GENERAL NOTES

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

1.2	MATERIALS	ASTM DESIGNATION	MIN. YIELD STRENGTH
	Hot Rolled Steel Shapes (W, & C)	A572	Fy = 50 KSI
	Hot Rolled Steel Angles (L)	A36	Fy = 36 KSI
	Steel Pipes	A500	Fy = 42 KSI
	Structural Tubing	A500	Fy = 42 KSI
	Structural Steel Web Plate	A572/A1011	Fy = 50 KSI
	Structural Steel Flange Plates/Bars	A529/A572	Fy = 55 KSI
	Cold Formed Light Gage	A653/A1011	Fy = 55 KSI
	Roof and Wall Sheets	A792/A653	$F_{y} = 50, 80 \text{ KSI}$
	Cable Brace	A475 - TYPE 1	Extra High Strength
	Rod Brace	A529	Fy = 50 KSI
	Nod Braco	A323	1 y = 50 KSi

MIN. TENSILE STRENGTH

Machine Bolts & Nuts High Strength Bolts (1"ø and less) High Strength Bolts (>1"ø to 1 1/2"ø) Anchor Bolts (Not supplied by A.S.C.) Fu = 60 KSI Fu = 120 KSI Fu = 105 KSI Fu = 60 KSI A325-TYPE 1 A325-TYPE 1 A36/A307/F1554

PRIMER
Shop primer paint is a rust inhibitive primer which meets the end performance of Federal Specification SSPC No. 15 and is A.S.C. Gray Oxide color. This paint is not intended for long term exposure to the elements. A.S.C. is not responsible for any deterioration of the shop primer paint as a result of improper handling and/or jobsite storage.

A.S.C. shall not be responsible for any field applied paint and/or coatings. (AISC Code of Standard Practice, Latest Edition).

Nominal thickness of primer will be 1 mil unless otherwise specified in contract decuments.

GALVANIZED OR SPECIAL COATINGS: See Contract Documents

1.5 ALL BOLTS ARE 1/2" x 0'-1 1/4" A307 EXCEPT :

Endwall rafter splice - 5/8" ø x 0"-1 3/4" A325-N
Endwall column to rafter connection - 1/2" ø x 0"-1 1/4" A325 MIN.(SEE WALL ELEVATION)
Main frame connections - SEE CROSS SECTION

d) Flange Brace connections - 1/2" x 0'-1 1/4" A325 NOTE: Washers are not supplied unless noted otherwise on drawing

.6 A325 BOLT TIGHTENING REQUIREMENTS

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

Holes are not slotted and design is bearing connection.

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

All bolted connections unless noted are designed as bearing type connections with bolt threads not excluded from the shear plane.

CLOSURE STRIPS ARE FURNISHED (IF ORDERED) FOR APPLICATION:

INSIDE - Under roof panels & base of wall panels
OUTSIDE - Between roof panels & ridge cap
- Between wall panels & eave/gable trim

ERECTION NOTE:
All bracing, strapping, & bridging shown and provided by A.S.C. for this building is required and shall be installed by the erector as a permanent part of the structure. If additional bracing is required for stability during erection, it shall be the erector's responsibility to determine the amount of such bracing and to procure and install as needed.

ERECTION AND UNLOADING NOT BY A.S.C.

.10 SHORTAGES

Any claims or shortages by buyer must be made to A.S.C. within five (5) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed.

1 CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10)
Claims for correction of alleged misfits will be disallowed unless A.S.C. shall have received prior notice thereof and allowed reasonable inspection of such misfits. The correction of minor misfits by the use of drift pins to draw the components into line, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim. No part of the Building may be returned for alleged misfits without the prior approval of A.S.C.

BUYER/END USE CUSTOMER RESPONSIBILITIES

2.1 It is the responsibility of the BUYER/END USE CUSTOMER to obtain appropriate approvals and secure necessary permits from City, County, State, or Federal Agencies as required, and to advise/release A.S.C. to fabricate upon receiving such.

2.2 Armstrong Steel Corp (hereafter referred to as A.S.C.) standard specifications apply unless stipulated otherwise in the Contract Documents. A.S.C. design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USE CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications.

In case of discrepancies between A.S.C. structural steel plans and plans for other trades, A.S.C. plans shall govern. (Section. 3 AISC Code of Standard Practices, Latest Edition)

Approval of A.S.C. drawings and calculations indicates that A.S.C. has correctly interpreted and applied the Contract Documents. This approval constitutes the contractor/owners acceptance of the A.S.C. design concepts, assumptions, and loading. (Section 4 AISC Code and MBMA 3.3.3)

Once the BUYER/END USE CUSTOMER has signed A.S.C. Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/END USE CUSTOMER including material, engineering and other costs. An additional fee may be charged if the project must be moved from the fabrication and

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



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

56633 JOB NO.:

CUSTOMER: JAMY WHITEMAN/FORTIFIED SOLUTIONS

END USER: JAMY WHITEMAN

END USE : RESIDENCE

LOCATION: 7445 MEADOWPINE DR

: BLACK FOREST, CO 80908

: EL PASO COUNTY

PH. NO. : 719-330-6681 EMAIL: JAMY@TRUSTFORTIFIED.COM

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

DESIGN LOADS:	<u>56633A</u>	56633B	<u>.</u>	BUILDING DESCRIPTION:	<u>56633A</u>	<u>56633B</u>	<u>56633</u>
Design Code / Wind Code	: IBC-15	: IBC-15		Width (ft)	: 40	: 8.17	Insulat
Building Risk Category	:II — Normal	:II - Norr		Length (ft)	: 60	: 60	Roo
Enclosure	: Closed	: Partially		Eave Ht. at BSW (ft)	: 19.5	: 9.08	Wall
Dead Load (psf)	: 4.00	: 4.25		Eave Ht. at FSW (ft)	: 19.5	: 10.44	
Collateral Load (psf)	:12.00	: 2.00		Roof Slope at BSW	: 5.0:12	: 2.0:12	
Wind Load				Roof Slope at FSW	: 5.0:12	: Single Slo	ре
Ultimate Wind Speed, (Vult) (mph)	: 130.00	: 130.00		Bay Spacing (ft)	: 1 at 19, 1	1 at 22 :1 at 19,	i at 22
Wind Exposure	: C	: C		, , , , , ,	1 at 19	1 at 19	
Internal Pressure Coefficient, GCpi	: 0.18/-0.18	: 0.55/-0.	55				Drawing I
Wall Panel Design Wind Pressure (psf)	: 40.3/-43.7	: 45.3/-48					Diawing i
Live Load	•	•				<u>Drawing Name</u>	
Primary Framing (psf)	: 20.00			AND TRIMS:		Drawing Cover	
Trib. Area Reduction	: No			AND WALL COVERING AN		3D Reference	
Secondary Framing (psf)	: 20.00			SIGNED AND SUPPLIED "			
Snow Load			OTHERS" U	INLESS NOTED OTHERWIS	SE	Anchor Bolt Pl	
Ground Snow Load, Pg (psf)	: 40.00					Mezzanine Fran	ning Plan
Roof Snow Load, Pf (psf)	: 32.00					Anchor Bolt De	tails
Sloped Roof Snow Load, Ps (psf)	: 32.00					Anchor Bolt Re	actions
Snow Exposure Factor, Ce	:1.000					Rigid Frame	
Snow Importance Factor, Is	:1.00					Sidewall/Endwa	
Thermal Factor, Ct	: 1.10					Roof Plan	
Sloped Factor, Cs	: 0.79					Details	
Seismic Load						Details	
Seismic Importance Factor, le	: 1.00						
Site Class	: D						
Mapped Spectral Response Acceleration	: Ss = 0.185	:S1 = 0.0	059				
Spectral Response Coefficients	: Sds = 0.197	:Sd1 = 0.0)94				
Seismic Design Category	:B						m
Basic Force Resisting Systems Used	:Steel System	Not Specifi	ically				ORADO F
	Detailed For R						RADU
	:Rigid Frames					80	NTA
	:Braced Frames	s (OCBF/OI	MF)			83	ORADU F ORADU F ELANTA
	<u>5</u>	6633A	56633	В			S
Total Design Base Shear, V (kips)	:Longitudinal =	7.03	= 0.00				≨ 237
Total Design Base Shear, V (Kips)	-	6.48	= 0.68			1)2000	and -
	. II dii 3 vei 3e –	0.40	- 0.00			KAT MANON	
Response Modification Factors, R	:Rigid Frames	= 3.00	$\Omega = 3.00$			1000	×/.
modification radiolog, it	:SW X-Bracing		$\Omega = 2.00$			1 The	× 65.
	:SW Wind Bent		$\Omega = 3.00$			Ψ	POSTONY
				STEEL ENGINEER IS THE EI	NGINEER OF		dille
Seismic Response Coefficient, Cs	:Rigid Frames	= 0.0658		RECORD OR THE DESIGN P FOR THIS PROJECT, ONLY	ROFESSIONAL		05/19/2
,	:SW X-Bracing			OF THE METAL BUILDING S	SYSTEM AS		
	:SW Wind Bent			FURNISHED BY A.S.C. IS IN FOUNDATION ANALYSIS, EL			
		_		MECHANICAL SYSTEMS, AN	D/OR OTHER		
Analysis Procedure Used	:Equivalent Late	eral Force	Procedure	PARTS SUPPLIED BY ANYO THAN ARMSTRONG ARE SP			
011 1 10 1	•			EVOLUDED NO INCRECTION		1	

Other Loads/Requirements

RONG NAL AND THAN ARMSTRONG ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.



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

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

2.9 Armstrong Steel Corp is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing and tension, but is not responsible for the transfer of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the

concrete.
Unless otherwise provided in the Order Documents, A.S.C.
does not design and is not responsible for the design, material
and construction of the foundation or foundation embedments. The
END USE CUSTOMER should assure himself that adequate provisions are made
in the foundation design for loads imposed by column reactions of the building,
other imposed loads, and bearing capacity of the soil and other conditions of the
building site.
It is recommended that the anchorage and foundation of the building be
designed by a Registered Professional Engineer experienced in the design
of such structures. (Latest MBMA Low Rise Building Systems Manual)

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

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

2.12 WARNING In no case should Galvalume steel panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels. Even run—off from copper flashing, wiring, or tubing onto Galvalume should be avoided. Roof Insulation: R-49 Wall Insulation: R-25

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

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

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

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

For Snow/ice Removal Procedure, Refer to Metal Building System Manual 2002 Edition, Section A8.4, Page XI-A8-2,

RADO REGISTA
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SONAL ENGINEER
05/19/21

56633A

Drawing Index

Page(s)

COVER

3D

1

2

3

4-5

6-9

10-14

15-17

16 - 21

Insulation

purpose is	to co	nfirm pro	per inte	erpretation o
documents.	Only	drawings	issued	"Construction

final, and are for conceptual representation only. their of the project ion" can be considered as complete.

APPROVAL:
These drawings, being for approval, are by definition not

X PERMIT:	☐ REVISED PERMIT:
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These drawings, being for permit, are by definition not final. Only drawings issued "Construction" can be considered as complete.

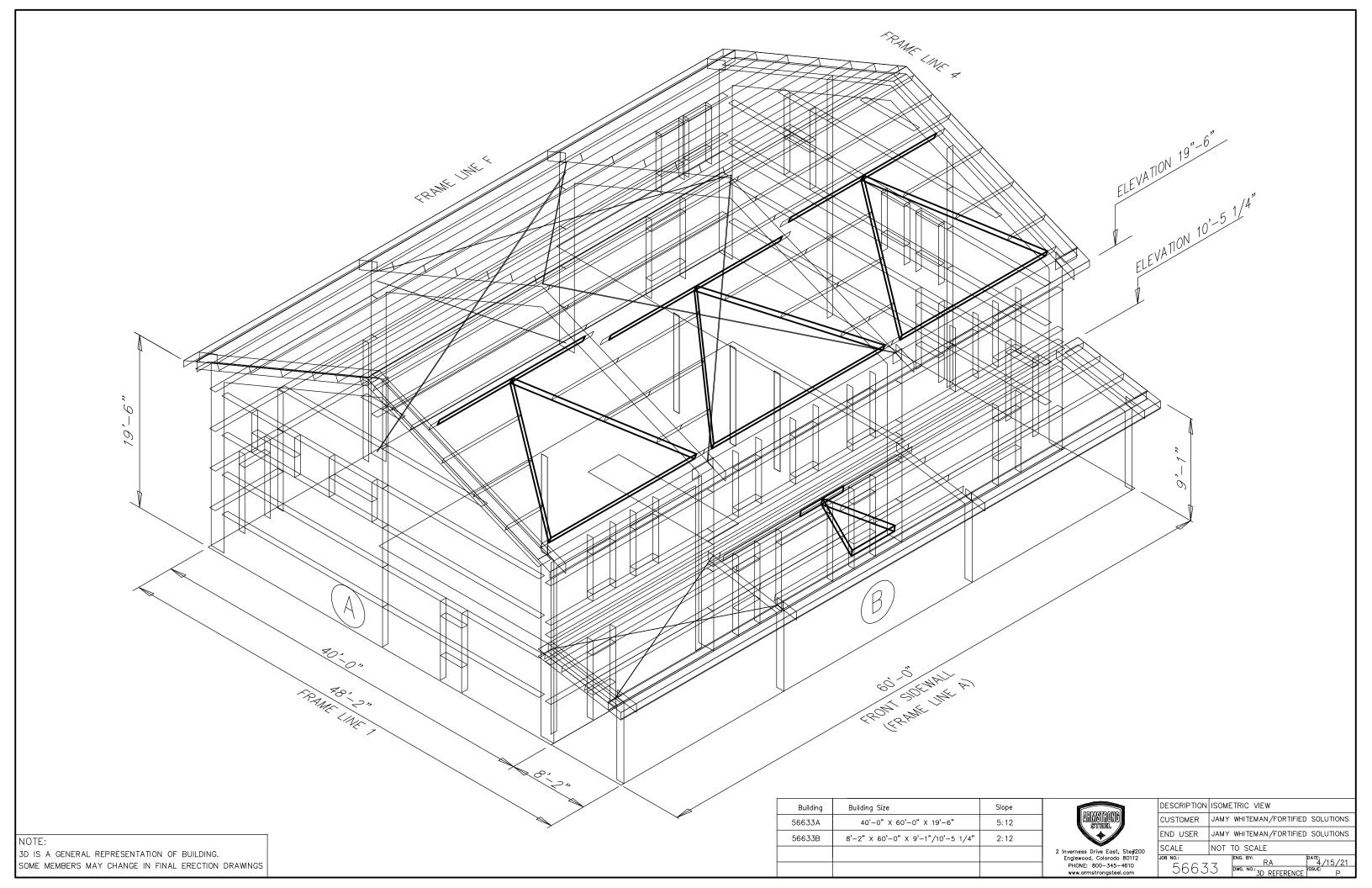
CONSTRUCTION:

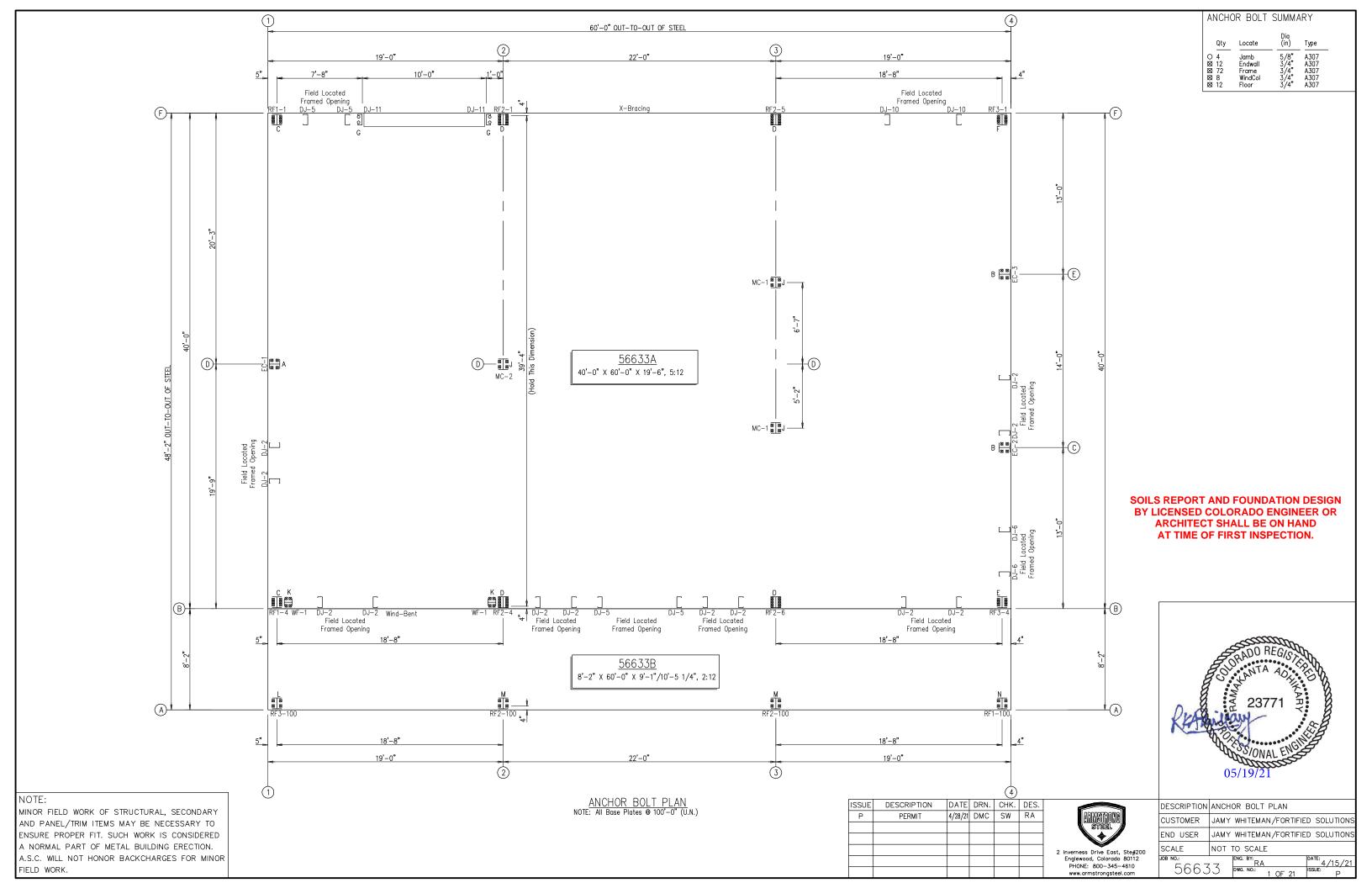
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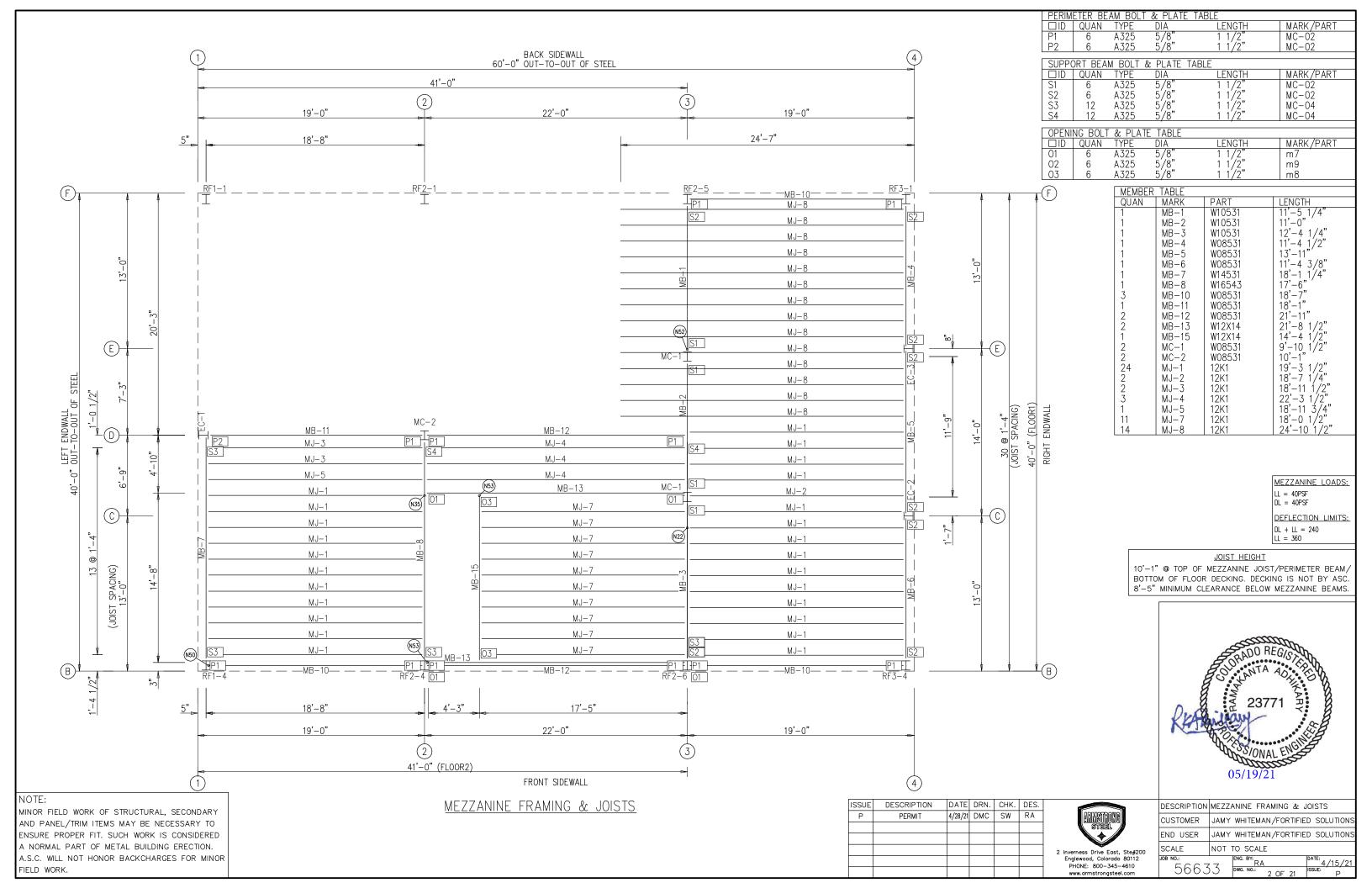
APPROVAL:

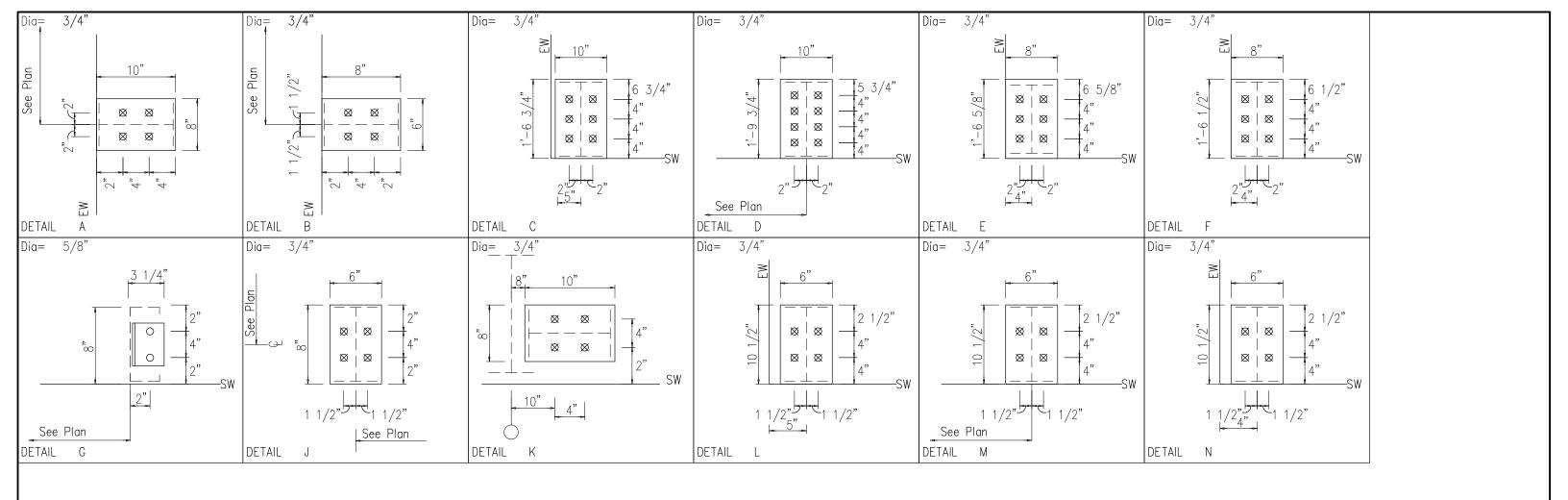
Final drawings to be used in the erection of the building.

JOB NO : 56633 JAMY WHITEMAN/FORTIFIED SOLUTIONS











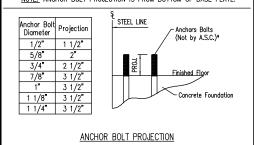
MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION.

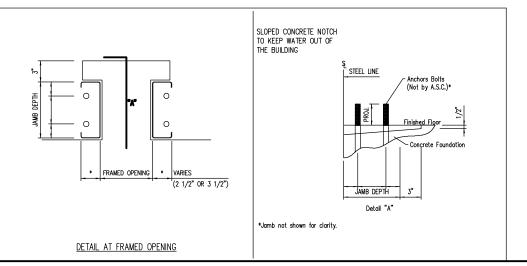
A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

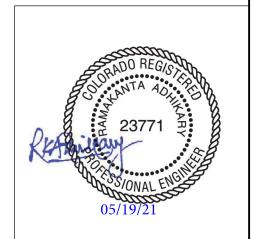
ANCHOR BOLT DIAMETERS HAVE BEEN DESIGNED BY THE METAL BUILDING MANUFACTURER BASED ON AISC METHOD WITH COMBINED SHEAR AND TENSION.

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.

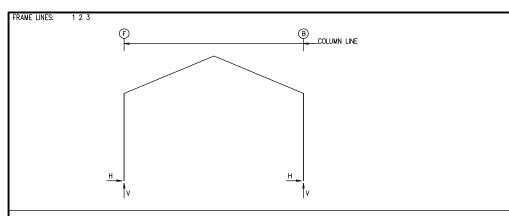


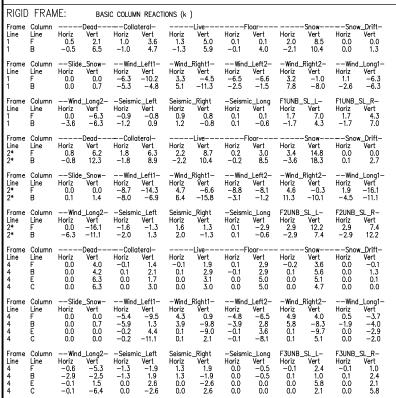




ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
Р	PERMIT	4/28/21	DMC	SW	RA	
						2 In
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(IDDIOCEDOMO)	DESCRIPTION	ANCH	OR BOLT	DETAILS		
	CUSTOMER	JAMY	WHITEMA	N/FORTIFIE	D SOLU	ΠONS
911555	END USER	JAMY	WHITEMA	N/FORTIFIE	D SOLU	ΠONS
Inverness Drive East, Ste#200	SCALE	NOT .	TO SCALI	Ξ		
Englewood, Colorado 80112 PHONE: 800—345—4610 www.armstrongsteel.com	JOB NO.: 5663		ENG. BY: RA DWG. NO.:		DATE: 4/1: ISSUE:	5/21 P



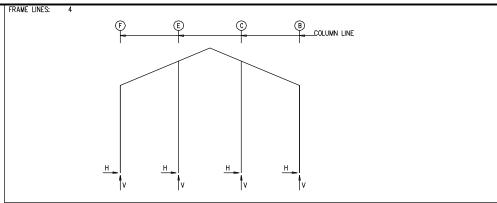


2 3

2* Frame lines:

BUILE)ING	BRACIN	IG RE	4CTIO	NS				
Wa	II —	Col Line		Reactiond — Vert	ns(k) —Seis Horz	mic — Vert	Panel_: (lb/ Wind	Shear ft) Seis	Note
L_EW F_SW R_EW B_SW	1 B 4 F	1,2 3,2	6.6	5.1	3.1	2.4			(h) (a) (h)
(a)Wind (h)Rigid	bent ir frame	n bay at endwa	II						

WIND BENT REA	CTIONS										
H H	— Wall — Loc Line F_SW B F_SW B	Col Line 1 2	3.9 3.9	± Read d(k) Vert 8.3 8.3	tions Seismic Horz 2.0 2.0	(k) Vert 4.2 4.2	Bol Qty 4 4	0.750 0.750	Base_ Width 8.000 8.000	Plate(in) Length 10.000 10.000	0.500 0.500



RIGID	FRAME:		MAXIMUM	REACTION	S, ANCH	HOR BOLT	S, & BASE	PLATE	S				
Frm Line		Load Id	Hmax H	umn_React V Vmax	tions(k Load Id	Hmin H	V Vmin	Bol Qty	t(in) Dia	Base Width	:_Plate(in) Length	Thick	Grout (in)
1	F	8 2	4.5 3.5	10.1 14.3	13 11	-3.6 -3.5	-2.7 -4.8	6	0.750	10.00	18.75	0.500	0.0
1	В	14 3	4.4 -3.1	-0.9 23.0	6 12	-5.5 2.8	19.9 -2.9	6	0.750	10.00	18.75	0.500	0.0

RIGID	FRAME:		MAXIMUM	REACTION	S, ANCH	HOR BOLT	S, & BASI	E PLATI	ES				
Frm Line	Col Line	Load Id	Hmax H	umn_Reac V Vmax	tions(k Load Id	Hmin H	V Vmin	Bol Qty	t(in) Dia	Base Width	e_Plate(in) Length	Thick	Grout (in)
2*	F	7 2	7.5 6.0	22.9 27.3	13 15	-4.8 1.6	-1.1 -6.0	8	0.750	10.00	21.75	0.500	0.0
2*	В	14 3	6.3 -5.4	1.4 43.5	6 12	-9.1 3.4	38.3 -2.1	8	0.750	10.00	21.75	0.500	0.0
2*	Frame lin	es:	2 3										

RIGID	FRAME:		MAXIMUM	REACTION	S, ANCH	OR BOLT	S, & BASE	E PLATE	:S				
Frm Line	Col Line	Load Id	Hmax H	umn_React V Vmax	tions(k Load Id	Hmin H	V Vmin	Bol Qty	t(in) Dia	Base Width	e_Plate(in) Length	Thick	Grout (in)
4	F	5 10	3.0 2.1	6.4 12.1	11	-3.2	-3.3	6	0.750	8.000	18.50	0.500	0.0
4	В	14 9	3.5 -1.7	-2.4 14.9	4 12	-3.6 2.3	5.0 -3.3	6	0.750	8.000	18.63	0.500	0.0
4	E	14 16	0.1 0.0	-2.0 17.7	11 14	-0.1 0.1	6.4 -2.0	4	0.750	6.000	8.000	0.500	0.0
4	С	14 10	0.1 0.1	6.8 18.9	11	-0.1	-2.8	4	0.750	6.000	8.000	0.500	0.0

ENDV	VALL	COL	JMN:		BASIC CO	DLUMN F	EACTIONS	S (k)								
Frm Line 1	Col Line D	Dead Vert 4.6		Floor Live Vert 3.9	Wind Press Horz -8.0	Wind Suc Hor: 8.9	1 t 2 +	Seis_Lone] /ert 0.6							
Frm Line 4 4	Col Line C E	Dead Vert 6.3 6.3		Collat Vert 3.4 2.1	Live Vert 3.4 3.4	Floo Live Vert 5.2 5.2	: 5	Snow /ert 5.6 5.5	Snow Drift Vert 0.0 0.0	Slide Snow Vert 0.0 0.0	Wii Le Ve -1. -4.	ft1 rt 6	Wind Right1 Vert -4.0 -5.1	Wind Left2 Vert -4.0 -3.4	Wind Right2 Vert -5.1 -3.2	Wind Press Horz -4.9 -4.9
Frm Line 4 4	Col Line C E	Wind Suct Horz 5.4 5.4		Wind Long1 Vert -5.6 -2.7	Wind Long2 Vert -2.7 -5.6	Seis Left Vert -0.2 -0.5	F \ -(Seis Right /ert 0.5 0.2	E2UNB Horz 0.0 0.0	_SL_L- Vert 6.4 2.4	E2UNB_ Horz 0.0 0.0	_SL_R- Vert 2.4 6.4				
ENDV	WALL	COL	JMN:		MAXIMUM	REACTI(ONS, ANCI	HOR BOLT	S, & BA	SE PLATES						
Frn Lin		ol ne	Load Id	Hmax H	umn_React V Vmax	tions(k) Load Id	Hmin H	V Vmin	Bo Qty	lt(in) Dia	Base Width	e_Plate(Lengti		Grout (in)	_	
1)	17 1	5.3 0.0	2.8 8.6	18	-4.8	2.8	4	0.750	8.000	10.00	0.375	0.0		
4		2 *	19 21	3.2 0.0	0.5 18.8	20	-2.9	0.5								
4		E *	22 23	3.2 0.0	0.5 17.5	18	-2.9	0.5								
		*See	Riaid	Frame Int	erior Colum	n Reac	tions									

FL00R	COLU	IMN	REAC1	TIONS								
Frame Line	Col Line	Max.	_Vert (k_)	Dead Vert (k)	Coll Vert (k)	Live Vert (k)	Anc. Qty	_Bolt Dia	Base P Width	late (in) Length	Thick	Grout (in)
3	© 13.7	1	9.8	5.0	0.0	4.8	4	0.750	6.000	8.000	0.500	0.0
3	@25.4	1	10.2	5.2	0.0	5.0	4	0.750	6.000	8.000	0.500	0.0
2	D	1	16.0	8.1	0.0	7.9	4	0.750	6.000	8.000	0.500	0.0
3	D	1	8.9	4.5	0.0	4.4	4	0.750	6.000	8.000	0.500	0.0

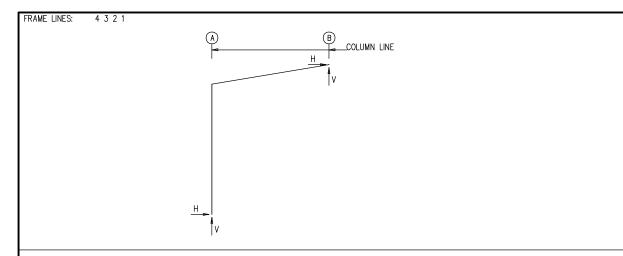


56633A

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	Γ
Р	PERMIT	4/28/21	DMC	SW	RA	

	AMSTRUI
2	Inverness Drive East, Ste#2
	Englewood, Colorado 80112
	PHONE: 800-345-4610

DESCRIPTION	ANCHOR BOLT REACTIONS
CUSTOMER	JAMY WHITEMAN/FORTIFIED SOLUTIONS
END USER	JAMY WHITEMAN/FORTIFIED SOLUTIONS
SCALE	NOT TO SCALE
JOB NO.: 5663	T



RIGID I	FRAME:		MAXIMUM	REACTION	IS, ANCH	OR BOLT	rs, & Base	PLATES					
Frm Line	Col Line	Load Id	Hmax H	umn_React V Vmax	tions(k Load Id	Hmin H	V Vmin	Bolt(in) Qty Dio	a	Base Width	_Plate(in) Length	Thick	Grout (in)
4	Α	6 2	0.8 -0.1	-0.8 4.5	4 3	-0.8 0.0	-0.4 -1.6	4 0.750)	6.000	10.50	0.500	0.0
4	В	5 1	1.5 0.1	-0.6 3.2	4 3	-1.1 0.5	-0.4 -1.0	0 0.000)	0.000	0.000	0.000	0.0

RIGID F	FRAME:		MAXIMUM	REACTION	IS, ANCI	HOR BOLT	S, & BASI	E PLATE	:S				
Frm Line	Col Line	Load Id	Hmax H	umn_Reac V Vmax	tions(k Load Id) Hmin H	V Vmin	Boli Qty	t(in) Dia	Base Width	e_Plate(in) Length	Thick	Grout (in)
3*	Α	6 2	1.4 -0.1	-1.5 8.8	4 3	-1.4 0.2	-0.4 -2.6	4	0.750	6.000	10.50	0.500	0.0
3*	В	6 1	2.7 0.1	-0.7 6.7	4 3	-1.9 1.0	−0.3 −1.5	0	0.000	0.000	0.000	0.000	0.0
3*	Frame lin	es:	3 2										

RIGID	FRAME:		MAXIMUM	REACTION	IS, ANCI	HOR BOLT	S, & BASI	E PLATE	:S				
Frm Line	Col Line	Load Id	—— Col Hmax H	umn_Reac V Vmax	tions(k Load Id	Hmin H	V Vmin	Bolt Qty	t(in) Dia	Base Width	e_Plate(in) Length	Thick	Grout (in)
1	Α	6 2	0.8 -0.1	-0.8 4.5	4 3	-0.8 0.0	-0.4 -1.6	4	0.750	6.000	10.50	0.500	0.0
1	В	6 1	1.5 0.1	-0.4 3.2	4 3	-1.1 0.5	−0.4 −1.0	0	0.000	0.000	0.000	0.000	0.0

NOTES	FOR REACTIONS	
	ding reactions are based on following building data: Width (ft) Length (ft) Eave Height (ft) Roof Slope (rise/12) Dead Load (psf) Collateral Load (psf) Live Load (psf) Snow Load (psf) Wind Speed (mph) (VULT) Wind Code Exposure Closed/Open Importance Wind Importance Wind Importance Seismic Seismic Zone Seismic Coeff (Fa*Ss)	130.0 IBC-15 C
ID	Description	
1 2 3 4 5 6	Dead+Collateral+Snow+Snow_Drit Dead+Collateral+Snow+Slide_Sno 0.6Dead+0.6Wind_Left1 0.6Dead+0.6Wind_Left2 0.6Dead+0.6Wind_Long1R 0.6Dead+0.6Wind_Long2R	

RIGID	FRAN	ЛЕ:	BAS	IC COLUM	N REACT	IONS (k)						
Frame Line	Column Line			Colle		 Horiz		Horiz -0.1 0.1	-Snow Vert 3.2 1.8	Snov Horiz 0.0 0.0	v_Drift- Vert 0.7 1.2	Slide Horiz 0.0 0.0	e_Snow- Vert 0.7 0.7
	Column Line A B	Wind Horiz 0.0 0.8	I_Left1- Vert -3.1 -1.9	-Wind_ Horiz 1.3 2.3	Right1- Vert -2.2 -1.1	Wind Horiz -1.4 -1.8	l_Left2- Vert -1.1 -0.8	-Wind_ Horiz -0.1 -0.3	_Right2- Vert -0.1 0.0	Wind Horiz 1.3 2.5	Long1- Vert -2.2 -1.3	Wind Horiz 1.3 2.3	
	Column Line A B	Horiz 0.0	ic_Left Vert 0.0 0.0	Seismic Horiz 0.0 0.1	_Right Vert 0.0 0.0								
Line	Line A		-Dead Vert 0.6 0.4	Collo Horiz 0.0 0.0	nteral— Vert 0.8 0.6		-Live Vert 2.3 1.6		-Snow Vert 5.9 3.2		w_Drift- Vert 1.4 2.4		e_Snow- Vert 1.6 1.4
	Column Line A B	Wind Horiz 0.3 1.6	I_Left1- Vert -4.9 -2.9	-Wind_ Horiz 2.1 3.9	Right1— Vert —3.5 —1.8	Wind Horiz -2.3 -3.1	l_Left2- Vert -1.2 -0.9	-Wind_ Horiz -0.5 -0.9	_Right2— Vert 0.2 0.2	Wind Horiz 2.3 4.3	Long1- Vert -4.0 -2.4	Wind Horiz 2.3 4.5	Verť
Line 3*	A	Horiz	ic_Left Vert 0.0 0.0	Seismic Horiz 0.0 0.2	Vert	Horiz	vert 0.0 0.0	-MIN_S Horiz 0.1 -0.1	SNOW Vert 1.7 1.6				
Frame Line 1	Line	 Horiz 0.0 0.0		Collo Horiz 0.0 0.0	nteral— Vert 0.1 0.1	Horiz	-Live Vert 1.3 0.9	Horiz -0.1 0.1	-Snow Vert 3.2 1.8		w_Drift- Vert 0.7 1.2		e_Snow- Vert 0.7 0.7
Frame Line 1		Wind Horiz 0.0 0.8	_Left1- Vert -3.1 -1.9	-Wind_ Horiz 1.3 2.3	Right1- Vert -2.2 -1.1	Wind Horiz -1.4 -1.8		-Wind_ Horiz -0.1 -0.3	_Right2- Vert -0.1 0.0	Wind Horiz 1.3 2.2	Long1- Vert -2.2 -1.3	Wind Horiz 1.3 2.6	Vert −1.7
Frame Line 1			ic_Left Vert 0.0 0.0	0.0	_Right Vert 0.0 0.0		ic_Long Vert 0.0 0.0	-MIN_S Horiz 0.0 0.0	SNOW Vert 1.0 0.9				
3*	Frame lin	es:	3 2										

ANCHOR BOLT SUMMARY

Loc	ıll — Line	Col Line		Reaction Heaction Heaction Heaction Reaction Rea	ons(k) - —Seis Horz	smic — Vert	Panel_ (lb, Wind	Note
L_EW F_SW R_EW B_SW	4 B 1 A	Torsiono	l Bracing	y Used				(h) (e) (h)
(e)Brac (h)Rigio	ing load I frame	ds must b at endwo	oe applie all	d to su	pporting	building		

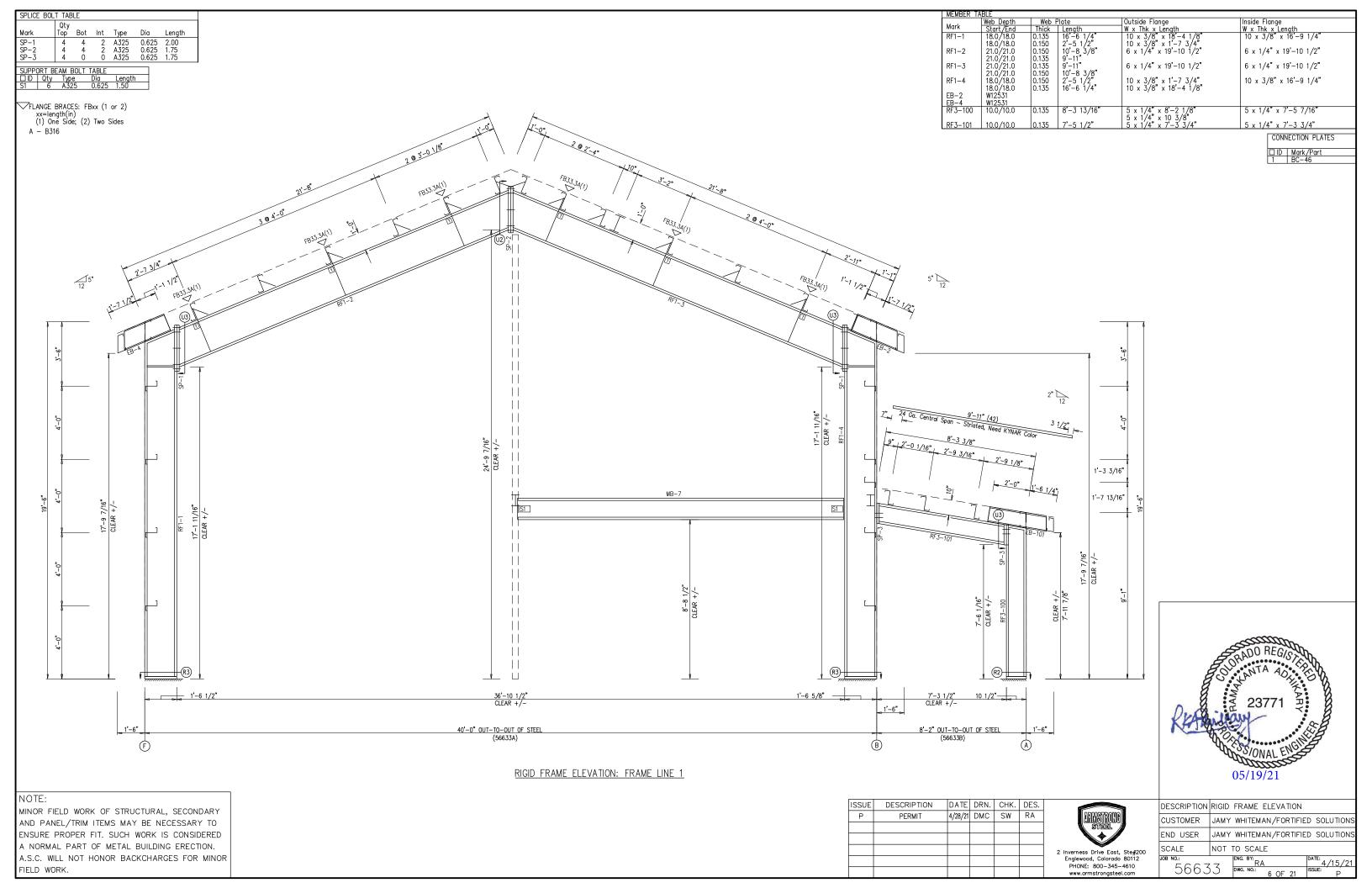


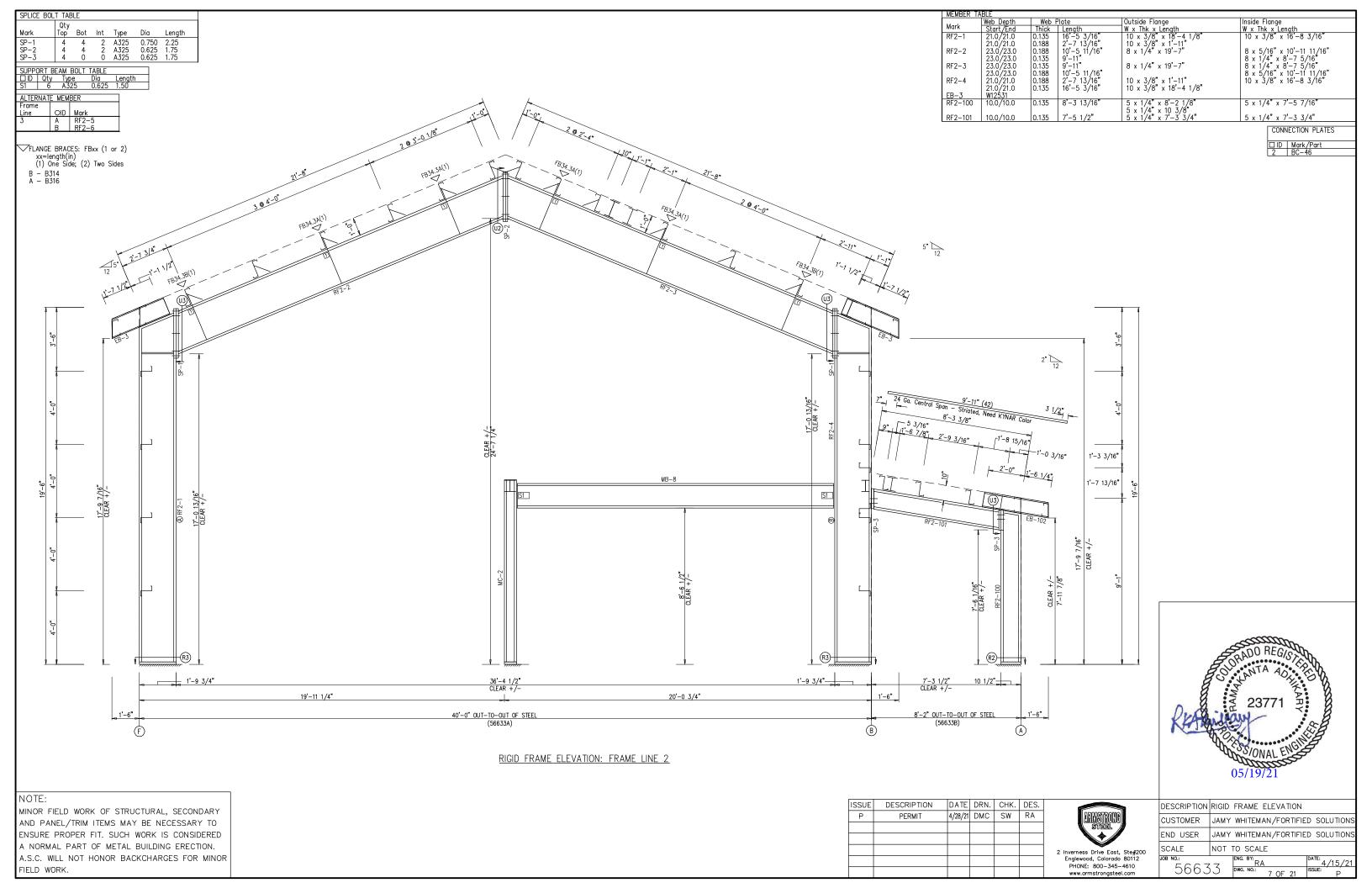
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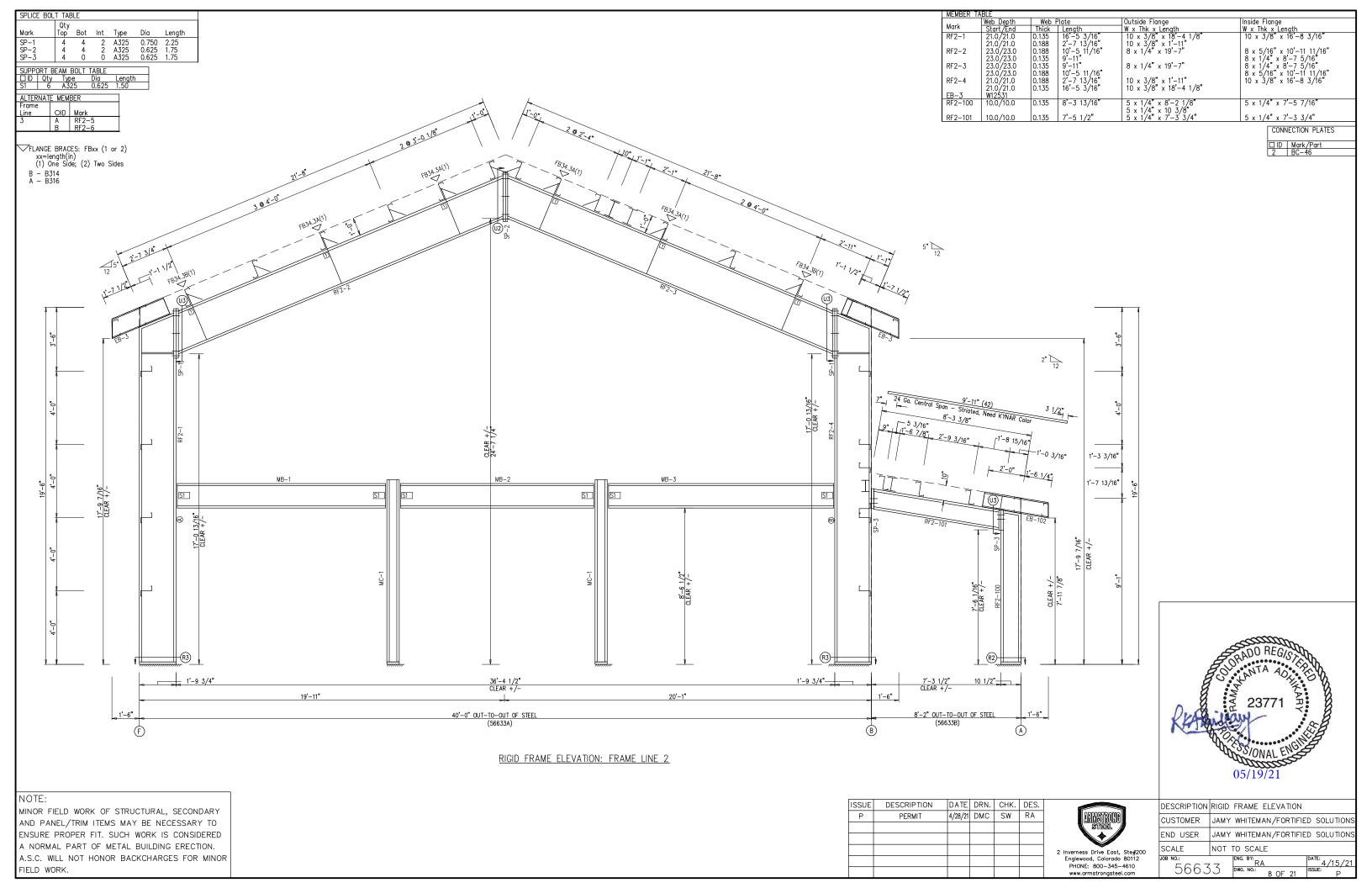
SUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
Р	PERMIT	4/28/21	DMC	SW	RA	

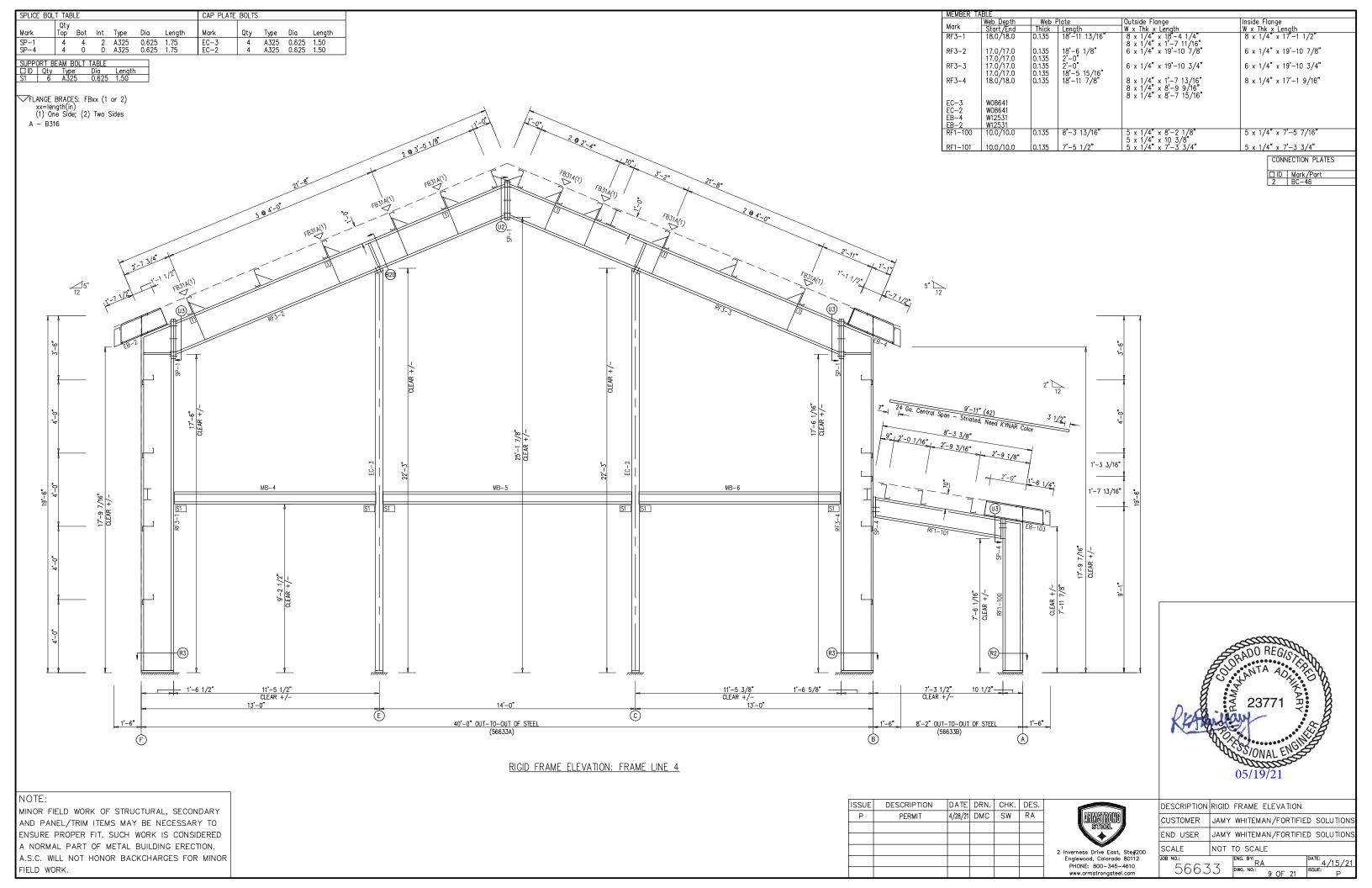
	AMSTROIC STEEL
2	Inverness Drive East, Ste#200 Englewood, Colorado 80112 PHONE: 800-345-4610 www.armstrongsteel.com

DESCRIPTION	ANCHO	OR BOLT	REACTIONS	5
CUSTOMER	JAMY	WHITEMAN	I/FORTIFIE	D SOLUTION
END USER	JAMY	WHITEMAN	I/FORTIFIE	D SOLUTION
SCALE	NOT I	O SCALE		
JOB NO.:	·	ENG. BY: RA		DATE: 4/15/2 ⁻
),) [DWG. NO.:	OF 04	ISSUE:

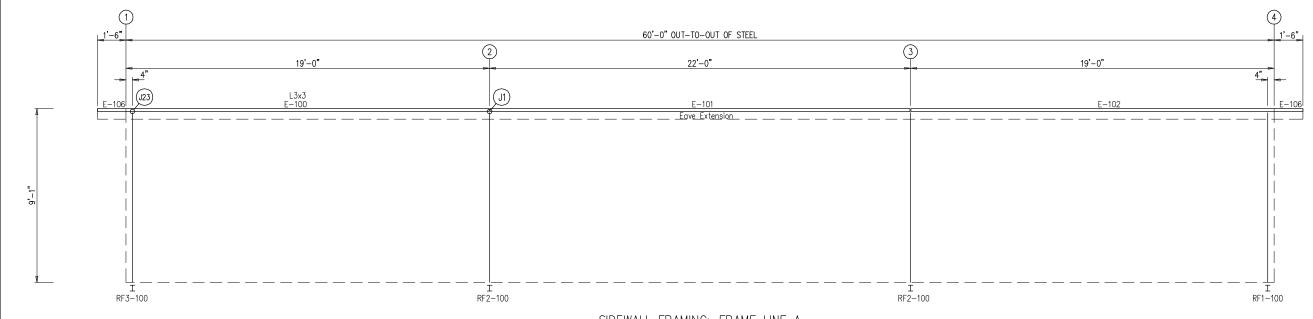




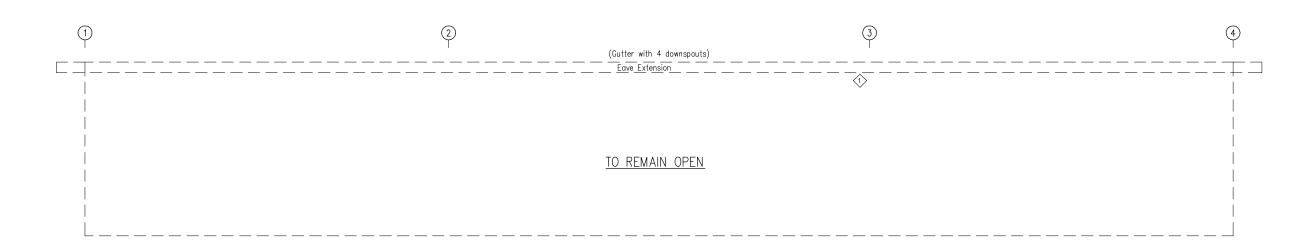












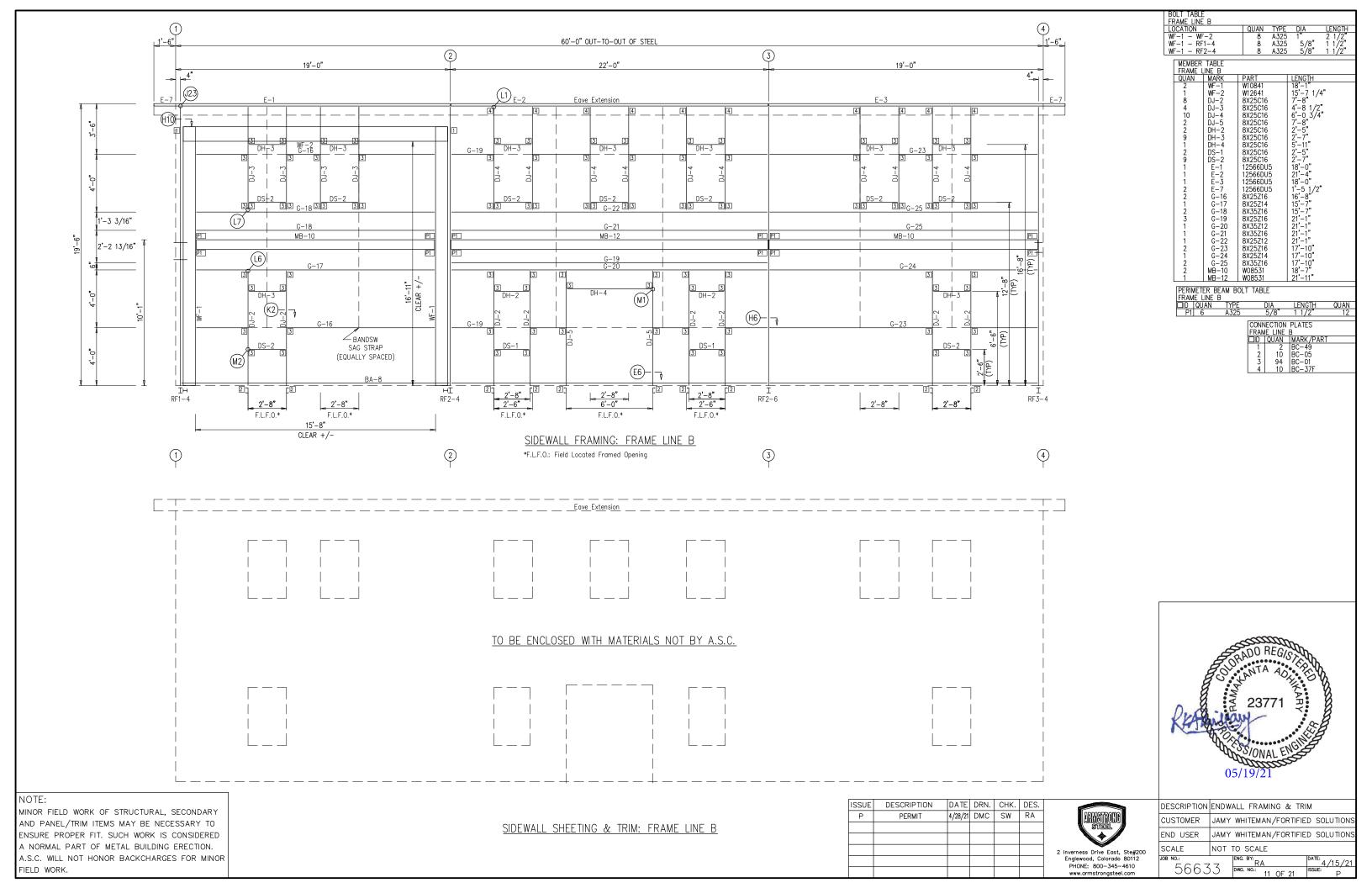
SIDEWALL TRIM: FRAME LINE A

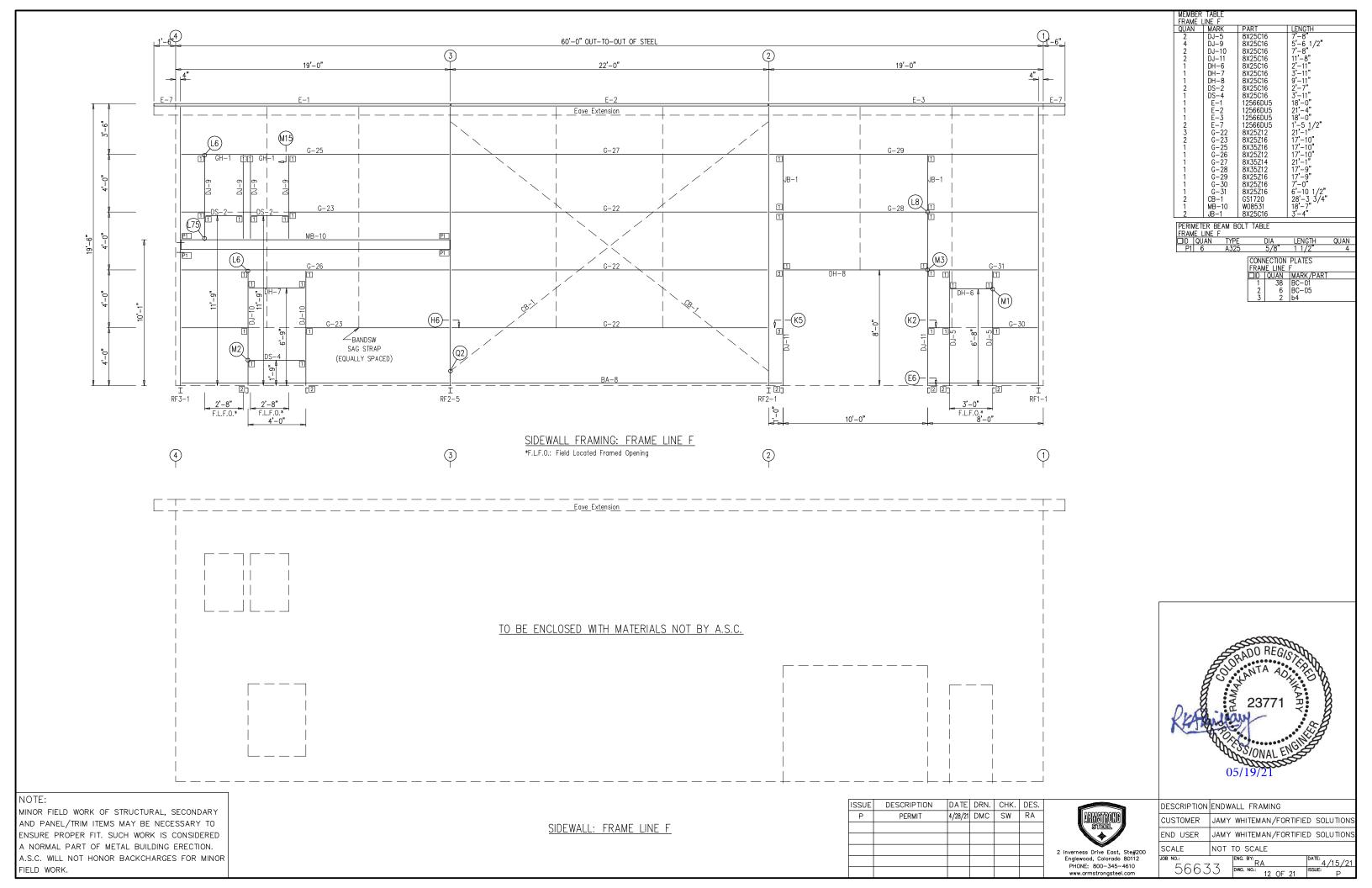
NOTE:
MINOR FIELD WORK OF STRUCTURAL, SECONDARY
AND PANEL/TRIM ITEMS MAY BE NECESSARY TO
ENSURE PROPER FIT. SUCH WORK IS CONSIDERED
A NORMAL PART OF METAL BUILDING ERECTION.
A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR
FIELD WORK.

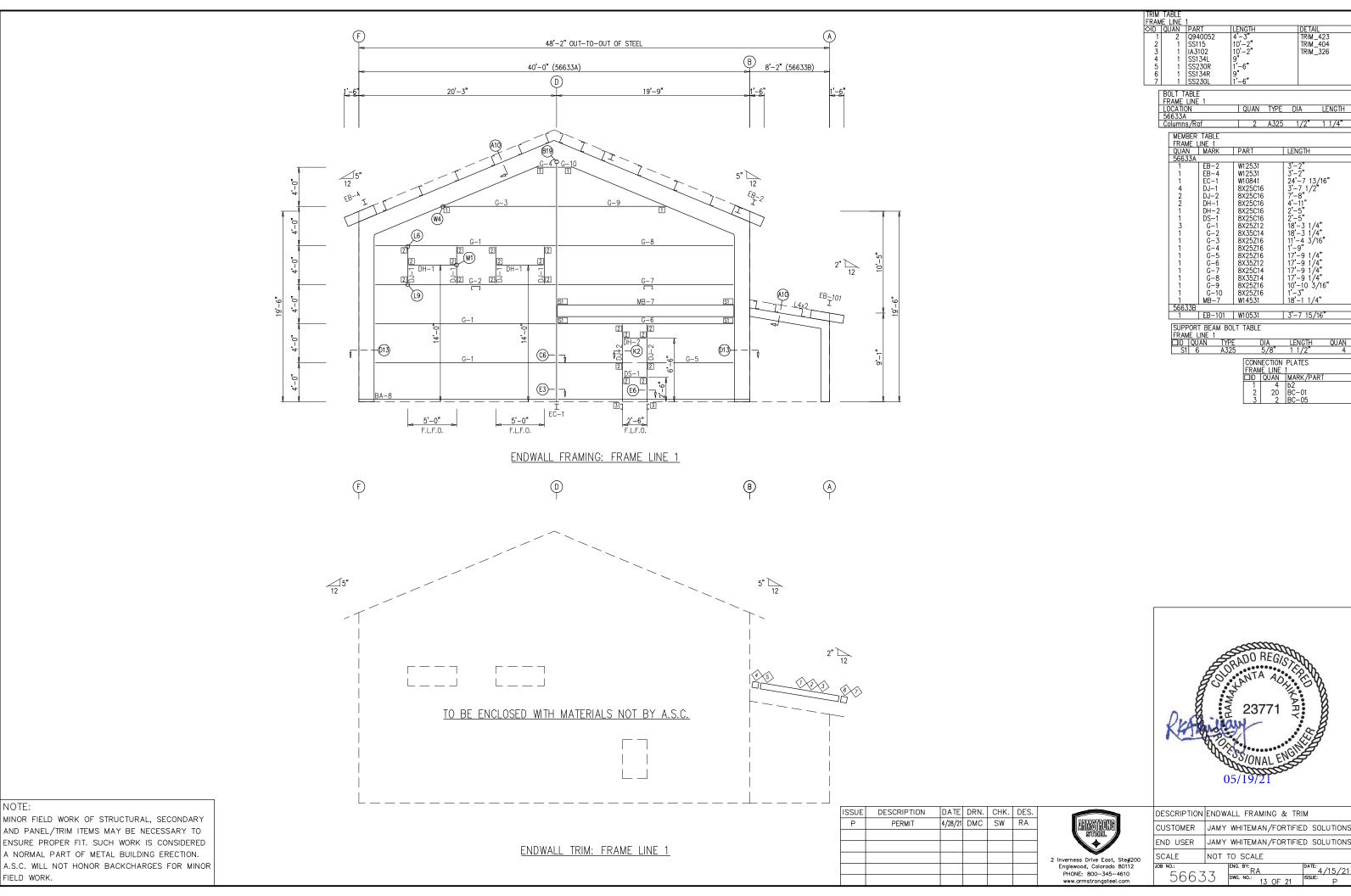
ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.
Ρ	PERMIT	4/28/21	DMC	SW	RA

	IRMSTROUG STTEEL
2	Inverness Drive East, Ste#20
	Englewood, Colorado 80112
	PHONE: 800-345-4610
	www.armstrongsteel.com

DESCRIPTION	ENDWALL FRAMING & TRIM
CUSTOMER	JAMY WHITEMAN/FORTIFIED SOLUTIONS
END USER	JAMY WHITEMAN/FORTIFIED SOLUTIONS
SCALE	NOT TO SCALE
JOB NO.:	-7 RA DATE: 4/15/21
5663	DWG. NO.: 10 OF 21 ISSUE: P







2 A325 1/2" 1 1/4"

3'-7 15/16"

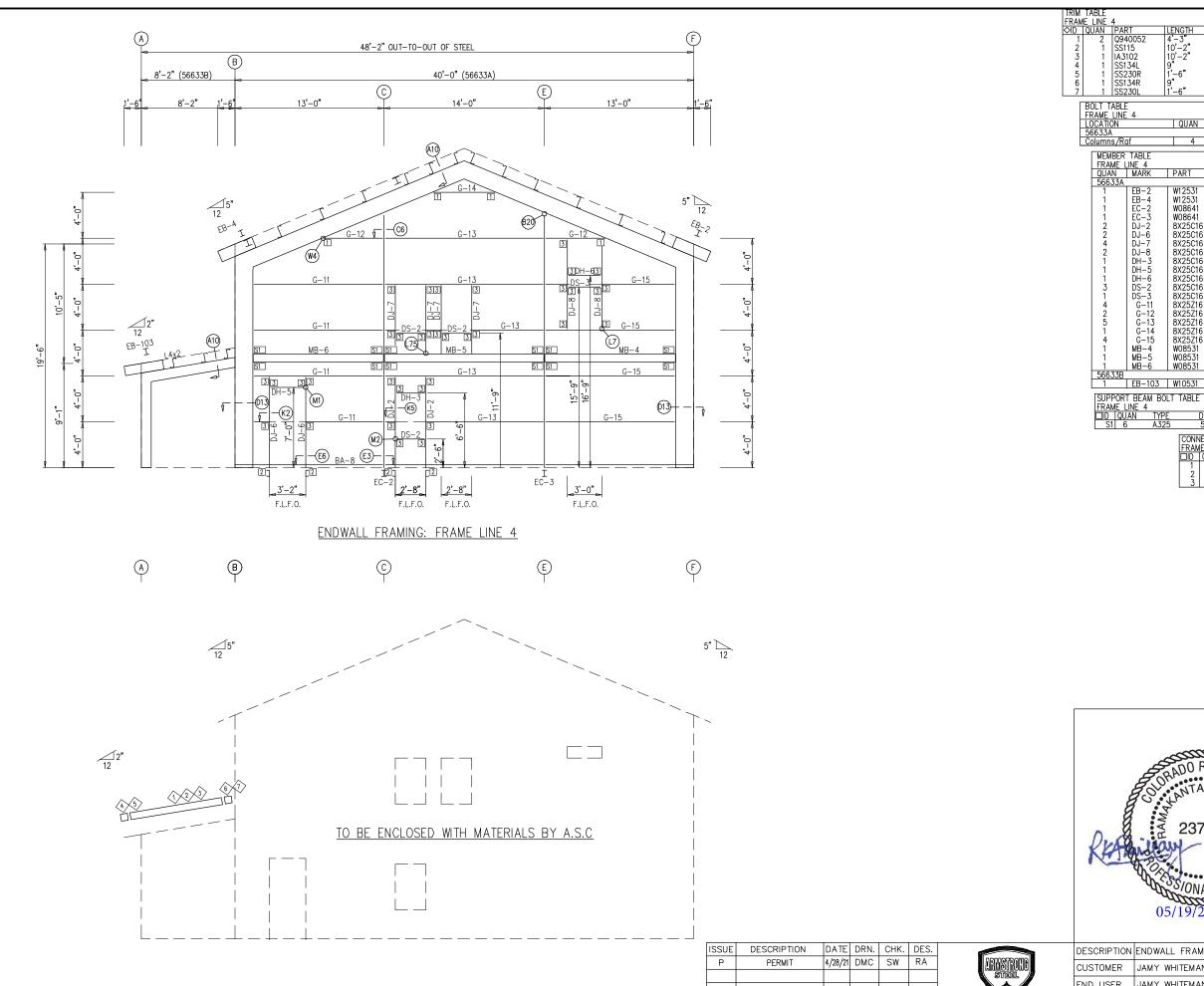
DATE: 4/15/21 ISSUE: P

CONNECTION PLATES
FRAME LINE 1

DID QUAN MARK/PART
1 4 b2
2 20 BC-01
3 2 BC-05

W12531 W10841 8X25C16 8X25C16 8X25C16 8X25C16 8X25C16 8X25Z12 8X35C14 8X25Z16 8X35Z12 8X35Z14 8X35Z14 8X35Z14 8X35Z14 8X35Z14 8X35Z14 8X25Z16 8X35Z14

A NORMAL PART OF METAL BUILDING ERECTION. A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.



MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION. A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

ENDWALL TRIM: FRAME LINE 4

ISSUE	DESCRIPTION	DATE	DRN.	CHK.	DES.	
Р	PERMIT	4/28/21	DMC	SW	RA	
						:

	ARMSTRUIC STEEL
2	Inverness Drive East, Ste#20 Englewood, Colorado 80112
	PHONE: 800-345-4610
	www.armstrongsteel.com

DESCRIPTION	ENDWALL FRAMING & TRIM
CUSTOMER	JAMY WHITEMAN/FORTIFIED SOLUTIONS
END USER	JAMY WHITEMAN/FORTIFIED SOLUTIONS
SCALE	NOT TO SCALE
JOB NO.:	-z ENG. BY: RA DATE: 4/15/21
5663	DWG. NO.: 14 OF 21 ISSUE: P

05/19/21

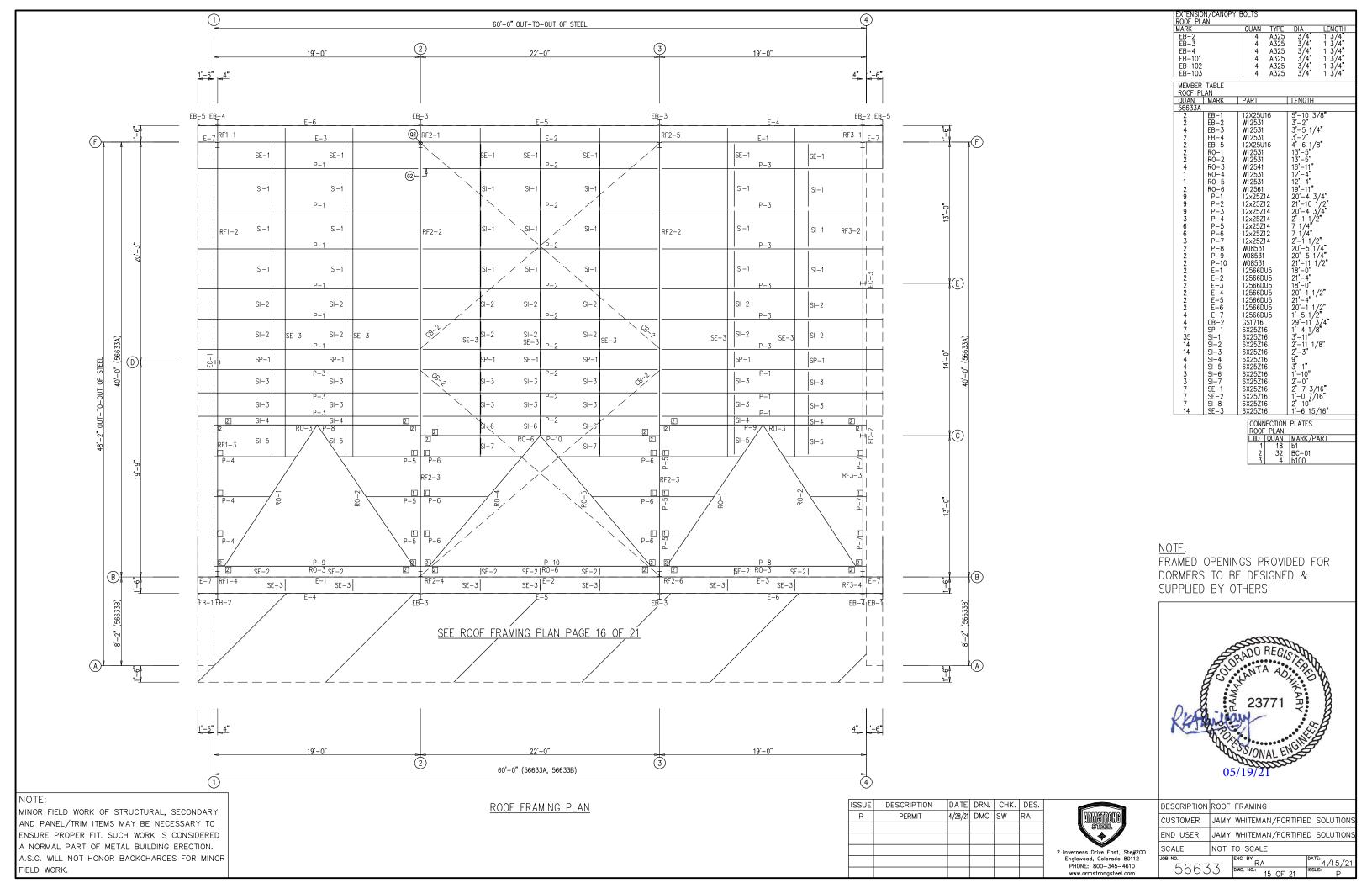
4 A325 5/8" 1 1/2"

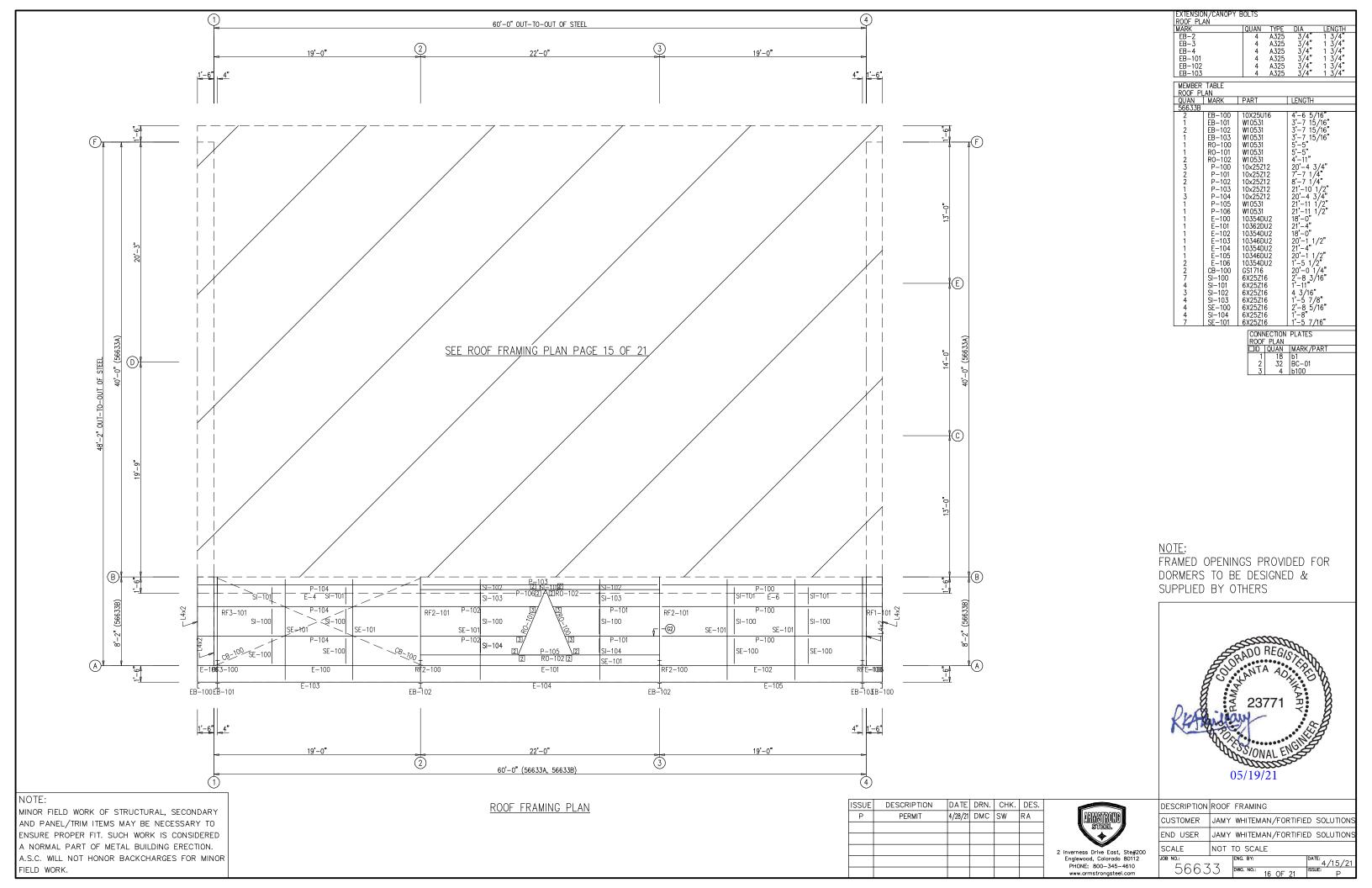
CONNECTION PLATES
FRAME LINE 4

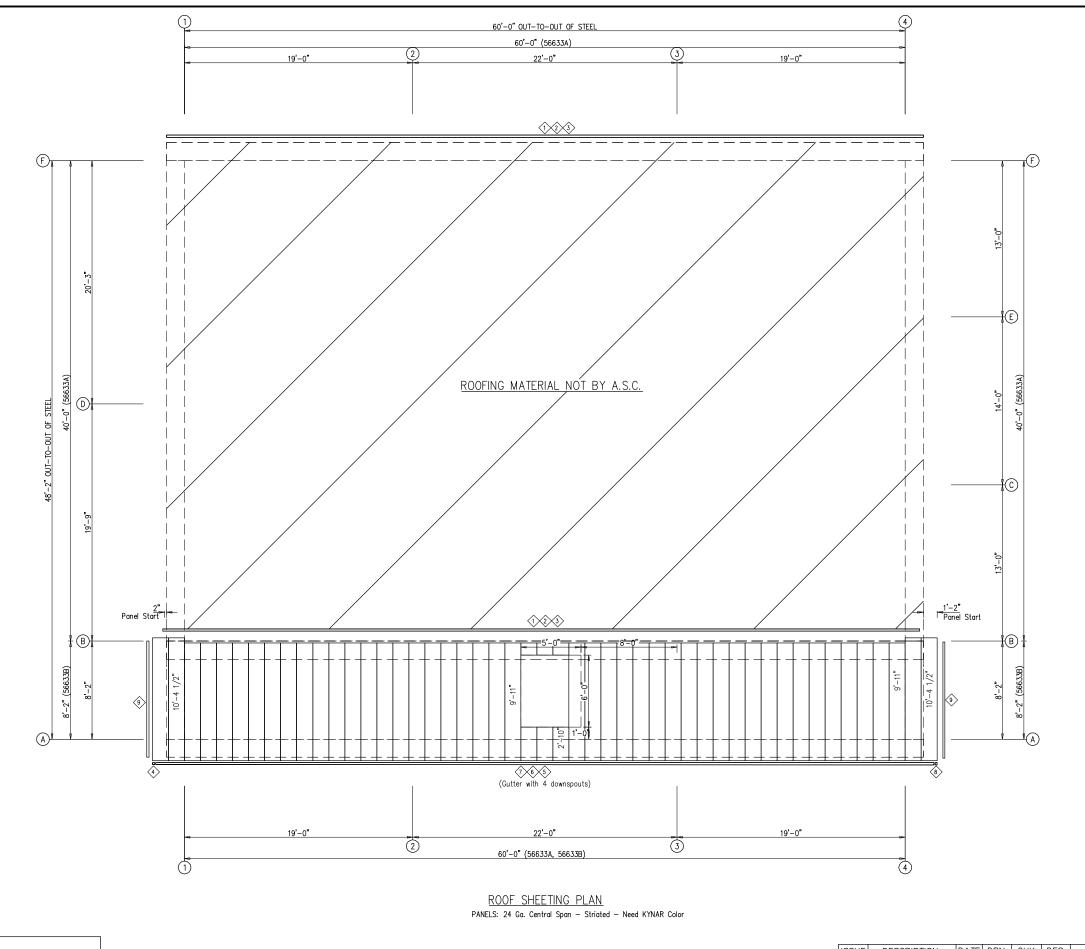
DID QUAN MARK/PAR

1 4 b2
2 4 BC-05
3 35 BC-01

W12531 W12531 W08641 W08641 8X25C16 8X25C16







NOTE:

MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION.

A.S.C. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

ISSUE DESCRIPTION DATE DRN. CHK. DES.
P PERMIT 4/28/21 DMC SW RA



DESCRIPTION	ROOF SHEETING PLAN	
CUSTOMER	JAMY WHITEMAN/FORTIFIED SOLUTION	ONS
END USER	JAMY WHITEMAN/FORTIFIED SOLUTION	SNC
SCALE	NOT TO SCALE	
JOB NO.:	Z ENG. BY: RA DATE: 4/15/	/21
5663	DWG. NO.: 17 OF 21 ISSUE: P	

05/19/21

DETAIL TRIM_414 TRIM_414

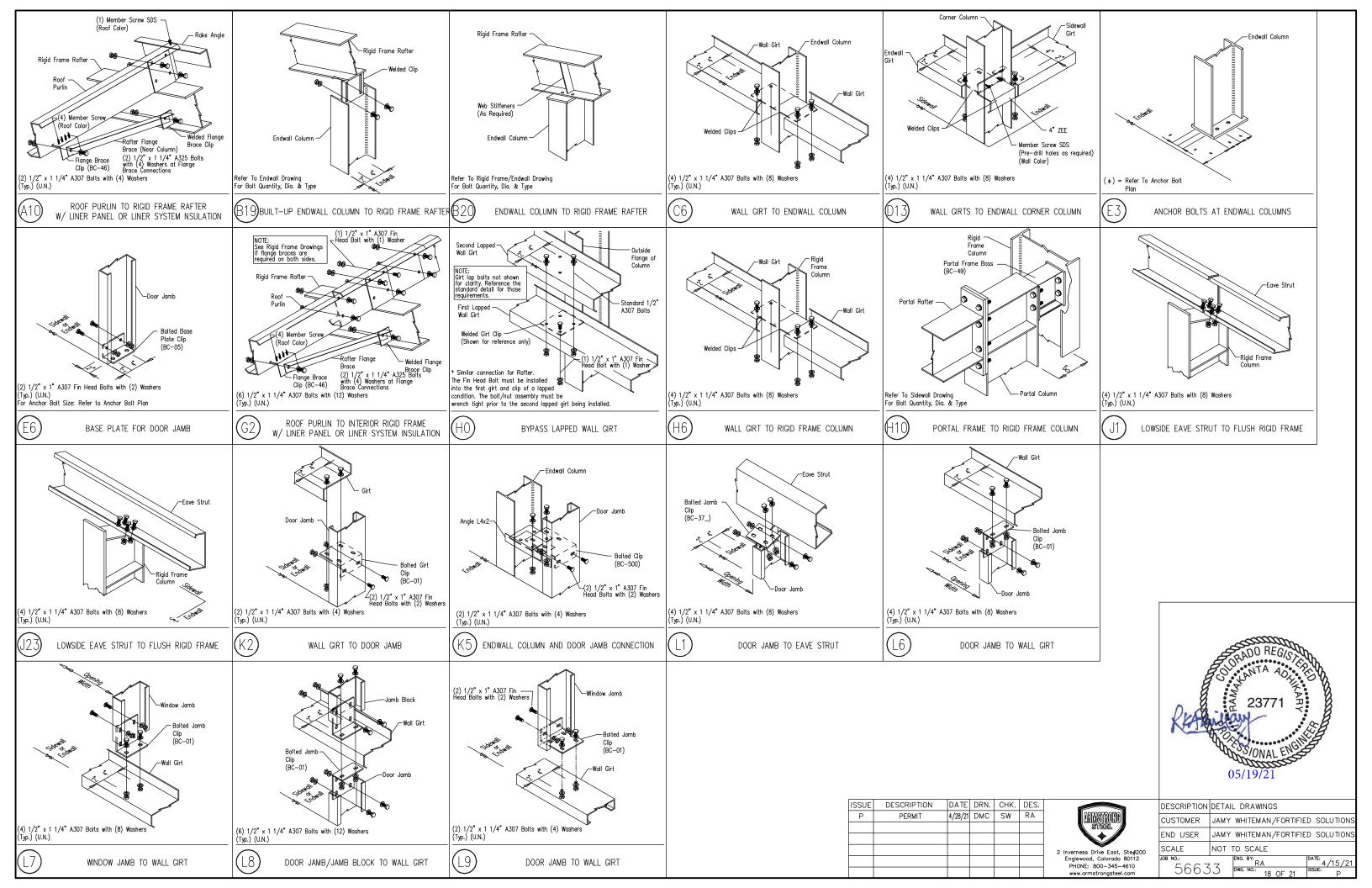
TRIM_408 TRIM_408 TRIM_72

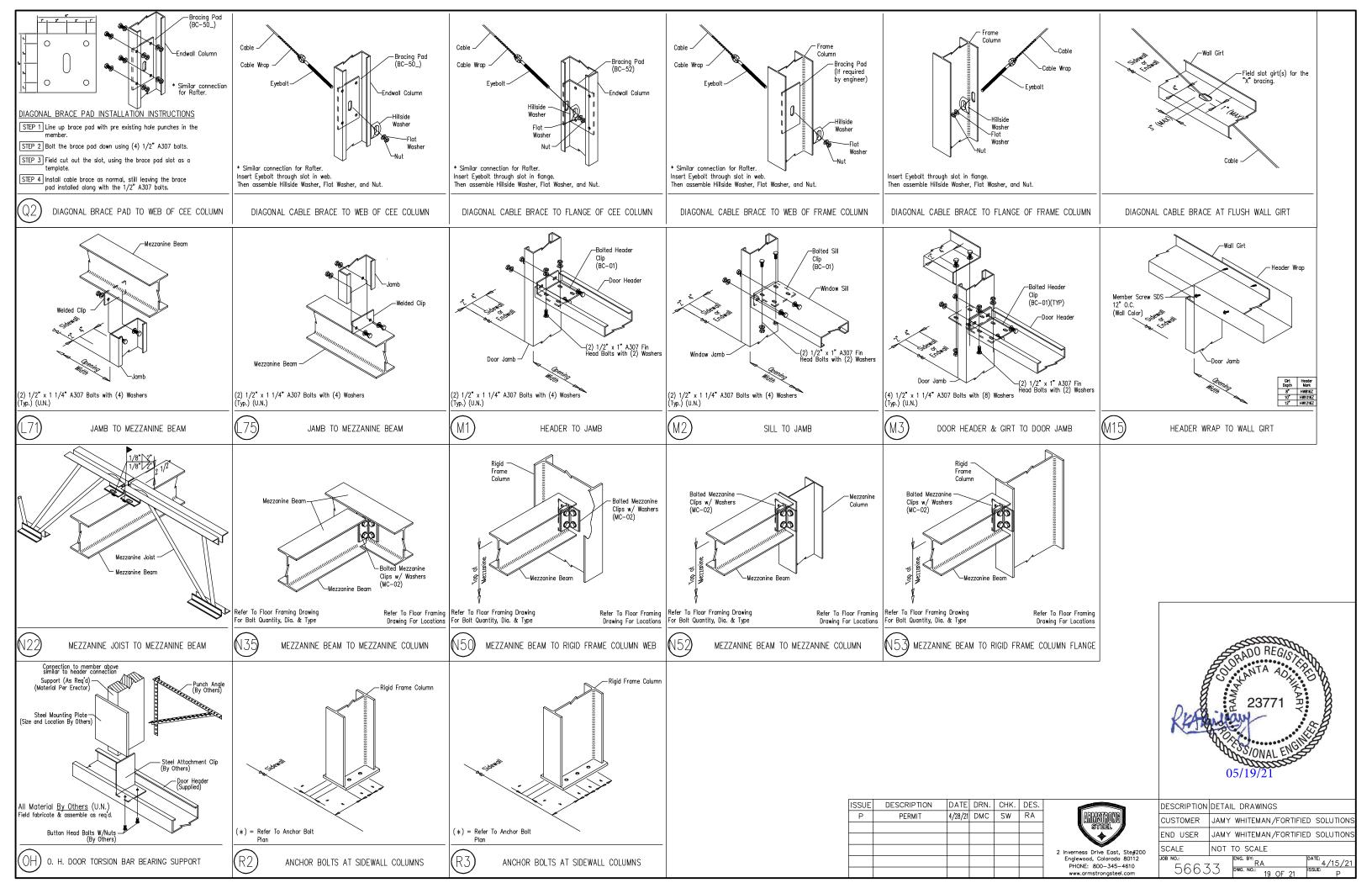
DIA 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"

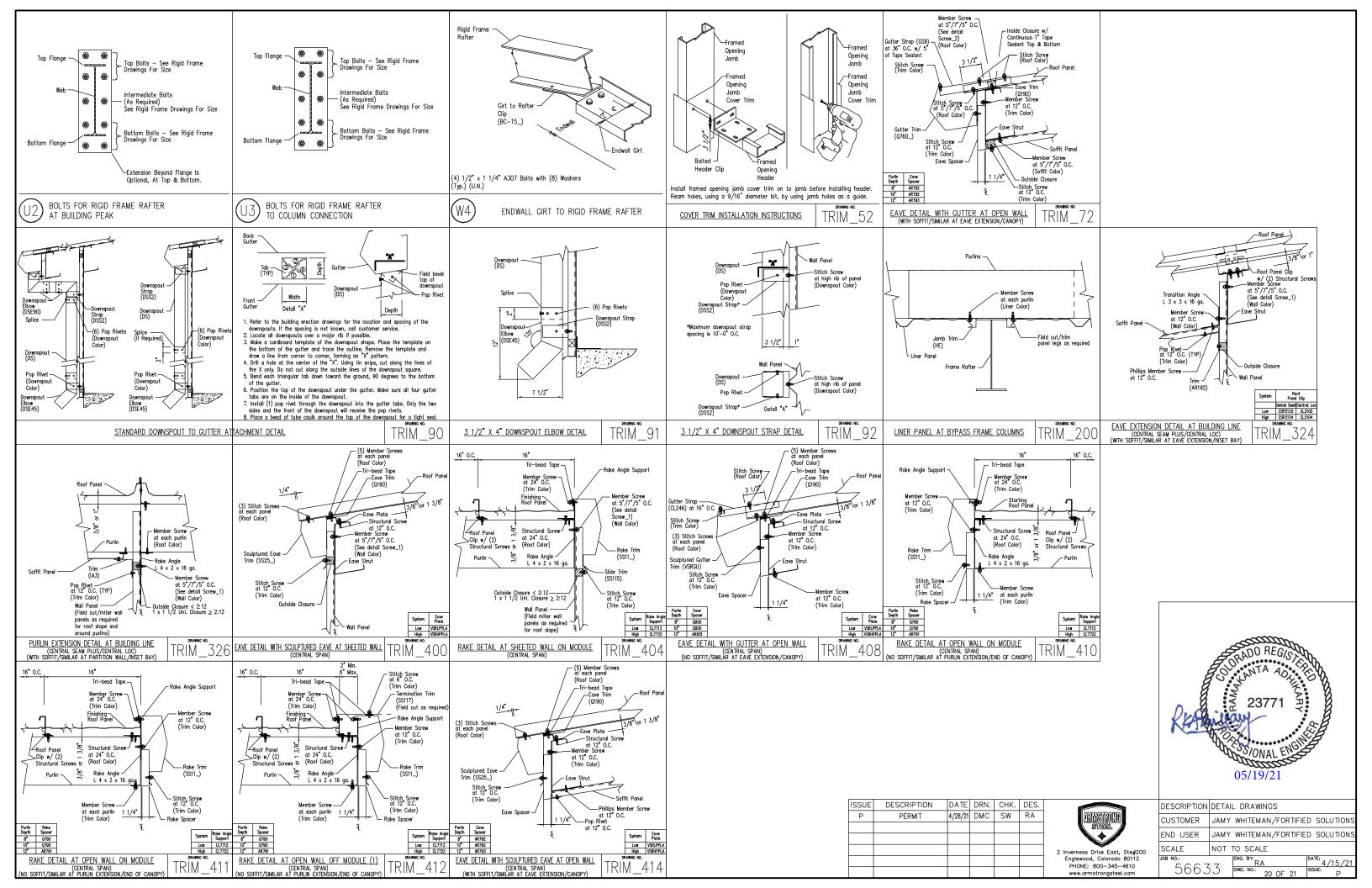
TYPE
A325
A325
A325
A325
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A325
A325

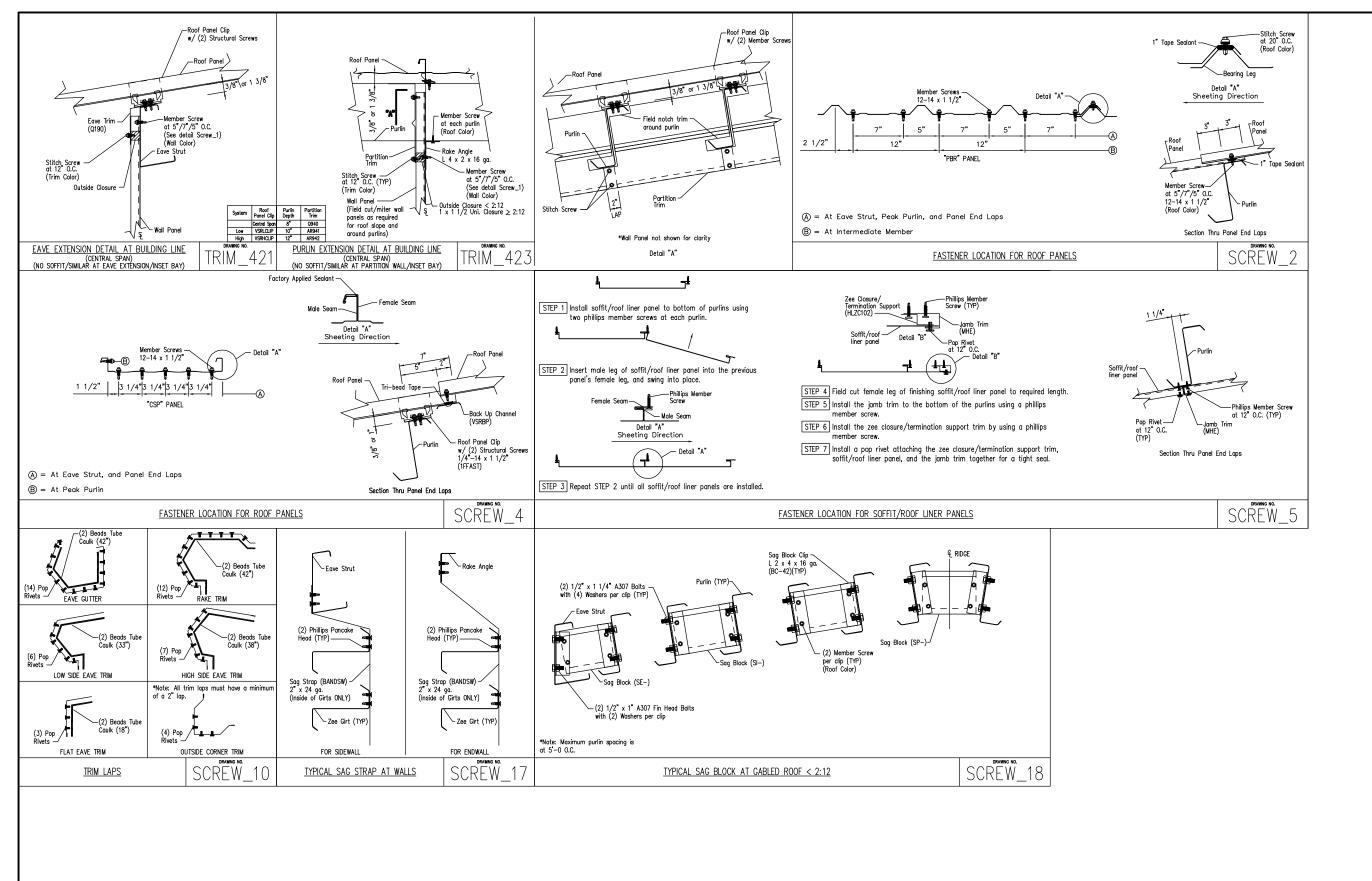
SS250 SS251 Q190162 1 SS245L 1 VSRGU102 3 VSRGU204 4 Q190162 1 SS245R 2 IA3102

EXTENSION/CANOPY BOLTS
ROOF PLAN
MARK QUAN
EB-2 4
EB-3 4
EB-4 4
EB-101 4
EB-102 4
EB-103 4











1220F	DESCRIPTION	DATE	DKN.	CHK.	DE2.
Р	PERMIT	4/28/21	DMC	SW	RA



DESCRIPTION	DETAIL DRAWINGS
CUSTOMER	JAMY WHITEMAN/FORTIFIED SOLUTIONS
END USER	JAMY WHITEMAN/FORTIFIED SOLUTIONS
SCALE	NOT TO SCALE
JOB NO.: 5663	ENG. BY: RA DWG. NO.: 21 OF 21 ISSUE: P