# TORO STEEL BUILDINGS 1405 DENISON STREET MARKHAM, ON L3R 5V2 CA

## BUILDER/CONTRACTOR RESPONSIBILITIES

THE MANUFACTURER'S STANDARD PRODUCT SPECIFICATIONS APPLY AND UNLESS STIPULATED OTHERWISE IN THE ORDER DOCUMENTS, DESIGN, FABRICATION, QUALITY CRITERIA STANDARDS AND

THE BUILDER/CONTRACTOR OR A/E FIRM IS RESPONSIBLE FOR OVERALL PROJECT COORDINATION. THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR ERECTION OF STEEL AND ALL ASSOCIATED WORK IN COMPLIANCE WITH TORO STEEL BUILDINGS DRAWINGS. TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK OR OTHER ELEMENTS REQUIRED FOR ERECTION WILL BE DETERMINED, FURNISHED AND INSTALLED BY THE BUILDER/CONTRACTOR. ALL INTERFACE AND COMPATIBILITY OF ANY MATERIALS NOT FURNISHED BY
TORO STEEL BUILDINGS ARE THE RESPONSIBILITY OF AND TO BE COORDINATED BY THE
BUILDER/CONTRACTOR OR A/E FIRM. UNLESS SPECIFIC DESIGN CRITERIA CONCERNING ANY INTERFACE
BETWEEN MATERIALS IS FURNISHED AS PART OF THE ORDER DOCUMENTS, TORO STEEL BUILDINGS ASSUMPTIONS WILL GOVERN. WHERE DISCREPANCIES EXIST BETWEEN TORO STEEL BUILDINGS DRAWINGS AND THE PLANS OF OTHER TRADES, TORO STEEL BUILDINGS DRAWINGS SHALL GOVERN. THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL OTHER PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE BUILDER/CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.

THESE DRAWINGS, SUPPORTING STRUCTURAL CALCULATIONS AND DESIGN CERTIFICATION ARE BASED ON ORDER DOCUMENTS AS OF THE DATE OF THESE DRAWINGS. THESE DOCUMENTS SHALL DESCRIBE THE MATERIAL SUPPLIED BY TORO STEEL BUILDINGS AS OF THE DATE OF THESE DRAWINGS. ANY CHANGES TO THE ORDER DOCUMENTS AFTER THIS DATE WILL VOID THESE DRAWINGS, SUPPORTING STRUCTURAL CALCULATIONS AND DESIGN CERTIFICATION. THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE GOVERNING BUILDING AUTHORITY OF ALL CHANGES TO THE ORDER DOCUMENTS WHICH PERSUAL IN CHANGES TO THE ORDER DOCUMENTS WHICH RESULT IN CHANGES TO THE DRAWINGS, SUPPORTING STRUCTURAL CALCULATIONS

THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR APPLYING AND OBSERVING ALL PERTINENT SAFETY RULES AND REGULATIONS AND OSHA STANDARDS AS APPLICABLE.

SUPPLYING DESIGN DATA AND DRAWINGS SEALED BY A LICENSED ENGINEER, FOR MATERIALS SUPPLYING DESIGN DATA AND DRAWINGS SEALED BY A LICENSED ENGINEER, FOR MATERIALS SUPPLIED BY THE MANUFACTURER, DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE MANUFACTURER OR ANY OF ITS AGENTS OR EMPLOYEES IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR THE CONSTRUCTION PROJECT. NEITHER TORO STEEL BUILDINGS NOR ANY OF ITS AGENTS OR EMPLOYEES IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR THE CONSTRUCTION PROJECT. THESE DRAWINGS AND DESIGN DATA ARE SEALED AS CERTIFICATION THAT

THE MATERIALS FURNISHED BY TORO STEEL BUILDINGS ARE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE ORDER DOCUMENTS. DESIGN CONSIDERATIONS OF ANY MATERIALS NOT FURNISHED BY TORO STEEL BUILDINGS AND FOR THE OVERALL PROJECT ARE THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR AND DESIGN PROFESSIONALS OTHER THAN TORO STEEL BUILDINGS UNLESS SPECIFICALLY INDICATED OTHERWISE.

APPROVAL OF TORO STEEL BUILDINGS DRAWINGS AND DESIGN DATA AFFIRMS THAT TORO STEEL BUILDINGS HAS CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE ORDER DOCUMENTS AND CONSTITUTES BUILDER/CONTRACTOR'S ACCEPTANCE OF TORO STEEL BUILDINGS INTERPRETATION OF THE ORDER DOCUMENTS AND OF TORO STEEL BUILDINGS STANDARD PRODUCT SPECIFICATIONS, INCLUDING ITS DESIGN. FABRICATION, AND QUALITY CRITERIA STANDARDS AND TOLERANCES.

MASONRY AND TILT-UP CONCRETE WALLS BY OTHERS ARE PRESUMED TRUE, PLUMB AND LEVEL. ERECTION TOLERANCES MUST MEET THE REQUIREMENTS OF CAN/CSA-S16-01.

THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SHIPMENTS SHORTAGES MUST BE REPORTED TO TORO STEEL BUILDINGS WITHIN 15 DAYS OF DELIVERY

WHERE SHOWN IN TORO STEEL BUILDINGS STRUCTURAL CALCULATIONS, LATERAL STABILITY OF ENDWALLS AND LONGITUDINAL STABILITY OF SIDEWALLS RELY ON DIAPHRAGM ACTION OF THE WALL PANELS PROVIDED BY TORO STEEL BUILDINGS. REMOVAL OF THESE WALL PANELS CAN RESULT IN LESS THAN THE MINIMUM LENGTH OF WALL PANELS REQUIRED AND WILL VOID ALL WARRANTIES AND CERTIFICATIONS SUPPLIED BY TORO STEEL BUILDINGS AS THEY APPLY TO THIS CONDITION.

THE FIELD INSTALLATION OF X-BRACING OR OTHER MEANS TO PROVIDE LATERAL STABILITY MAY BE REQUIRED AS A RESULT OF THE REMOVAL OF WALL PANELS.

#### ENGINEERING SEAL

THIS CERTIFICATION COVERS PARTS MANUFACTURED AND DELIVERED BY THE MANUFACTURER ONLY, AND EXCLUDES PARTS SUCH AS DOORS, WINDOWS, FOUNDATION DESIGN AND ERECTION

THESE DRAWINGS AND THE METAL BUILDING SYSTEM THEY REPRESENT ARE THE PRODUCT OF AN AFFILIATE OF NCI GROUP, INC. - 10943 N. SAM HOUSTON PARKWAY W., HOUSTON, TX 77064. THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS HEREON IS EMPLOYED BY AN AFFILIATE OF NCI GROUP, INC. AND IS NOT THE ENGINEER-OF-RECORD FOR THE OVERALL PROJECT.

### MATERIALS

MATERIAL PROPERTIES OF STEEL BAR, PLATE AND SHEET USED IN THE FABRICATION OF BUILT-UP PRIMARY AND SECONDARY STRUCTURAL FRAMING MEMBERS CONFORM TO:

CAN/CSA STANDARD G40.20/G40.21 ASTM A529/A529M GRADE 55

ASTM A572/A572M GRADE 55

MATERIAL PROPERTIES OF HOT ROLLED STRUCTURAL SHAPES CONFORM TO:

CAN/CSA STANDARD G40.20/G40.21

ASTM A572/A572M GRADE 50

HOLLOW STRUCTURAL SHAPES CONFORM TO:

ASTM A500 GRADE B

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8/8/18

9/28/18

MATERIAL PROPERTIES OF COLD-FORMED LIGHT GAGE STEEL MEMBERS CONFORM TO: CAN/CSA STANDARD G40.20/G40.21 GRADE 55

#### SPECIFICATIONS

MATERIALS SUPPLIED BY TORO STEEL BUILDINGS FOR THIS BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ORDER DOCUMENTS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS SUCH AS, BUT NOT LIMITED TO, CUTTING OR REMOVAL OF GIRTS, ROD BRACING, OR FLANGE BRACES SHOWN ON THESE ERECTION DRAWINGS OR THE ADDITION OF OTHER CONSTRUCTION MATERIAL OR LOADS WILL VOID ALL WARRANTIES AND CERTIFICATIONS SUPPLIED BY TORO STEEL BUILDINGS AS THEY APPLY TO THIS CONDITION. ANY STRUCTURAL FIELD MODIFICATIONS MUST BE UNDER THE DIRECTION OF A LICENSED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER, TORO STEEL BUILDINGS WILL ASSUME NO RESPONSIBILITY FOR LOADS OTHER THAN THOSE SPECIFIED IN THE ORDER DOCUMENTS.

MATERIALS HAVE BEEN DESIGNED WITH TORO STEEL BUILDINGS STANDARD DESIGN PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES:

- CANADIAN STANDARD CSA S136-07 "COLD FORMED STEEL STRUCTURAL MEMBERS". CANADIAN STANDARD CAN/CSA-S16-09 "LIMIT STATES DESIGN OF STEEL STRUCTURES".
- · AMERICAN INSTITUTE OF STEEL CONSTRUCTION: "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
- · AMERICAN IRON AND STEEL INSTITUTE: "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS". THE BUILDING CODE AS SPECIFIED IN THE ENGINEERING DESIGN CRITERIA.
- · METAL BUILDING MANUFACTURER'S ASSOCIATION: "METAL BUILDING SYSTEMS
- CANADIAN SHEET STEEL BUILDING INSTITUTE (CSSBI)

FOR CONSTRUCTION PERMIT

FOR ERECTOR INSTALLATION

ALL WELDING IS PERFORMED IN ACCORDANCE WITH CSA W47.1-09 AND CSA W59-03.

UNLESS NOTED ON THE ERECTION DRAWINGS, NO FIELD WELDING IS REQUIRED. WHERE FIELD WELDING IS SPECIFIED THE BUILDER/CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHODS AND PROCEDURES TO FULFILL WELD REQUIREMENTS. TORO STEEL BUILDINGS IS NOT RESPONSIBLE FOR WELDMENT SURFACE PREPARATION EXCEPT AS SPECIFIED IN THE ORDER DOCUMENTS

### GENERAL NOTES

ASR BAM GVR

GRK AVS GVR

PROJECT:

LOCATION:

CAD

CUSTOMER: THE GOUR-MART LTD.

PENTICTON, BC V2A 8Y2 CA

SCALE

NTS

DATE

9/28/18

NO CHANGES SHOULD BE MADE TO THIS BUILDING SYSTEM UNLESS APPROVED IN WRITING BY THE MANUFACTURERS ENGINEERING DEPARTMENT. UNAPPROVED CHANGES COULD RESULT IN AN UNSAFE BUILDING DESIGN AND COULD ENDANGER PUBLIC SAFETY.

THIS BUILDINGS ANCHOR BOLTS ARE BY OTHERS. TORO STEEL BUILDINGS BUILDING COMPANY DOES NOT PROVIDE ANCHOR BOLTS. ISSUE DATE DESCRIPTION BY CK'D DSN

## wall framing provided by the manufacturer

IMPORTANCE FACTOR (Ie)

OVERSTRENGTH FACTOR RO

TORO STEEL BUILDINGS 1405 DENISON STREET

MARKHAM, ON L3R 5V2 CA

DARRELL CAPUNE T18-0110 OWNER: THE GOUR-MART LTD PHASE BUILDING ID JOB NUMBER SHEET NUMBER ISSUE

16-B-63921

1.00

1.3000

## DESIGN LOADING

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS

## NBC 10/ BCBC 12

THE BUILDER IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD		
SUPERIMPOSED	2.000	PSF
COLLATERAL (LIGHTS)	4.5	PSF
ROOF LIVE LOAD	20.90	PSF
SNOW LOAD		
GROUND SNOW LOAD (Ss)	33.6218	PSF
RAIN LOAD (Sr)	2.0900	PSF
BASIC ROOF SNOW LOAD FACTOR (CI	0.8000	
ROOF SLOPE FACTOR (Cs)	1.0000	
IMPORTANCE FACTOR (Is)	1.0000	
SHAPE FACTOR (Ca)	1.0000	
EXPOSURE FACTOR (Cw)	1.0000	
SLOPED ROOF SNOW (S)	29.02	PSF
WIND LOAD		
WIND LOAD '1/50	12.3	PSF
WIND EXPOSURE (Ce)	0	
WIND CATEGORY	2	
WIND IMPORTANCE FACTOR (IW)	1.00	===
SEISMIC DATA		
Sa(0.2)	0.28	
Sa(0.5)	_0.181	
Sa(1.0)	0.11	
Sa(2.0)	0.066	
Fa=	1.2872	
Fv=	1.3870	
SOILS SITE CLASS	D	

DESIGN CRITERIA AS NOTED IS AS GIVEN WITHIN ORDER DOCUMENTS AND IS APPLIED IN GENERAL ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE MODEL CODE AND/OR SPECIFICATION INDICATED. NEITHER THE MANUFACTURER NOT THE CERTIFYING ENGINEER DECLARES OR ATTESTS THAT THE LOADS AS DESIGNATED ARE PROPER FOR LOCAL PROVISIONS THAT MAY APPLY OR FOR SITE SPECIFIC PARAMETERS. THE DESIGN CRITERIA IS SUPPLIED BY THE BUILDER, PROJECT OWNER, OR AN ARCHITECT AND/OR ENGINEER OF RECORD FOR THE OVERALL CONSTRUCTION PROJECT.

TRANSVERSE RESPONSE MODIFICATION RD \_ 1.5000

LONGITUDINAL RESPONSE MODIFICATION RD 1.0000

25% of the roof snow load has been included in the seismic weight calculations

The metal building manufacturer has not designed the structure for snow accumulation loads at the ground level which may impose snow loads on the

## DRAWING INDEX

ISSUE	PAGE	DESCRIPTION
0	C1	COVER SHEET
1	F1	ANCHOR BOLT PLAN
1	F2	ANCHOR BOLT REACTIONS
1	F3	ANCHOR BOLT DETAILS
0	E1	ROOF FRAMING PLAN
0	E2	ROOF SHEETING PLAN
0	E3	FRONT SIDEWALL
0	E4	BACK SIDEWALL
0	E5	LEFT ENDWALL
0	E6	RIGHT ENDWALL
0	E7-E9	FRAME CROSS SECTION
0	DET1-9	GENERAL DETAILS
0	R1-R4	INSTALLATION SHEETS
/	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 CONSTRUCTION PERMITS THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL, ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR ERECTOR INSTALLATION FINAL DRAWINGS

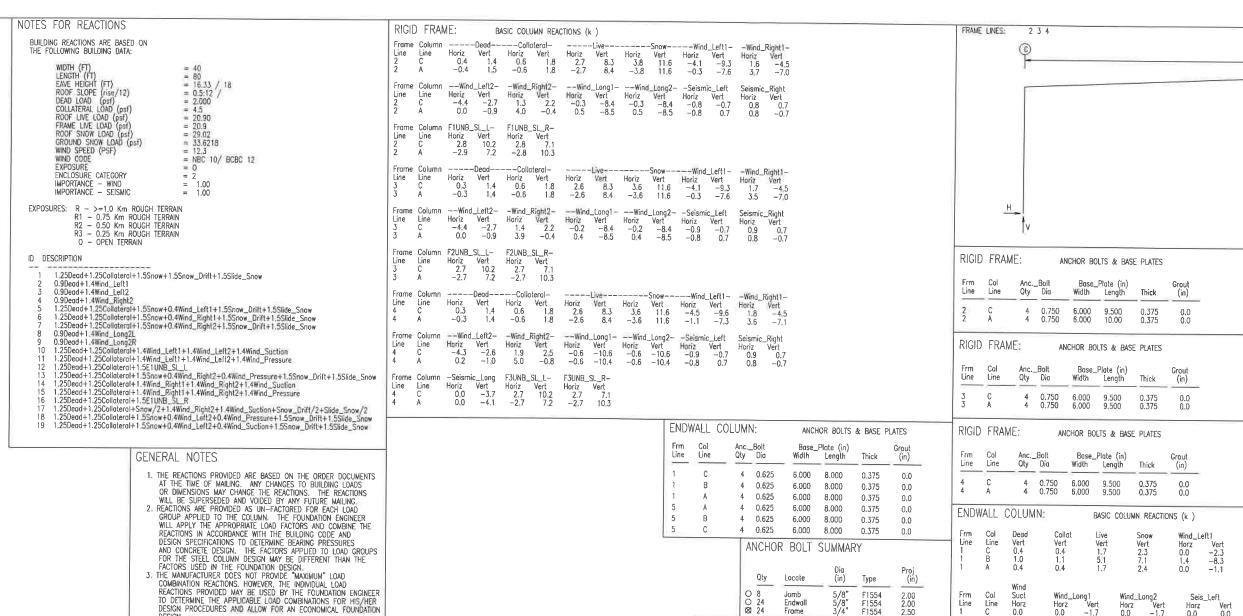
> FOR QUESTIONS OR ASSISTANCE CONCERNING ERECTION CALL:

905-477-1894

MONDAY - FRIDAY 7:30AM TO 5:00PM

THE ENGINEER WHOSE SEAL APPEARS HEREON IS AN EMPLOYEE FOR THE MANUFACTURER, NCI GROUPS, INC. OR ONE OF ITS AFFILIATES, FOR THE MATERIALS DESCRIBED HEREIN. SAID SEAL OR CERTIFICATION IS LIMITED TO THE PRODUCTS DESIGNED AND MANUFACTURED BY MANUFACTURER ONLY. THE UNDERSIGNED ENGINEER IS NOT THE OVERALL ENGINEER OF RECORD FOR THIS PROJECT.





DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDA	TION
DESIGN	
4. THE METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE	
DESIGN OF THE ANCHOR BOLT DIAMETER ONLY 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 ANCHOR BOLT EMBEDMENT FOR TRANSFI	-D
OF FORCES TO THE FOUNDATION. THE METAL BUILDING	LK.
MANUFACTURED DOES NOT DESIGN AND IS NOT DESPRESSED TO	
MANUFACTURER DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR	JK
THE DESIGN, MATERIAL AND CONSTRUCTION OF THE FOUNDATION	
EMBEDMENTS. THE END USE CUSTOMER SHOULD ASSURE HIMSE	LF
THAT ADEQUATE PROVISIONS ARE MADE IN THE FOUNDATION	
DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE	
BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF	
THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE.	
IT IS RECOMMENDED THAT THE ANCHORAGE AND FOUNDATION OF	-
THE BUILDING BE DESIGNED BY A REGISTERED PROFESSIONAL	
ENGINEER EXPERIENCED IN THE DESIGN OF SUCH STRUCTURES,	
(SECTION AS MEMA 2006 METAL BUILDING SYSTEMS MANUAL)	

	ENGINEER EXPERIENCED IN THE DESIGN OF SUCH STRUCTURES,
	(SECTION A3 MBMA 2006 METAL BUILDING SYSTEMS MANUAL)
	BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION." (UNLESS NOTED)
6.	ANCHOR RODS ARE ASTM F1554 GRADE 36 MATERIAL UNLESS NOTED OTHERWISE.

								_												
ENDWALI	L CC	LUMI	V:	ANCH	OR BOLTS	& BASE F	PLATES	RIGIE	) FRA	AME:	AA	ICHOR B	OLTS & BA	SE PLATES						
Frm Col Line Lin		Anc., Qty	_Bolt Dia	Base_ Widlh	Plate (in) Length	Thick	Grout (in)	Frm Line	Col Line	Anc.	_Bolt Dia	Base Width	_Plate (in) Length	Thick	Grout (in)					
1 C	3	4 4 4	0.625 0.625 0.625	6.000 6.000	8.000 8.000 8.000	0,375 0.375 0.375	0.0 0.0 0.0	4 4	C A	4 4	0.750 0.750	6.000 6.000	9.500 9.500	0.375 0.375	0.0					
5 A 5 B 5 C	3	4 4 4	0.625 0.625 0.625	6.000 6.000 6.000	8.000 8.000 8.000	0.375 0.375 0.375	0.0 0.0 0.0	ENDV		COLUM				UMN REACTI	. ,					
			NCHO	R BOLT	SUMMAF	RY	Proi	Frm Line 1 1	Col Line C B A	Dead Vert 0.4 1.0 0.4	Col Ver 0.4 1.1 0.4	t .	Live Vert 1.7 5.1 1.7	Snow Vert 2.3 7.1 2.4	₩ind_L Horz 0.0 1.4 0.0	eft1 Vert -2.3 -8.3 -1.1	Wind_R Horz 0.0 0.0 2.2	Right1 Vert -1.5 -2.4 -3.3	Wind_L Horz 0.0 1.6 0.0	eft2 Vert -0.9 -4.4 0.3
BI		8	Qty 0 8 0 24 1 24	Jamb Endwall Frame	(in) 5/8" 5/8" 3/4"	F1554 F1554 F1554 F1554	2.00 2.00 2.50	Frm Line 1	Col Line C B	Wind Suct Horz 0.0 2.0	Win Hor 0.0 0.0	-1 -4	ert Ho .7 0. .9 0.	0 -1.7 0 -4.9	Horz 0.0 1.4	s_Left Vert 0.0 -1.2	Horz 0.0 0.0	0.0 1.2	Horz 0.0 0.0	2.5 5.3
Loc		ine	Col Line B,A 4,5	Horz V	actions in predictions (k) Pert Hora	Seismic Z Vert	Panel_Shear (lb/ft) Wind Seis	Frm Line 5 5 5	Col Line A B C	Dead Vert 0.4 1.0 0.4	Coll Vert 0.4 1.1 0.4	at :	Live Vert 1.7 5.1 1.7	Snow Vert 2.4 7.1 2.3	Wind_Le Horz 2.2 0.0 0.0		1.4 Wind_R Horz 0.0 1.4 0.0	-1.2  ight1  Vert -1.1 -8.3 -2.3	0.0 Wind_Le Horz 2.0 0.0 0.0	1.0 eft2 Vert -1.9 1.5 -0.1
F_: R_ B_: *Se	.EW .SW ee RF	A 5 C reactio	A,B 5,4 ns table	2.8 Bracing, 2.7 for vertical plane of the	* 5.1 see EW re * 5.0 and e rigid fram	aclions ¢		Frm Line 5 5 5	Col Line A B C	Wind_P Horz 0.0 -2.8 0.0	ress Vert -2.3 0.0 -1.9	Win Horz 0.0 2.0 0.0	d_Suct Vert 2.3 0.0 1,9	Wind_L Horz 0.4 0.0 0.0	ong1 Vert -2.0 -4.9 -1.7	Wind_Lo Horz 0.4 0.0 0.0	ng2 Vert -2.0 -4.9 -1.7	Seis_L Horz 1.4 0.0 0.0	eft Vert -1.2 1.2 0.0	Seis_Righ Horz 0.0 1.4
								Frm Line 5	Col Line A	E2UNB_ Horz 0.0	_SL_L- Vert 2.5	E2UN Horz 0.0	IB_SL_R- Vert 1.0							

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN			TO			III DINIOO			Т
0	8/ 8/18	FOR ERECTOR INSTALLATION	ASR	BAM	GVR			101	KU 51	FFF RI	JILDINGS			
1	9/28/18	REV FOR ERECTOR INSTALLATION	GRK	AVS	GVR	1			1405 [	DENISON ST	REET			
									MARKHAN	M, ON L3R	5V2 CA			
						PROJECT:	DARRELL CAPUN	E T18-0110						
						CUSTOMER:	THE GOUR-MAR	T LTD		OWNER	: THE GOUR-MART LTD			1 2
						LOCATION:	PENTICTON, BC	V2A 8Y2 CA						0
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE	1
							9/28/18	N.T.S.	1.	A	16-B-63921	F2	1	



Press Horz 0.0 -2.8 -1.6

Wind Right2 Horz 0.0 0.0 2.0

Vert -0.1 1.5 -1.9

E1UNB\_SL\_R-Horz 0.0 0.0 0.0

Wind\_Right2

Vert 0.3 -4.4

-0.9

Horz -5.1 0.0 -5.1

Seis\_Long Vert

Horz 0.0 1.6

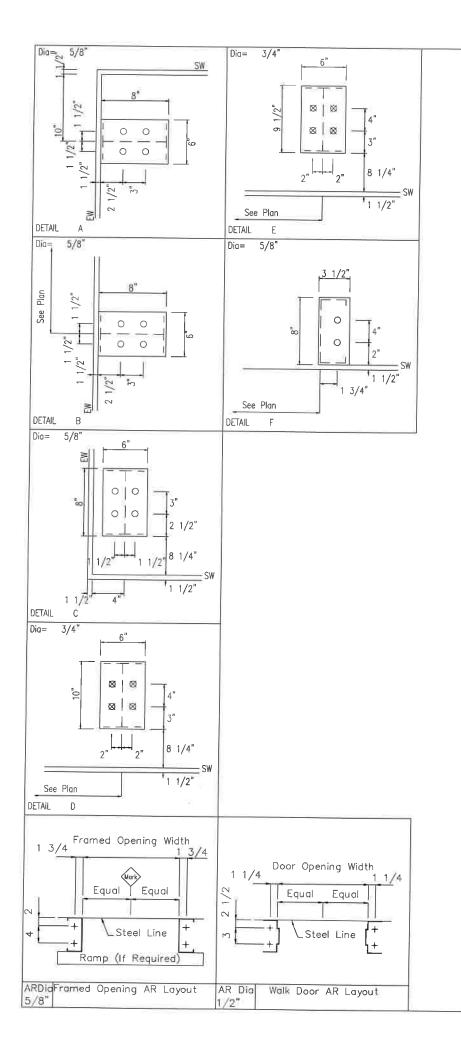
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Vert 1.1 -1.2 0.0

Seis\_Right

(4)

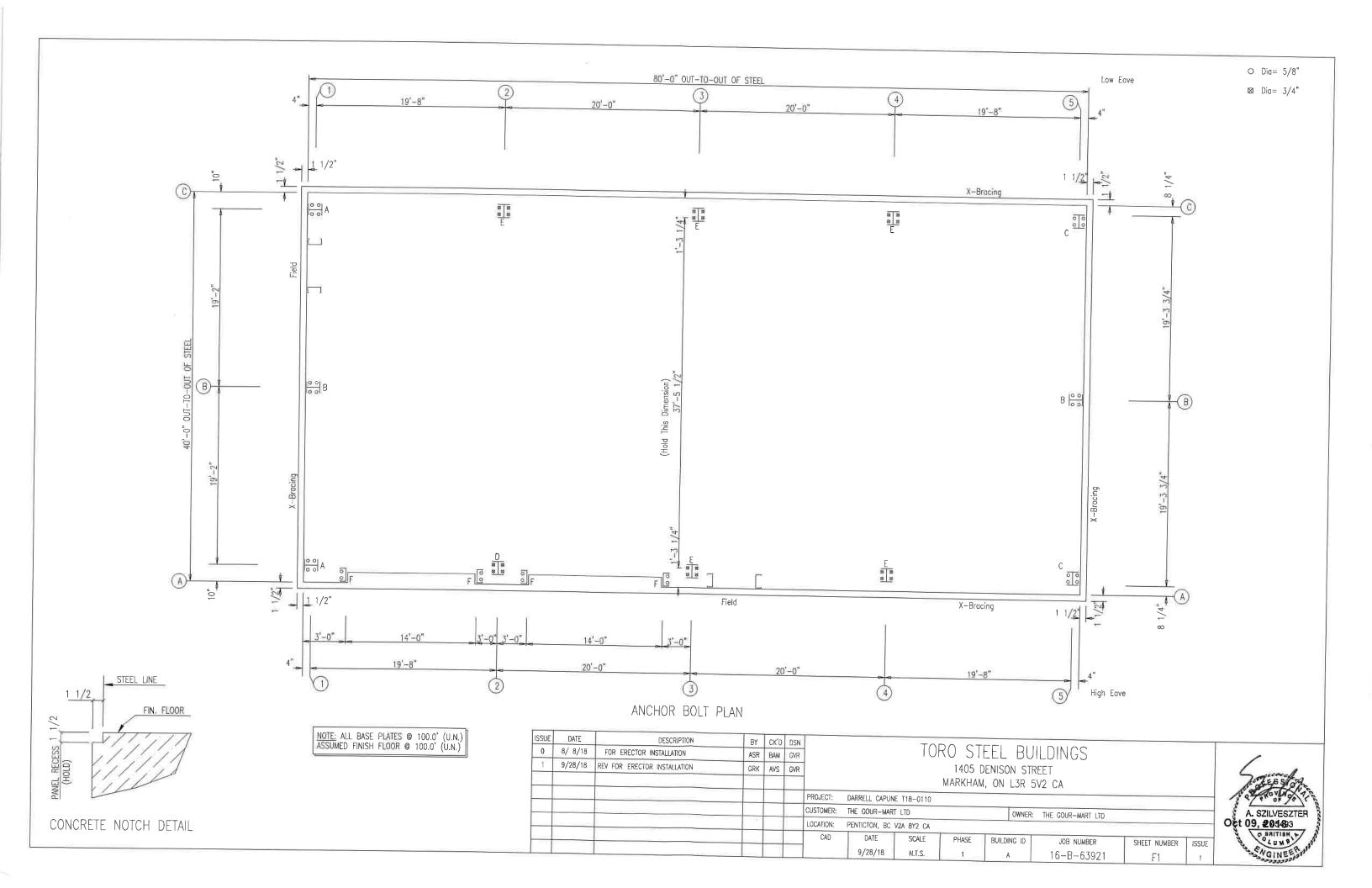
\_\_COLUMN LINE

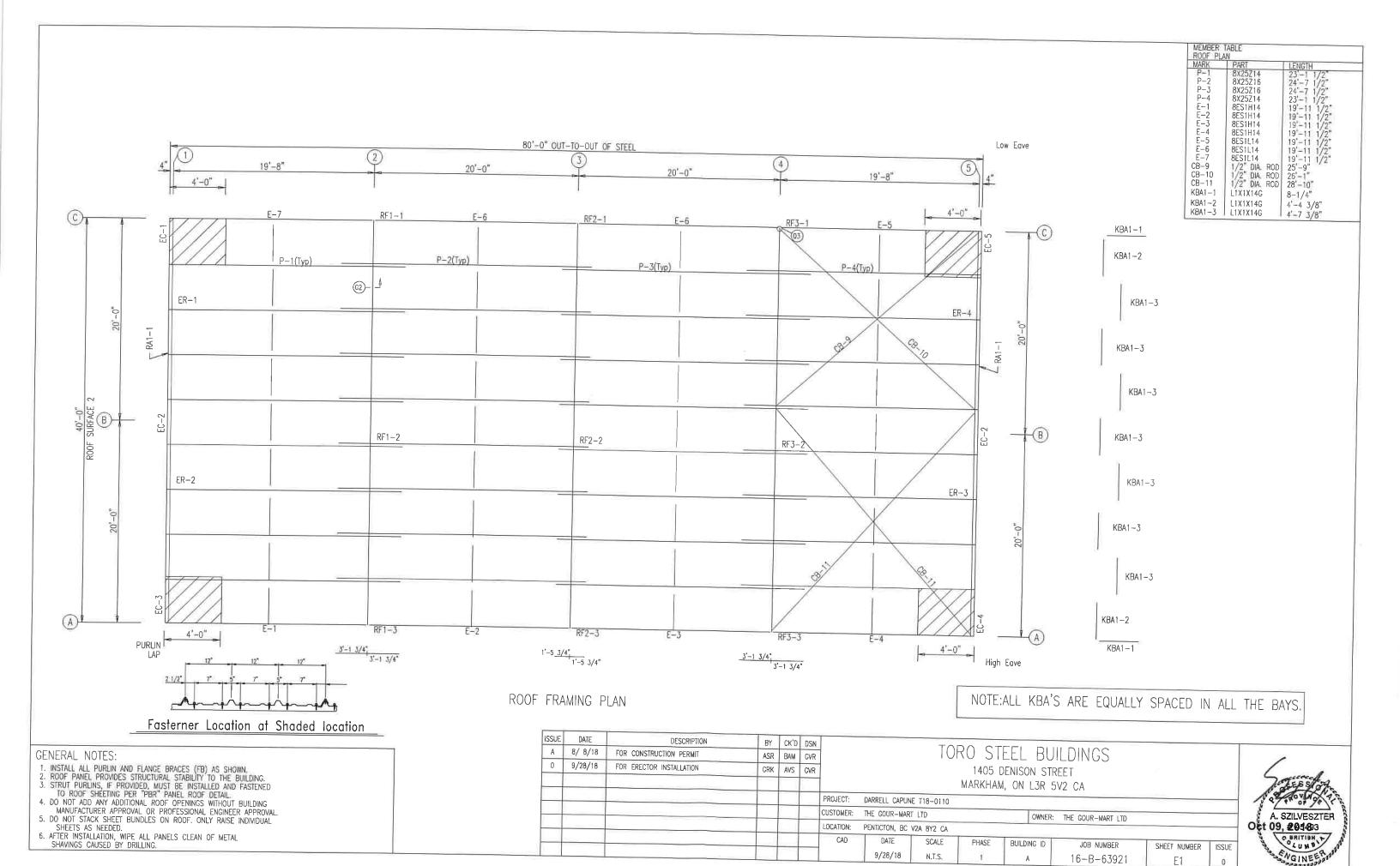


ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN								
0	8/ 8/18	FOR ERECTOR INSTALLATION	ASR	ВАМ	-	1			RO ST	EEL E	BUILDINGS		
1	9/28/18	REV FOR ERECTOR INSTALLATION	GRK	AVS	GVR					DENISON			
_									MARKHAN	A, ON L3F	R 5V2 CA		
-						PROJECT:	DARRELL CAPUN	E T18-0110					
-						CUSTOMER:	THE GOUR-MART	T LTD		OWI	NER: THE GOUR-MART LTD		
_						LOCATION:	PENTICTON, BC	V2A BY2 CA					_
+						CAD	DATE	SCALE	PHASE	BUILDING I	D JOB NUMBER	SHEET NUMBER	ISSUE
							9/28/18	N.T.S.	1 7	1 a	16-B-63921	F-7	

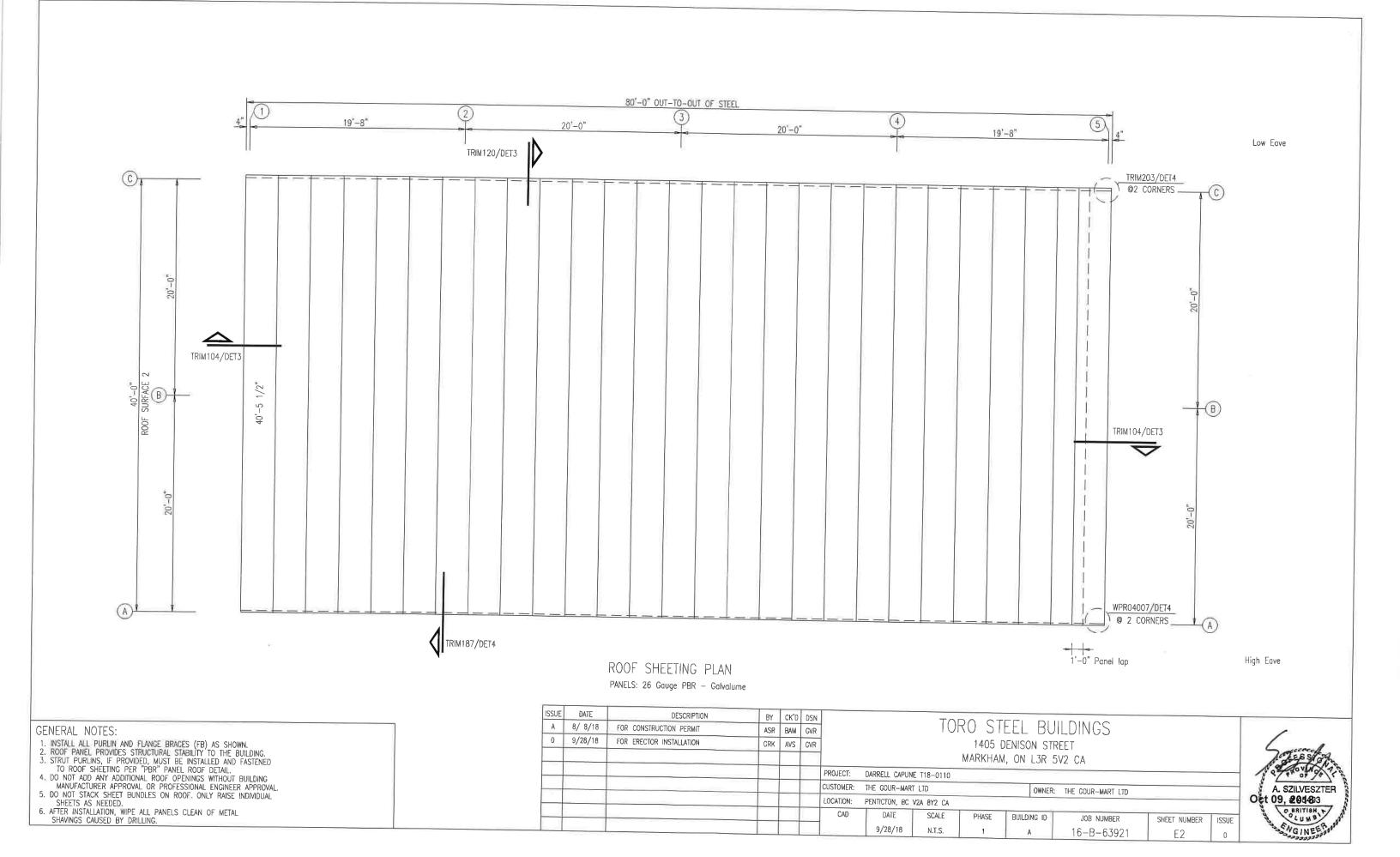


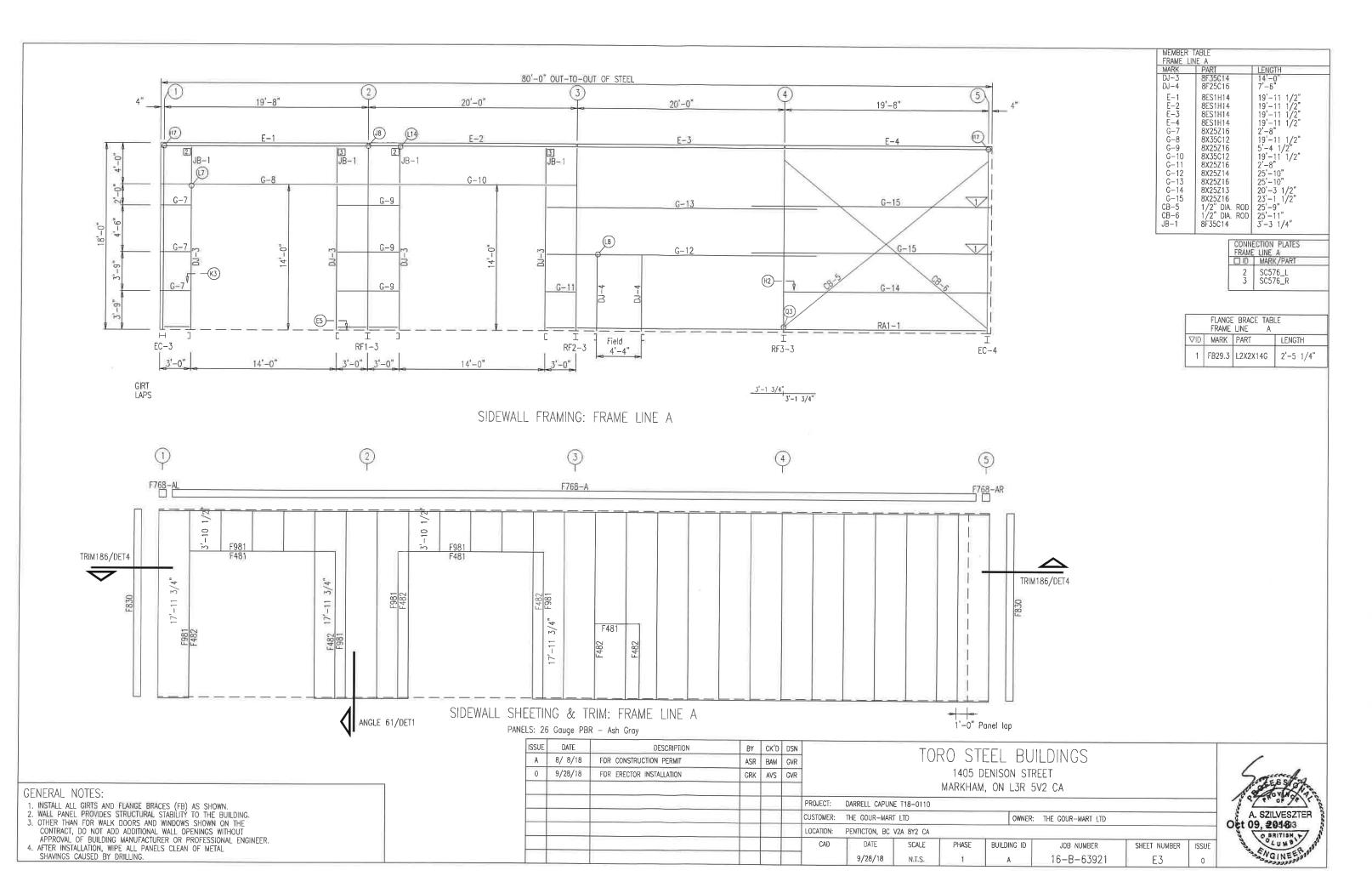
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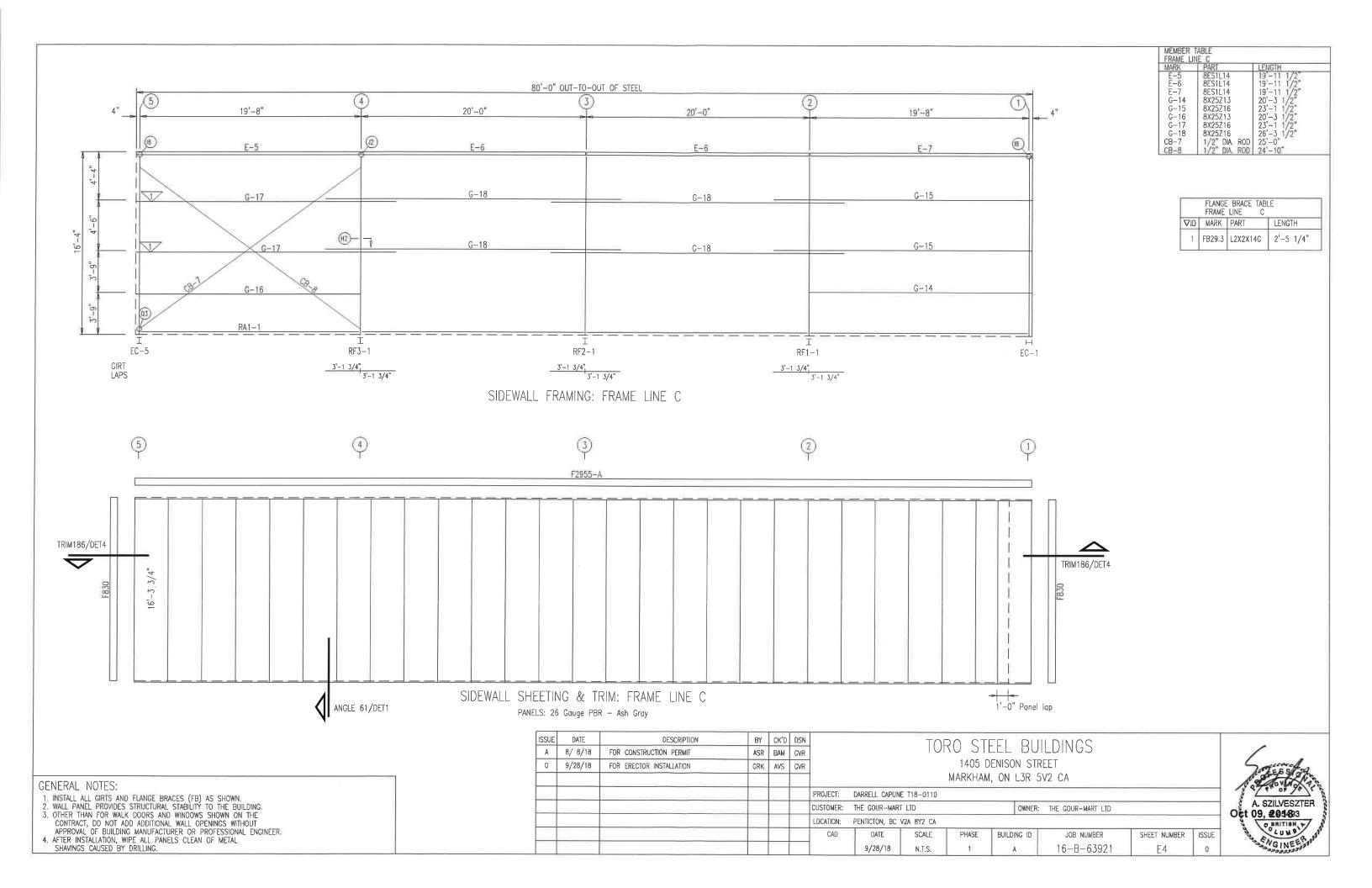


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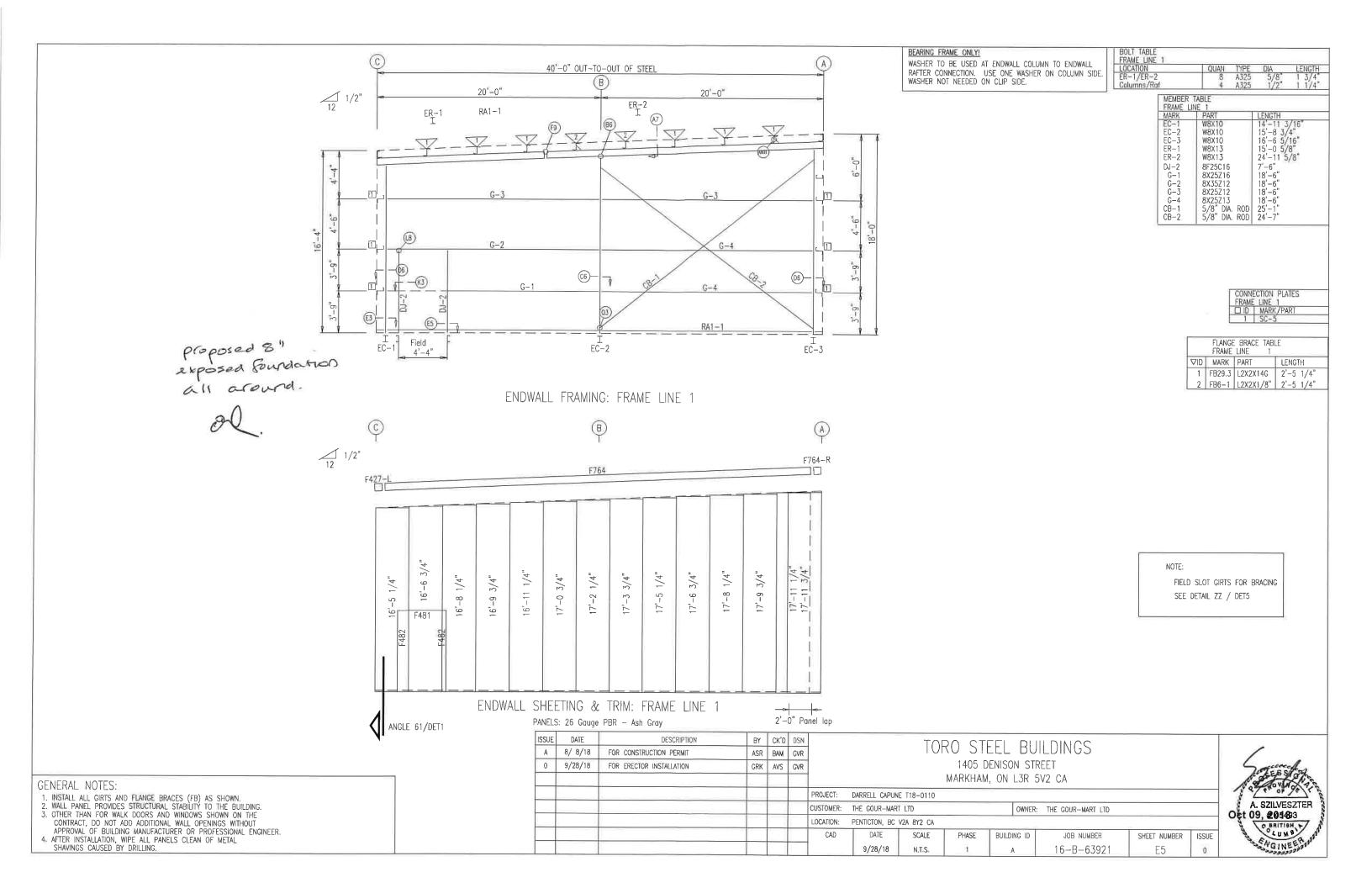




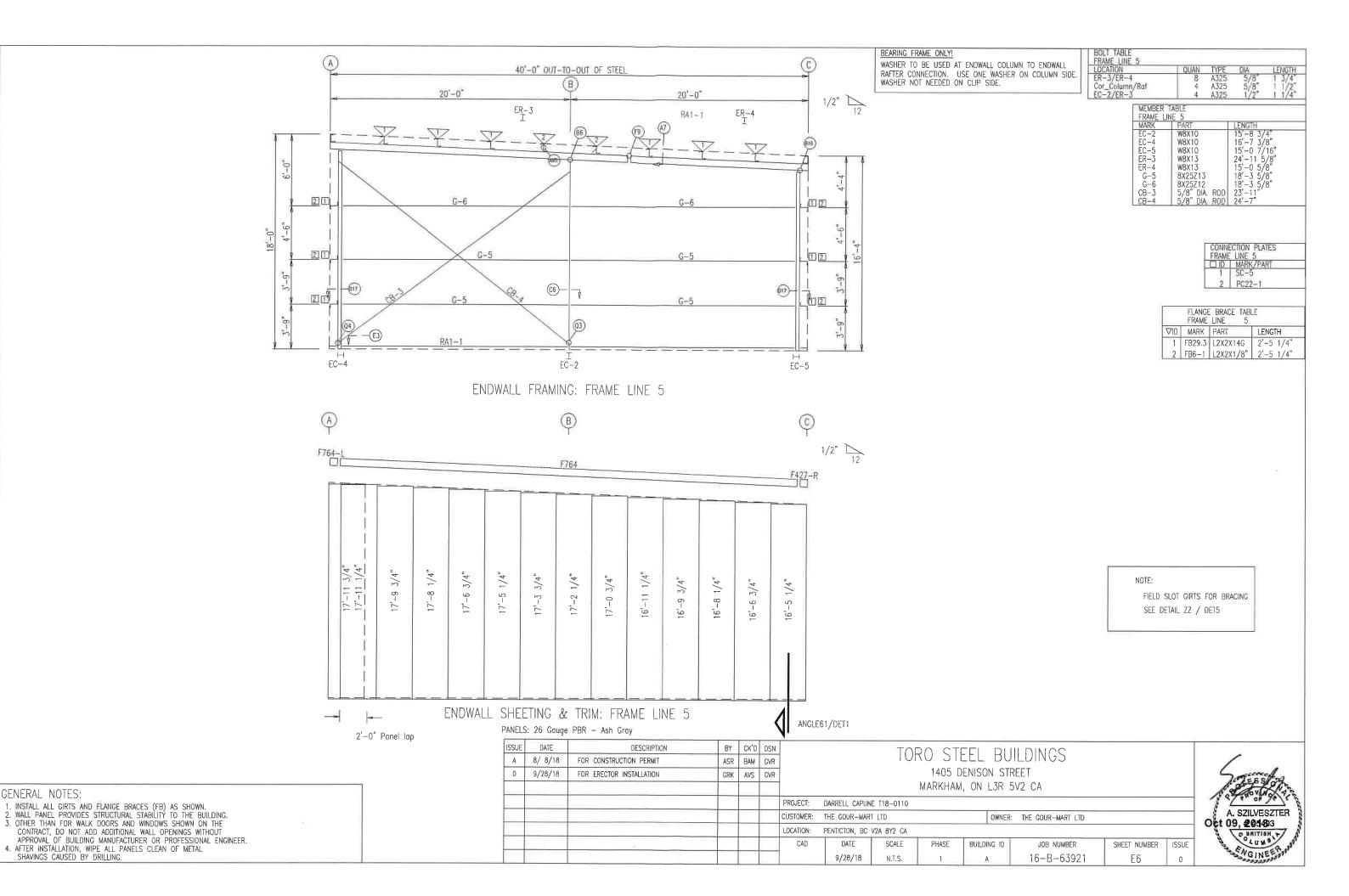
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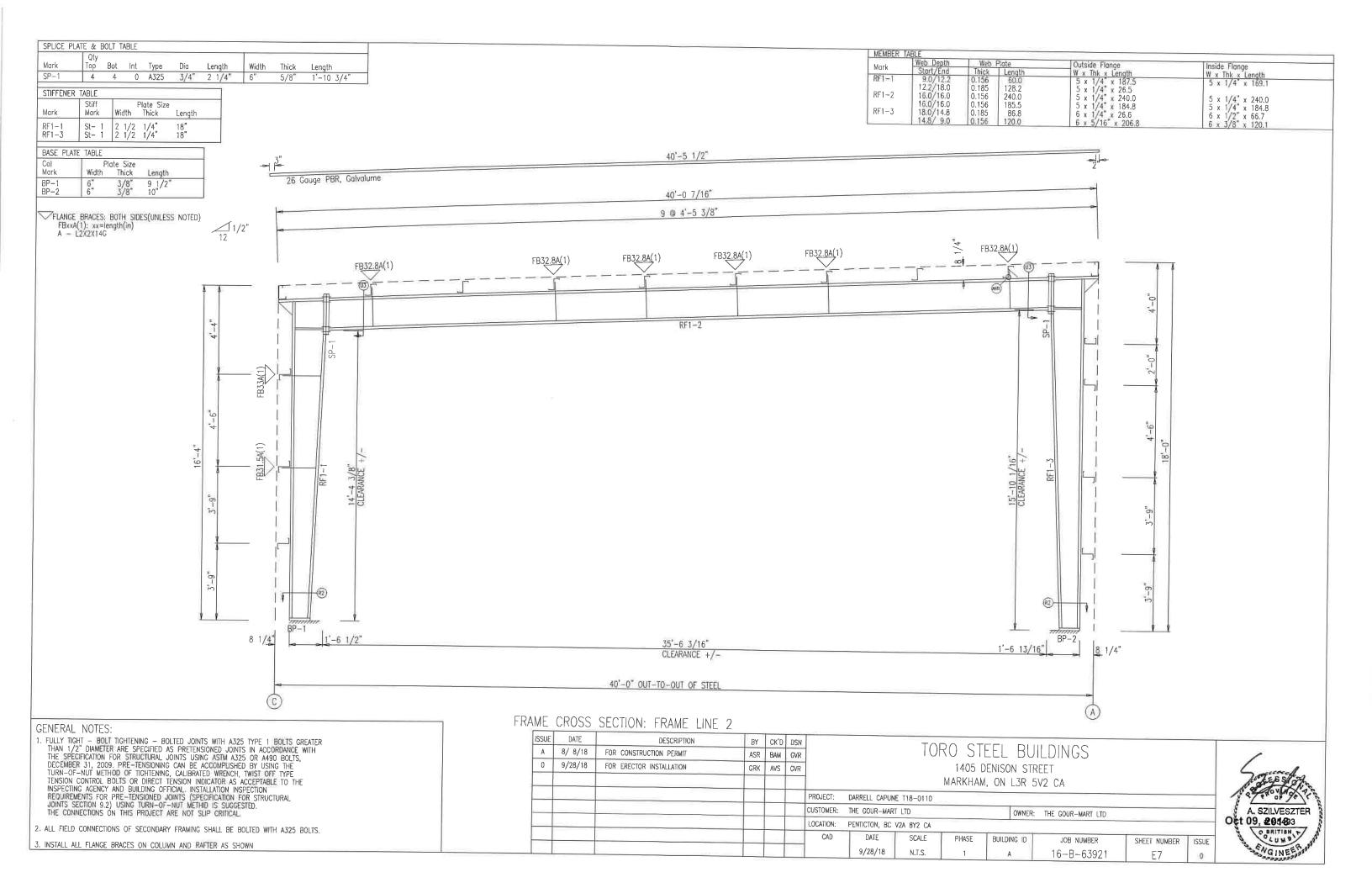


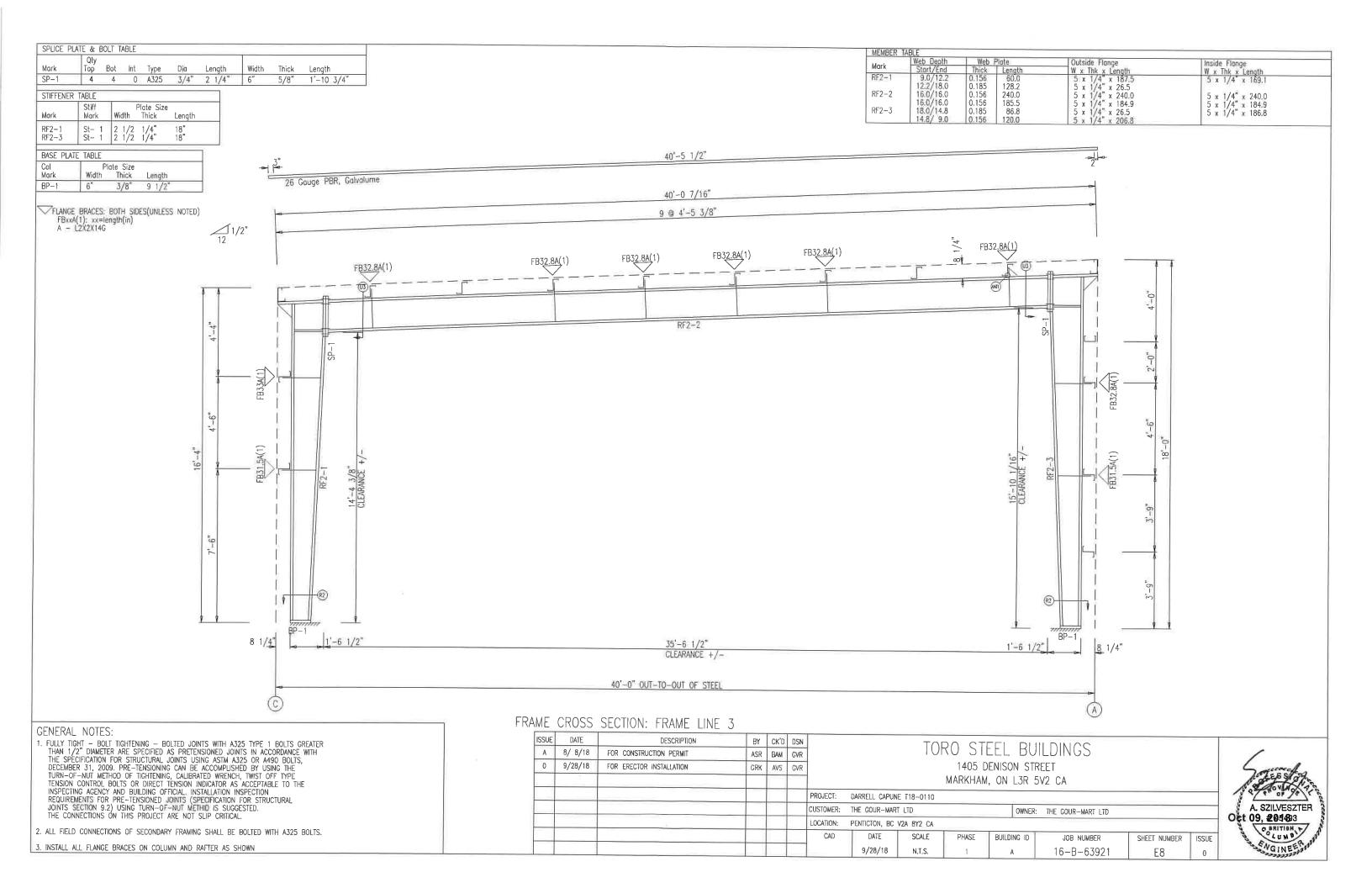
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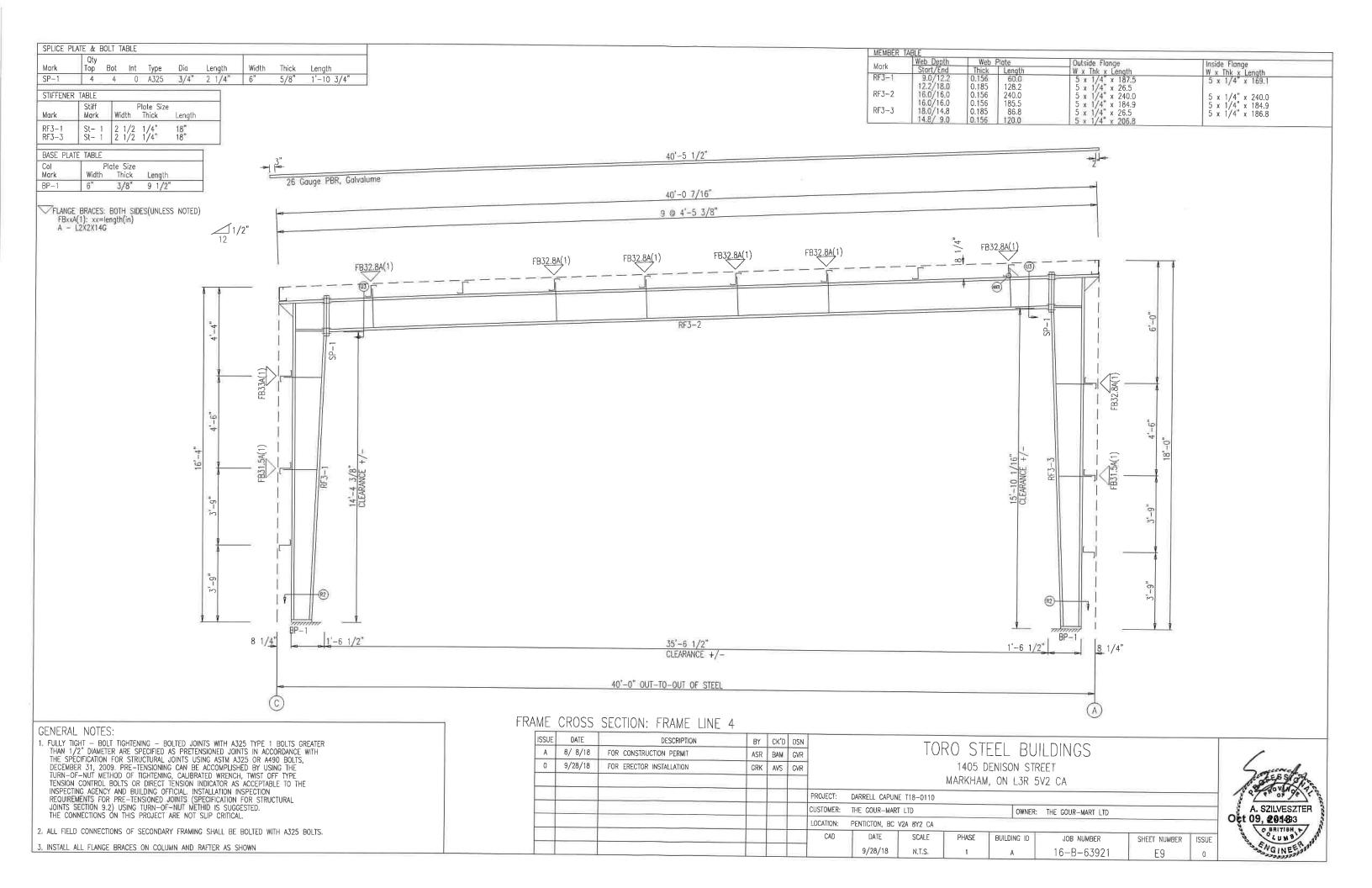
**GENERAL NOTES:** 

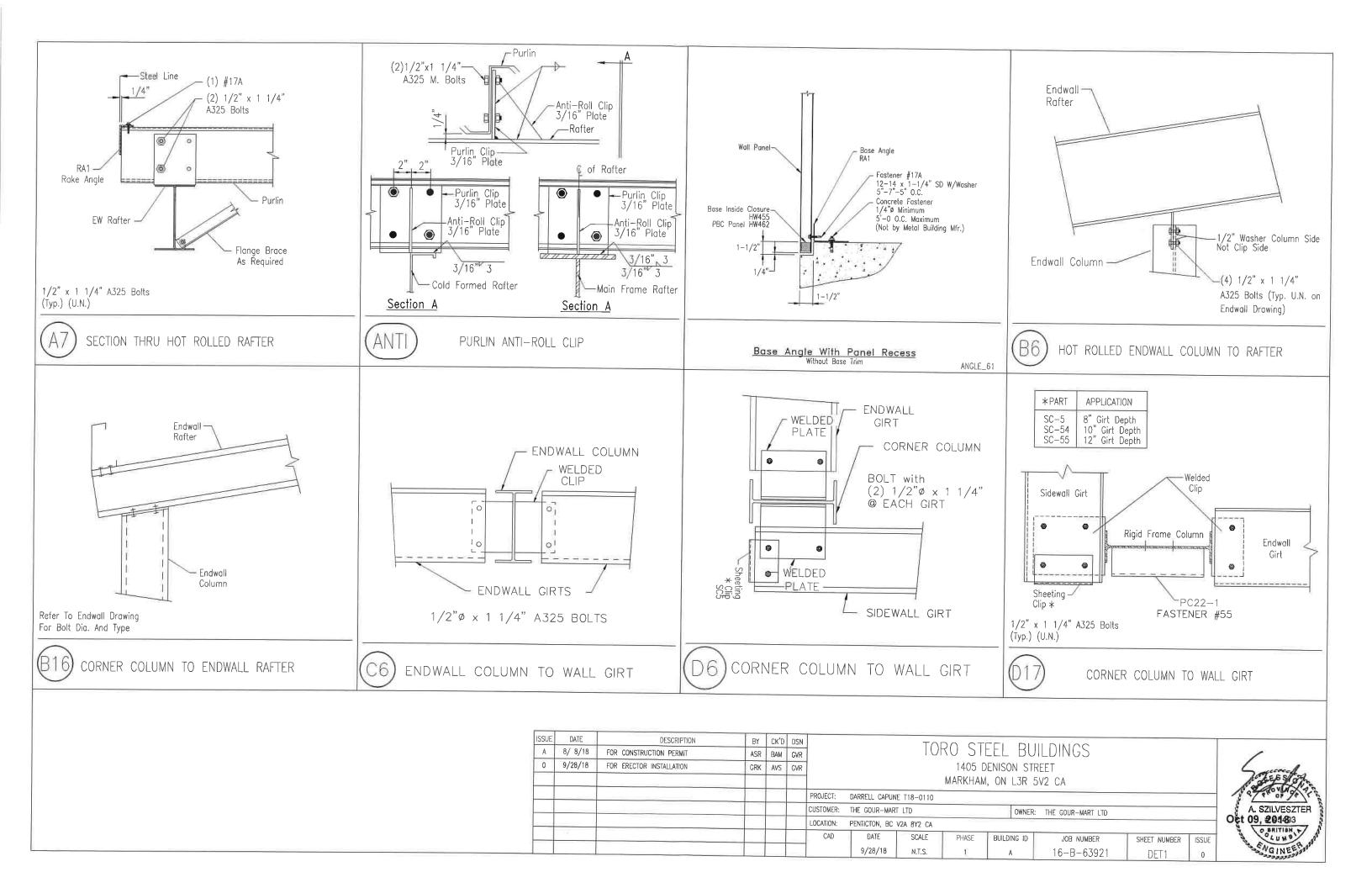
SHAVINGS CAUSED BY DRILLING.



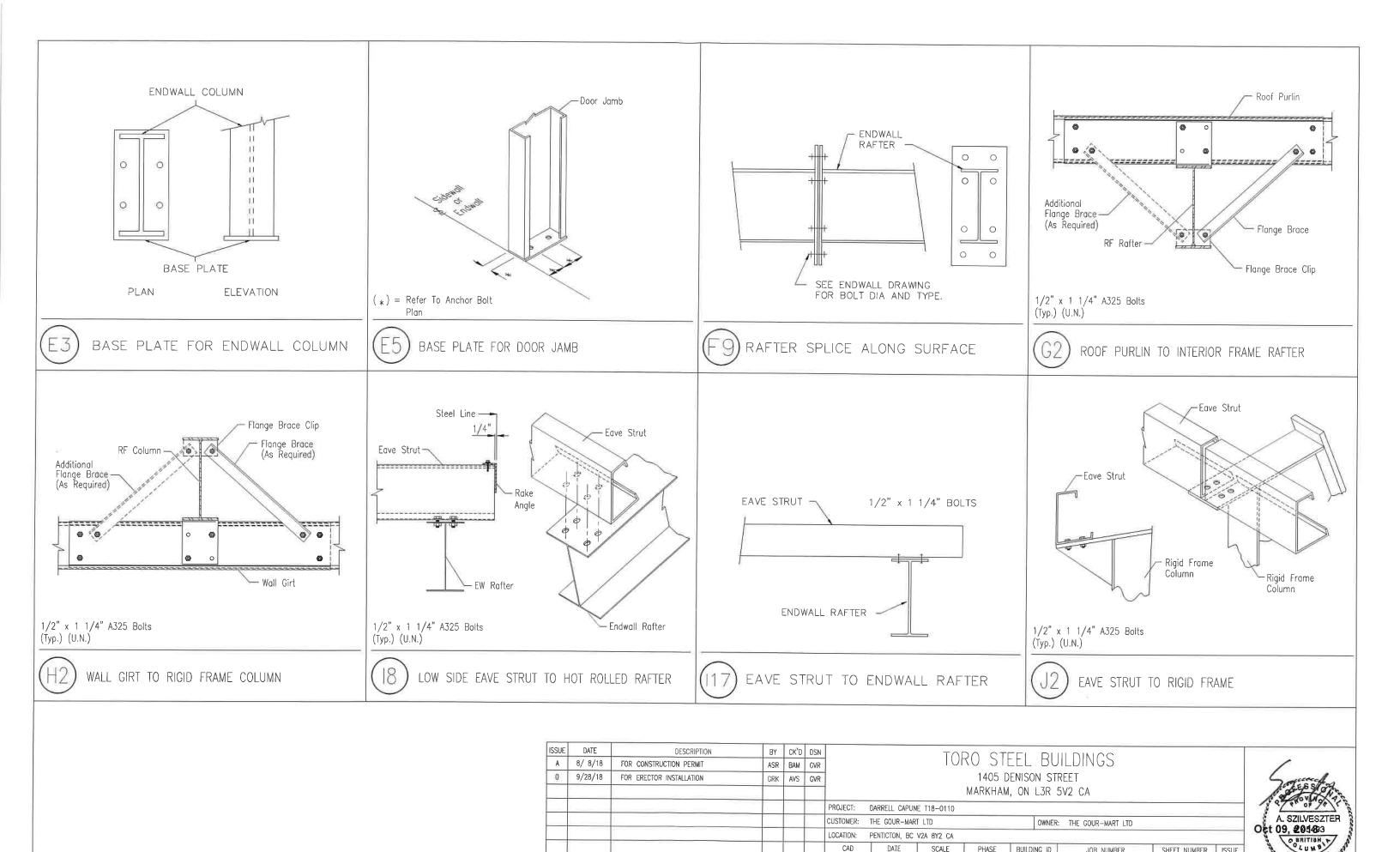


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7 <del>4</del>	









CAD

DATE

9/28/18

SCALE

N.T.S.

PHASE

BUILDING ID

JOB NUMBER

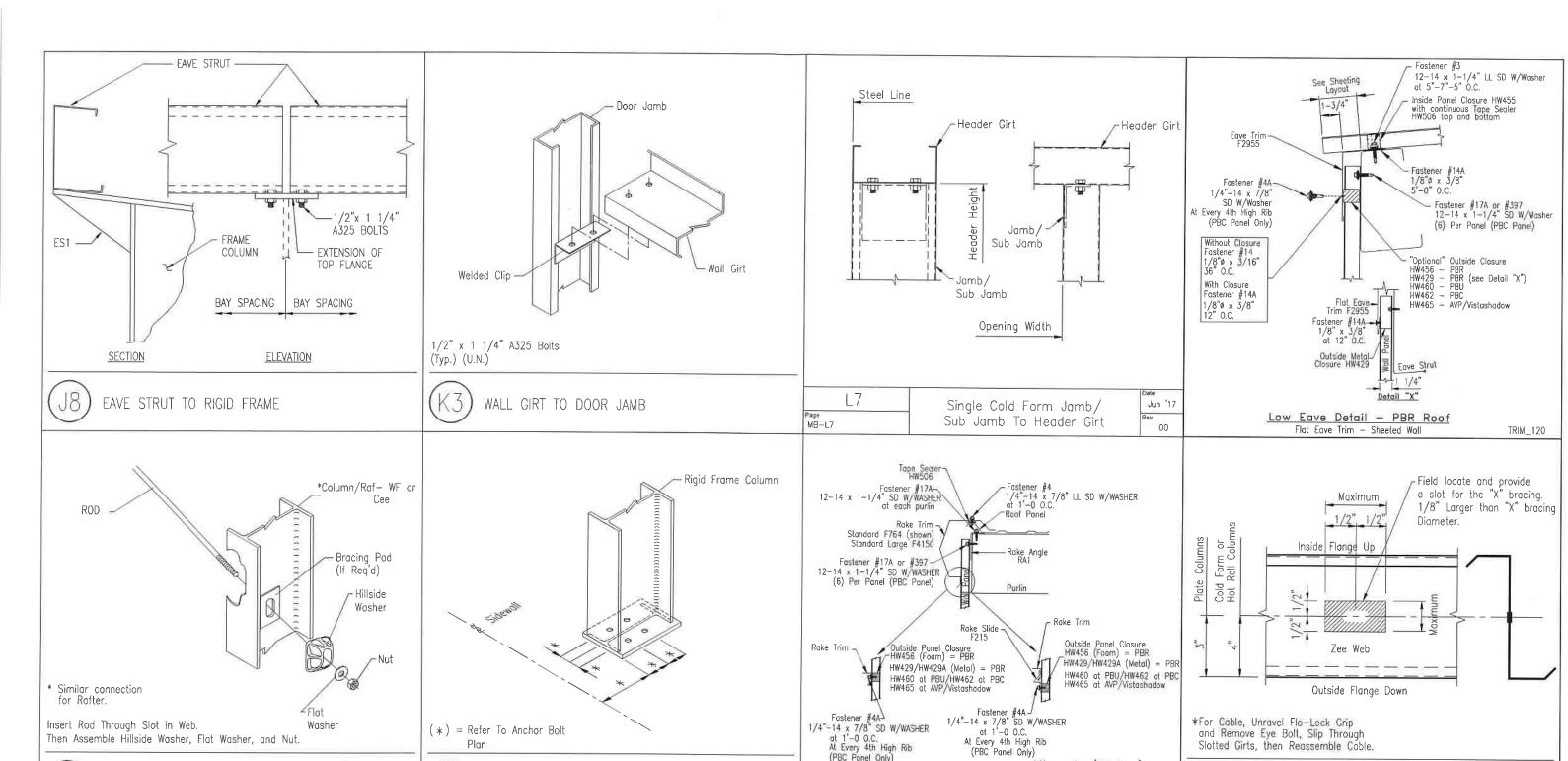
16-B-63921

SHEET NUMBER

DET2

ISSUE

VGINE



at 1'-0 O.C. At Every 4th High Rib

Standard (Fixed)
For roof runs 100' or less

(PBC Panel Only)

Q3) DIAGONAL ROD	(R2) anchor bolts at side	EWALL	COLUM	INS For		Ral	e Detail -	Far roof runs greater than  - PBR Roof  irge Rake Trim - Sheeted Wall TF
						1		
		ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN	TODO
		Α	8/ 8/18	FOR CONSTRUCTION PERMIT	ASR	BAM	GVR	TORO
		0	9/28/18	FOR ERECTOR INSTALLATION	GRK	AVS	GVR	14
						+	-	1110

Plan

Then Assemble Hillside Washer, Flat Washer, and Nut.

ISSUE	DATE	DESCRIPTION	BY	CK*D	DSN			TOI						
Α	8/ 8/18	FOR CONSTRUCTION PERMIT	ASR	BAM	GVR			101	70 211	TEL BL	JILDINGS			
0	9/28/18	FOR ERECTOR INSTALLATION	GRK	AVS	GVR		1405 DENISON STREET							
									MARKHAM	, ON L3R	5V2 CA			
						PROJECT:	DARRELL CAPUNI	E T18-0110						
						CUSTOMER:	THE GOUR-MART	LTD		OWNER	: THE GOUR-MART LTD			
						LOCATION:	PENTICTON, BC	V2A 8Y2 CA						,
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE	1
							9/28/18	N.T.S.	1	A	16-B-63921	DET3	0	

Alternate (Sliding)

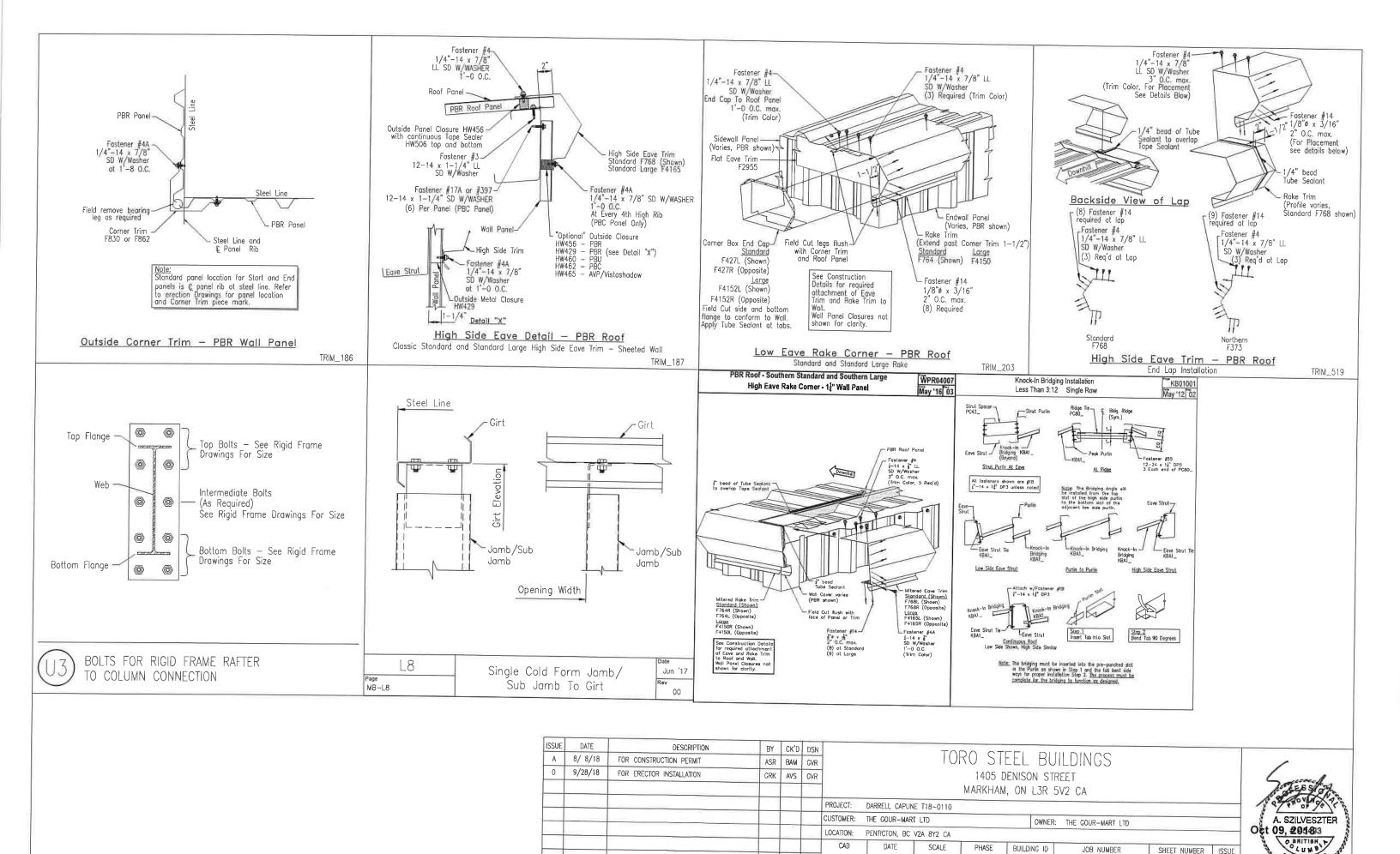
For roof runs greater than 100

TRIM\_104



CABLE AT FLUSH WALL GIRT

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SCALE

N.T.S.

9/28/18

PHASE

BUILDING ID

JOB NUMBER

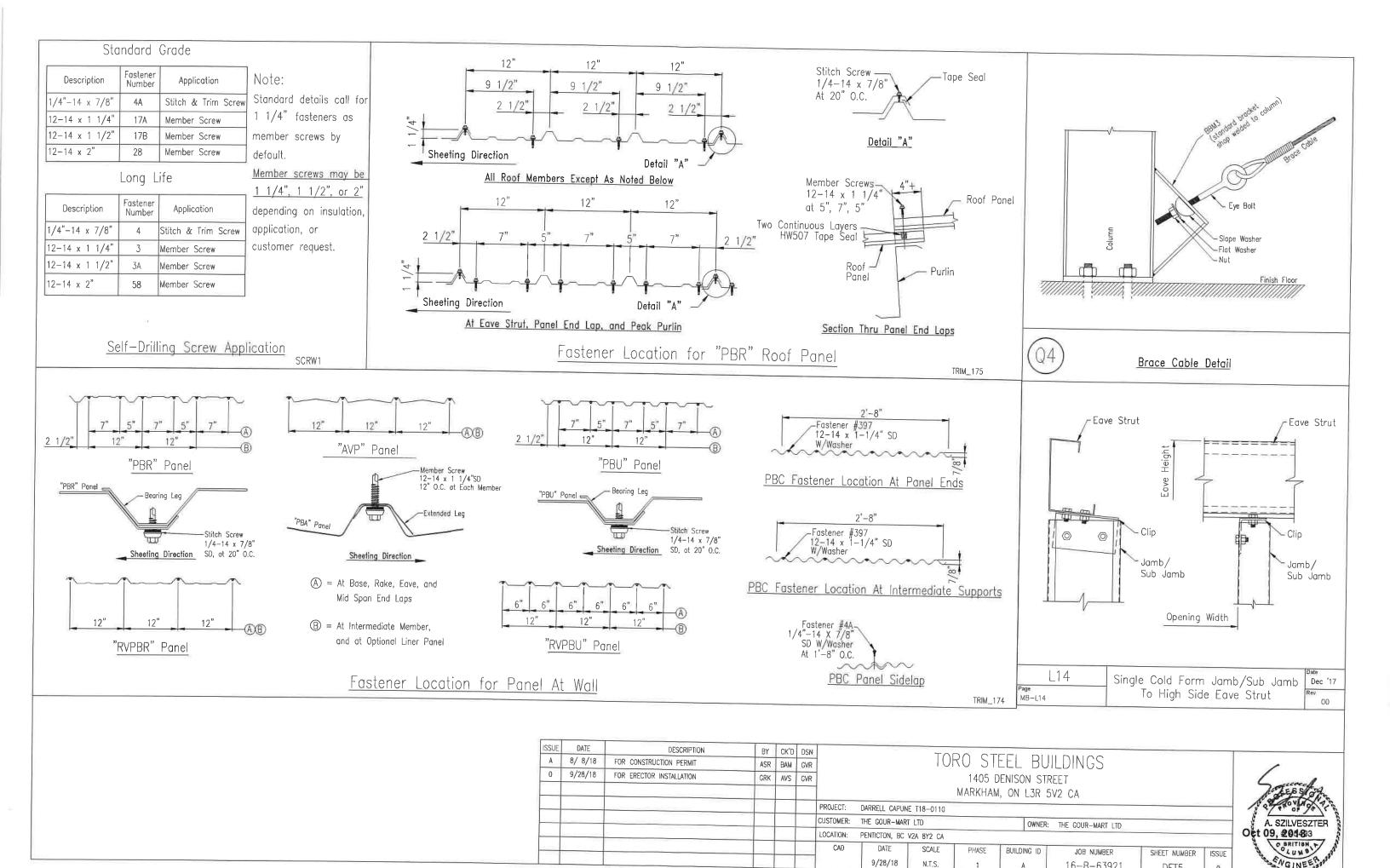
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SHEET NUMBER

DET4

ISSUE

VGINEE

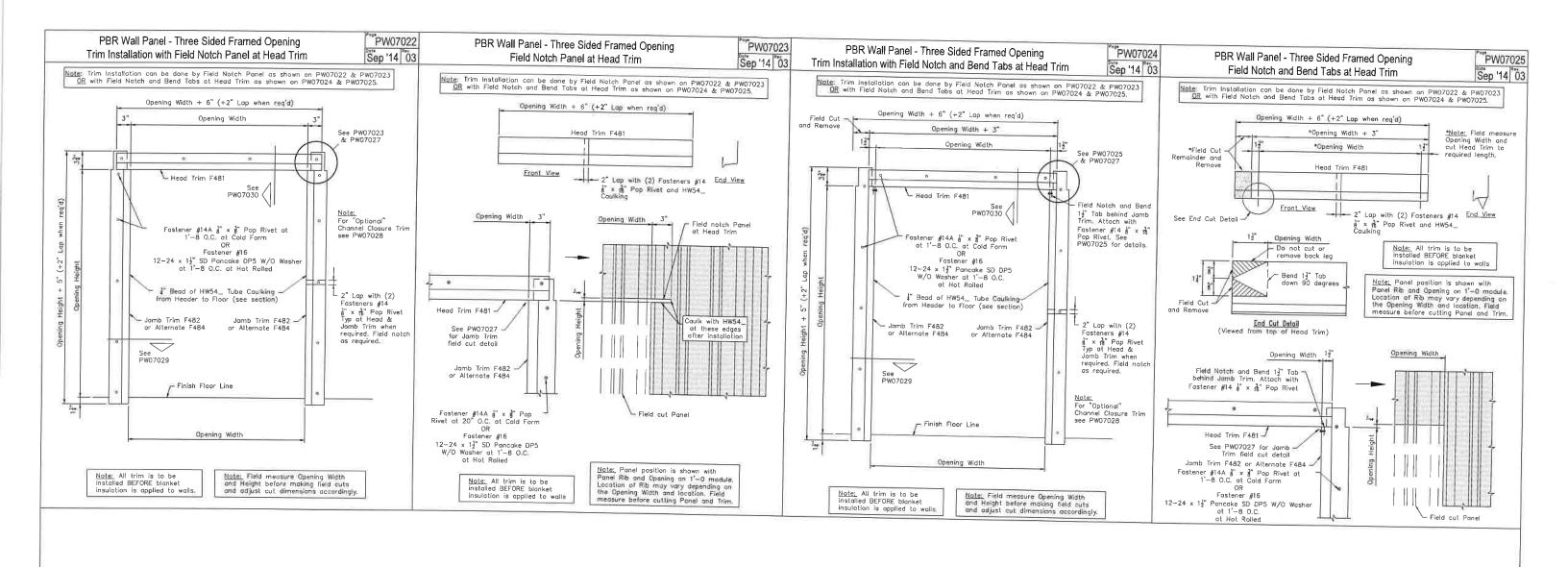


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16-B-63921

DET5

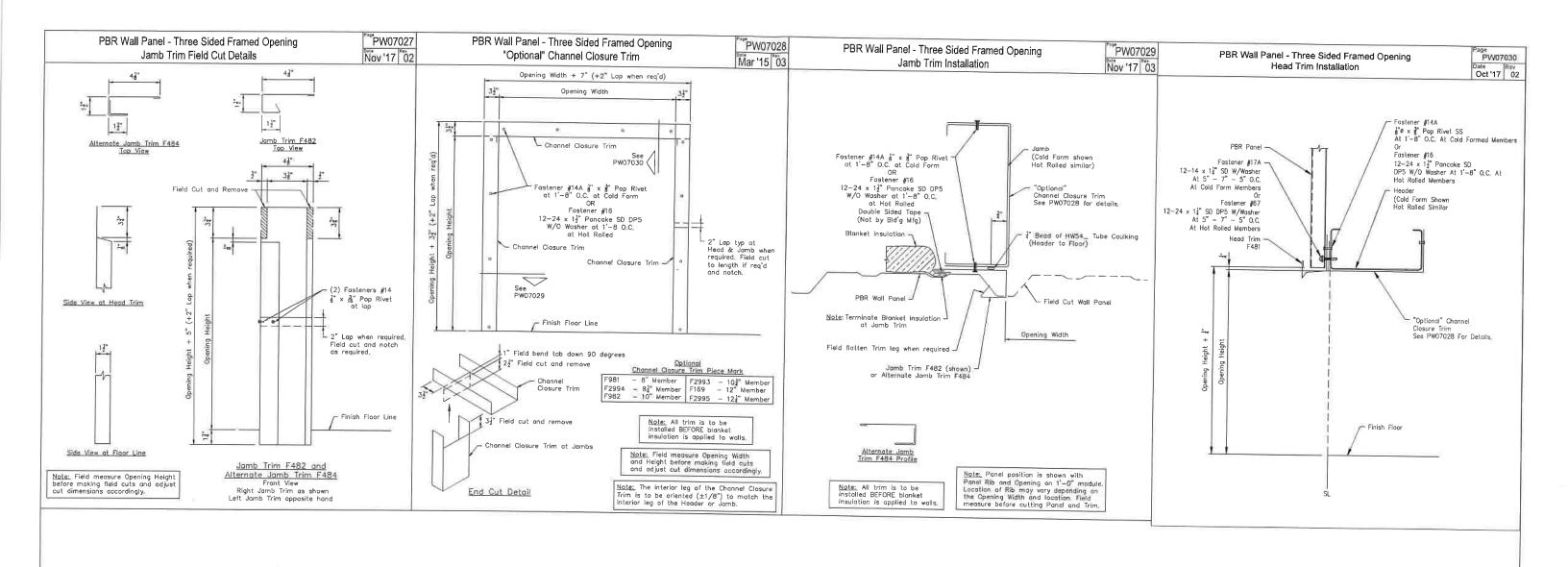
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ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN			Τ.Ο.	D 0 0 7					_
A	8/ 8/18	FOR CONSTRUCTION PERMIT	ASR	BAM	GVR	1		10	RO ST	EEL BU	JILDINGS			1
0	9/28/18	FOR ERECTOR INSTALLATION	GRK	AVS	GVR	1	1405 DENISON STREET							
										M, ON L3R				1
			PROJECT: DARRELL CAPUNE T18-0110								1			
					CUSTOMER: THE GOUR-MART LTD OWNER: THE					R: THE GOUR-MART LTD	THE GOUR-MART LTD			
-						LOCATION:	PENTICTON, BC	/2A 8Y2 CA					_	(
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE	1
							9/28/18	N.T₊S.	1	A	16-B-63921	DET6	0	

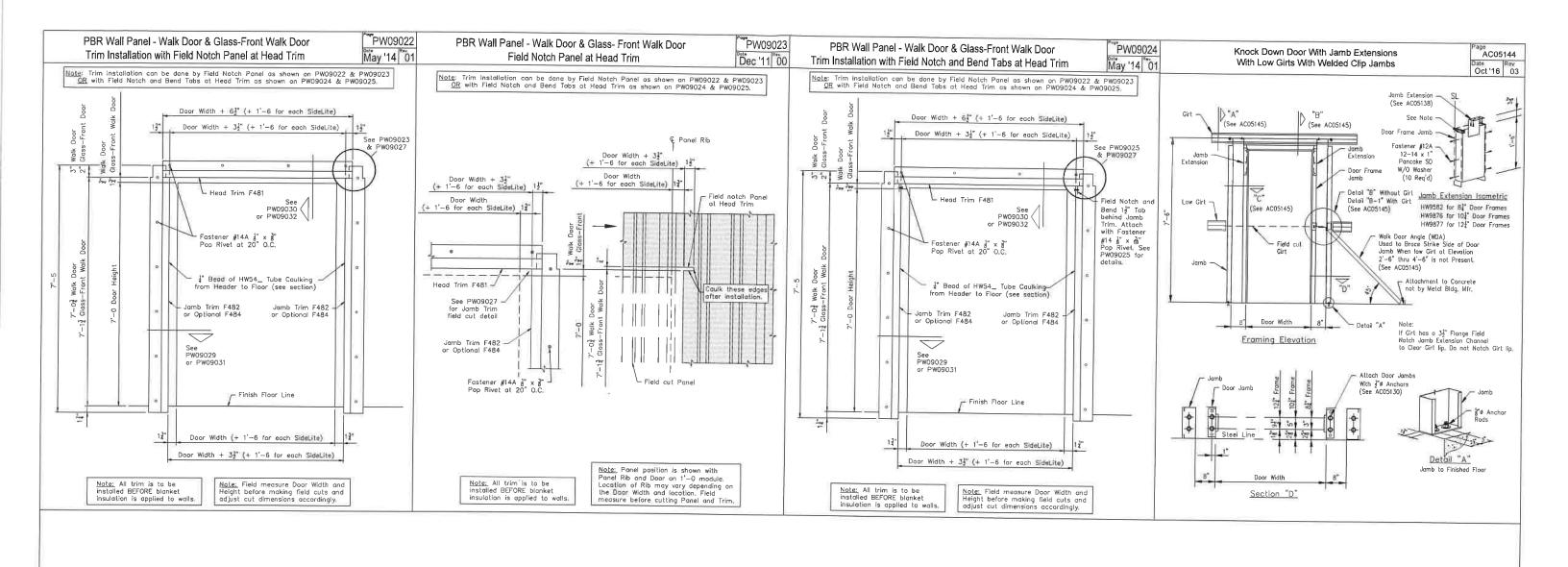


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ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN			TO	DO 07					
Α	8/ 8/18	FOR CONSTRUCTION PERMIT	ASR	BAM	GVR	1		10	RU ST	FFF BA	ILDINGS			
0	9/28/18	FOR ERECTOR INSTALLATION	GRK	AVS	GVR	1			1405	DENISON ST	REET			
						MARKHAM, ON L3R 5V2 CA								
						PROJECT:	DARRELL CAPUN	E T18-0110						1
						CUSTOMER:	CUSTOMER: THE GOUR-MART LTD OWNER: THE GOUR-MART LTD							
_				LOCATION: PENTICTON, BC V2A 8Y2 CA										
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE	
							9/28/18	N.T.S.	1	Α	16-B-63921	DFT7	n	

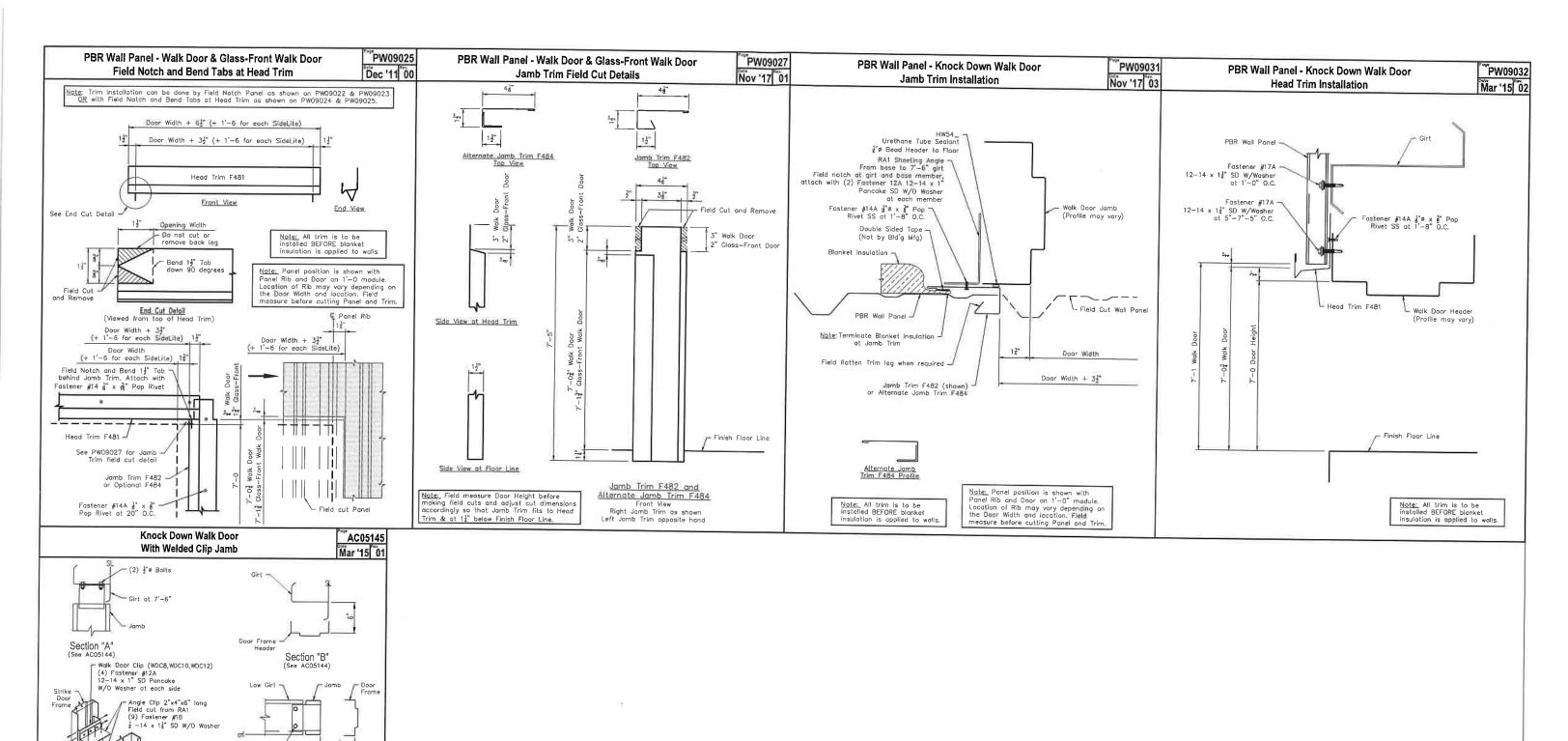




ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN			TOI						
A	8/ 8/18	FOR CONSTRUCTION PERMIT	ASR	BAM	GVR	TORO STEEL BUILDINGS								
0	9/28/18	FOR ERECTOR INSTALLATION	GRK	AVS	GVR	1	1405 DENISON STREET							
											R 5V2 CA			
						PROJECT:	DARRELL CAPUN	E T18-0110						
						CUSTOMER:	STOMER: THE GOUR-MART LTD OWNER: THE GOUR-MART LTD							
						LOCATION:	PENTICTON, BC	V2A 8Y2 CA						
						CAD	DATE	SCALE	PHASE	BUILDING I	JOB NUMBER	SHEET NUMBER	ISSUE	
							9/28/18	N.T.S.	1	A	16-B-63921	DET8	0	



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(2) 1 9 Bolts

Walk Door Angle WDA
Used to brace Strike Door Frame
when low girt at elevation 2'-6" thru 4'-6"
is not present.
Field cut and bend.

Note: When Flush/1" Inset Column is less than 3'-6" from Jamb see ACO5154

1-14 x 11" SD W/O Washer

= Angle Clip 2"x4"x6" long Field cut from RA1 (9) Fastener #1B \$\frac{1}{4} -14 \times 1\frac{1}{4}" SD W/O Washer

Detail "B"

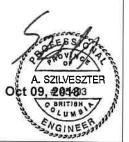
Walk Door Clip

(WDC8,WDC10,WDC12) (4) Fastener ∦12A 12-14 × 1″SD Pancake W/O Washer at each side Section "C"

Note: When Flush/1" Inset Column is 2'-4" or less from Jamb see AC05152 / AC05153

STANDARD WALK DOOR (KNOCK DOWN) WITH PBR WALL PANELS

ISSUE	DATE	DESCRIPTION	BY	CK*D	DSN			TO						Т
Α	8/ 8/18	FOR CONSTRUCTION PERMIT	ASR	ВАМ	GVR			101	KO ST	FFF Br	JILDINGS			
0	9/28/18	FOR ERECTOR INSTALLATION	GRK	AVS	GVR	1			1405 [	DENISON ST	REET			1
									MARKHAM	M, ON L3R	5V2 CA			
						PROJECT:	DARRELL CAPUN	E T18-0110						1
-						CUSTOMER:			1					
-						LOCATION:	PENTICTON, BC	V2A 8Y2 CA						1
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE	1
							9/28/18	N.T.S.	1	A	16-B-63921	DET9	0	



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## Field Service Procedures

In Order To Give You Prompt Services And Keep Problems To A Minimum,

In Order to Give You Prompt Services and Keep Problems in A Minimum.

Please Handle Any Shortdays Or Back Charges in The Following Monner:

1. Carefully Check Your Pocking List White Unloading.

2. Mark Any Hems Whitch Appear To Be Missing And Notify The Field Service Department At The Number Shown in The Title Block As Soon As Possible, Calling Someone Else Could Delay The Proper Response.

INITIAL CLAIM:
In The Event Of An Error, The Customer Must Promptly Make A Written Or Verbal "Initial Claim" to The Manufacturer For The Correction Of Design Drafting Bill O

- "initial Claim" Includes:

  1. Description Of The Nature And Extent Of The Errors, Including Quantities,

  2. Description Of The Nature And Extent Of Proposed Corrective Work,
- Including Estimated Man-Hours.

  3. Materials To Be Purchased From Other Than the Manufacturer, Including
- Switzerias to enurchased Promitter from the Manufacturer, including Estimated Quantities and Cost.
   Maximum Total Cost Of Proposed Corrective Work And Materials To Be Purchased From Other Than The Manufacturer,

SHORT MATERIALS: Immediately Upon Delivery Of Materials, Quantities Are To Be Verified By The Customer Against Quantities That Are Billed On The Shipping Documents. Neither The Manufocturer Nor The Carrier is Responsible For Material Shortoges Against The Quantities Billed On The Shipping Documents If Such Shortages Are Not Moted On The Shipping Documents When The Material is Delivered And Acknowledged By The Corrier's Agent, If The Corrier Is The Manufacturer, Claims For Shortages Are To Be Made By The Customer To The Common Corrier, If The Material Quantities Received Are Correct According To The Quantities Billed On The Shipping Documents, But Are Less Than The Quantities Ordered Or The Quantities That Are Necessary To Complete The Metal Building According To The Order Documents, Claim is To Be Made To The Manufacture

DAMAGED OR DEFECTIVE MATERIAL.

Damaged Or Defective Material, Regardless Of The Degree Of Damage, Must be Noted On The Shipping Documents By The Costomer And Acknowledged By The Carrier's Agent. The Manufacturer is Not Responsible For Material Damaged in Unloading Of Packages Or Nested Materials, Including, But Not Limited To: Fasteners, Sheet Metal, "C" And "Z" Sections And Covering Panels That Become Wet And/Or Damoged By Water While In The Possessien Of Others. Packaged Or Nested Material That Become Wet In Transit Must Be Unpocked, Unstacked And Dried By The Customer. If The Carrier is The Manufacturer, The Customer Must Make Claim For Damaged Directly To The Manufacturer. If The Carrier Must Make Claim For Damage To The Common Carrier, The Customer Must Make The Claim For Damage To The Common Carrier. The Manufacturer is Not Liable For Any Claim Whatsoever From Customer's Use Of Damaged Or Defective Materials That Can Be Detected By Visual Inspection.

The Monufacturer Reserves The Right To Recover Any Material Delivered In Excess Of Those Required By The Order Documents.

OIL CANNING IS NOT A CAUSE FOR REJECTION

## Authorization For Corrective Work

Normal Erection Operations Include The Correction Of Minor Misfits By Amounts Of Reaming, Chipping, Welding Or Cutting And The Drawing Of Elements Into Line Through The Use Of Drift Pins Errors That Cannot Be Carrected By The Foregoing Means Or Which Require Major Changes In The Member Configuration Should Be Reported Immediately To The Owner And The Fabricator By The Erector, To Enable Whoever Is Responsible Either To Correct The Error Or Approve The Most Efficient And Economical Method Of Correction To Be Used By Others (AISC 303-10) Section 7.14). If The Error is The Fault Of The Manufacturer An "Authorization For Corrective Work" Must be Issued in Writing By The Manufacturer To Authorize The Corrective Work At A Cost Not To Exceed The Maximum Total Cost Set Forth, Alternative Corrective Work Other Than That Proposed in The "Initial Claim" May Be Directed By The Manufacturer in The "Authorization Of Corrective Work". Only The Field Service Department May Authorize Corrective Work.

'Final Claim" In Writing Must Be Forwarded By The Customer To The Manufacturer Within (10) Days Of The Completion Of The Corrective Work Authorized By The Manufacture

### THE "FINAL CLAIM" MUST INCLUDE:

- FINAL CLAMF MUST INCLUDE:

  1. Actual Number of Mon-Hours By Dated Of Direct Labor Use On Corrective
  Work And Actual Hourly Rate Of Pay.

  2. Taxes And Insurance On Total Actual Direct Labor.

  3. Other Direct Costs On Actual Direct Labor.

  4. Cost Of Materials (Not Minor Supplies) Authorized By The Manufacturer To
  Be Purchased From Other Than The Manufacturer, including Cooles Of

"Final Claims Are Credited To The Customer By The Manufacturer in The Amount Not To Exceed The Lesser Of The Maximum Total Cost Set Forth In The "Authorization For Corrective Work" Or The Total Direct Cost Of

### \*\* IMPORTANT NOTE \*\*

Cost Of Equipment (Rental Or Depreciation), Small Tools, Supervision, Overhead And Profit Are Not Subjected To Claims.

SPICHARIT ANTIVAL 1085:
Every Effort Will Be Mode To See That The Carrier Arrives At The Jobsite On The Requested Hour. Manufacturer Makes No Warronty And Accepts No Responsibility For Costa Associated With A Shipment Not Arriving At The Requested Time Unless A Separate Agreement Has Been Made in Writing For A Couranteed Arrivol Time.

## Unloading, Handling And Storage

STRUCTURAL:
A Great Amount Of Time And Trouble Can Be Saved If The Building Ports Are
Unloaded At The Building Site According To A Pre-Arranged Plan. Proper Location
And Handling Of Components Will Eliminate Unnecessary Handling.

Piece Marks Are Stenciled On The Primary Structural Members At The Lower End, 1'-0" From The End. Inspect All Shipments Prior To Releasing The Tie-downs For Loads That May Have Shifted During Transit.

BEMEMER SAFTY FIRST.

Blocking Under Columns And Rotters Protect The Splice Plates And The Slab From Domage During The Unloading Process. It also Facilitates The Placing Of Slings And Cobles Around Members For Later Lifting And Allows Members To Be Bolted Together Into Sub-assemblies While On The Ground Extra Care Should Always Be Exercised in The Unloading Operation To Prevent Injuries From Handling Steel And To Prevent Domage To Materials And The Concrete Slab. If Water Is Allowed To Remain For Extended Periods In Bundles Of Primed Ports Such As Cirts, Purlins, Etc., The Pigment Will Fode And The Point Will Gradually Soften Reducing Its Bond To The Steel. Therefore, Upon Receipt Of A. Job., All Bundles Of Primed Ports Should Be Stored At An Angle To Allow Any Trapped Water To Drain Away And Permit Air Circulation For Drying, Puddles Of Water Should Not Be Allowed To Callect And Remain On Columns Or Rotters For Some Reason.

The Coat Of Shop Primer Is Intended To Protect The Steel Framing Only For A Short Period of Exposure to Ordinary Atmospheric Conditions. The Coat of Shop Primer Does Not Provide The Uniformity Of Appearance, or The Durobility And Corrosion Resistance Of A Field Applied Finish Coat Of Point Over Shop Primer.

## Roof And Wall Panels

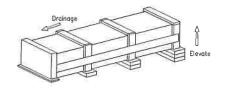
Manufacturer's Roof And Wall Panels Include Color Coated, Galvalume, And Galvanized, Provide Excellent Service Under Widely Voried Conditions. All Julicodi And Erection Personnel Should Fully Understand That These Ponels Are Quality Merchandiae, Which Merits Coulous Care And Handlina.

West-conding, which wents courtious sare and stonding.

UNDER NO CIRCUMSTANCES SHOULD PARILS BE HANDLED ROUGHLY
Packages Of Sheets Should Be Litted Off the Track With Extreme Core. Taken To
Ensure That No Damage Occurs To Ends Of The Sheets Or to Side Ribs, The
Packages Should Be Stored Off The Ground Sufficiently High To Allow Air
Circulation Underneath The Packages. Dis Avoids Ground Moisture And Deters
People From Walking On The Packages. Dis End Of The Packages Should Be
Elevated To Encourage Brainage In Case Of Rain. The Manufacturer Exercises
Caution During Fabrication An Shipping Operations To Ensure That All Panel Stock
Is Kept Dry, However Due To Climatic Conditions, Water Formed By Condensation
Of Humid Air Become Trapped Between Sheets. Water Can Also Be Trapped
Between The Stocked Sheets When Exposed To Rain. This May Discolarition
Caused By Trapped Moisture. The Stain is Usually Superficial And Has Little Effect
On The Appearance Or Service Life Of The Panels As Long As It Not Permitted
To Remain on The Panel, However, Moisture in Contact With The Surface Of The
panel Over An Extended Period Can Severely Attack The Finish And Reduce The
Effective Service Life. See R1-07 Titled "Damage From Condensation Or Trapped
Water".

CAUTION:
Care Should Always Be Taken When Walking On Panels. Use Safety Lines And Net When Necessary. Panels Are Stippery, Wipe Dry Any Moisture Or Surface Material that Has Puddle From Bundles Stored On A Stope, Dew, Frost, Or Other Forms Of Moisture Greatly Increase The Stipperiness Of The Panels. Always Assume Panel Surface Is Stippery And Act Accordingly. Never Walk Of Step On Skylights Or Translucent Panels.

Use Wood Blocking To Elevate And Slope The Panels in A Manner That Allows Moisture To Drain. Wood Blocking Placed Between Bundles Will Provide Additional Air Circulation. When Handling Or Uncrating The Panels, Lift Rather Than Slide Them Apart. Burred Egges May Scratch The Coated Surfoces When Sheets Are Slid Over One Another. Never Allow Panels To Be Wolked On While On The Ground



## Roof And Wall Panel Damage During Construction

The Quality Of Workmanship In Steel Construction Practices And Handling Methods Used During The Construction of The Metal Building Can Significantly Affect Appearance And Performance Of The Building Panels, Panel Damage Buring Construction Can Be The Result Of Faulty Installation Methods And/or

Overdriven Fasteners Cause Indentations Or Shallow Pockets In The Ponel Around Overdriven Fosteners Cause Indentations Or Shallow Packets In The Ponel Around The Fostener Head. Rain Water Or Condensation Moisture Combined With Atmospheric Pollutants (principally Sulfur Diavides). And Birt Particles Collect In These Packets. The Combination of Pollutants And Water Creates Acid Solutions That Will Cause Corrosion Demage To The Panel And Tostener. Rain May Wash That Will Cause Corrosion Demage To The Panel And Tostener. Rain May Wash Some Pollutants Away, But Moisture In Form Of High Humidity Can Keep These Areas Wet And Continue The Problem. Overdriving The Fostener Also Forces The Sealing Washer From Under The Head Creating A Leok At This Point. Proper Torque Adjustment Of The Screw Gun Of Preferably The Use Of A Depth Gauge Will Eliminate The Problem Of Overdriven Fostener's.

It is Extremely important had All Drill Shavings From The Installation Of Panel Fosteners And Filings From The Saw Cutting Of Panels Be Removed From The Panel Surface. Corrosion Can Occur in A Matter Of Hours When These Shavings Of Fillings. Are Not Removed And Are in Contect With Water Or Condensed Molsture. When Panels Are Pre-Drilled Or Cut in The Stack Prior To Erection All Shavings Must Be Cleaned From Both Sides Of The Panel To Prevent Corrosion Of The Panel By These Particles. It is imperative That The Roof Be Swept Clean At Least Daily And Certainly Al. Job Completion. The Final Cleaning Of The Roof Should Be Done Prior To Installing The Catter So That The Shavings Are Not Deposited Into The Cutter And Left To Corrode. Any Other Foreign Objects Or Debris Left By Construction Personnel Should Also Be Removed From The Roof During The Erection Of The Roof And The Installation Of Such Equipment As Air Condition Units, Etc.

Personnel Walking On The Panel Can Cause Damage. Workmen Should Step Or Walk In The Broad Flat Areas Of The Panel And Avaid Stepping On The Panel Ends And Edges Which Can Be Bent By Careless Handling. If This Damage Is Severe, The Edges Must Be Straighten Prior to Erection Since The Appearance And/or Weather Tightness Of The Panel Could Be Affected. Dragging One Panel Across Another Can Cut Or Abrade The Coating Causing Unsightly Marks On The Panel Surface:

Attempts To Erect Panels During Windy Conditions Should Be Avoided To Prevent

Leaving Dirt Piled Against The Exterior Woll Panels At The Foundation Will Cause Panel Damage. This Dirt May 8e Wet Or At Least Contain Some Moisture. Mud May Have Splashed Onto The Wall During Construction. Corresion Damage May Occur Where This Dirt Or Mud Contacts The Panel. In Areas Where Lime Stabilization of the Soil is Required, Corrosion Damage From the Soil's Content Will Be Accelerated And Most Likely Be Severe. All Dirt Must Be Removed From The Panel Wolls At The Time of Completion of Work. Pre-Pointed Panels May Require Touch-up If The Coating Hos Been Damaged During Handling Or Erection.

The Appearance Of The Building May Be Affected If Damaged Spots Or Scratches Are Located in Highly Visible Places Such As Around Doors, Windows, Etc.. If Domoge is Extensive Then Replacement Of The Entire Panel Should Be Considered

## Types Of Finishes

SHOP PRIMED STEEL: All Structural Members Of The Metal Building System Not Fabricated Of Corrosion All structural memors of the metal stationary system Not reprincated Of Corroson Resistant Material Or Protected By A. Corrosion Resistant Cooting Are Painted With One Coot Of Shop Primer Meeting The Performance Requirements Of SSPC Paint Specification No.15. The Coot Of Shop Primer is Intended To Protect The Steel Framing For Only A Short Period Of Euposure To Ordinary Atmospheric Conditions. Shop Primed Steel Which is Stored in The Field Pending Erection Should Be Kept Free Of The Ground And So Positioned As To Minimizer Water Holding Pockets, Dust, Mud And Other Contamination Of The Primer Film, Repairs Of Damaged To Prime Surfaces And/Or Removal Of Foreign Material Due To Inproper Field Storage Or Site Conditions are Not The Responsibility Of The Monufacturer. The Manufacturer is Not Responsible For Deterioration Of The Shop Coal Of Primer Or Corrosion That May Result From Exposure To Atmospheric And invironmental Conditions, Nor The Compatibility Of The Primer To Any Field Applied Coating, Miner Abrasions To The Shop Coat (Including Galvanizing) Caused By Handling, Loading, Shipping, Unloading And Erection After Painting Or Calvanizing Are Unavoidable. (MBMA 2012, Chapter IV 4.2.4).

Having A Coating Of Corrosion Resistant Aluminum—Zinc Alloy. The Mixture Is Balanced To Obtain The Coating That Retains The Corrosion Resistance And Heat Reflectivity Of Aluminum And Galvanic Protection Of Zinc. The Best Properties Of Both Aluminum And Zinc Are Combined In This Coating And Offer Added Ser life For The Building

Pra-Pointed:
Using Golvolume Steel As A Substrate, Pre-Pointed Steel Is Given An Additional Rust Inhibitor Primer Coat. This Primer Coat Further Increases The Corrosion Resistance. These Coatings Are Applied To The Exterior Surface of The Ponels And A Wash Coat Designed Only For Interior Use, Is Applied On The Opposite Side. Galvolume And Pre-Pointed Steel Con Give Excellent Service For Many Years If A Fee Rules Concerning Their Core And Maintenance Are Observed. All Of These Finishes Are Foundly Subset. To Demograph And Corrosion When Core Is All the Additional Concerning Their Core And Maintenance Are Observed. All Of These Finishes Are Equally Subject To Damage And Corrosion When Care Is Not Provided.

# PAINT AND COATING MAINTENANCE:

Town User Into Want Errors.

Formula 409 Has Proven To Be Somewhat Effective. Lightly Rub With A Clean Cloth And Rinse With Water. Do Not Rub More Than Required To Remove Smudge Marks. No Product Will Remove All Smudge Marks. Remove Rust Stains:

Soft Scrub Without Bleach Has Proven To be Somewhat Effective. Rub With A Soft Cloth And Rinse With Water. Do Not Rub More Than Required To Remove Stain. No Product Will Completely Remove Rust Stains.

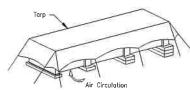
Touch-Up Scratches In Paint (Not Bare Metal): Clean Area To Be Pointed With Mild Detergent. Rinse Thoroughly And Dry. Using A Small Artist's Brush, Lightly Apply A Minimal Amount Of Color Motched Touch-Up Pain Required To Fill/Cover The Scrotch, Contact The Building Manufacturer For Assistance With Ordering/Purchasing Touch-Up

**Erection Guide** 

### Damage From Condensation Or Trapped Water

It is Extremely Important That The Panels Be Monitored For Evidence Or Trapped Water Or Moisture Condensation While Awaiting Erection, High Humidity Conditions With Temperature Cycling Will Cause Condensation Between Panels Within The Bundle, Condensation Can Occur Frequently Near The Sea Coast Or Other Lorge Bodies Of Water.

If Jobsite Covers Are Used, They Should Re Tied Away From The Bundle At Toolste Govers are Osed, they should be the Mady from the Bundle At Corners To Allow Air Circulation Around The Bundle. This Will Help Prevent Moisture Evaporating From The Ground Or Building Floor From Condensing On The Panels. Plastic Or Other Impermediate Covers Are Not Recommended, immediate Action is Required If The Panels Are Found To Be Wet From Any Cause. The Bundles Must Be Opened And Each Ponel Un-Stacked And Thoroughly Dried On Bundles Must be upened and both Ponel Un-Stacked And Thoroughly Dried On Both Sides, Re-Stacking The Ponel At A Sight Angle To Each Other To Prevent Nesting Will Allow Air Circulation And Assist in Keeping The Panel Dry, in Severe Conditions Large Fans Can Be Used To Circulate Air Between The Un-Stocked Panels And Accelerate Drying, Domage To The panel Coating Occurs When Ponels Become Wet And Are Allowed To stay wet, damage Can Occur To Nested Ponels Within 24 to 48 Hours. This Domage Shows Corrosion And Discolaration Of The Panel Surface And Is Commonly Called Wet Storage. Stain, Zinc Oxidation, Or



A Softening Of the Paint Film Can Occur with Pre-Painted Steel Under Wet Storage Conditions And The Durability Of The Paint Finish Substantially Decrease. Bare Galvenized And Calvalume Paints React More Quickly to Surface Oxidation Since They Lock The Additional Protection Of Paint. Zinc Coated Or Galvalume Panels Under Normal Exposure Form A Zinc Aluminum Oxide Film On Their Surface Allowing A Slow Oxidation Process Called "Weathering" To Occur That Inhibits Further Corrosion. In Nested Bandles Constant Contact Of The Panels With Condensed Or Trapped Water Prevents This Weathering Process.

Ropid Oxidation Of The Zinc or Zinc Aluminum Coating Can Now Occur And May Lead To "Red Rust" In A Short Time. If Discoloration Or Stains Are Minor A Household Cleamer Of The Type Used On Parcelain Silks And Bathtubs May Be Used To Remove Stains. Wire Brushing Or Abrasive Materials Should be Avoided Since Scratching Or Removal Of The Cooling Could Occur. Panel With Significant Damage Should Be Replaced By The Buyer Prior To Erection.

R1

### Safety Commitment

The Builder/Contractor Is Responsible For Applying And Observing All Pertinent Safety Rules And OSHA Standards As Applicable.

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 Central Of The Building

It is Strongly Recommended That Sofe Working Conditions And Accident Prevention Practices Be The Top Priority Of Any Job Site.

Local, State And Federal Safety And health Standards, Whether Standard Statuary Customary, Should Always Be Followed To Help Ensure Worker Safe

Make Sure 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.

For The Purposes Of Determining Lift Requirements, No Bundle Supplied By The Monufacturer Will Exceed 4,000 Pounds, For Further Information Also reference The Bill Of Materials For Individual Members Weights Of Structural Members, If Additional Information Is Required Coatoct The Field Service Department.

### ICE AND SNOW REMOVAL:

to AND Source required:

Excessive Ice And Snow Removal Should Be Removed From The Roof Immediately To Prevent Domage To Roof And Possible Callapse. Do Not Use Metal Tools To remove The Ice Cr Snow As This Can Damage The Paint And/Or Calvalume

Coolings, Also Be Careful Around Pipes And Flashing's.

Be Extremely Careful if Your Roof Has Light Transmitting Panels. These Panels Will Not Support A Person's Weight And Will Be Difficult Or Impossible To See If They Are Covered With Ice Of Sonw. See MBMA Low-Rise Building Systems Manual, Appendix AB For Datails On Snow Removal Procedures, These Procedures Should Commence When Half Of The Design Roof Snow Load Is Realized.

Any Foreign Debris Such As Sowdust, Dirt, Leaves, Animal Broppings, Etc. Will Cause Corrosion Of the Roof, Gutters, Trim, Etc. If Lett On The Building Surface For A Long Enough Time. The Roof Should Be Periodically Inspected For Such Conditions And II Found, They Should Be Rectified In A Manner Consistent With These Roof Maintenance Guidelines. New Allow Treated Lumber Cr Concrete/Martor/Grout To Corne In Contact With Roof Panels, Especially Calvalume

PERIODIC INSPECTION: All High-Strength Sholl Be Periodically Be Inspected For Tightness. Porticularly In Crane Buildings And After Seismic Or Wind Activity. The Crane Manufacturer Will Specify A Minimum Period But It Should Not Exceed Two Years.

# Keep Roof Free Of Debris And Keep Debris Out Of Gutter To Allow Water

- Quickly Drain From The Roof.

  2. Do Not Use Wood Blocking To Hold Equipment Off The Panel Seams. This Blocks The Flow Off Water And Hold Moisture.

  3. Do Not Allow Rooftop AC Units Or Evaporative Coolers To Drain Onto The
- 4. Anything That Traps Or Holds Moisture On A Roof Will Cause Premature

## Roof Maintenance Guidelines

- Inspect Roof For Damage After Heavy Storms,
- 2. Inspect And Reseal As Necessary All Roof Curbs And Other Penetrations With
- 3. Always Gel Manufacturer Approval Before Making Any Modifications To The
- 4. Repaint Any Areas That Are Susceptible To Rust As Required
- When Performing Roof Maintenance, Always Take The Following Precoutions:
   Use Fall Protection And Other Safety Protection As Required,
   Do Not Walk On Roof Flashing Such As Gutter, Rake, Hip Or Ridge Flash. c. Do Not Walk On Light Transmitting Panels (LTP's). They Will Not Support A
- C. Do Not Walk on Light transmitting running (Lir a), they had not so.

  Person's Weight.

  d. Guard All LTP's And Roo! Openings.

  e. Step Only In The Panel Flat Directly On Or In Close Proximity To A Supporting Roaf Structural. 6. After Other Trodes Have Been On The Roof For Any Reason, Inspect The Roof For Damage Caused By Workers Including Chemical Or Salvent Spills, Scratches In The Point Or Golvalume Coating, Excessive Foot Traffic And Punctures, Moke Sure That All Debris Or Scrap Left Behind By Workers is Removed From The Roof Immediately, Avoid Using Cutoff Saws And Welding Equipment Over The Roof. The Roof Must Adequately Protected.

FOOT TRAFFIC.
Keep Foot Traffic To A Minimum. Heavy Foot Traffic Can Cause Ponding On Low Pitched Roofs. This is Particularly True Just Upslape From The Eave And At

Pricing Noois. Inis is Particularly Irue Just Upslope From The Eave And At Endlaps.
Always Walk In The Flat Of The Panel Near A Supporting Roof Structural. Do Not Walk On Trim Or In Gutters.
On Bare Calvalume Roofs, Excessive Foot Traffic May Cause Black Burnish Marks.

on bare udwalume koots, bacessive Foot Traffic May Couse Black Burnish Marks. If Regular Foot Traffic is Plonned For A Roof, Provisions Should Be Made For A Properly Designed And Installed Walkway System, In Order To Limit Access To The Roof, Roof Hotches Or Access Lodders Should Be Locked At All Times. A Sign Posted At The Access Site Stating That Only Authorized Personnel Are Allowed On The Roof, In Addition A Log Book Should Be Kept Of All Visits To The Roof And The Reason For Such Wists.

<u>DISSIMILAR METALS:</u>
Never Allow Your Roof To Come in Contact With, Or Water Runoff From Any Dissimilar Metal Including But Not Limited To:
Copper, Lead Or Graphite, This Includes Copper And Arsenic Salts Used in Treated Lumber, Colcium Used in Concrete, Mortar And Grout.

### Never Step On Light Transmitting Panels (LTP's) Or Unattended Roof Panels



Panels May Collapse

Roof Panels Must Be Completely Attached To The Purlins And To Panels On Either Side Before They Can Be A Safe Walking Surface. Light Transmitting Panels LTP's) Translucent Panels Can Never Be Considered As A Walking Surface.

Partially Attached Or Unattached Panels Should Never Be Walked On!

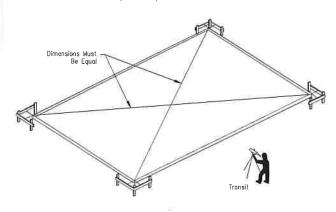
- 1. Sten On Rib Al Edge Of Panel
- 2. Step Near Crease In Rib At Edge Of Panel
- 3. Step Wilhin 5 Feet Of Edge On Unsecured Panel

Single Roof Panel Must Never Be Used As A Work Platform. An OSHA Approved Runway Should Be Used For Work Platforms. (Consult OSHA Safety And Health Regulations For The Construction Industry). Safety First!

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### Building Anchorage

- To Determine That The Foundation is Square, Measure Diagonal Dimensions To Be Sure They Are Of Equal Length.
   To Determine That The Foundation is Level, Set Up A Transit Or Level And Use A Level Rod To Obtain The Elevation At All Columns.
   Carefully Check The Location Of All Anchor Rods Against The Anchor Rod Setting Plan Furnished By The Manufacturer. All Dimensions Must Be Identical To Assure A Proper Start—up.

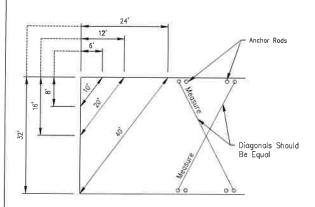


### Pre-Erection Notes:

The Following Notes, Procedures And Suggested Recommendations are Important Parts Of The Pre-Erection Process.

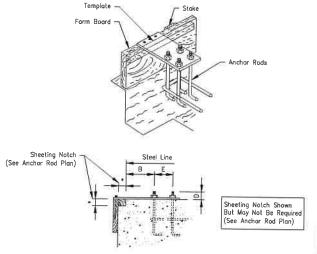
Prior To The Time The Erection Crew Arrives, A Responsible Person Should Check The Job Site For Foundation Readiness, Square, And Accuracy And Anchor Rod Size And Location.

The Drawing Shown Below Indicates A Method Which May Be Used To Check The Foundation And Bolts For Square.

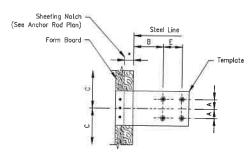


Measure Along Adjacent Sides Of Foundation Using A Pair Of Dimensions Shown, If The Diagonal Distance Between These Points Is As Noted, The Corner Is Square. Diagonal Measurements Between Opposite Anchor Rads. Will Indicate If These Bolts Are Set Square.

It is Extremely important That Arichor Rods Are Placed Accurately And In Accordance With The Anchor Rod Setting Plan. All Anchor Rods Should Be Held in Place With A Template Or Similar Means, So That They Will Remain Plumb And In Correct Location During The Placement Of The Concrete. A Final Check Should Be Made After Completion Of The Concrete Work And Prior To The Steel Installation. This Will Allow Necessary Corrections To Be Made Before Costly Installation Labor And Equipment Arrives.



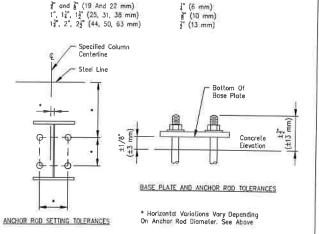
Projection Of Anchor Rods (D) Given On Anchor Rod Plan



Dimensions A, B, And C Given On Anchor Rod Plan

## AISC Code Of Standard Practice For Steel Building And Bridges Tolerances For Setting Anchor Rods

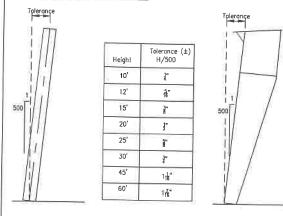
## Anchor Rad Diameter, Inches (mm) \*Horizontal Variation, Inches (mm)



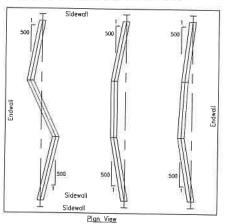
### Erection Tolerances

ERECTION BRACING:
It Is The Responsibility Of The Erector To Determine, Furnish And Instell All Temporory Supports Such As Temporory Guys, Beams, Folsework, Cribbing, Or Other Elements Required For The Erection Operation (In Accordance With Section 7.10.3 Of ANSI/AISC 303, Code Of Standard Proctice For Steel Building And

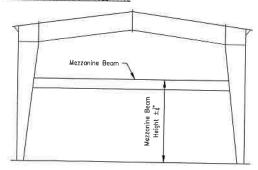
### COLUMN ALIGNMENT TOLERANCES



### ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES



### MEZZANINE BEAM HEIGHT TOLFRANCE

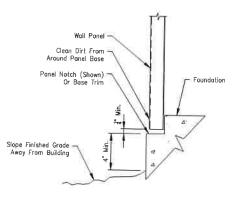


### General Erection Notes

- 1.) All Structural Framing Members, Purlins, Cirts, Clips, Flange Braces, Bolts, Bracing Systems, Roof And Wall Panels, Etc. Must Be Installed As Shown On Erection Drawings.
- 2.) It is Extremely important, Especially During Construction, That Panels At The Eaves, Rakes And Ridges Be Kepl Secure.

### Panel Cautions And Notes

- To Minimize Potential Of Corrosive Action At The Bottom Edge OF Wall Panels, The Contractor Must Assure That The Following Procedures Are Followed:
- The Concrete Foundation Should Be Cured For A Minimum Of Seven (7) Days Before Wall Panels Are installed. (Uncured Concrete is Highly Alkaline And Metal Panels Can Undergo Varying Degrees Of Corrosive Attack When in Direct Contact With The Concrete.) After The First Week Of The Curing Cycle, The Reaction Between Metallic Coatings On Steel And The Concrete is Feastwistin Metallic.
- 2.) Top Of Finish Grade At Building To Be A Minimum Of Four (4) Inches Below Bottom Of Panel.
- 3.) Finish Grade Is To Slope Away From Building To Ensure Proper Drainage.
- 4.) Upon Completion Of Finish Grading, All Dirt Is To Be Cleaned From Around Base Of Wall Penel Where It May Have Collected In Panel Notch Or On Base Trim



## Fastener Installation

Correct Fostener Installation Is One Of The Most Critical Steps When Installing Root/Wall Panels, Drive The Fostener In Until It Is Tight And The Washer Is Firmly Seated, Do Not Overdrive Fosteners.

A Slight Extrusion Of Neaprene Around The Washer Is A Good Visual Tightness Check, Always

Use The Proper Tool To Install Fasteners, A Fostener Driver (Screw Cun) With A RPM OI 1700-2000. Should Be Used For Self-Opiding Screw. A 500-500 RPM Fostener Driver Should Be Used For Self-Topping Screw. Discord Worm Sockets, These Con Couse The Fastener To Wobble During Installation.

Note: Always Remove Metal Filings From Surface Of Panels At The End Of Each Work Period. Rusting Filings Can Destroy The Paint Finish And Void Any Warranty.







Of Sealing Washer

Too Tight Compression Of Sealing Wesher

# Tape And Tube Sealant

Proper Tope And Tube Sectiont Application to Critical To The Weather Tightness Df A Building, Tope Sectiont Should Not Be Stretched When Installed, Apply Only To Clean, Dry Surfaces, Keep Chily Enough Sectionts On The Roof That Con Be Installed in A Day, During Warm Weather, Store Sectionts in A Cool Dry Place, During Cold Weather (below 60°) Sectionts Must Be Kept Warm (60°–90°) Unit Application, After Tope Sectiont Has Been Applied, Keep Protective Paper In Place Until Panel Is Ready To Be Installed.

## Important Note

All Details, Recommendations And Suggestions Contained In This Erection Guide Of This Drawings Set Are For General Guidelines Only, And Not Moont To Be All-inclusive, Industry Accepted Installation Practices With Regard To All Areas Not Specifically Discussed in This Section Should Be Followed, Only Experienced, Knowledgeoble Installers Familiar With Accepted Practices Should Be Used To Assure A Quality Project.

It is Emphasized That The Manufacturer is Only A Manufacturer Of Metal Building Components And is Not Engaged in The installation Of its Products. Opinions Expressed By The Manufacturer About Installation Practices Noted in The Erection Guide Are Intended To Represent Only A Guide, Both The Qualify And Safety Of Installation And The Ultimate Qustomer Satisfaction With The Completed Building Are Determined By The Experience, Expertise, And Skills Of The Installation Craws, As Well As The Equipment Available For Handling The Materials, Actual Installation Operations, Techniques And Site Conditions Are Beyond The Manufacturers Control.

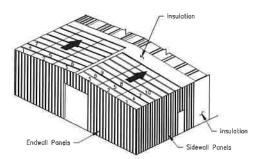


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### PBR Roof Panels

For PBR Roofs With Ridge Panels, It is Recommended That Both Sides Of The Ridge Be Sheeted Simultaneously. This Will Keep The Insulation Covered For The Maximum Amount Of Time And The Panel Ribs Can Be Kept in Proper Alignment For The Ridge Panel. This is Critical On The PBR Ponels So that The Ridge Cops Con Be Properly Installed, Check For Proper Caverage As The Sheeting Progresses.



install the First Run Of Roof Panels Across The Building From Eave To Eave Or Eave To Ridge. To Allow Proper Installation Of The Roke Trim, The Starting Location For The First Panel Must Be As Shown in The Roke Details included With The Erection Drawings. When The First Run is Properly Located And Aligned With The Correct Endlaps And Eave Overhangs, Fasten To Purfins. Roof Panels Should Be Installed So That The Sideday Is In A Direction Away From Prevailing Wind.

Refer To Appropriate Lop Details Included With The Erection Drawings.

Install Remaining Roof Insulation And Panels, To Avoid Accumulative Error Due To Panel Coverage Gain Or Loss, Properly Align Each Panel Before It Is Fastened. Occasional Checks Should Be Madle To Ensure That Correct Panel Coverage Is Maintained, Special Attention Should Be Given To Fostener, Sealant and Closure Requirements. Refer To Details Included With The Erection Drawings.

At Finishing End Of Roof, The Last panels May Require Field Modification For Installation Of Roke Trim. Refer To Rake Details Included With The Erection Drawings. DO NOT BACK LAP THROUGH FASTENED ROOF PANELS.

NOTE: Roof Types And Installation Requirements Will Vary. Refer To The

IMPORTANT: Loose Fosteners, Blind Rivets, Drill shavings, Etc., Must Be Removed From The Roof To Guard Against Corresion.

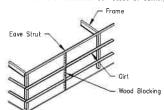
### Wall Panels

Proper Horizontal And Vertical Alignment Of Supporting Structure (Girts Or Other Framing) is The Responsibility Of The Installer, Fallure To Align The Secondary members Properly Prior To Wall Installation Can Have A Birect Impact On The Installed Wall System For Which The Metal Building Manufacturer is Not Responsible.

Before Installing Wall Panels, The Girts Must Be Aligned To A Level Position So That There Is No Visible Sag. This Should Be Done Directly Ahead Of Panel

Girt Leveling May Be Accomplished By Standing A Section Of Gable Angle Vertically Against The Outside Girt Flanges Al Approximate Mid-bay Location. When Girts Are Level, Attach The Girt Flanges To The Angle With Vise Grip Pilers Or Temporary Screws. Wood Blocking Cut To Fit The Spaces May Also Be Used

Temporary Girt Blocking Is Not Recommended On Concealed Fastener Panels. The Removal Of The Blocks After Panel Installation Can Cause Oil Canning.

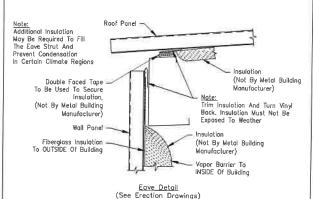


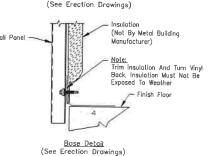
Note: Wall Panel Type And Installation Details Will Vary, Refer To The Erection Drawings



If Walls Are To Be Insulated With Blanket Insulation Over Cirt Girt Flanges, Base And Eave, Place A Continuous Run Of Contact Tape Along The Eave Strut And

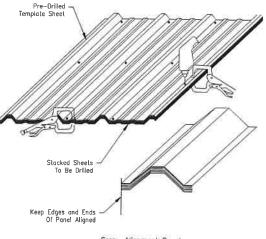
At The Base, Cut Off The Insulation A Minimum Of 2" Above The Bottom Of The Wall Panel. This Will Prevent The Insulation From Honging Below The Wall Panel And Wicking Moisture.





Sidewall Panels Should Be Installed So That The Panel Sidelap Is In A Direction Away From The Prevailing Wind. Refer To Appropriate Lap Detail Included With Away From The Pre-Erection Drawings.)

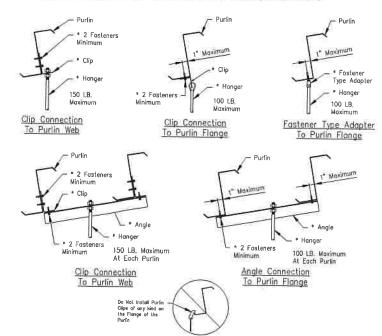
Note: Check Periodically To Ensure That All Panels Are Aligned And Plumb.



Screw Alignment Panel (Through Fastened Panel Only)

Note: After Drilling Panels, It is Important To Clean Metal Filings Off All Panel Surfaces, Including Between Panels That Are Not Installed That Day, To Avoid Rust Stains.

# Suggested Method Of Purlin Attachment For Building Accessories



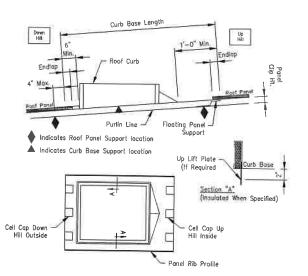
\* Denotes Malerial Not Provided By Metal Building Manufacturer,

The Total Hanger Load Shall Not Exceed The Design Collateral Load For The Building, Example:

5'-0 (Furlin Spacing) X 5'-0 (Honger Spacing) X 6 PSF (collateral Load)

5—U (Hurin Specing) X 5—O (Honger Specing) X 6 PSF (collateral Load) = 150 Lbs.
See Cover Sheet For Design Collateral Load For This Building.
Note: If The Building is Designed For 0 PSF Collateral Load, Then Adding Any Suspended System (i.e. Dust Work, Piping, Lights, Ceilings, Etc.) Will Correspondingly Reduce The Design Live Load.

# Roof Curbs When Not Supplied By Building Manufacturer



The Curb Details Shown Illustrate The Building Manufacturers Recommended Curb Style And Installation Method. It is The Erector/Installer's Responsibility To Provide The Proper Curb Style And Install Them In Accordance With The Procedures Established By These Details, Failure By The Erector/Installer To Follow These Recommendations May Result In The Curbs Damaging The Roof System Or Excluded From Warranties.

1. .080 Aluminum Or 18 Ga. Stainless Steel (No Galvalume® Or Galvanized).

1. JOBO Aluminum Or 18 Co. Stainless Steel (No Galvalume<sup>SD</sup> Or Galvanized).
2. Panel Rio To Panel Rio (No Flot Skirt Or Lay-Over Curbs).
3. Installed With Down Hill End Over Panel And Up Hill End Under Panel Application
For Water Flow At Panel Splice.
4. Up Lift Prevention For Clip Applied Roof Systems Are Required If:
a. Wind Loads Exceed 110 MPH.
b. Curb Base Crosses A Purlin.
5. Supported on (4) Sides By Primary Or Secondary Framing.
6. Maximum Single Curb Weight Recommended Is 1500 Lbs.

## Roof Jack Installation when Not Supplied By Building Manufacturer

Ceneral installation Notes

Do Not Use Galvanized Roof Jacks, Lead Hats, Or Other Residential Grade Roof Jacks, These Roof Jacks Do Not Have 20 Year Service Life And In Case Of Lead Hats Will Cause Galvanic Corrosion Of The Roof Panel.

Use EPDM Rubber Roof Jacks With An Integral Aluminum Band Banded Into The Perimeter Of The Base. EPDM Roof Jacks Have A Temperature Ronge From -657 To 2127. Use Silicone Roof Jacks For High Temperatures. Silicone Roof Jacks Have A Temperature Roof Grade Office Control of Control Integration Roof Jacks Have A Temperature Roof Control The Roof Jacks Have A Temperature Roof Grade Office Roof Jacks Have A Temperature Roof Grade Roof Jacks Have A Temperature Roof Jacks Have A

ripe.
Do Not Use Tube Sealant To Seal The Roof Jack To The Roof Panels. Use Roll Tope
Sealer Between The Roof Jack And The Roof Panel And Attach The Roof Jack To The

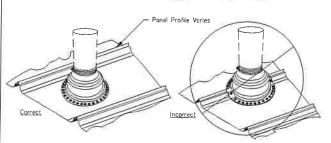
Sealer Between The Roof Jock And The Roof Panel And Attach The Roof Jack To The Roof Panel With Fostener #4 \( \frac{1}{4} - 14 \times \tilde{3} \) Lt SD W/washer At 1" Q.C. Around The Base Of The Roof Jack, See Table Below For Quantities.

Tim The Top Of The Roof Jack To Fit Over The Pripe, Rolf Down The Roof Jack Over The Pipe And Apply Tope Sealer For The Perimeter Of The Roof Jack And Roof Jack And The Roof Panel. Apply Tape Sealer Around The Pipe And Install A Stainless Steel Clamp (Not By Bilds, Mr.) Over The Top Of The Roof Jack And Firmly Tighten To Form A Secure Compression Seal.

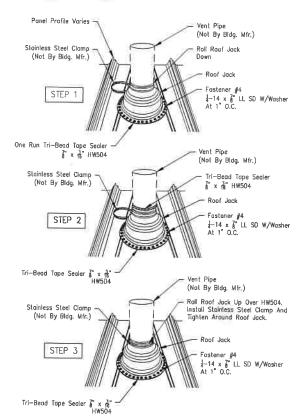
If The Pipe Diameter is So Lorge To Block The Flow Of Water Down The Roof Panel, A Flat Base Roof Curb Must Be Installed Into The Roof And The Roof Jack Will Be Sealed To The Curb. A Two Piece Curb May Be Required When The Top Of The Pipe Is Inoccessible.

Inaccessible.

? In Northern Climates, The Pipe Penetration Should Be Protected From Moving Ice Or



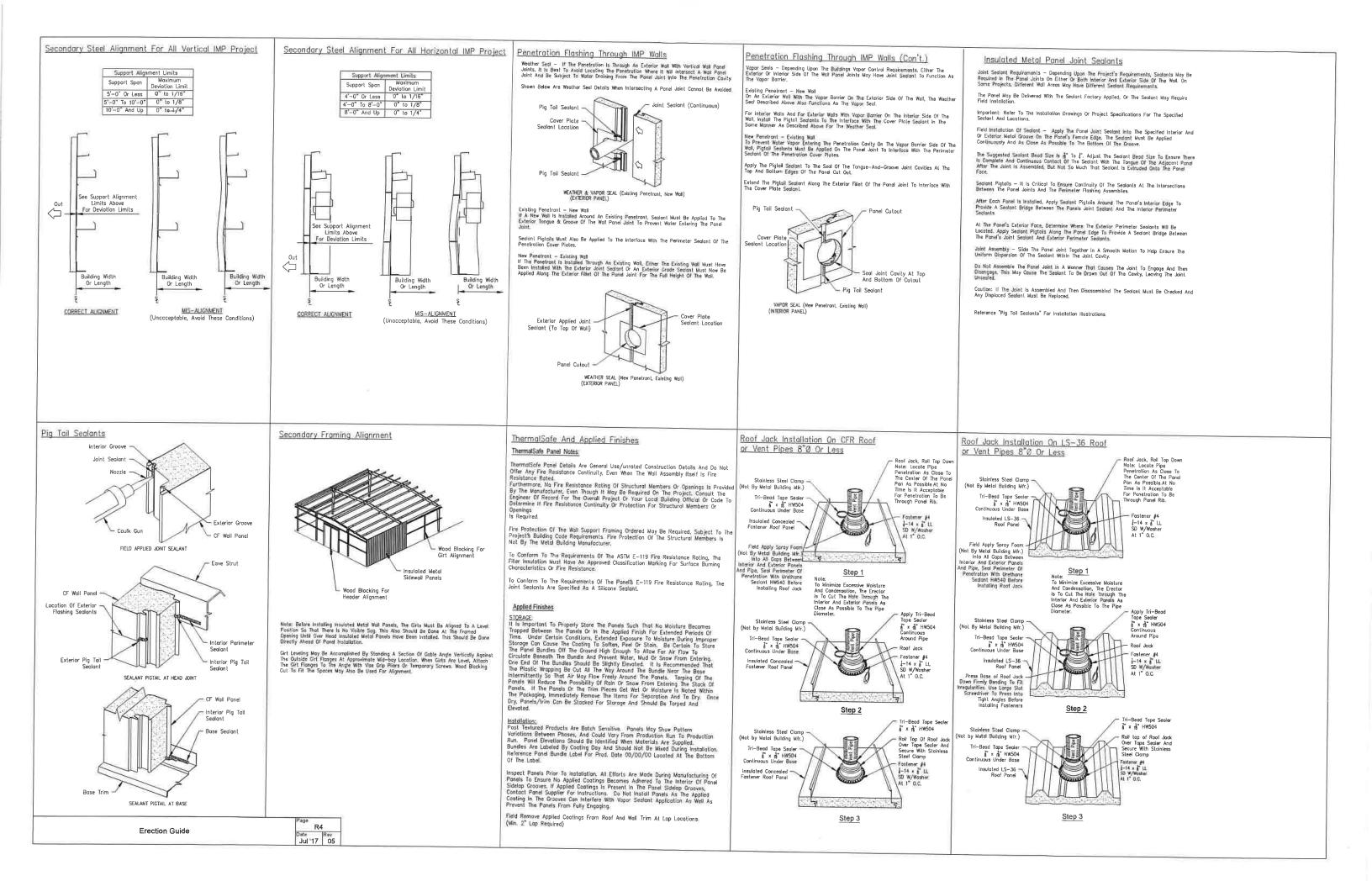
Install Pipe In Center To Allow Base Of Roof Jack To Lay Flat on Panel. Cannot Encompass More Than 75% Of Page



Erection Guide

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