3/5	
3	CC35N	
4	CC35N	



ENDWALL FRAMING: FRAME LINE 9



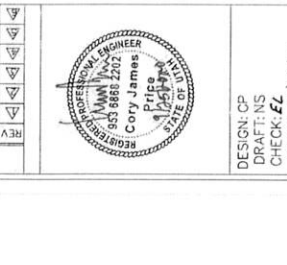
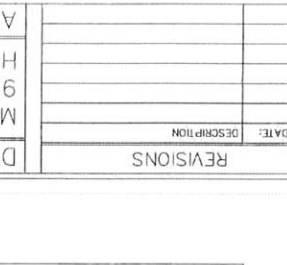
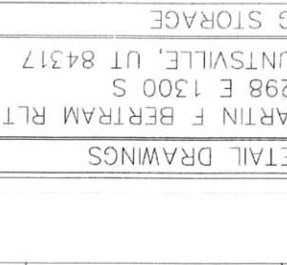
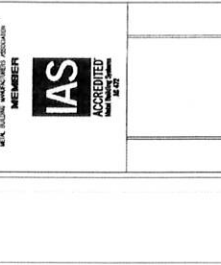
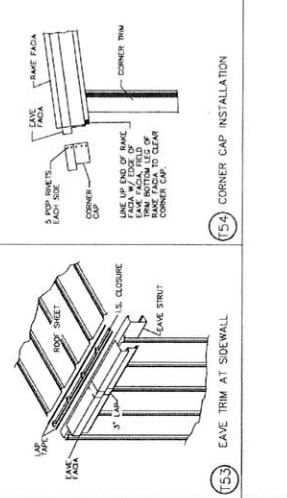
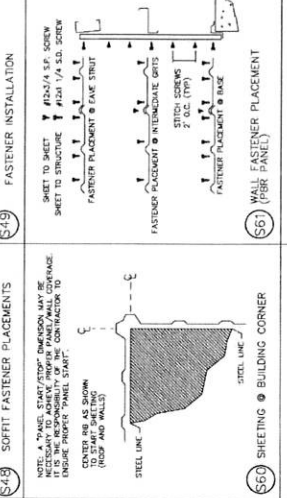
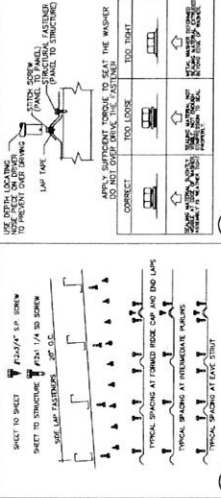
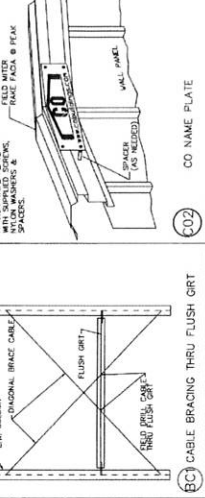
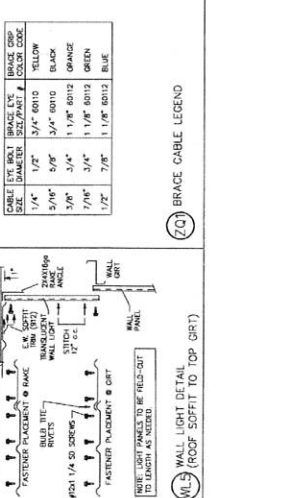
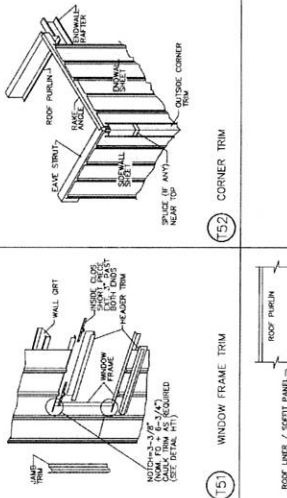
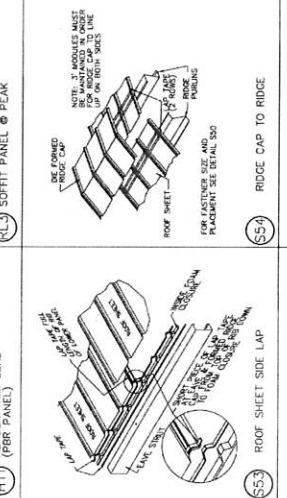
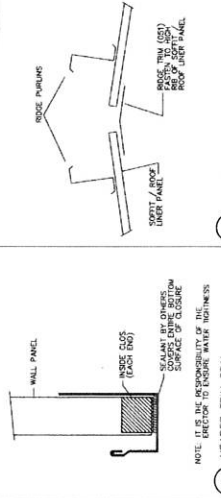
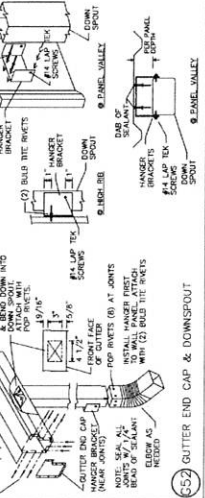
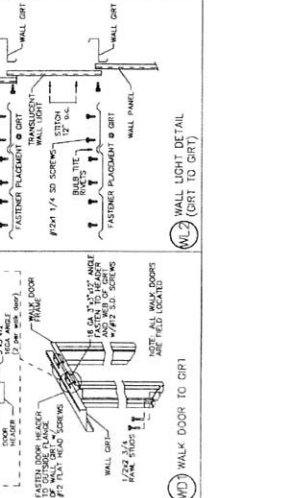
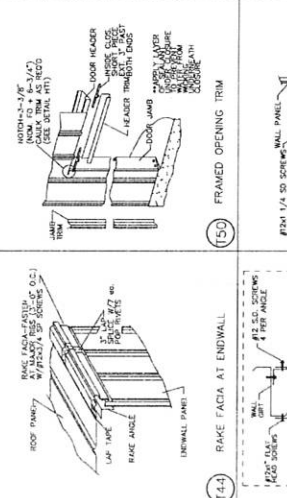
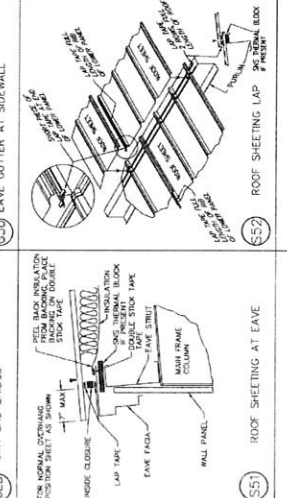
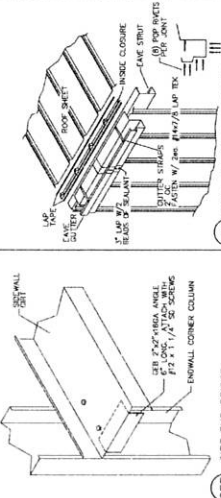
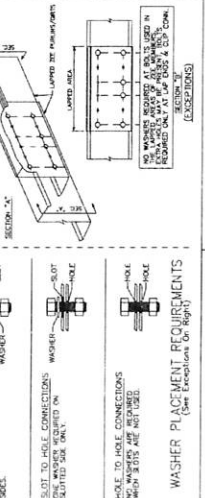
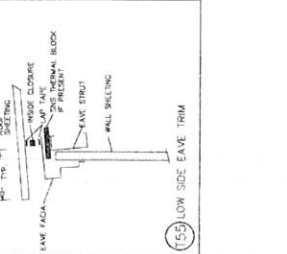
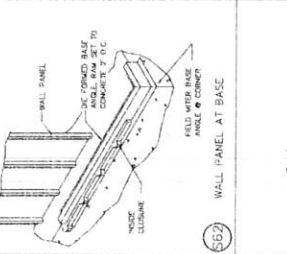
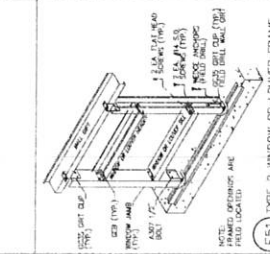
ENDWALL SHEETING & TRIM: FRAME LINE 9

PANELS: 26 Ga. PBR - Burnished Slate  
• [A] PANELS: Polycarbonate TLP - Type R - Clear

\* TYP. STANDARD LENGTH = 12'-6\"/>

REQUIRED. BEGIN WITH LONGEST LENGTHS & UTILIZE DROPS FOR SHORTER LENGTHS AS POSSIBLE.

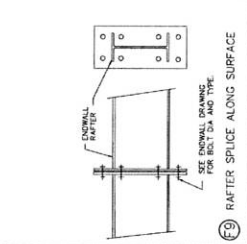
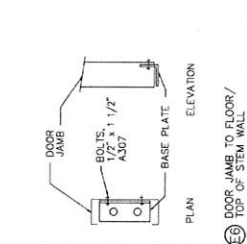
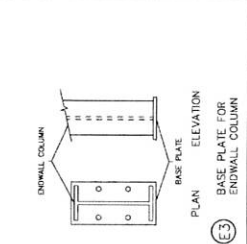
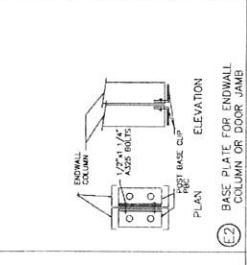
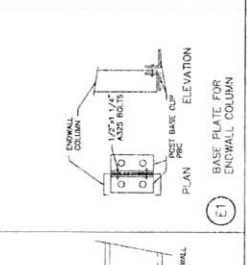
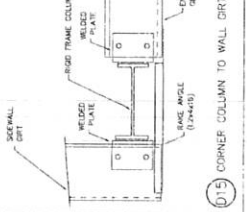
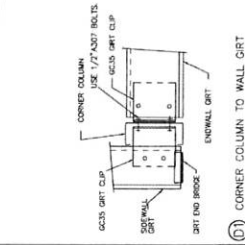
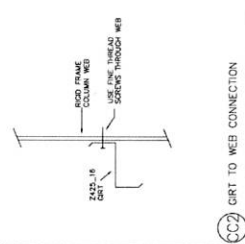
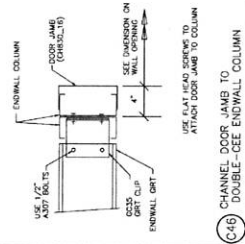
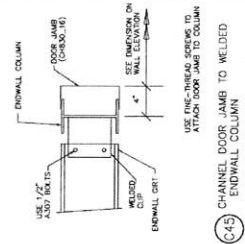
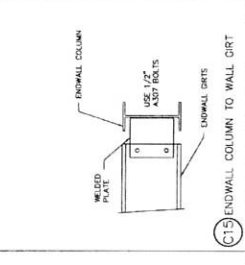
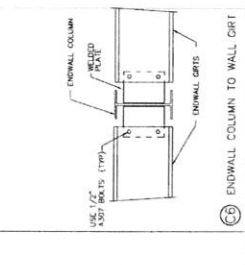
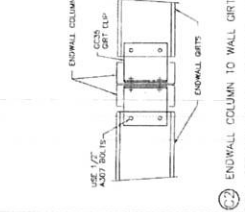
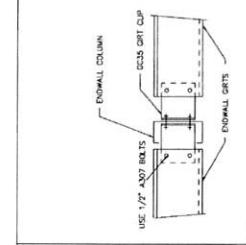
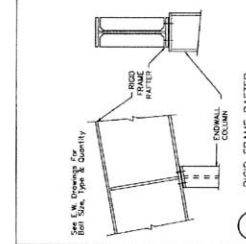
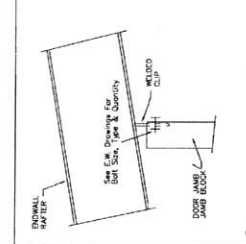
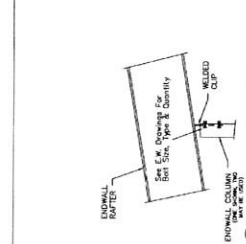
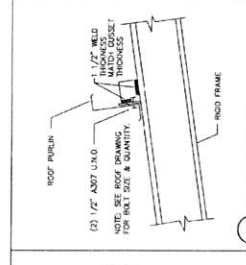
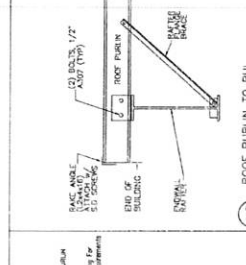
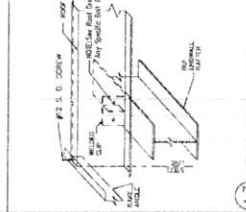
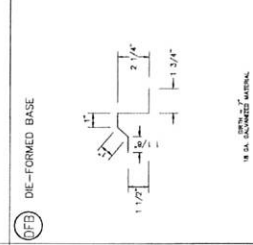
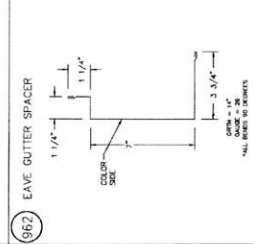
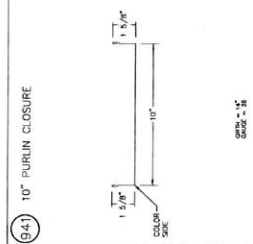
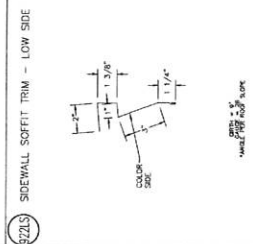
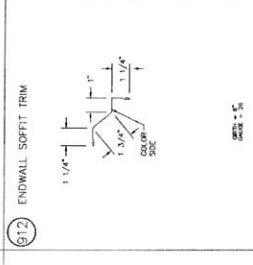
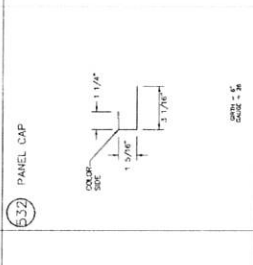
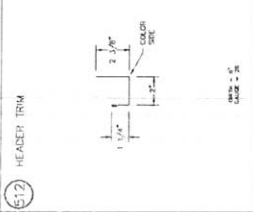
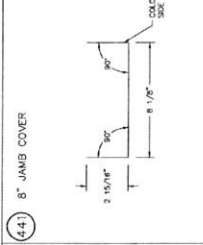
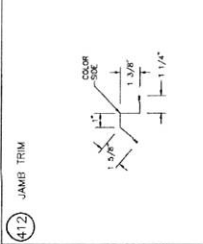
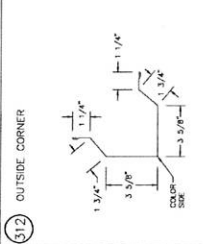
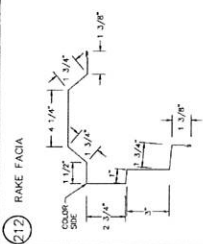
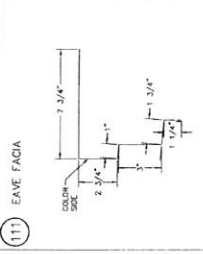
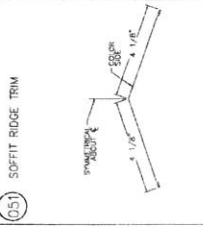
THE FOLLOWING DETAILS ARE INTENDED TO ILLUSTRATE DIFFERENT ASSEMBLY CONNECTIONS. NOT ALL DETAILS ARE PERTINENT TO THIS SPECIFIC PROJECT.



**BRACE CABLE LEGEND**

CABLE SIZE	BRACE SIZE	BRACE COLOR
1/4"	3/4" x 6010	YELLOW
5/16"	3/4" x 6010	BLACK
3/8"	1 1/8" x 6013	ORANGE
7/16"	3/4" x 6013	GREEN
1/2"	1 1/8" x 6013	BLUE





**DETAILS CONTINUED ON NEXT PAGE**

**COI BUILDING SYSTEMS INC.**  
**MBMA MEMBER**  
**IAS ACCREDITED**

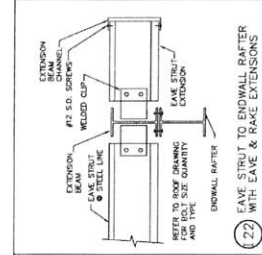
AG STORAGE  
 HUNTSVILLE, UT 84317  
 9298 E 1300 S  
 MARTIN F BERTRAM RLT

**REVISIONS**

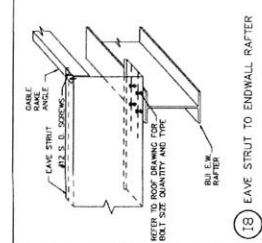
REV	DATE	DESCRIPTION

DESIGN: CP  
 DRAFT: NS  
 CHECK: EL  
 DATE: 9/14/20  
 JOB # 20082440  
 SHEET 12 OF 13 REV 0

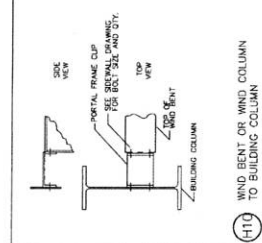
NO.	DATE	DESCRIPTION



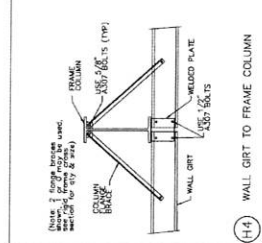
17 RAFTER SPLICE AT SURFACE CHANGE  
SEE ENDWALL DRAWING FOR BOLT SIZE QUANTITY AND TYPE



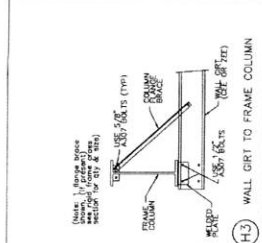
18 EAVE STRUT TO ENDWALL RAFTER  
REFER TO ROOF DRAWING FOR BOLT SIZE QUANTITY AND TYPE



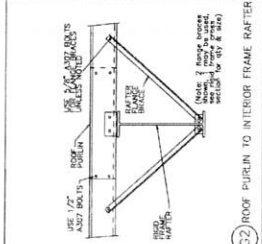
19 WIND BENT ON WIND COLUMN TO BUILDING COLUMN  
REFER TO ROOF DRAWING FOR BOLT SIZE AND QTY



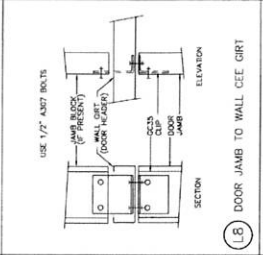
20 EAVE STRUT TO RIDGE FRAME WITH EAVE & RAKE EXTENSIONS  
REFER TO ROOF DRAWING FOR BOLT SIZE QUANTITY AND TYPE



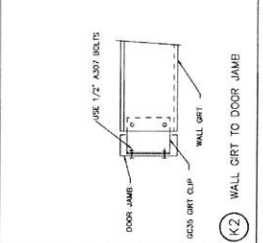
21 DIAGONAL CABLE, BRACE EYE END  
SLOT IN WEB TO INSERT AND EXHIBIT



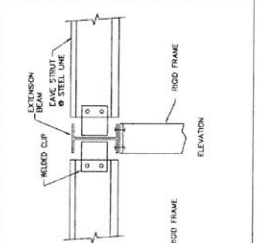
22 DOOR JAMB TO WALL GIRTS  
USE 1/2\"/>



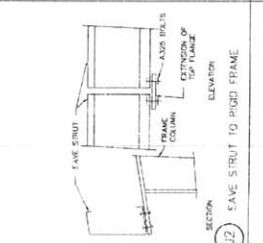
23 EAVE STRUT TO RIDGE FRAME WITH EAVE & RAKE EXTENSIONS  
REFER TO ROOF DRAWING FOR BOLT SIZE QUANTITY AND TYPE



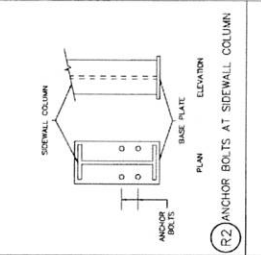
24 WALL GIRTS TO FRAME COLUMN  
REFER TO ROOF DRAWING FOR BOLT SIZE QUANTITY AND TYPE



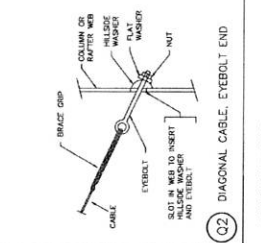
25 EAVE STRUT TO RIDGE FRAME WITH EAVE & RAKE EXTENSIONS  
REFER TO ROOF DRAWING FOR BOLT SIZE QUANTITY AND TYPE



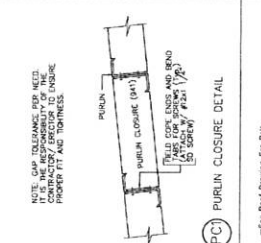
26 ENDWALL SOFFIT & ROOF LINER DETAIL  
FIELD CORE SOFFIT PANELS FIELD SUPPORTED DIMENSIONS ON FRAME COLUMNS & RAFTERS



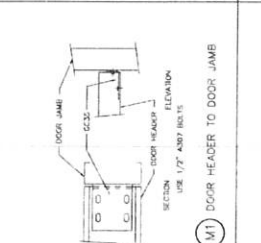
27 DIE-FORMED BASE  
SEE PANELS BASE PANELS TO BE NUTTED TO ANCHOR BOLTS. SEE PANELS AT BASE OF PANEL



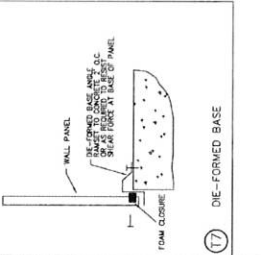
28 ENDWALL SOFFIT & ROOF LINER DETAIL  
FIELD CORE SOFFIT PANELS FIELD SUPPORTED DIMENSIONS ON FRAME COLUMNS & RAFTERS



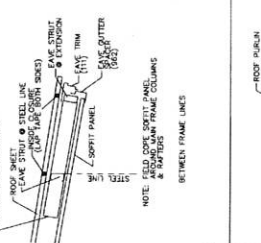
29 SOFFIT TO ENDWALL OVERHANG AT CORNER OF BUILDING  
SEE PANELS AT CORNER OF BUILDING



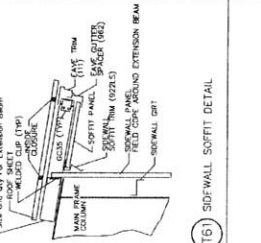
30 GIRTS TO ENDWALL RAFTER  
ATTACH GIRTS TO GET PROPER ATTACH TO FRAME. SEE PANELS AT CORNER OF BUILDING. MAY REQUIRE FIELD DRILLING. SEE DETAILS W.5 & C.2



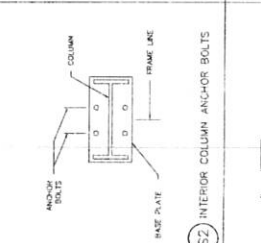
31 DIAGONAL CABLE, BRACE EYE END  
SLOT IN WEB TO INSERT AND EXHIBIT



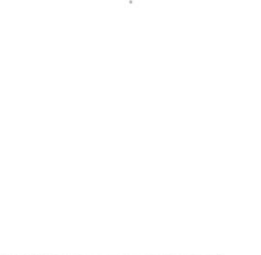
32 DOOR HEADER TO DOOR JAMB  
USE 1/2\"/>



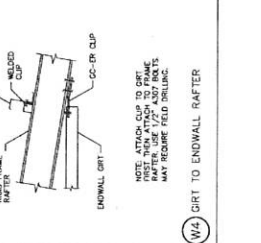
33 ENDWALL SOFFIT DETAIL  
FIELD CORE SOFFIT PANELS FIELD SUPPORTED DIMENSIONS ON FRAME COLUMNS & RAFTERS



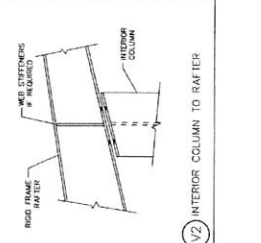
34 INTERIOR COLUMN ANCHOR BOLTS  
TOP BOLTS SEE DRAWING FOR SIZE. INTERMEDIATE BOLTS THE NUMBER OF BOLTS GREATER THAN TOP OR LESS THAN TOP. BOTTOM BOLTS, SEE DRAWING FOR SIZE. CONNECTION MAY BE TYPED



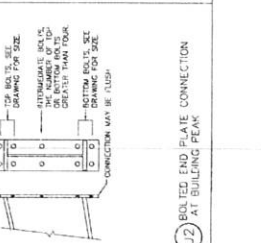
35 SOFFIT TO ENDWALL OVERHANG  
SEE PANELS AT CORNER OF BUILDING



36 GIRTS TO ENDWALL RAFTER  
ATTACH GIRTS TO GET PROPER ATTACH TO FRAME. SEE PANELS AT CORNER OF BUILDING. MAY REQUIRE FIELD DRILLING. SEE DETAILS W.5 & C.2



37 INTERIOR COLUMN TO RAFTER  
SEE PANELS AT CORNER OF BUILDING



38 BOLTED END-PLATE CONNECTION AT BUILDING PEAK  
TOP BOLTS SEE DRAWING FOR SIZE. INTERMEDIATE BOLTS THE NUMBER OF BOLTS GREATER THAN TOP OR LESS THAN TOP. BOTTOM BOLTS, SEE DRAWING FOR SIZE. CONNECTION MAY BE TYPED