

CUSTOMER INFORMATION

CUSTOMER NAME: PORT OF FRIDAY HARBOR
 ADDRESS: PO BOX 889
 FRIDAY HARBOR, WA 98250
 PROJECT NAME: 10 UNIT NT 51-42 HANGAR
 PROJECT LOCATION: FRIDAY HARBOR, WA

GENERAL NOTES

1. MATERIALS

	ASTM DESIGNATION	
STRUCTURAL STEEL PLATE	A529 OR A572 OR A1011SS	GRADE 55
FLANGE MATERIAL	A529	GRADE 55
COLD FORMED LIGHT GAUGE SHAPES	A1011SS	GRADE 55
STRUCTURAL CABLES	A475	GRADE EHS
HOT ROLLED MILL SHAPE	A992	GRADE 50
HOLLOW STRUCTURAL SECTIONS	A500	GRADE B
PBR36 ROOF AND WALL PANELS	A653 OR A792	GRADE 80
STANDING SEAM ROOF	A653 OR A792	GRADE 50
BOLTS	A325	A325
BOLTS	GRADE 5	GRADE 5
2. DESIGN
 - A. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBER ARE DESIGNED IN ACCORDANCE WITH THE AISC 360-16 "SPECIFICATIONS FOR THE DESIGN, FABRICATING AND ERECTION OF STRUCTURAL STEEL BUILDING", ALLOWABLE STRESS DESIGN.
 - B. ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH AISI S100-16 "SPECIFICATIONS FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
 - C. ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 2017 "STRUCTURAL WELDING CODE".
3. HIGH STRENGTH BOLT CONNECTIONS:

ALL HIGH STRENGTH BOLTS ARE TYPE ASTM A325 AND ARE TO BE INSTALLED ACCORDING TO THE "SNUG-TIGHT" CONDITIONS AS DEFINED BY THE, RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, UNLESS NOTED OTHERWISE.

ALSO, NOTE THAT BOLTS IN STANDARD HOLES DO NOT REQUIRE WASHERS PER THE, RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, SECTION 6 (REFERENCE STEEL CONSTRUCTION AISC MANUAL 360-16)
4. A325 BOLT TIGHTENING REQUIREMENTS

ALL HIGH STRENGTH BOLTED CONNECTIONS ARE SUBJECT TO AXIAL TENSION AND OR SLIP CRITICAL. AS SUCH THE BOLTS MUST BE FULLY PRE-TENSIONED AND INSPECTED IN ACCORDANCE WITH THE AISC 360-16 SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS AND THE APPLICABLE BUILDING CODE. WASHERS ARE NOT REQUIRED WHEN THE "TURN OF THE NUT" TIGHTENING PROCEDURE IS USED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE PROPER BOLT TIGHTNESS.
5. STRUCTURAL PRIMER

ALL STRUCTURAL MEMBERS WILL BE GIVEN ONE COAT OF MANUFACTURER'S STANDARD RUST-INHIBITIVE PRIMER MEETING THE PERFORMANCE REQUIREMENTS OF TT-P-6645. THIS IS NOT A FINISH COAT AND IS NOT INTENDED FOR PROLONGED EXPOSURE TO THE ELEMENTS. REFERENCE AISC 360-16, CODE OF STANDARD PRACTICE SECTION 6.5.1-6.5.4.

6. BUILDER / CONTRACTOR RESPONSIBILITIES

R & M STEEL COMPANY STANDARD PRODUCT SPECIFICATIONS APPLY AND R & M STEEL COMPANY DESIGN, FABRICATION, QUALITY CONTROL STANDARDS AND TOLERANCE WILL GOVERN. IN CASE OF DISCREPANCIES BETWEEN R & M STEEL COMPANY'S PLANS AND PLANS FOR OTHER TRADES R & M STEEL PLANS SHALL GOVERN. (SECTION 3.3 AISC 303-16 CODE OF STANDARD PRACTICES.)

IT IS THE RESPONSIBILITY OF THE BUILDER / CONTRACTOR TO OBTAIN APPROPRIATE APPROVALS AND NECESSARY PERMITS FROM CITY, COUNTY, STATE OR FEDERAL AGENCIES AS REQUIRED.

APPROVAL OF R & M STEEL COMPANY'S DRAWINGS CONSTITUTES THE BUILDER / CONTRACTOR'S ACCEPTANCE OF R & M STEEL COMPANY'S INTERPRETATION OF THE PURCHASE ORDER. (SECTION 4.2.1 AISC 303.16 CODE OF STANDARD PRACTICES.)

THE BUILDER / CONTRACTOR OR A/E FIRM IS RESPONSIBLE FOR THE OVERALL PROJECT. ALL INTERFACE AND COMPATIBILITY CONCERNING ANY MATERIAL NOT FURNISHED BY R & M STEEL COMPANY ARE TO BE CONSIDERED AND COORDINATED BY THE BUILDER / CONTRACTOR OR A/E FIRM UNLESS SPECIFIC DESIGN CRITERIA CONCERNING THIS INTERFACE BETWEEN MATERIALS IS FURNISHED AS PART OF THE PURCHASE ORDER. R & M STEEL COMPANY ASSUMPTIONS WILL GOVERN.

THE BUILDER / CONTRACTORS RESPONSIBLE FOR SETTING OF ANCHOR BOLTS AND ERECTION OF STEEL BUILDING COMPONENTS IN ACCORDANCE WITH R & M STEEL COMPANY'S BUILDING "FOR CONSTRUCTION" DRAWINGS. TEMPORARY SUPPORTS OR BRACING REQUIRED FOR THE BUILDING ERECTION WILL BE THE RESPONSIBILITY OF THE ERECTOR TO DETERMINE, FURNISH AND INSTALL. (SECTION 7.9.1 AISC 303.16 CODE OF STANDARD PRACTICES.)

THE DESIGN OF THE ANCHOR BOLT EMBEDMENT LENGTH IS THE RESPONSIBILITY OF THE FOUNDATION DESIGN ENGINEER. THE LENGTH PROVIDED BY R & M STEEL IS AN ESTIMATED LENGTH AND SHOULD BE ADJUSTED ACCORDING TO THE FOUNDATION DESIGN.

BUILDING LOADS / DESCRIPTION:

WIDTH: 51 LENGTH: 231.67 HEIGHT: 14.5 / 14.5
 ROOF PITCH: 1.0:12 / 1.0:12
 THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY: IBC 18
 THE CONTRACTOR / BUILDER IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD:	2.10	PSF (ROOF PANELS & PURLINS)
COLLATERAL LOAD:	1.00	PSF
ROOF LIVE LOAD:	20.00	PSF
GROUND SNOW LOAD: (Pa)	25.00	PSF
ROOF SNOW LOAD: (Pf)	21.00	PSF
BASIC WIND SPEED:	110	MPH
SEISMIC COEFFICIENT:	1.460	

Pf = 0.7 Ce Ct I Pg
 Ce = 1
 Ct = 1.2
 I = 1
 Pg = 25.0 PSF
 Pf = 21.0 PSF
 UNBALANCED LOAD = 28.2 PSF

IMPORTANCE FACTORS:

WIND LOAD:	1.00
SNOW LOAD:	1.00
SEISMIC:	1.00

ROOF PANELS:

COLOR: Galvalume

WALL PANELS:

COLOR: Pacific White

PARTITION PANELS:

COLOR: 29 Ga Prime Rib Galvalume

TRIM COLORS:

GABLE:	Pacific White
EAVE:	Pacific White
CORNER:	Pacific White
DOOR & WINDOW:	Pacific White
GUTTER:	---
DOWNSPOUTS:	---
BASE (OPTIONAL):	Pacific White
8" JAMB/HEAD:	Pacific White

SOFFIT PANEL:

GABLE EXT:	_____
EAVE EXT:	_____
CANOPY:	_____

LINER PANEL:

LEFT :	_____
RIGHT:	_____
FRONT:	_____
BACK :	_____
ROOF :	_____

EARTHQUAKE DESIGN DATA:

INPUT:

Occupancy Category:	II - Normal
Seismic Importance Factor:	1.00
Mapped Response (Short), Ss:	1.22
Mapped Response (1 sec.), S1:	0.44
Site Class:	d-DEFAULT

RESULT:

Seismic Design Category, SD:	D
Basic Seismic-Force-Resisting Systems:	OCBF, OMF
Analysis Procedure Used:	Equivalent Lateral

FORCE:

Site Coeff (Short), Fa:	1.2000
Site Coeff (1 sec.), Fv:	1.8600
Max. Design Response (Short), Sms:	1.46
Max. Design Response (1 sec.), Sml:	0.8184
Design Response (Short), Sds:	0.97
Design Response (1 sec.), Sd1:	0.55
Approx. Period (Moment), Ta:	0.2517
Approx. Period (Brace), Tb:	0.1567
Rigid Frame Deflection Limit (Seis):	65
Wind Bent Deflection Limit (Seis):	65

DES_CALC:

Seismic Forces:		
Roof Bracing:	Endwall Bracing:	End Poles, Frame:
R = 3.2500	R = 3.2500	R = 3.5000
Rho = 1.3000	Omega = 2.0000	Omega = 3.0000
Cs = 0.30	Cs = 0.30	
Sidewall Bracing:	Rigid Frames:	Interior Bracing:
R = 3.2500	R = 3.50	R = 3.2500
Omega = 2.0000	Rho = 1.3000	Rho = 1.3000
Cs =	Cs = 0.278	Cs = 0.3000

Total Base Shear:
 Longitudinal Force, V = 24.53 (k)
 Transverse Force, V = 34.07 (k)

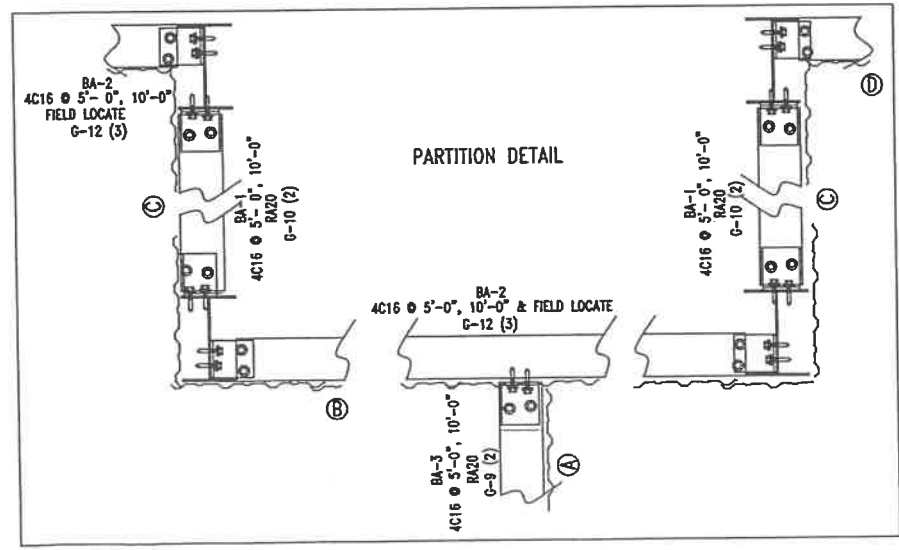
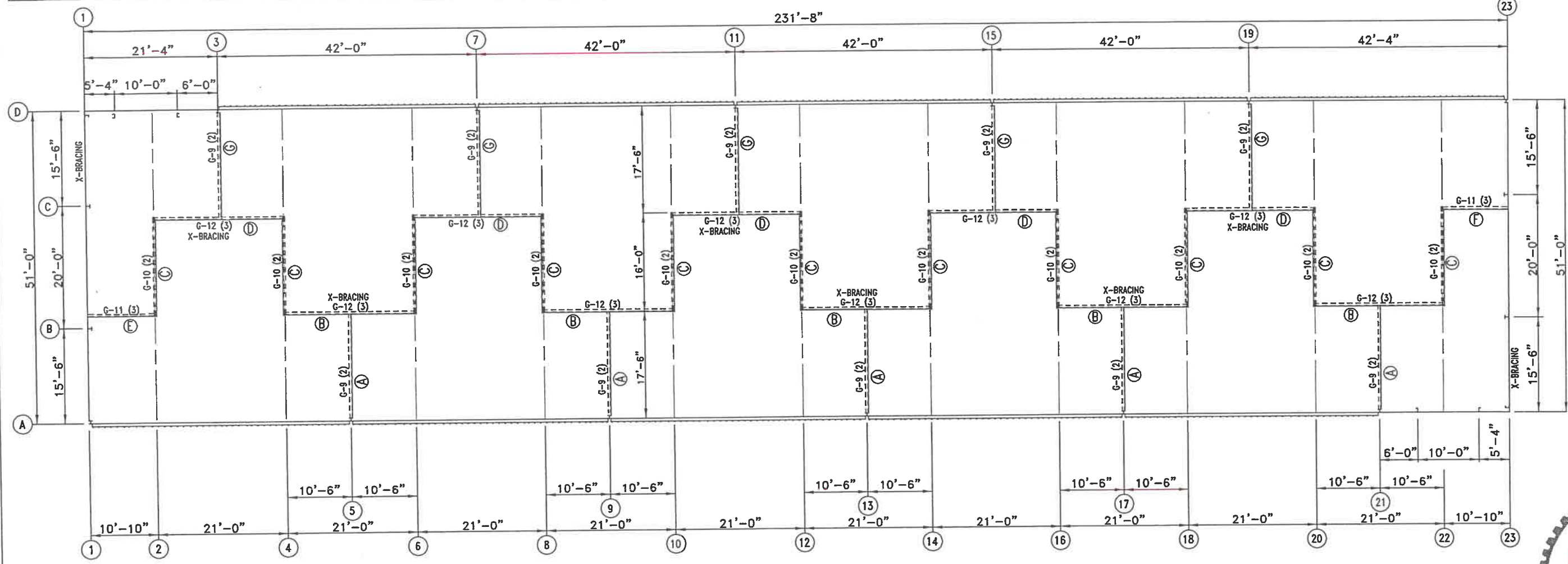


SEP 07 2021



R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83606 208-454-1800 Fax 208-454-1801		
SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER / OF 27

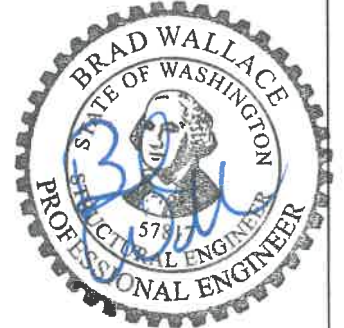
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FLOOR PLAN

FIELD FIT & BOLT ALL PARTITION GIRTS.

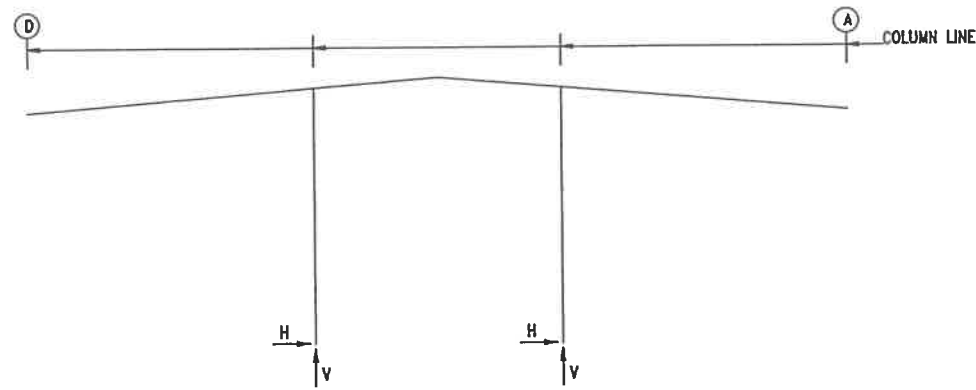
- 1) NO PARTITION TRIM.
- 2) PARTITION SHEETS MUST BE CUT NEATLY.
- 3) DO NOT ALLOW RAGGED EDGES ON PARTITION SHEETS.
- 4) PARTITION GIRTS DOTTED LINE.
- 5) PARTITION PANELS SOLID LINE.
- 6) INSTALL G-10, G-11 & G-12 THEN INSTALL SHEETS B, C, D, E, & F. NOW G-9 CAN BE INSTALLED A & G SHEETS APPLIED.



SEP 07 2021

 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83605 208-454-1800 Fax 208-454-1801		REVISION DRAWN BY RPW
SCALE: DATE: 7/14/21	JOB LOCATION FRIDAY HARBOR, WA	DRAWING NUMBER 2 OF 27
PORT OF FRIDAY HARBOR 10 UNIT NT 51-42 HANGAR		

FRAME LINES: 2 4 6 8 10 12 14 16 18 20 22



NOTES FOR REACTIONS

- All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Building reactions are based on the following building data:
 - Width (ft) = 51.0
 - Length (ft) = 231.7
 - Eave Height (ft) = 14.5/ 14.5
 - Roof Slope (rise/12) = 1.0/ 1.0
 - Dead Load (psf) = 2.1
 - Collateral Load (psf) = 1.0
 - Live Load (psf) = 20.0
 - Ground Snow Load (psf) (Pg) = 25.0
 - Roof Snow Load (psf) (Pt) = 21.0
 - Wind Speed (mph) = 110.0
 - Wind Code = IBC 18
 - Exposure = C
 - Closed/Open = C
 - Importance Wind = 1.00
 - Importance Seismic = 1.00
 - Seismic Zone = D
 - Seismic Coeff (Fa*Sa) = 1.46

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES
THE VERTICAL COMPONENT OF BRACING REACTION IS INCLUDED IN VERTICAL REACTIONS.

Frm Line	Col Line	Column Reactions(k)						Bolt(in)		Base Plate(in)			Grout (in)
		Load Id	Hmax	V	Load Id	Hmin	V	Qty	Dia	Width	Length	Thick	
2*	Ø17.8	7	1.2	3.0	4	-1.3	0.8	4	0.750	6.000	8.125	0.500	0.0
		8	-0.2	18.6	2	-0.6	-7.1						
2*	Ø33.2	5	1.3	0.8	6	-1.2	3.0	4	0.750	6.000	8.125	0.500	0.0
		9	0.2	18.6	3	0.6	-7.1						
2* Frame lines:		2	4	6	8	10	12	14	16	18	20	22	

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead		Collateral		Live		Snow		Wind_Left1		Wind_Right1	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	Ø17.8	0.0	1.9	0.0	0.5	-0.3	10.7	-0.3	11.2	-1.0	-13.8	1.4	-3.1
2*	Ø33.2	0.0	1.9	0.0	0.5	0.3	10.7	0.3	11.2	-1.4	-3.1	1.0	-13.8
Frame Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	Ø17.8	-1.1	-9.5	1.3	1.2	0.4	-11.7	0.1	-6.0	-1.7	-3.0	1.7	3.0
2*	Ø33.2	-1.3	1.2	1.1	-9.5	-0.1	-6.0	-0.4	-11.7	-1.7	3.0	1.7	-3.0
Frame Line	Column Line	Seismic_Long		MIN_SNOW		F1UNB_SL_L		F1UNB_SL_R					
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert				
2*	Ø17.8	0.0	-2.2	-0.3	10.7	-0.2	16.1	-0.2	0.9				
2*	Ø33.2	0.0	-2.2	0.3	10.7	0.2	0.9	0.2	16.1				
2* Frame lines:		2	4	6	8	10	12	14	16	18	20	22	

ANCHOR BOLT SUMMARY

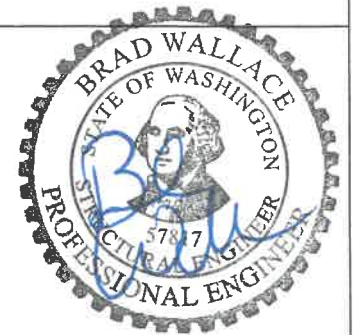
Qty	Locate	Dia (in)	Type	Proj (in)
8	Jamb	1/2"	GR36	1.00
24	Endwall	3/4"	GR36	2.00
88	Frame	3/4"	GR36	2.00
48	Soldier	3/4"	GR36	2.00

BUILDING BRACING REACTIONS

Wall Loc	Line	Col Line	± Reactions(k)				Panel Shear (lb/ft)	
			Wind Horiz	Wind Vert	Seismic Horiz	Seismic Vert	Wind	Seis
L_EW	1	D,C	0.8	0.8	2.7	2.6	1667	476
F_SW	A							
R_EW	23	A,B	0.8	0.8	2.7	2.6	1667	476
B_SW	D							
INT	Ø17.8	2,4	0.6	0.5	3.1	2.2		
	Ø17.8	10,12	0.6	0.5	3.1	2.2		
	Ø17.8	18,20	0.6	0.5	3.1	2.2		
	Ø33.2	4,6	0.6	0.5	3.1	2.2		
	Ø33.2	12,14	0.6	0.5	3.1	2.2		
Ø33.2	16,18	0.6	0.5	3.1	2.2			

- Dead+Collateral+Live
- 0.6Dead+0.6Wind_Left1
- 0.6Dead+0.6Wind_Right1
- 1.14Dead+1.14Collateral+0.7Seismic_Left
- 1.14Dead+1.14Collateral+0.7Seismic_Right
- 0.46Dead+0.7Seismic_Left
- 0.46Dead+0.7Seismic_Right
- Dead+Collateral+F1UNB_SL_L
- Dead+Collateral+F1UNB_SL_R
- 0.6Dead+0.6Wind_Left1+0.6Wind_Suction
- 0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
- 0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
- 1.1Dead+1.1Collateral+0.52Seismic_Left+0.75E1UNB_SL_L
- 0.6Dead+0.6Wind_Right1+0.6Wind_Suction
- 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
- Dead+Collateral+E1UNB_SL_R
- 0.6Dead+0.6Wind_Suction+0.6Wind_Long2L
- 0.6Dead+2.4Wind_Pressure
- 0.6Dead+2.4Wind_Suction
- 1.1Dead+1.1Collateral+0.52Seismic_Left+0.75E2UNB_SL_L
- Dead+Collateral+E2UNB_SL_R
- 1.15Dead+1.15Collateral+0.75Snow+0.53Seismic_LongR+0.75Slide_Snow

Pf = 0.7 Ce Ct I Pg
 Ce = 1
 Ct = 1.2
 I = 1
 Pg = 25.0 PSF
 Pf = 21.0 PSF
 UNBALANCED LOAD = 28.2 PSF



SEP 07 2021

R & M STEEL COMPANY
 P.O. Box 580
 Caldwell, Idaho 83606
 208-454-1800 Fax 208-454-1801

SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
DRAWN BY		DRAWING NUMBER
PORT OF FRIDAY HARBOR		3 OF 17
10 UNIT NT 51-42 HANGAR		

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz
1	D	0.2	0.0	0.7	0.7	-0.8	-1.7	0.0	0.3	-0.8	-1.4	0.0	0.6	-1.0
1	C	0.5	0.1	2.2	2.3	0.0	-2.1	0.8	-2.6	0.0	-1.3	0.8	-1.8	-2.4
1	B	0.5	0.1	2.2	2.3	0.0	-1.8	0.0	-3.0	0.0	-1.0	0.0	-2.1	-2.5
1	A	3.8	0.0	7.6	1.0	0.0	-0.5	0.0	-0.9	0.0	-0.3	0.0	-0.6	-1.0

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	-MIN_SNOW-- Horz	-MIN_SNOW-- Vert	E1UNB_SL_L- Horz	E1UNB_SL_L- Vert
1	D	1.2	0.0	-0.9	-0.1	-0.7	-3.4	-3.4	0.0	3.6	0.0	0.7	0.0	0.7
1	C	2.7	0.1	-3.0	0.0	-1.6	0.0	3.3	3.4	-3.6	0.0	2.2	0.0	2.7
1	B	2.7	0.0	-1.8	0.0	-2.9	0.0	0.1	0.0	-0.1	0.0	2.2	0.0	1.0
1	A	1.1	0.0	-0.5	0.0	-1.0	0.0	-0.1	0.0	0.1	0.0	0.6	0.0	0.1

Frm Line	Col Line	E1UNB_SL_R- Horz	E1UNB_SL_R- Vert
1	D	0.0	0.2
1	C	0.0	0.9
1	B	0.0	2.8
1	A	0.0	0.7

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz
23	A	0.2	0.0	0.7	0.7	-0.8	-1.7	0.0	0.3	-0.8	-1.4	0.0	0.6	-1.0
23	B	0.5	0.1	2.2	2.3	0.0	-2.1	0.8	-2.6	0.0	-1.3	0.8	-1.8	-2.4
23	C	0.5	0.1	2.2	2.3	0.0	-1.8	0.0	-3.0	0.0	-1.0	0.0	-2.1	-2.5
23	D	3.8	0.0	7.6	1.0	0.0	-0.5	0.0	-0.9	0.0	-0.3	0.0	-0.6	-1.0

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	-MIN_SNOW-- Horz	-MIN_SNOW-- Vert	E2UNB_SL_L- Horz	E2UNB_SL_L- Vert
23	A	1.2	0.0	-0.9	-0.1	-0.7	-3.4	-3.4	0.0	3.6	0.0	0.7	0.0	0.7
23	B	2.7	0.1	-3.0	0.0	-1.6	0.0	3.3	3.4	-3.6	0.0	2.2	0.0	2.7
23	C	2.7	0.0	-1.8	0.0	-2.9	0.0	0.1	0.0	-0.1	0.0	2.2	0.0	1.0
23	D	1.1	0.0	-0.5	0.0	-1.0	0.0	-0.1	0.0	0.1	0.0	0.6	0.0	0.1

Frm Line	Col Line	E2UNB_SL_R- Horz	E2UNB_SL_R- Vert
23	A	0.0	0.2
23	B	0.0	0.9
23	C	0.0	2.8
23	D	0.0	0.7

SOLDIER COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Live Vert	Snow Vert	Wind Press Horz	Wind Suct Horz	Wind Suct Vert	Wind Long1 Horz
5	A	6.7	2.1	0.6	1.4	-1.5	-1.4	-1.0
9	A	6.7	2.1	0.6	1.4	-1.5	-1.4	-1.0
13	A	6.7	2.1	0.6	1.4	-1.5	-1.4	-1.0
17	A	6.7	2.1	0.6	1.4	-1.5	-1.4	-1.0
21	A	6.7	2.1	0.6	1.4	-1.5	-1.4	-1.0
3	D	6.7	2.1	0.6	1.4	-1.5	-1.4	-1.0
7	D	6.7	2.1	0.6	1.4	-1.5	-1.4	-1.0
11	D	6.7	2.1	0.6	1.4	-1.5	-1.4	-1.0
15	D	6.7	-1.4	0.6	1.4	-1.5	-1.4	-1.0
19	D	6.7	2.1	2.1	1.4	-1.5	-1.4	-1.0

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


Frm Line	Col Line	Column_Reactions(k)					Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in)		Thick	Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H					Width	Length		
1	D	10	0.7	-0.9	11	-0.6	-0.4	4	0.750	6.500	6.000	0.250	0.0	
1	C	5	0.0	2.8	6	0.0	-2.3	4	0.750	6.500	6.000	0.250	0.0	
1	B	12	1.6	-1.5	11	-1.5	-1.5	4	0.750	6.500	6.000	0.250	0.0	
1	A	13	0.0	4.5	7	0.0	-2.3	4	0.750	6.500	6.000	0.250	0.0	
23	A	14	1.6	-1.5	15	-1.5	-1.4	4	0.750	6.500	6.000	0.250	0.0	
23	B	16	0.0	3.4	14	1.6	-1.5	4	0.750	6.500	6.000	0.250	0.0	
23	C	17	0.7	1.7	15	-0.6	1.7	4	0.750	6.000	6.000	0.375	0.0	
23	D	1	0.0	11.5	6	0.0	-2.3	4	0.750	6.500	6.000	0.250	0.0	
23	B	12	1.6	-1.5	11	-1.5	-1.5	4	0.750	6.500	6.000	0.250	0.0	
23	C	20	0.0	4.5	7	0.0	-2.3	4	0.750	6.500	6.000	0.250	0.0	
23	D	14	1.6	-1.5	15	-1.5	-1.4	4	0.750	6.500	6.000	0.250	0.0	
23	A	21	0.0	3.4	14	1.6	-1.5	4	0.750	6.000	6.000	0.375	0.0	
23	B	17	0.7	1.7	15	-0.6	1.7	4	0.750	6.000	6.000	0.375	0.0	
23	C	1	0.0	11.5	6	0.0	-2.3	4	0.750	6.500	6.000	0.250	0.0	

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

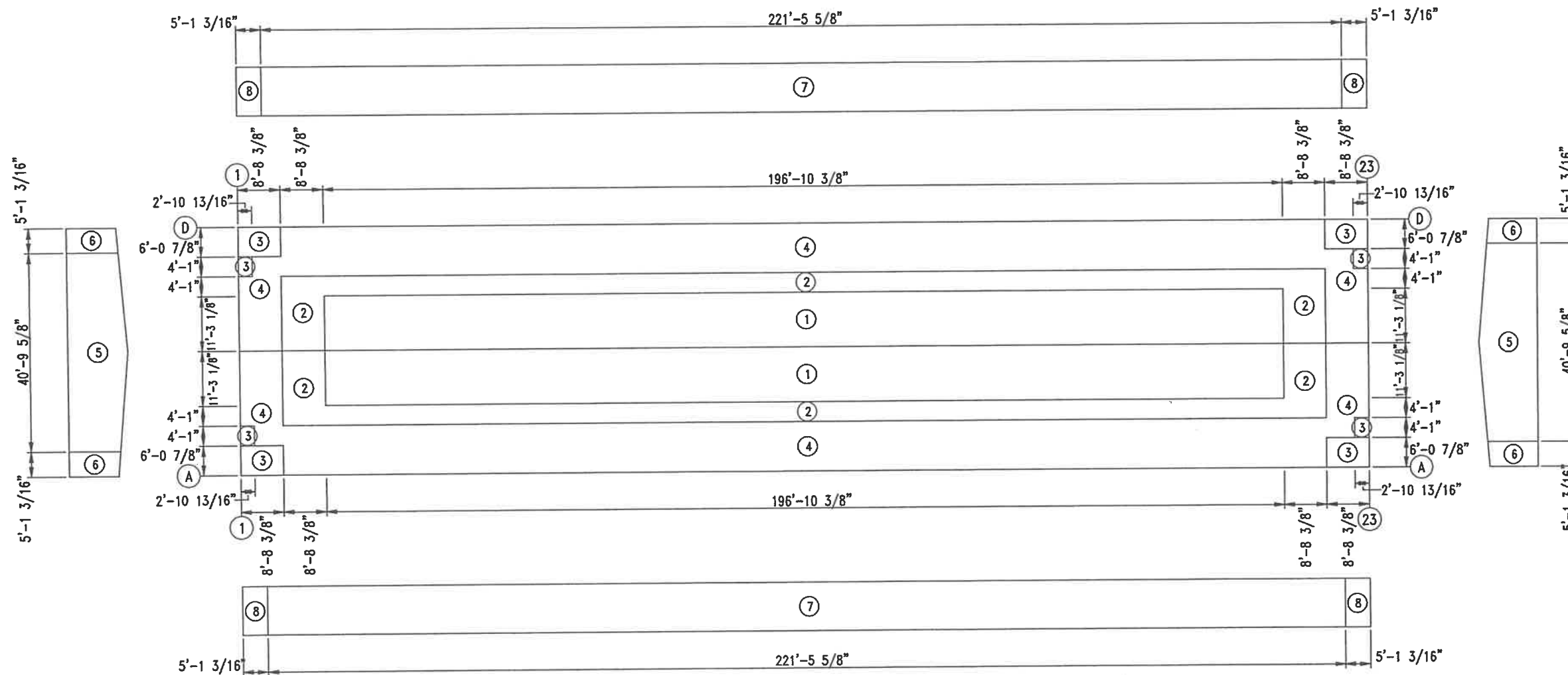
Frm Line	Col Line	Column_Reactions(k)					Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in)		Thick	Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H					Width	Length		
5	A	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
5	A	1	0.0	8.8	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
9	A	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
9	A	1	0.0	8.8	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
13	A	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
13	A	1	0.0	8.8	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
17	A	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
17	A	1	0.0	8.8	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
21	A	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
21	A	1	0.0	8.8	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
3	D	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
3	D	1	0.0	8.8	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
7	D	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
7	D	1	0.0	8.8	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
11	D	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
11	D	1	0.0	8.8	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
15	D	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
15	D	22	0.0	8.1	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
19	D	18	3.4	4.0	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	
19	D	22	0.0	9.3	19	-3.7	0.7	4	0.750	6.000	6.000	0.375	0.0	



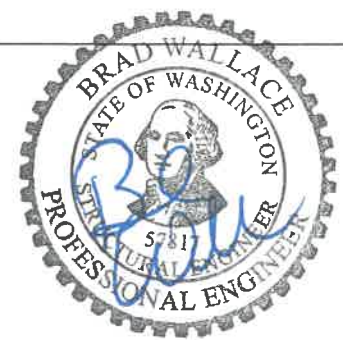
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 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83605 208-454-1800 Fax 208-454-1801		
SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 4 of 27


COMPONENTS AND CLADDING (Unfactored)				
○ Id	Member		Panel	
	Pressure	Suction	Pressure	Suction
1	16.00	-20.60	16.00	-23.94
2	16.00	-29.87	16.00	-41.66
3	16.00	-44.29	16.00	-74.93
4	16.00	-39.76	16.00	-55.06
5	19.35	-21.35	23.94	-31.92
6	19.35	-22.84	23.94	-31.92
7	19.40	-21.30	23.90	-31.90
8	19.40	-22.79	23.90	-31.90



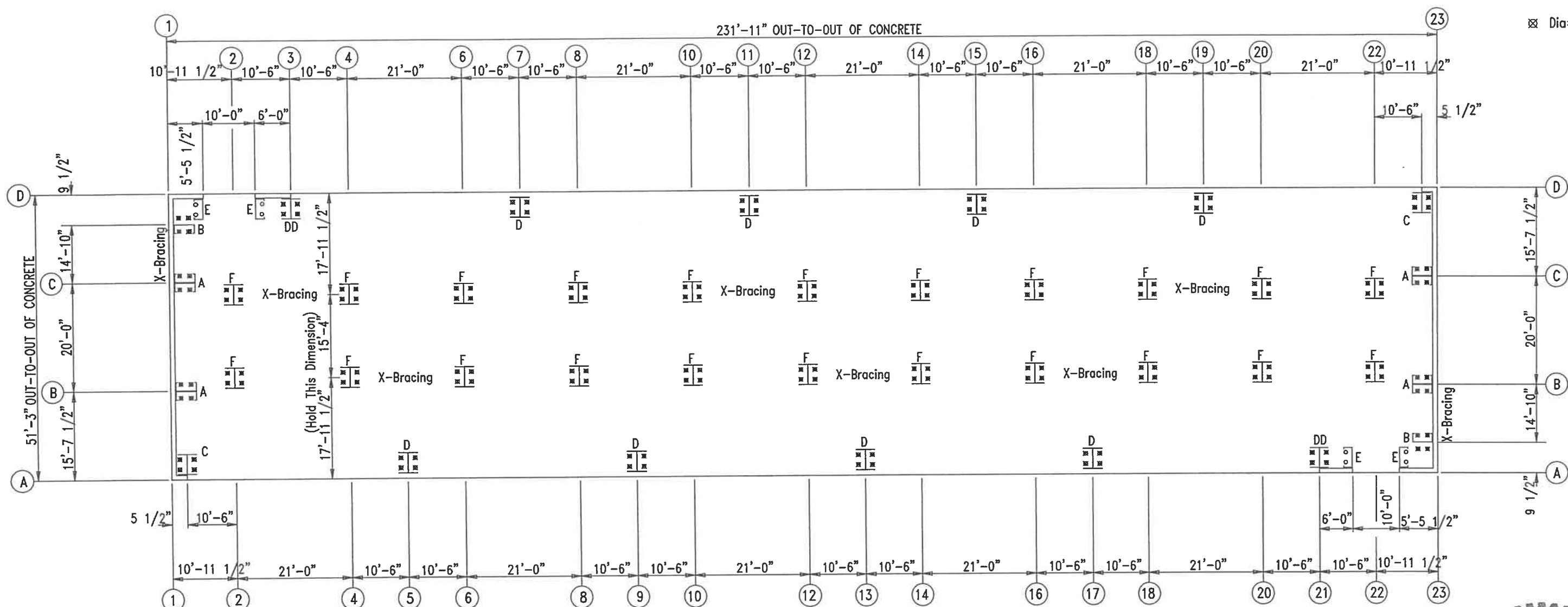
PANEL ZONE LAYOUT
(Wind Pressures, Unfactored (psf))



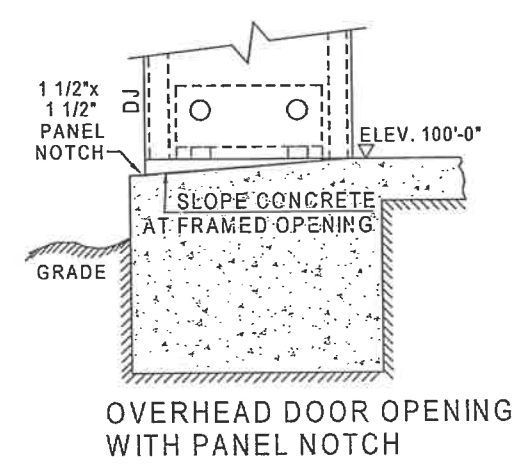
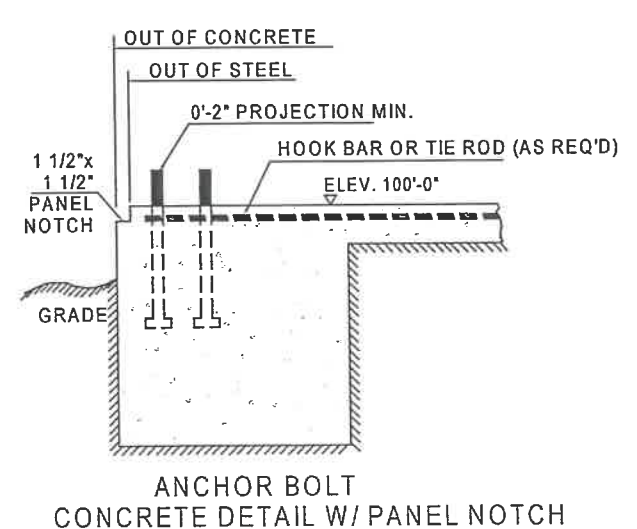
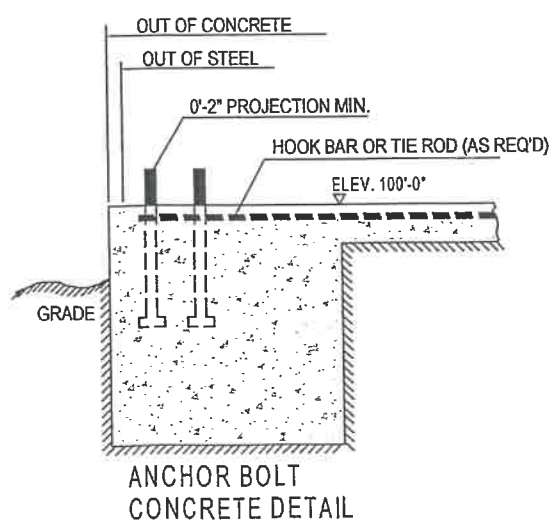
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 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83605 208-454-1800 Fax 208-454-1801		REVISION
		DRAWN BY RPW
SCALE: DATE: 7/14/21	JOB LOCATION FRIDAY HARBOR, WA	DRAWING NUMBER 5 of 27
PORT OF FRIDAY HARBOR		10 UNIT NT 51-42 HANGAR

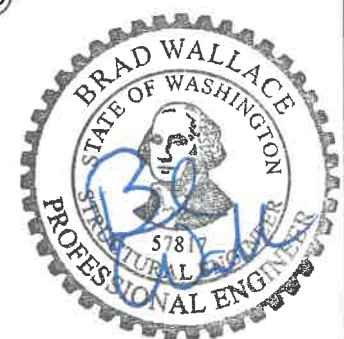
○ Dia= 1/2"
 ⊗ Dia= 3/4"




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

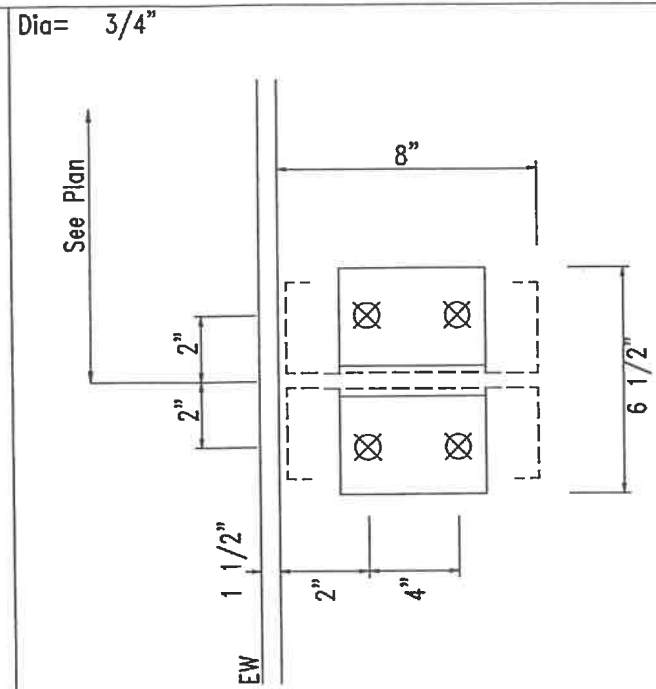


BIFOLD DOOR
 BIFOLD DOOR SEAL
 STEEL LINE
 EXTEND CONCRETE 12" OUTSIDE OF BUILDING. SLOPE 1/4" PER FOOT MINIMUM FOR DRAINAGE
 TO ASSURE PROPER DOOR SEAL EXTEND CONCRETE ADDITIONAL 12" PAST OUT OF CONCRETE LINE @ GRIDS A AND D

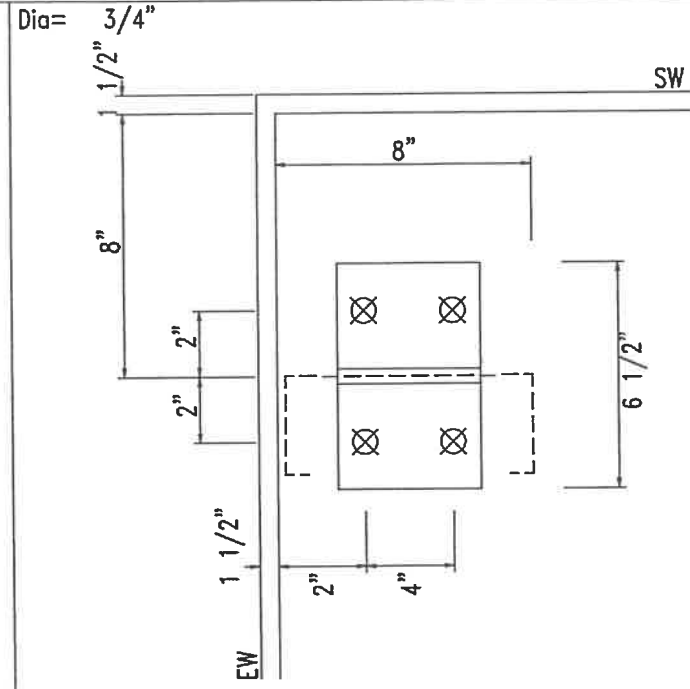


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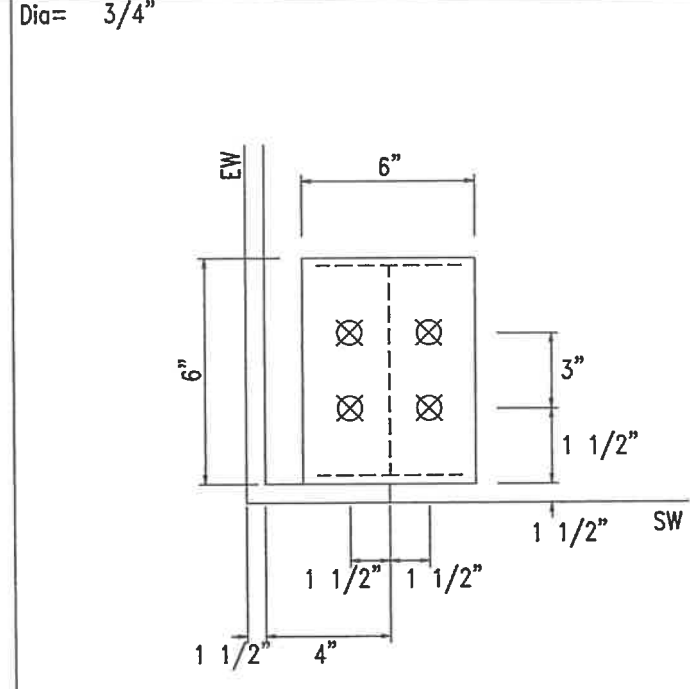
 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83606 208-454-1800 Fax 208-454-1801		REVISION DATE: 7/14/21
SCALE:	JOB LOCATION FRIDAY HARBOR, WA	DRAWN BY RPW
PORT OF FRIDAY HARBOR		DRAWING NUMBER 6 OF 27
10 UNIT NT 51-42 HANGAR		



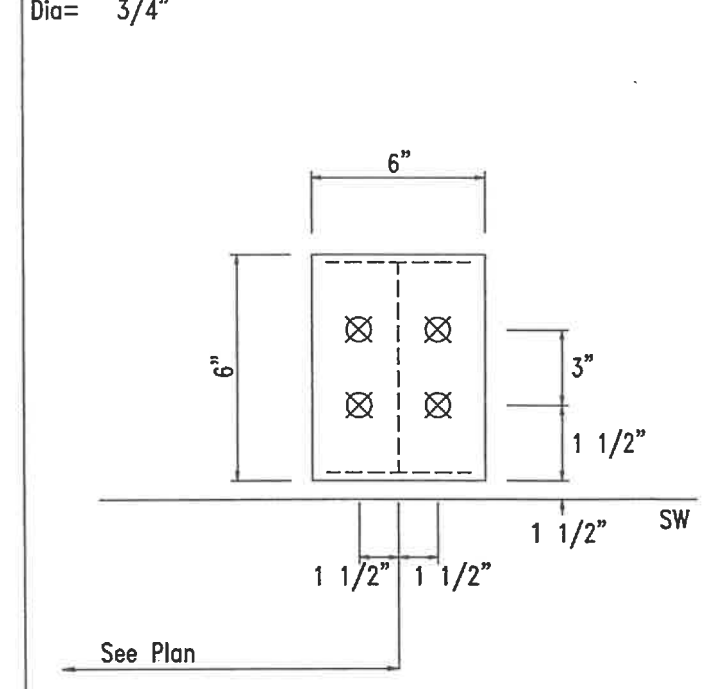
DETAIL A



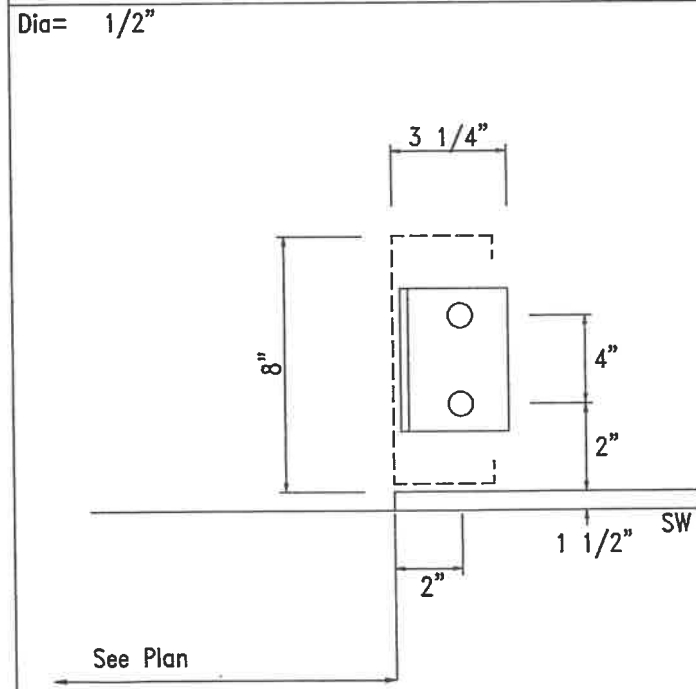
DETAIL B



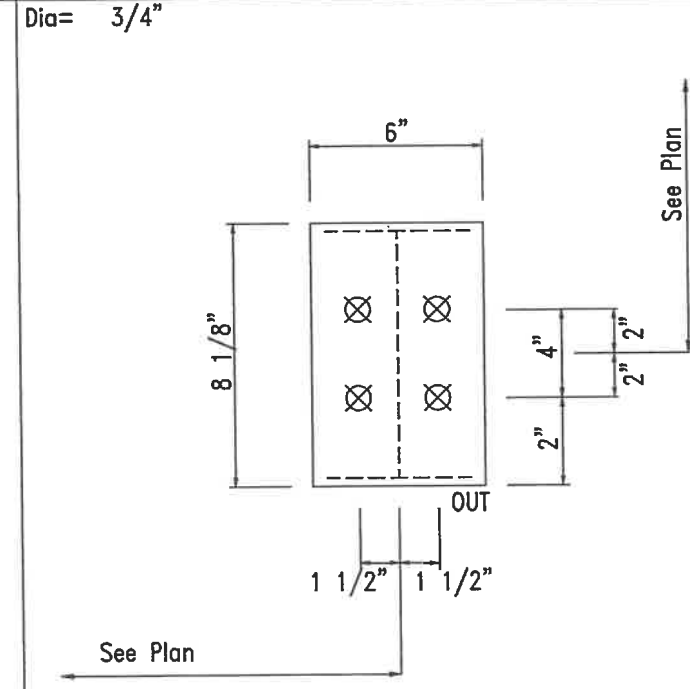
DETAIL C



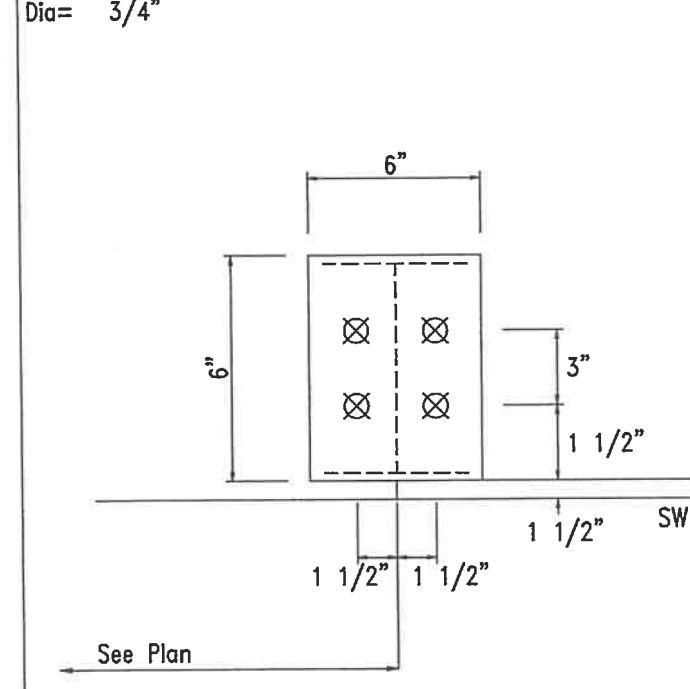
DETAIL D



DETAIL E




DETAIL F



DETAIL DD



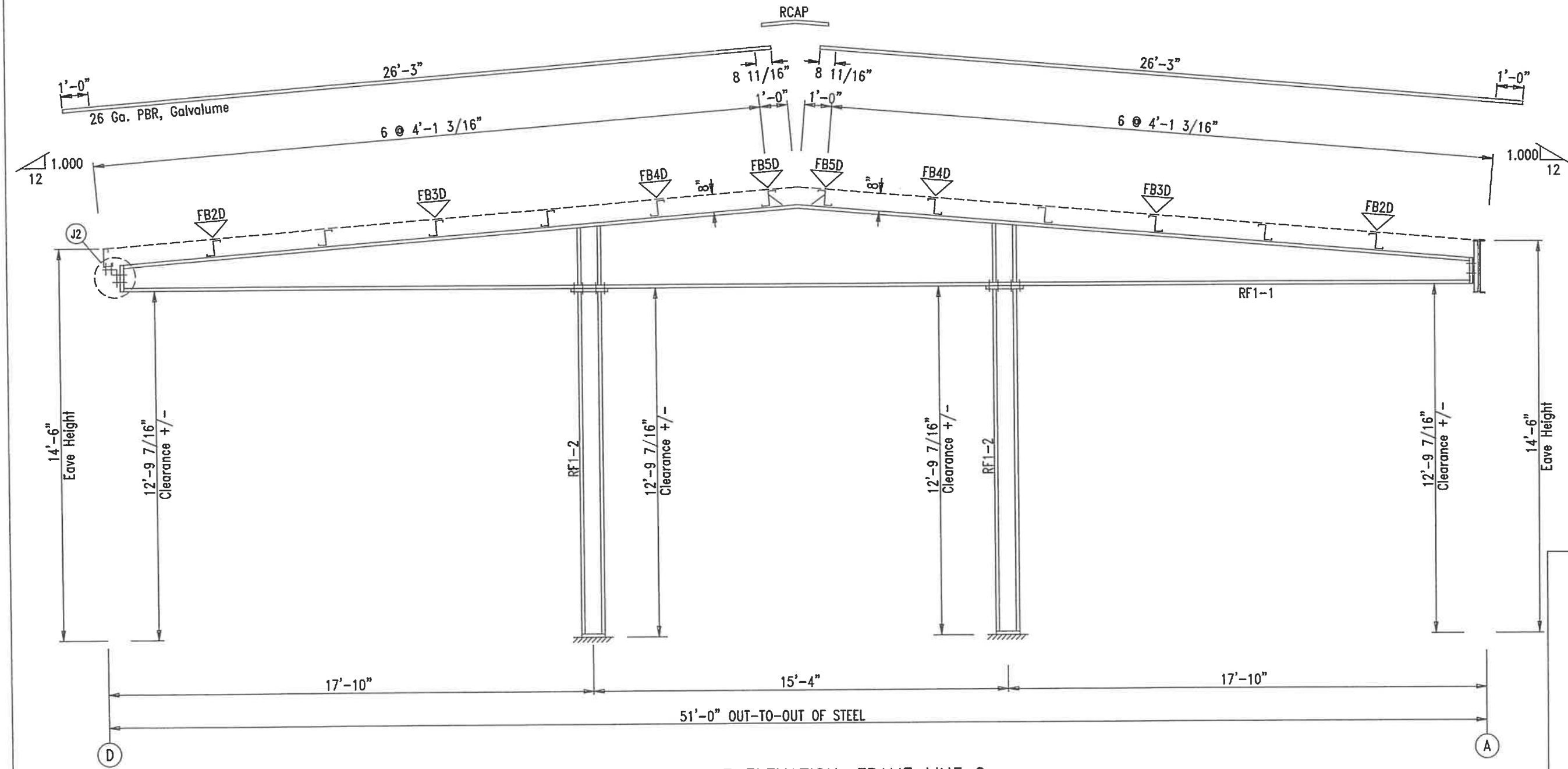
SEP 07 2021

 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83606 208-454-1800 Fax 208-454-1801		REVISION DATE: 7/14/21
SCALE:		JOB LOCATION FRIDAY HARBOR, WA
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 7 of 27

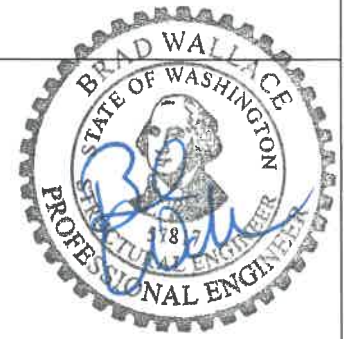
CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
RF1-2	8	A325	0.750	2.50

FLANGE BRACES: Both Sides(U.N.)
 FBxxD(1)
 D - L2x2x14


Mark	Web Depth		Web Plate		Outside Flange		Inside Flange	
	Start	End	Thick	Length	W x Thk x Length	W x Thk x Length	W x Thk x Length	
RF1-1	12.0	31.9	0.150	240.0	6 x 1/4" x 307.0		6 x 1/4" x 206.7	
	31.9	37.4	0.150	66.0	6 x 1/4" x 307.0		6 x 1/4" x 169.4	
	37.4	31.9	0.150	66.0			6 x 1/4" x 206.7	
RF1-2	31.9	12.0	0.150	240.0				
	W8x18							



RIGID FRAME ELEVATION: FRAME LINE 2



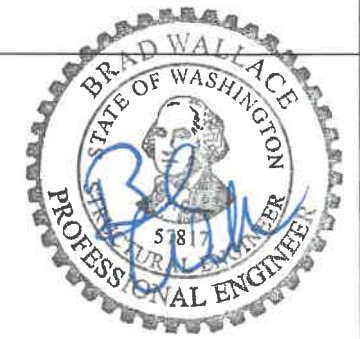
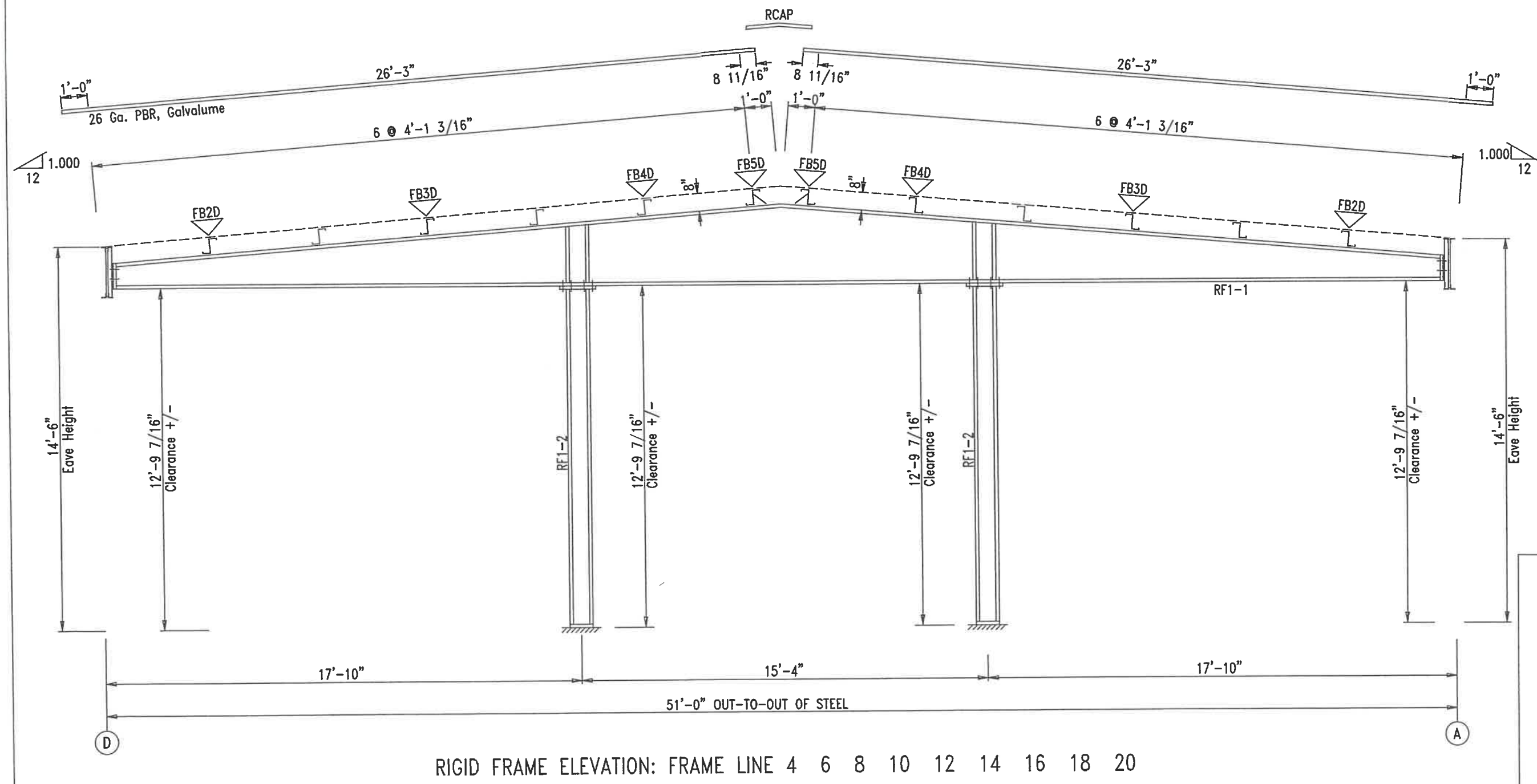
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 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83606 208-454-1800 Fax 208-454-1801		REVISION
		SCALE: DATE: 7/14/21
JOB LOCATION: FRIDAY HARBOR, WA		DRAWN BY: RPW
PORT OF FRIDAY HARBOR		DRAWING NUMBER: 8 of 27
10 UNIT NT 51-42 HANGAR		


CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
RF1-2	8	A325	0.750	2.50

FLANGE BRACES: Both Sides(U.N.)
 FBxxD(1)
 D - L2x2x14

Mark	Web Depth		Web Plate		Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
	Start	End	Thick	Length		
RF1-1	12.0	31.9	0.150	240.0	6 x 1/4" x 307.0 6 x 1/4" x 307.0	6 x 1/4" x 206.7 6 x 1/4" x 169.4 6 x 1/4" x 206.7
	31.9	37.4	0.150	66.0		
	37.4	31.9	0.150	66.0		
	31.9	12.0	0.150	240.0		
RF1-2	W8x18					



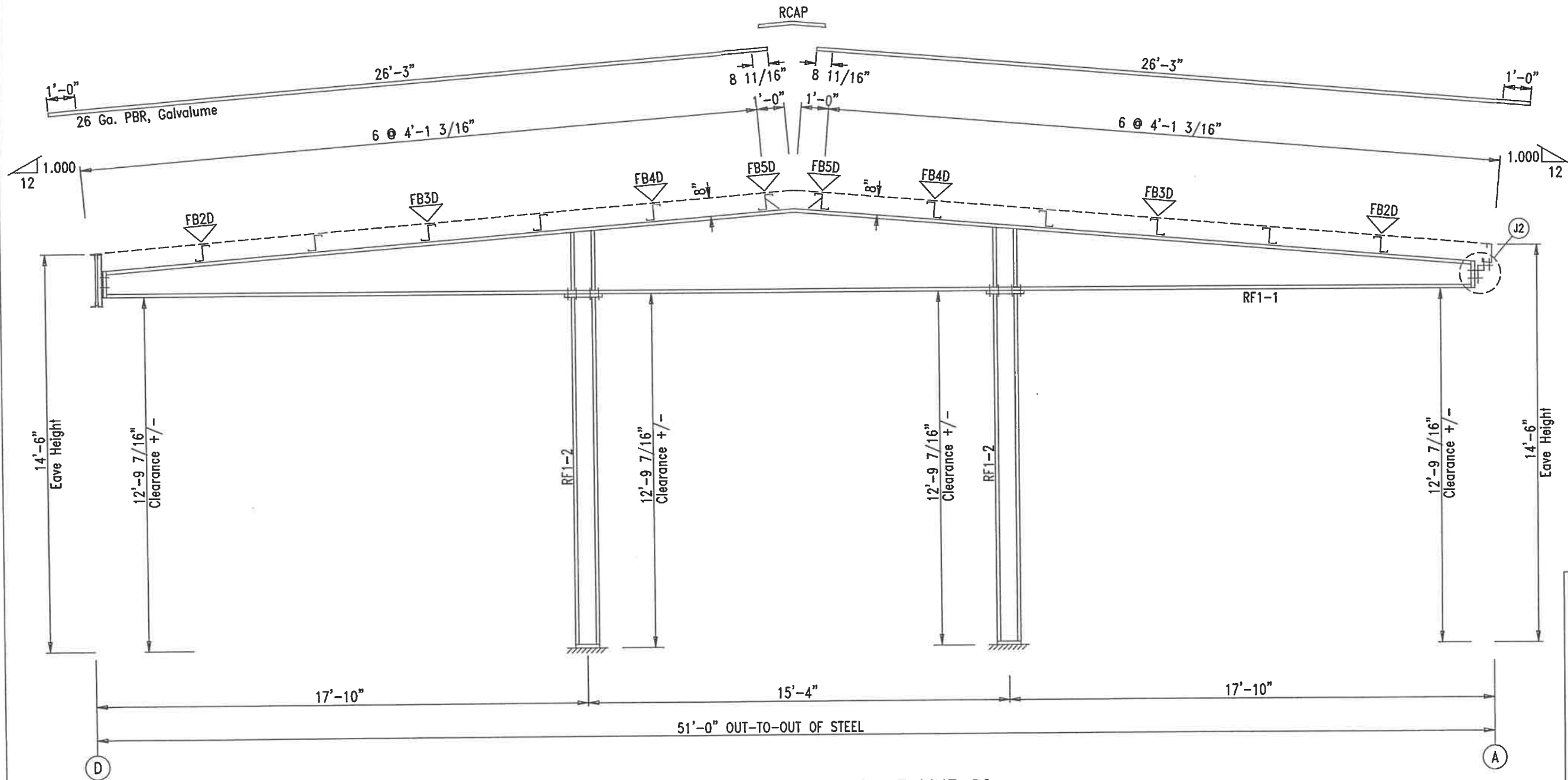
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 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83606 208-454-1800 Fax 208-454-1801		
SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 9 OF 27

CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
RF1-2	8	A325	0.750	2.50

FLANGE BRACES: Both Sides(U.N.)
 FBxD(1)
 D - L2x2x14


Mark	Web Depth		Web Plate		Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
	Start/End	Thick	Length			
RF1-1	12.0/31.9	0.150	240.0		6 x 1/4" x 307.0 6 x 1/4" x 307.0	6 x 1/4" x 206.7 6 x 1/4" x 169.4 6 x 1/4" x 206.7
	31.9/37.4	0.150	66.0			
	37.4/31.9	0.150	66.0			
RF1-2	31.9/12.0	0.150	240.0			
			W8x18			

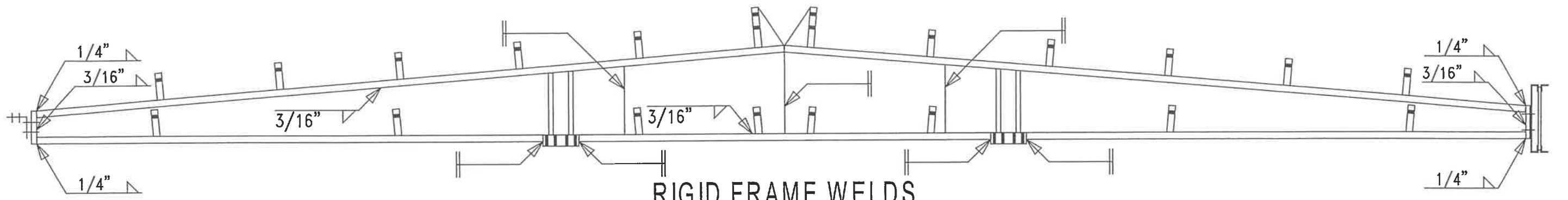


RIGID FRAME ELEVATION: FRAME LINE 22

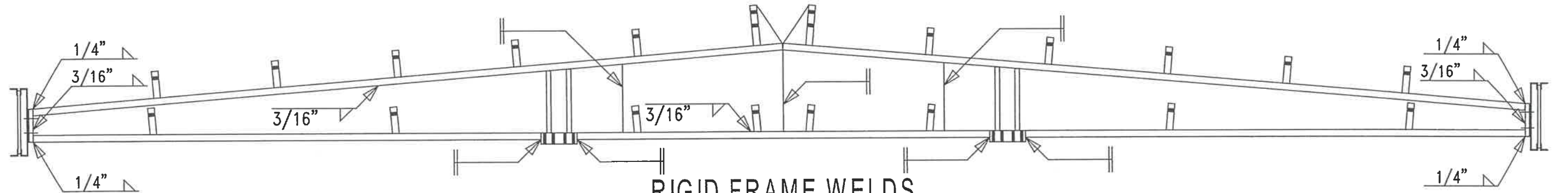


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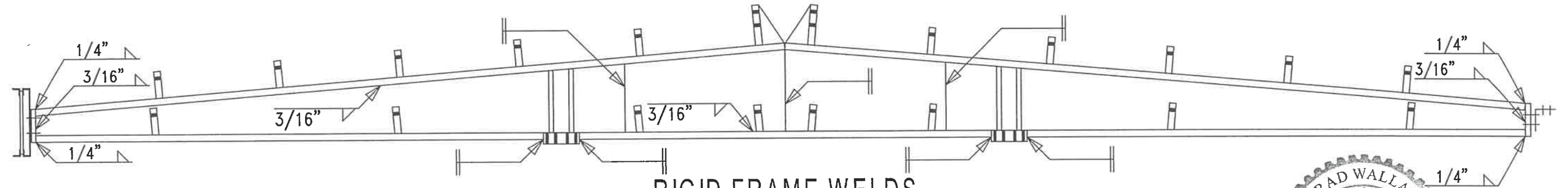
 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83606 208-454-1800 Fax 208-454-1801		
SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 10 of 27



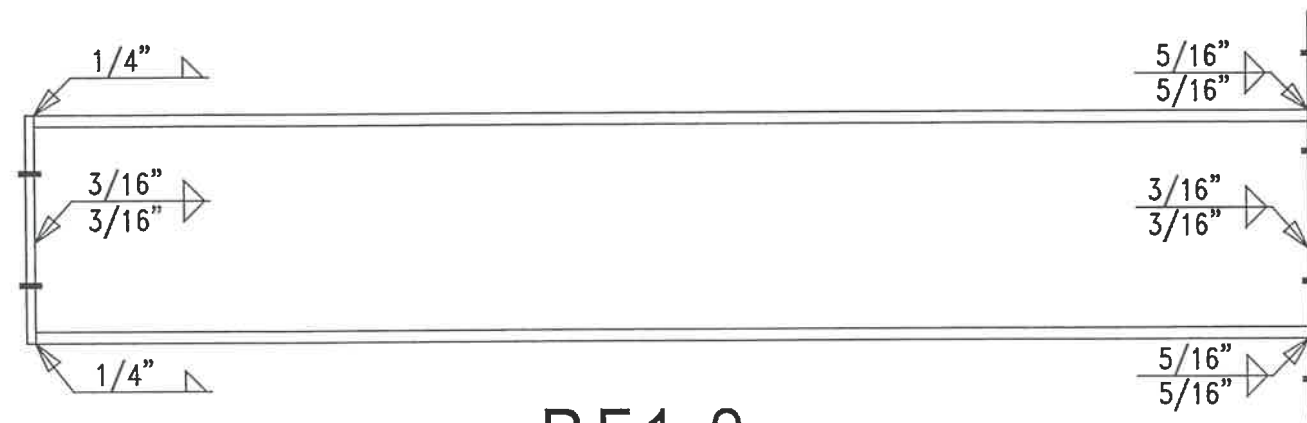
RIGID FRAME WELDS
FOR FRAME LINE 2



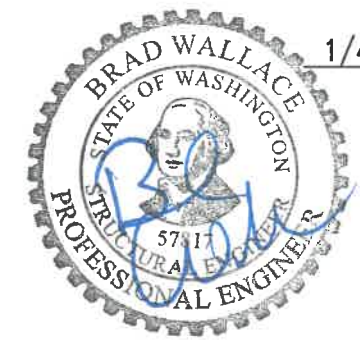
RIGID FRAME WELDS
FOR FRAME LINES 4 6 8 10 12 14 16 18 20




RIGID FRAME WELDS
FOR FRAME LINE 22

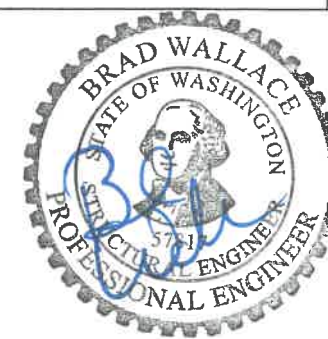
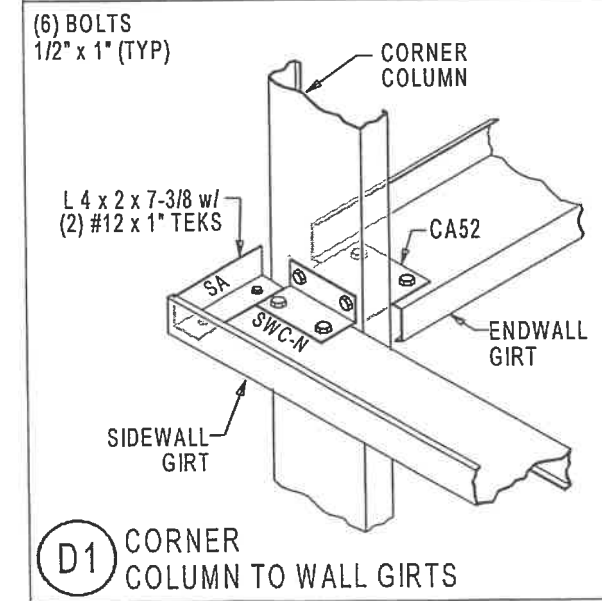
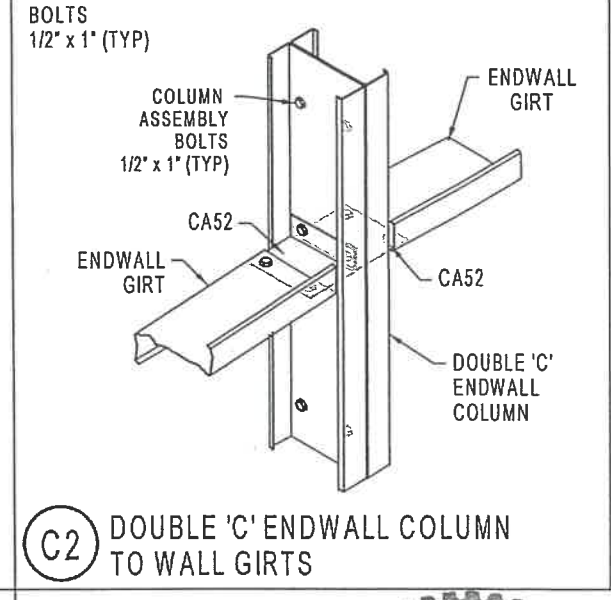
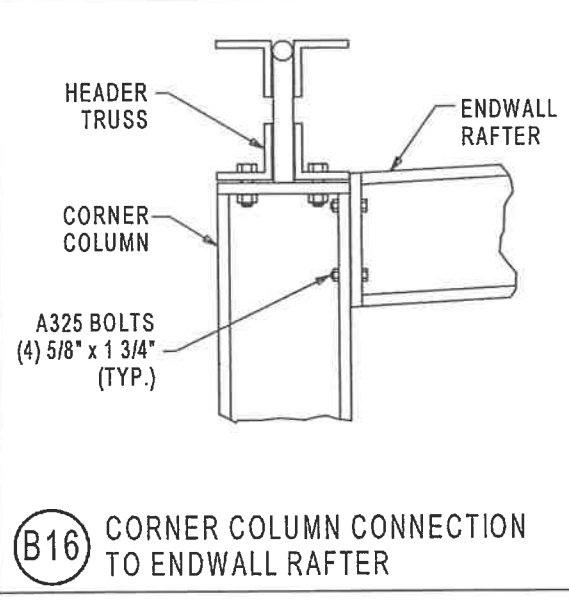
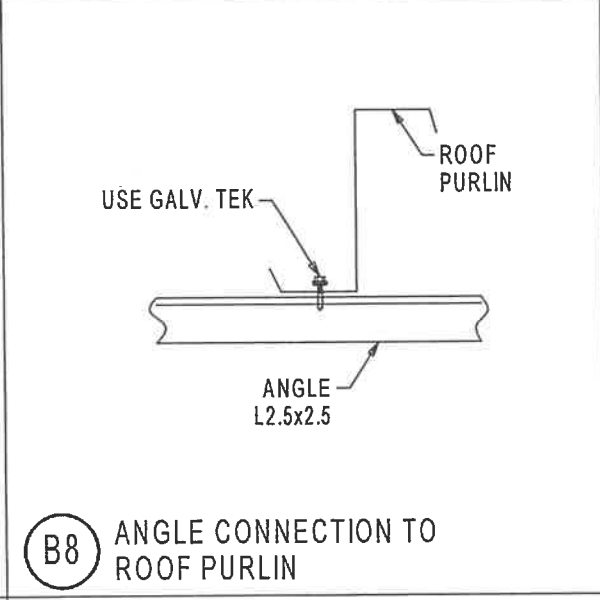
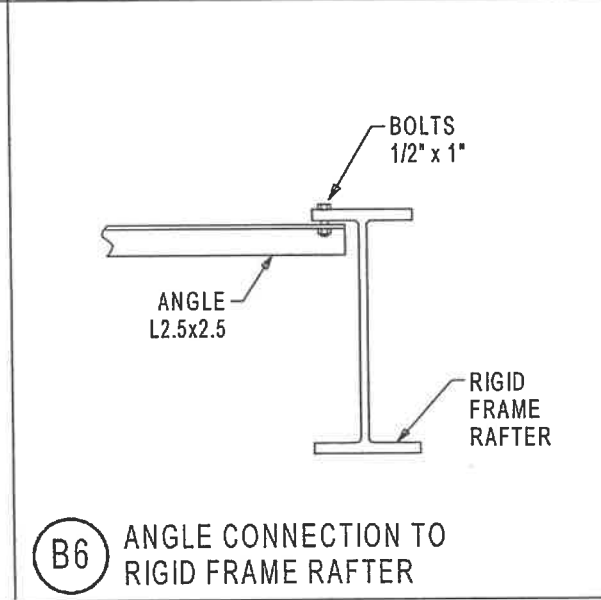
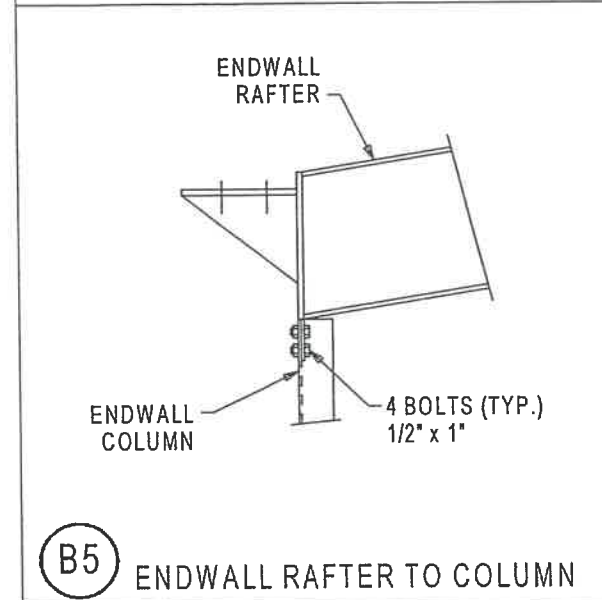
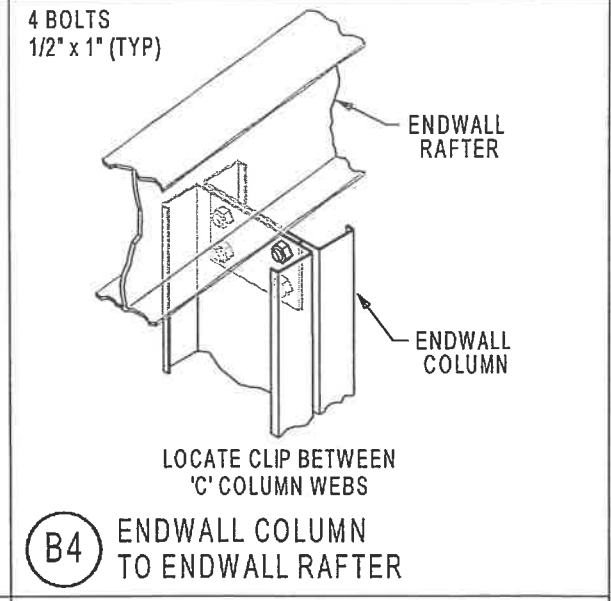
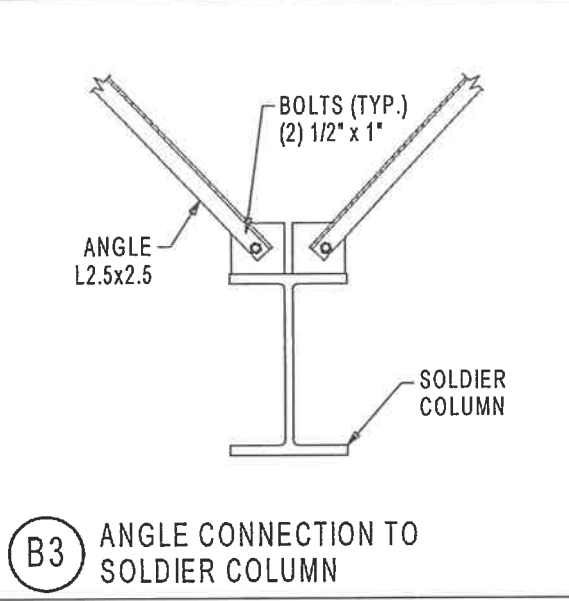
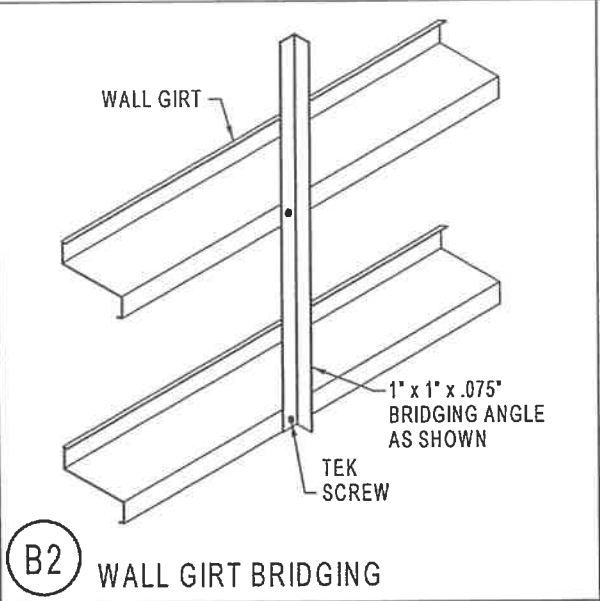
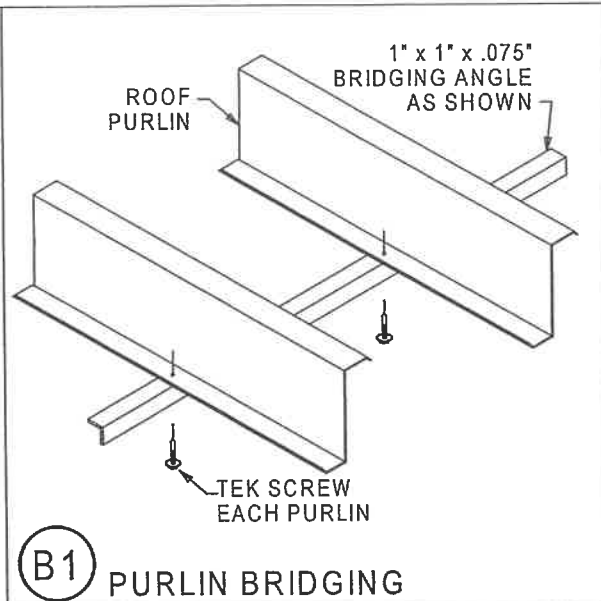
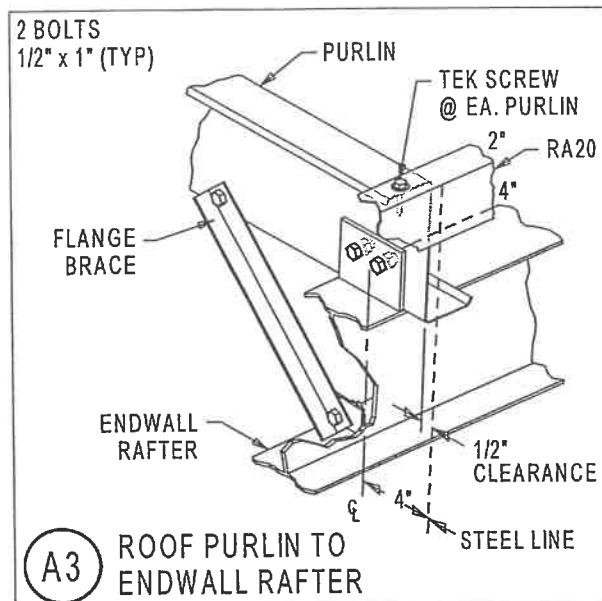


RF1-2



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 R & M STEEL COMPANY <small>P.O. Box 580 Caldwell, Idaho 83606 208-454-1800 Fax 208-454-1801</small>		REVISION
SCALE:	JOB LOCATION	DRAWN BY
DATE: 7/14/21	FRIDAY HARBOR, WA	RPW
PORT OF FRIDAY HARBOR		DRAWING NUMBER
10 UNIT NT 51-42 HANGAR		11 OF 27

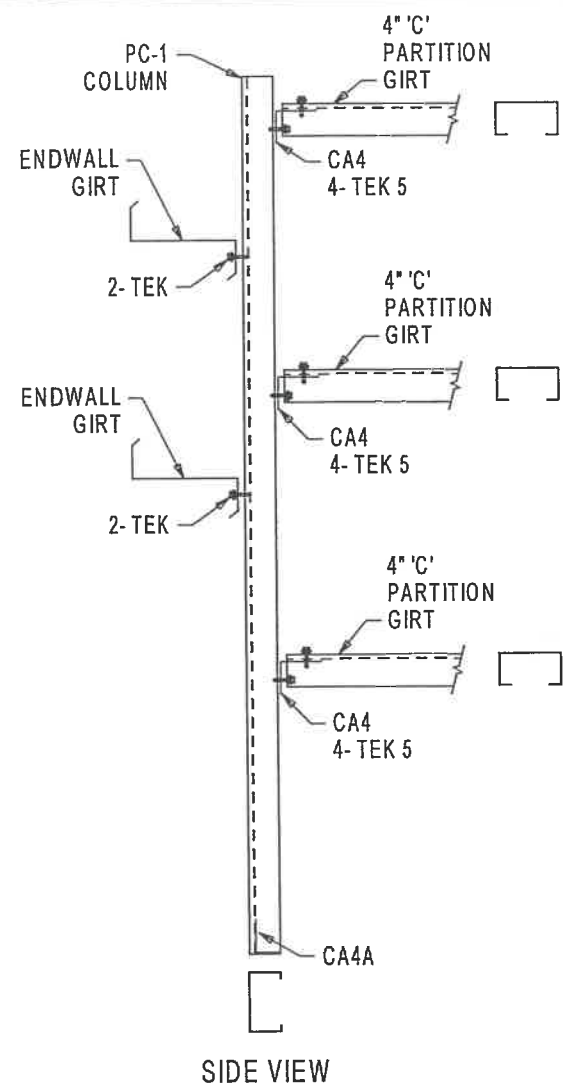


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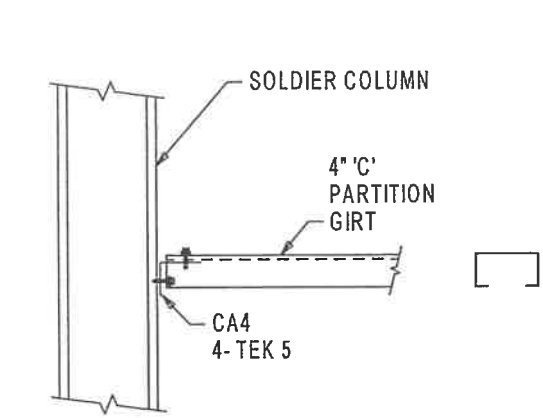


R & M STEEL COMPANY
P.O. Box 580
Caldwell, Idaho 83605
208-454-1800 Fax 208-454-1801

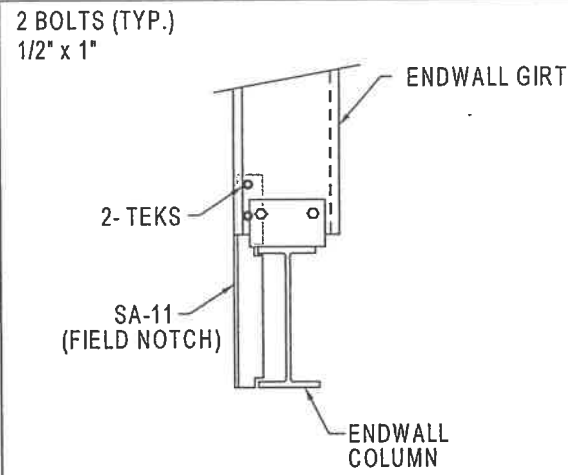
SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 13 OF 27



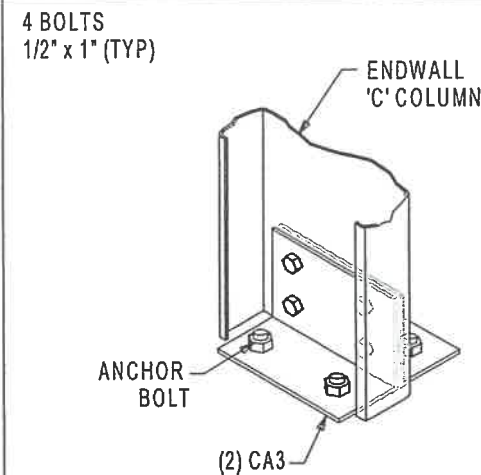
(D19) PARTITION GIRTS CONNECTION TO PC-1 COLUMN



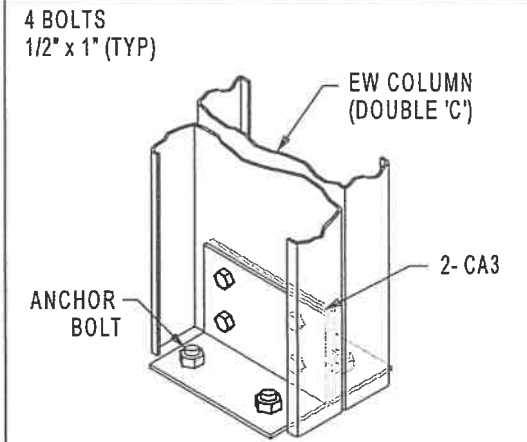
(D20) PARTITION GIRTS CONNECTION TO SOLDIER COLUMN



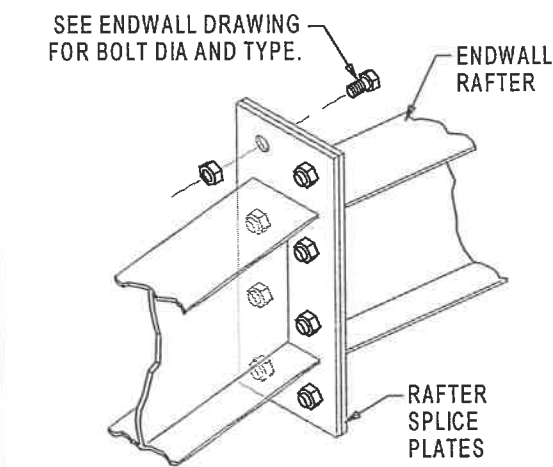
(D25) ENDWALL COLUMN TO WALL GIRTS



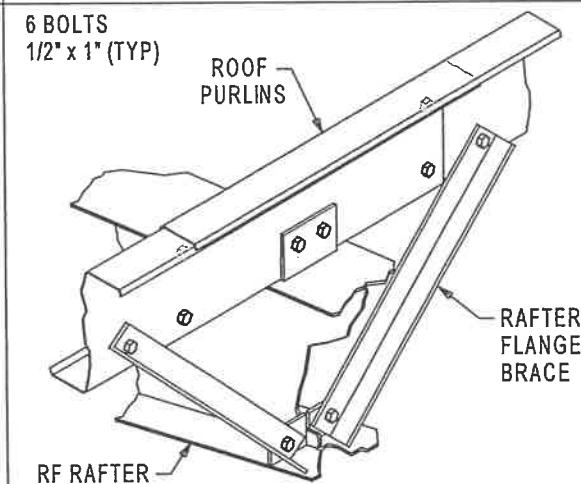
(E1) BASE PLATE FOR EW COLUMN



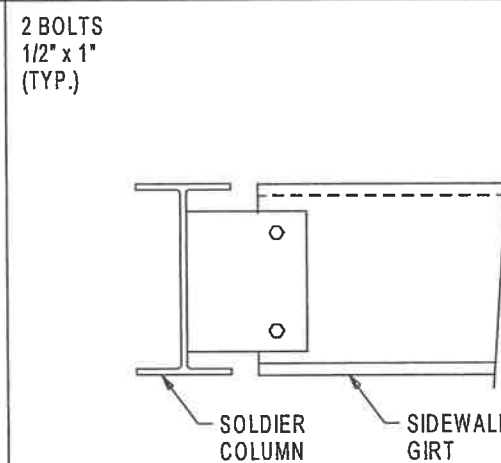
(E2) BASE PLATE FOR EW COLUMN



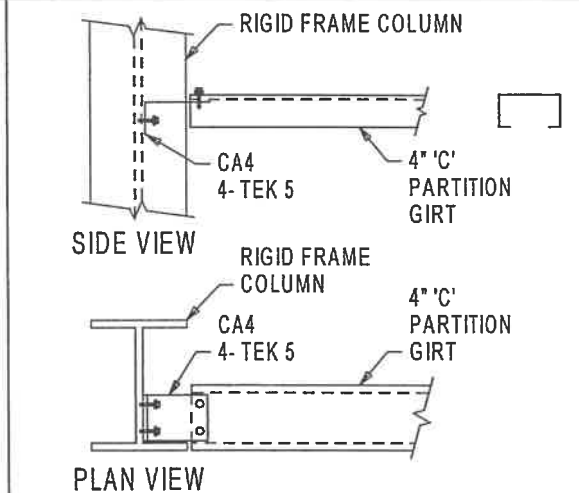
(F12) ENDWALL RAFTER SPLICE AT RIDGE



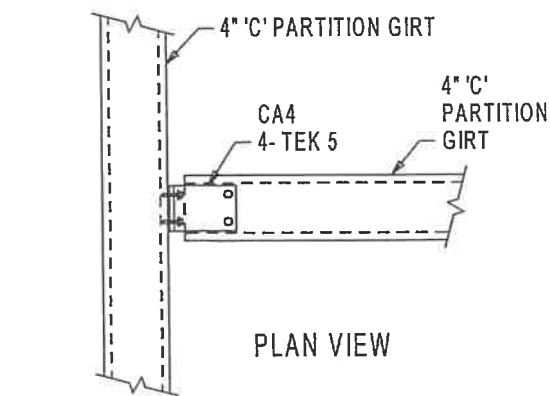
(G1) ROOF PURLIN TO INTERIOR RIGID FRAME RAFTER



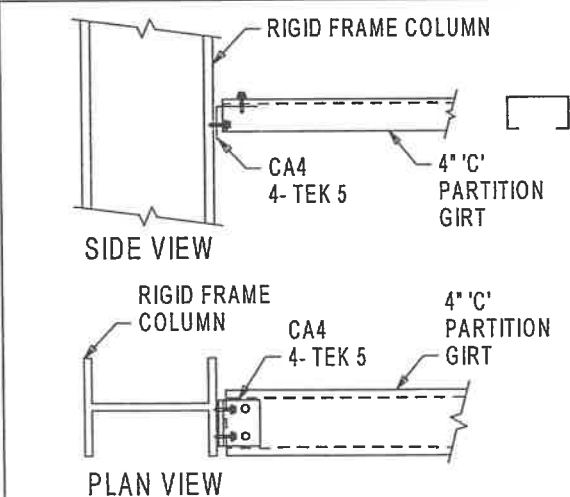
(H6) SOLDIER COLUMN TO WALL GIRT



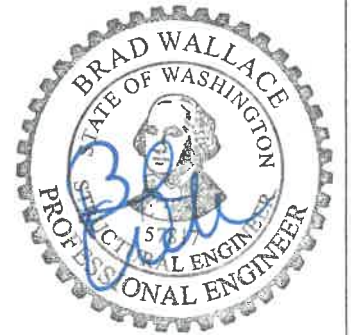
(H19) PARTITION GIRTS CONNECTION TO RIGID FRAME COLUMN



(H20) PARTITION GIRTS CONNECTION TO PARTITION GIRTS



(H21) PARTITION GIRTS CONNECTION TO RIGID FRAME COLUMN

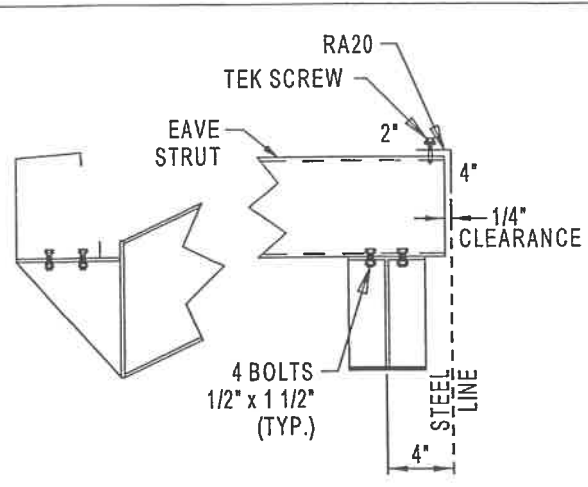


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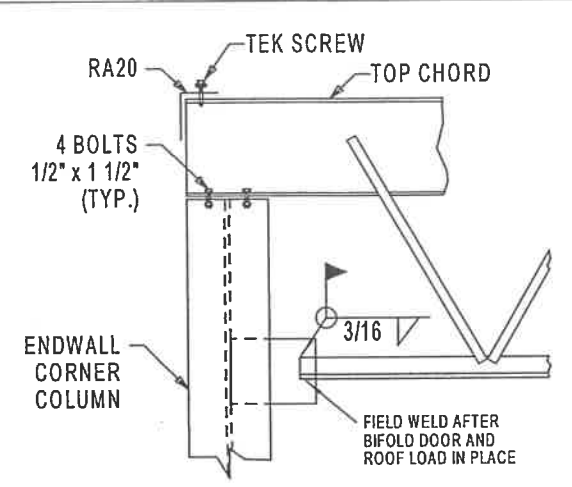


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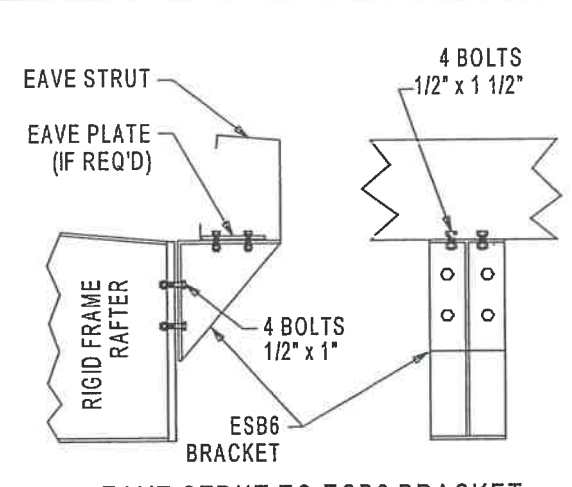
SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 13 OF 27



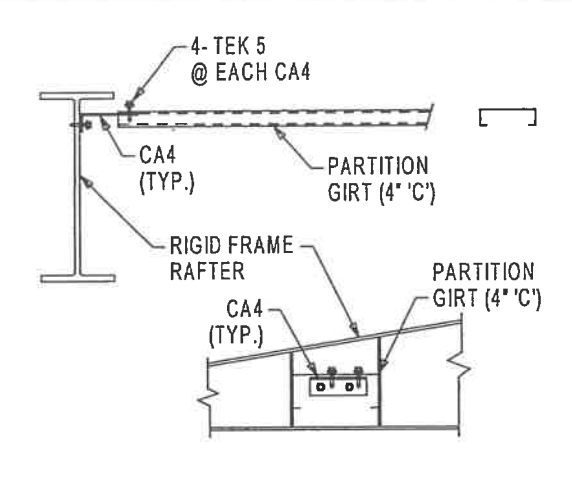
J18 EAVE STRUT TO ENDWALL RAFTER



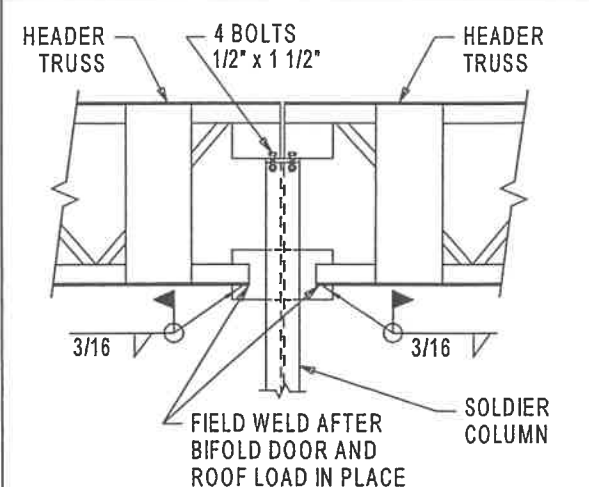
J19 ENDWALL COLUMN CONNECTION TO HEADER TRUSS



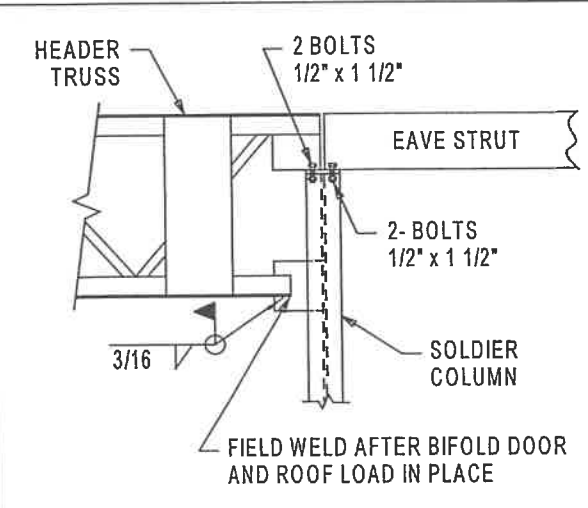
J1 EAVE STRUT TO ESB6 BRACKET & ESB6 BRACKET TO RAFTER - @ INTERIOR BAYS -



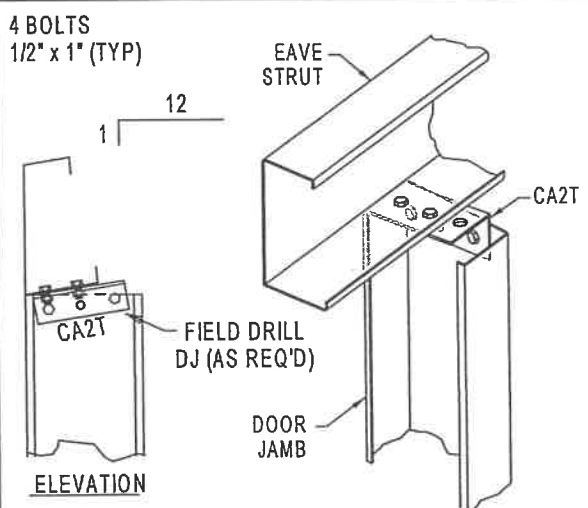
J3 GIRT CONNECTION TO RAFTER @ PARTITION



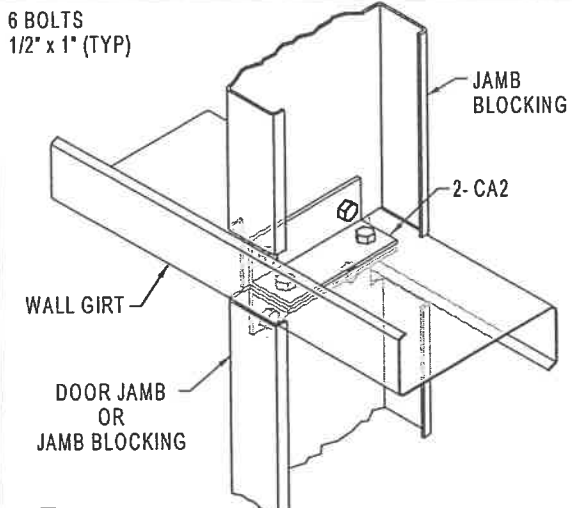
J7 ENDWALL COLUMN CONNECTION TO HEADER TRUSS



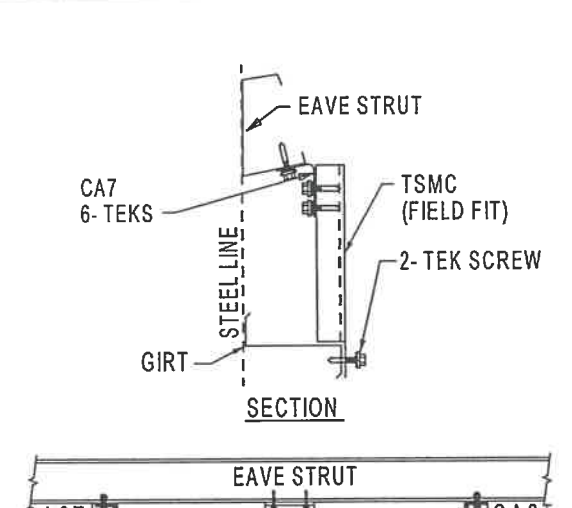
J8 SOLDIER COLUMN CONNECTION TO HEADER TRUSS & EAVE STRUT



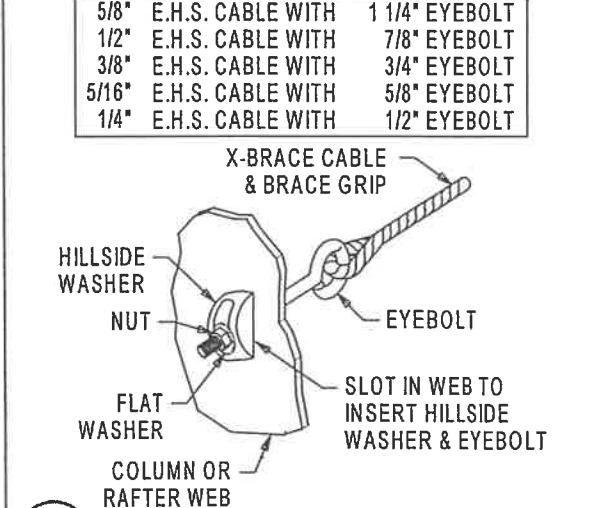
L4 DOOR JAMB TO EAVE STRUT



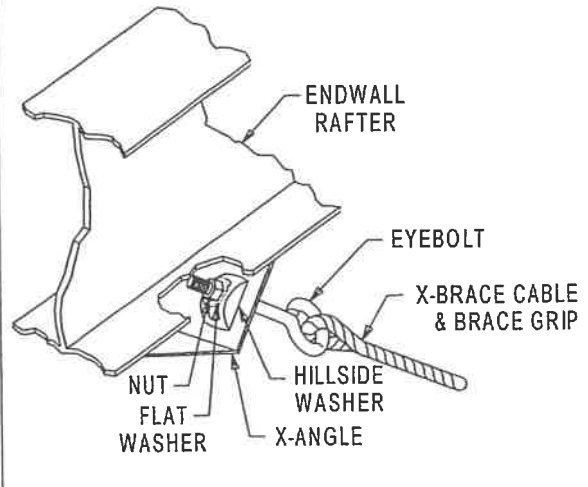
L6 JAMB BLOCKING & DOOR JAMB TO WALL GIRTS



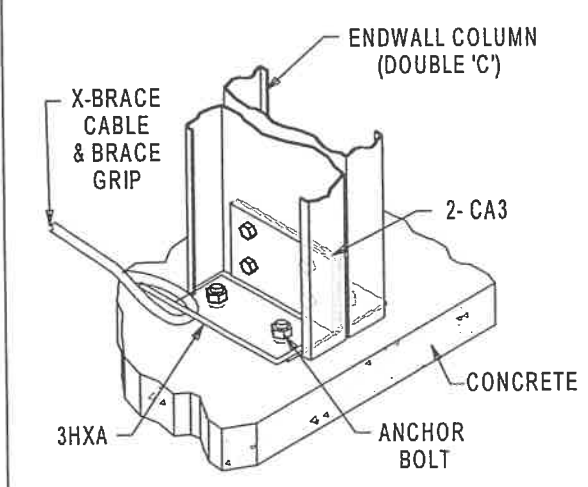
M1 S.S.O.H. DOOR DETAIL



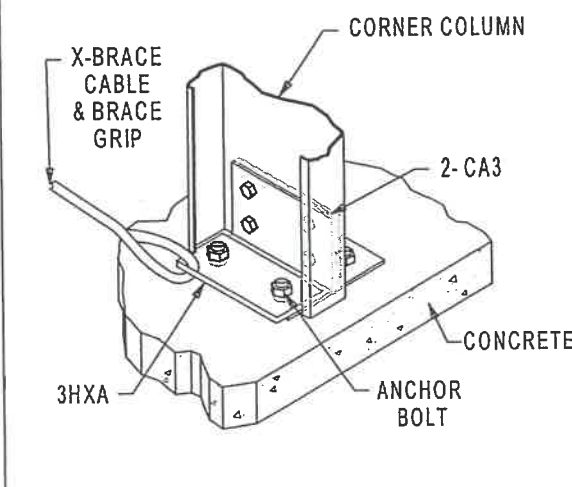
Q2 DIAGONAL CABLE, EYEBOLT END



Q4 DIAGONAL CABLE, EYEBOLT END



Q5 3HXA & (2) CA3 @ ENDWALL COLUMN

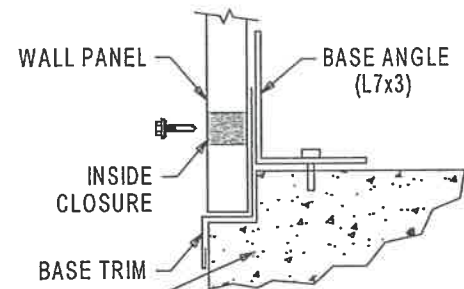


Q8 3HXA & (2) CA3 @ ENDWALL COLUMN

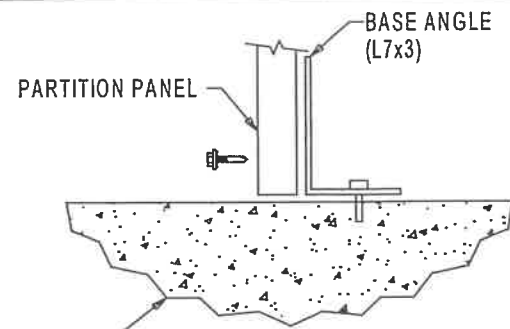
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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 14 OF 27



T1 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



T11 SECTION THRU PARTITION PANEL AND CONCRETE FOUNDATION

1. FIELD CUT X-BRACE THRU GIRTS (AS REQ'D).
2. FIELD CUT X-BRACE TO LENGTH (AS REQ'D).
3. FIELD FIT AND DRILL GIRTS AT CORNER COLUMN (AS REQ'D).
4. FIELD LOCATE WALK DOORS, WINDOWS, AND LOUVERS (AS REQ'D).
5. FIELD FIT WINDSTRUT (AS REQ'D).
6. FIELD CUT 3'-4" ELEV. GIRT AND TEK TO 8 1/4" WALK DOOR JAMB.
7. FIELD FIT FLANGE BRACES AS REQ'D.
8. LAP BRIDGE ANGLE 1", USE (2) 12-14 x 1" TEKS.
9. LAP RAKE ANGLE 1", USE (2) 12-14 x 1" TEKS.

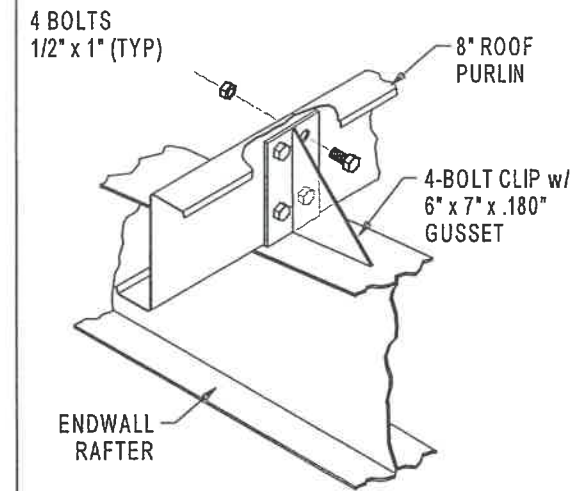
Y1 FIELD NOTES

FORMAT IS BDDxWTHH

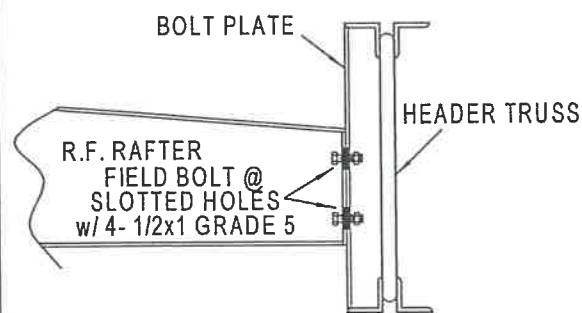
- B = 3 PLATE BUILT UP SECTION.
- DD = WEB DEPTH IN INCHES.
- W = FLANGE WIDTH IN INCHES. (6=6", 8=8", 0=10", 2=12")
- T = FLANGE THICKNESS IN 1/16" INCH UNITS. (3=3/16", 4=1/4", 5=5/16", 6=3/8", 8=1/2", 0=5/8", 2=3/4")
- HH = WEB THICKNESS IN DECIMAL INCH UNITS. (14=.1495, 17=.1793, 25=.2500, 31=.3125)

Y2 BUILT-UP NOTES

rev. 09-21-17

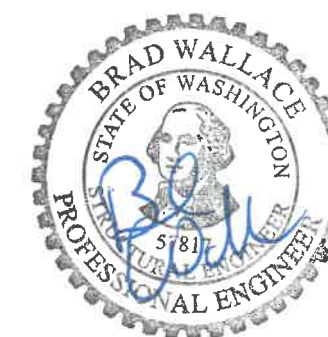


ARC8 ANTI-ROLL CLIP DETAIL



EAVE DETAIL @ HEADER TRUSS

SLIP FIT CONNECTION
DO NOT TIGHTEN BOLTS



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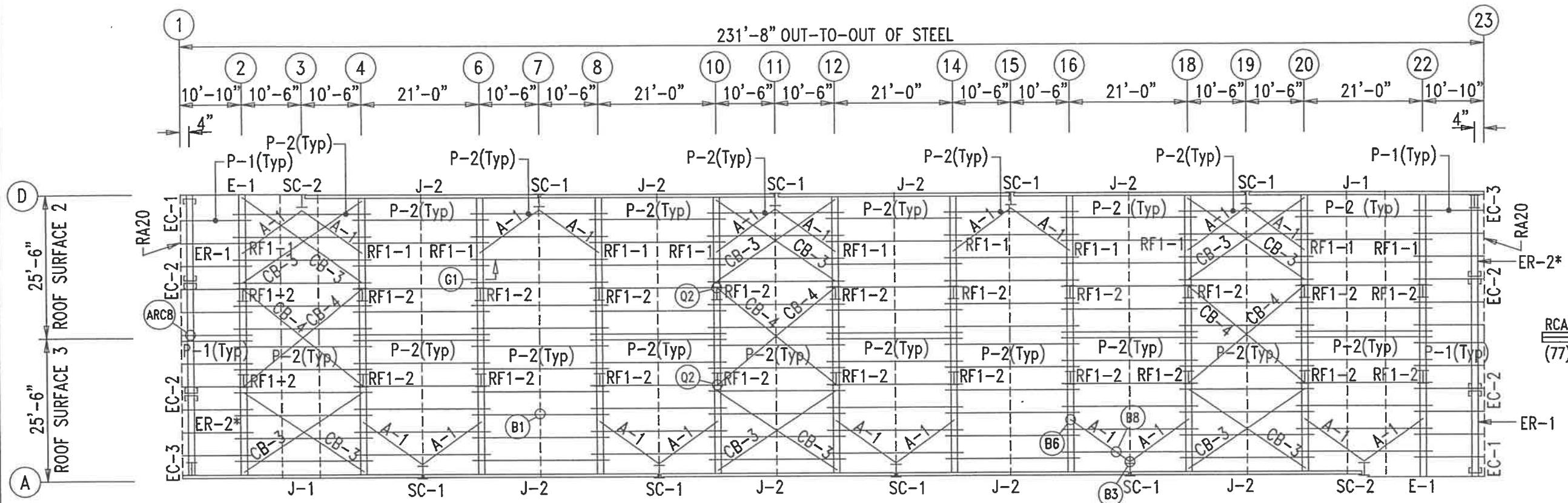
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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	

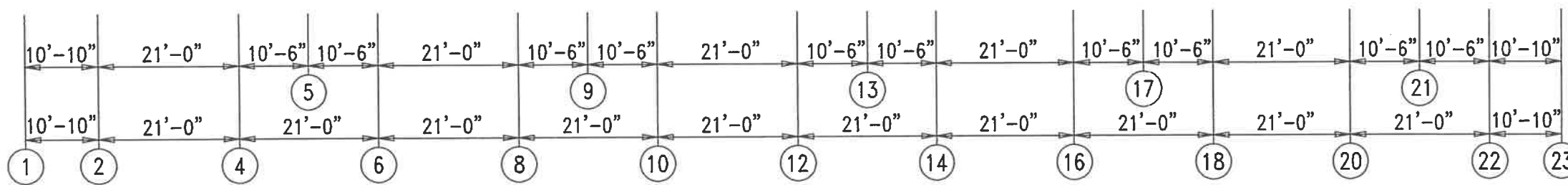
PORT OF FRIDAY HARBOR
DRAWN BY RPW

10 UNIT NT 51-42 HANGAR
DRAWING NUMBER 15 OF 27



ROOF SHEETING
 PANELS: 26 Ga. PBR Galvalume

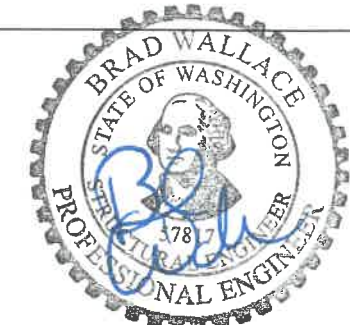
PURLIN LAP 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2" 1'-6 1/2"



ROOF FRAMING PLAN

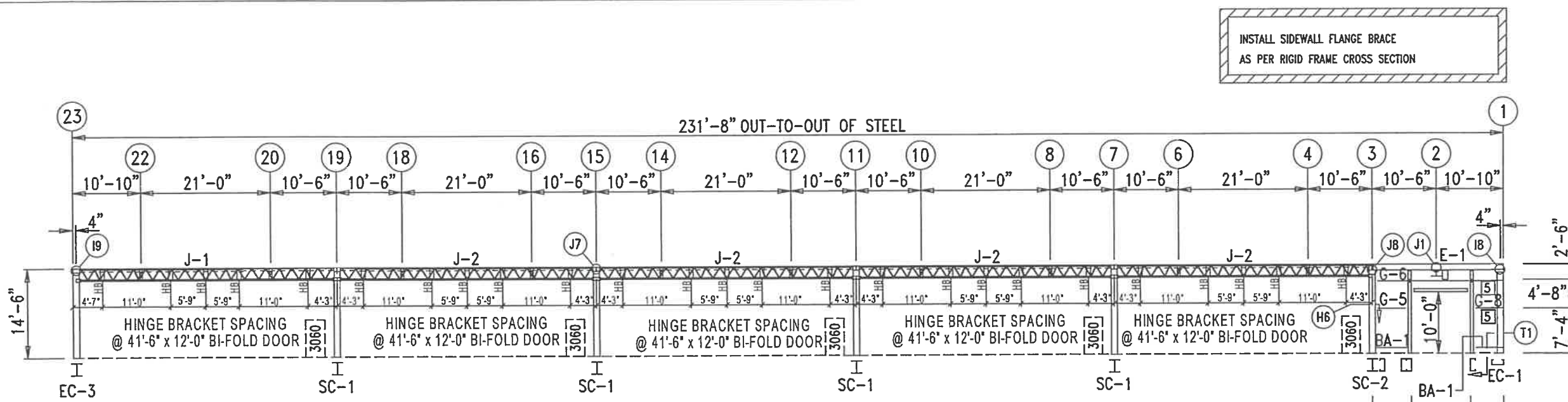
MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	8x25Z16	12'-4"
P-2	8x25Z16	24'-1"
E-1	80x5E14	21'-3 1/2"
CB-3	1/4EHS	26'-0"
CB-4	1/4EHS	25'-0"
SP-1	L 1x1	2'-0 13/16"
SI-1	L 1x1	4'-1 1/16"
SE-1	L 1x1	4'-0 9/16"
A-1	L2.5x2.5x3/16"	14'-3 15/16"
J-1	HEADER TRUSS	42'-3 1/2"
J-2	HEADER TRUSS	41'-11 1/2"

INSTALL ROOF FLANGE BRACE
AS PER RIGID FRAME CROSS
SECTION

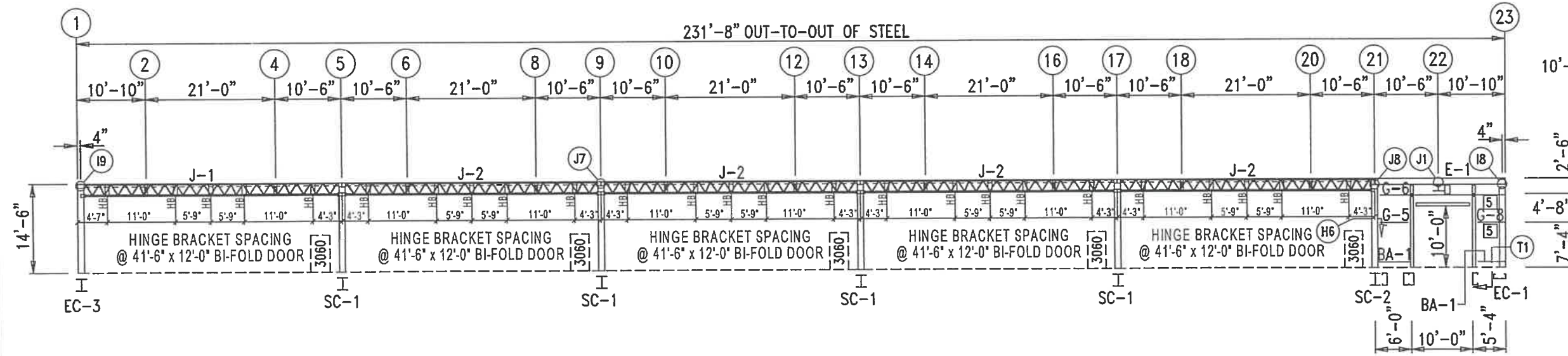


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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 16 OF 27



SIDEWALL FRAMING: GRID D



SIDEWALL FRAMING: GRID A

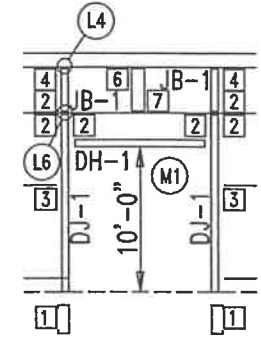
BIFOLD DOOR NOTE:

- 1.) ADJUST BIFOLD DOOR JAMB WHEEL TO APPROXIMATE CENTER OF JAMB COLUMN (1/2" LESS).
- 2.) FIELD DRILL & BOLT HINGE TO HB
- 3.) FIELD WELD HINGE TO HB

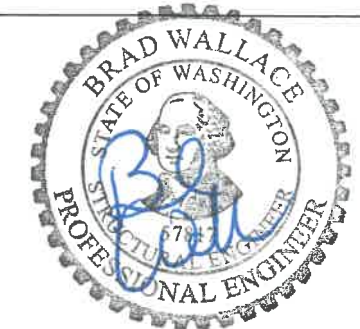
INSTALL SIDEWALL FLANGE BRACE AS PER RIGID FRAME CROSS SECTION

MEMBER TABLE GRID A & D		
MARK	PART	LENGTH
SC-1	W6x15	13'-10"
SC-2	W6x15	13'-10"
DJ-1	8x25C16	12'-0"
DH-1	8x25C16	10'-0"
E-1	80x5E14	21'-3 1/2"
G-5	8x25Z16	5'-4"
G-6	8x25Z16	21'-0"
G-8	8x25Z16	5'-0"
JB-1	8x25C16	1'-10"
J-1	HEADER TRUSS	42'-3 1/2"
J-2	HEADER TRUSS	41'-11 1/2"
BA-1	L7x3	14'-7 3/4"

CONNECTION PLATES GRID A & D	
ID	MARK/PART
1	CA2A
2	CA2
3	CA52
4	CA2T
5	SWC-N
6	CA7
7	TSMC



10'-0" x 10'-0" OVERHEAD DOOR (TYP.)



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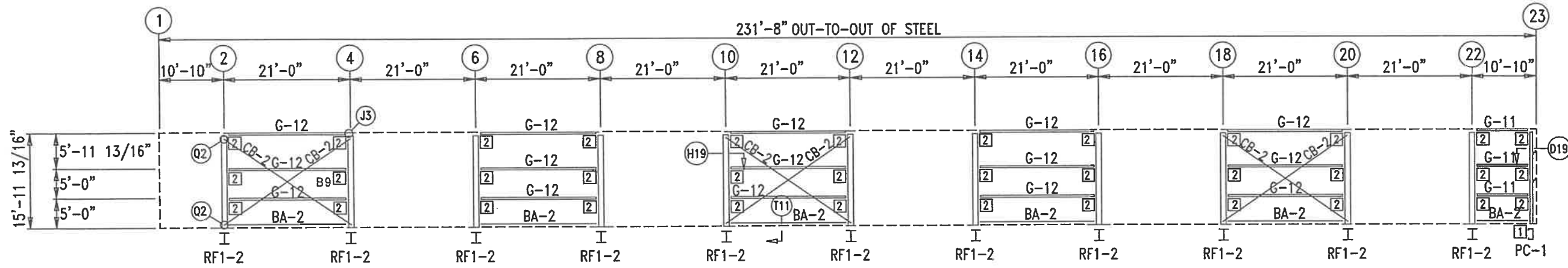
R & M STEEL COMPANY
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Caldwell, Idaho 83605
208-454-1800 Fax 208-454-1801

SCALE: _____ JOB LOCATION: FRIDAY HARBOR, WA REVISION: _____
DATE: 7/14/21

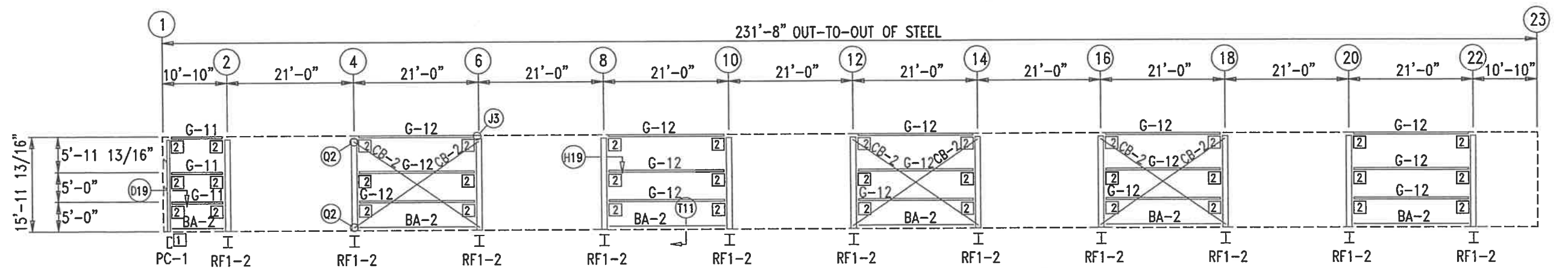
PORT OF FRIDAY HARBOR DRAWN BY: RPW
10 UNIT NT 51-42 HANGAR DRAWING NUMBER: 17 OF 27

MEMBER TABLE		
PARTITION		
MARK	PART	LENGTH
PC-1	4x25C16	15'-10"
G-11	4x25C16	9'-8 3/8"
G-12	4x25C16	20'-6 1/4"
CB-2	5/16EHS	25'-0"
BA-2	L7x3	21'-0"

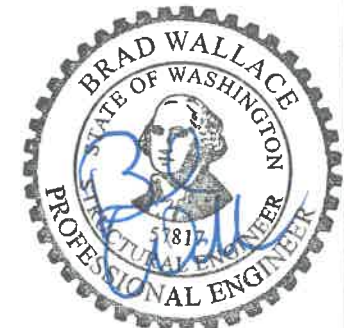
CONNECTION PLATES		
PARTITION		
ID	MARK/PART	
1	CA4A	
2	CA4	




PARTITION FRAMING: @ 33'-6" (INSIDE VIEW)

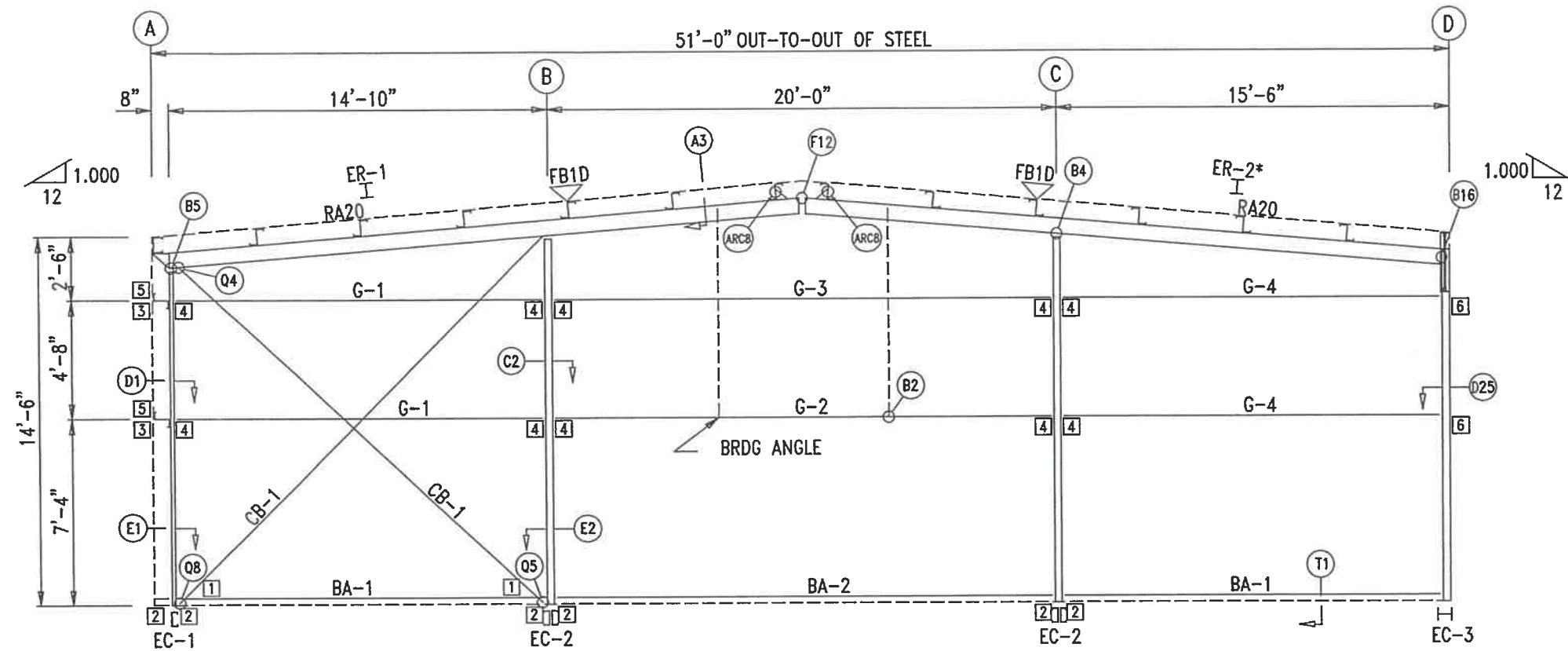


PARTITION FRAMING: @ 17'-6" (INSIDE VIEW)

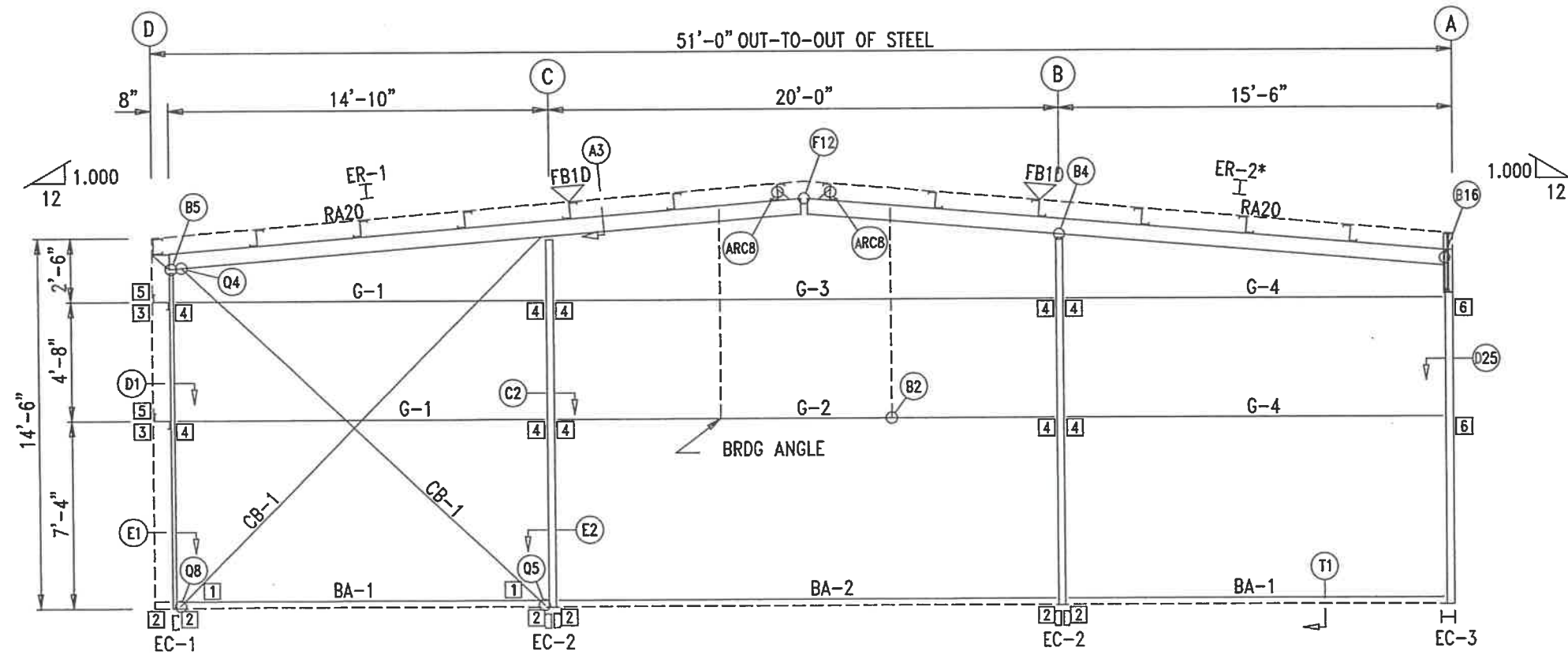


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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 18 OF 27



ENDWALL FRAMING: GRID 23



ENDWALL FRAMING: GRID 1

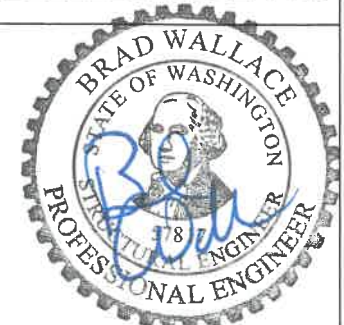
BOLT TABLE GRID 1 & 23				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2*	8	A325	5/8"	1 3/4"
EC-1/ER-1	4	GR_5	1/2"	1"
Int_Column/Raf	4	GR_5	1/2"	1"
EC-3/ER-2*	4	A325	5/8"	1 3/4"

MEMBER TABLE GRID 1 & 23		
MARK	PART	LENGTH
EC-1	8x25C16	13'-2 3/4"
EC-2	D8x5C16	14'-5 9/16"
EC-3	W6x15	13'-2 9/16"
ER-1	W8x10	25'-7 1/16"
ER-2*	W8x10	25'-1 1/16"
G-1	8x25Z16	14'-2"
G-2	8x25Z15	19'-4"
G-3	8x25Z16	19'-4"
G-4	8x25Z16	14'-7"
CB-1	5/16EHS	19'-0"
BA-1	L7x3	14'-7 3/4"
BA-2	L7x3	21'-0"

FLANGE BRACE TABLE GRID 1 & 23		
ID	MARK	LENGTH
1	FB1D	1'-4 3/4"

CONNECTION PLATES GRID 1 & 23	
ID	MARK/PART
1	3HXA
2	CA3
3	SWC-N
4	CA52
5	SA
6	SA-11

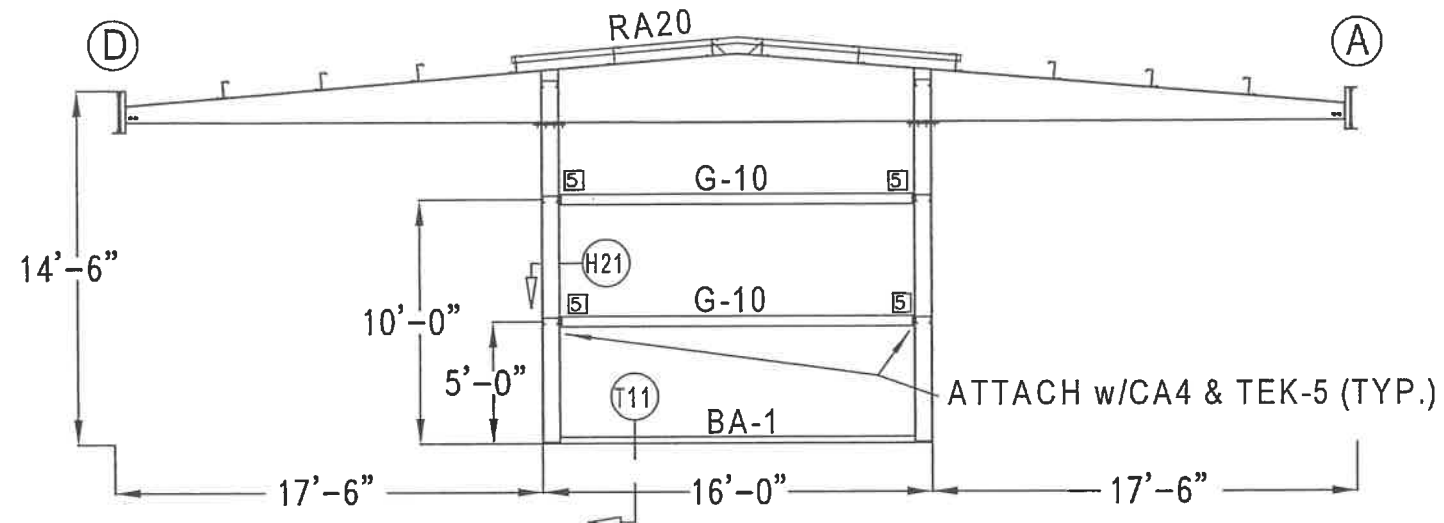
INSTALL ENDWALL FLANGE BRACE



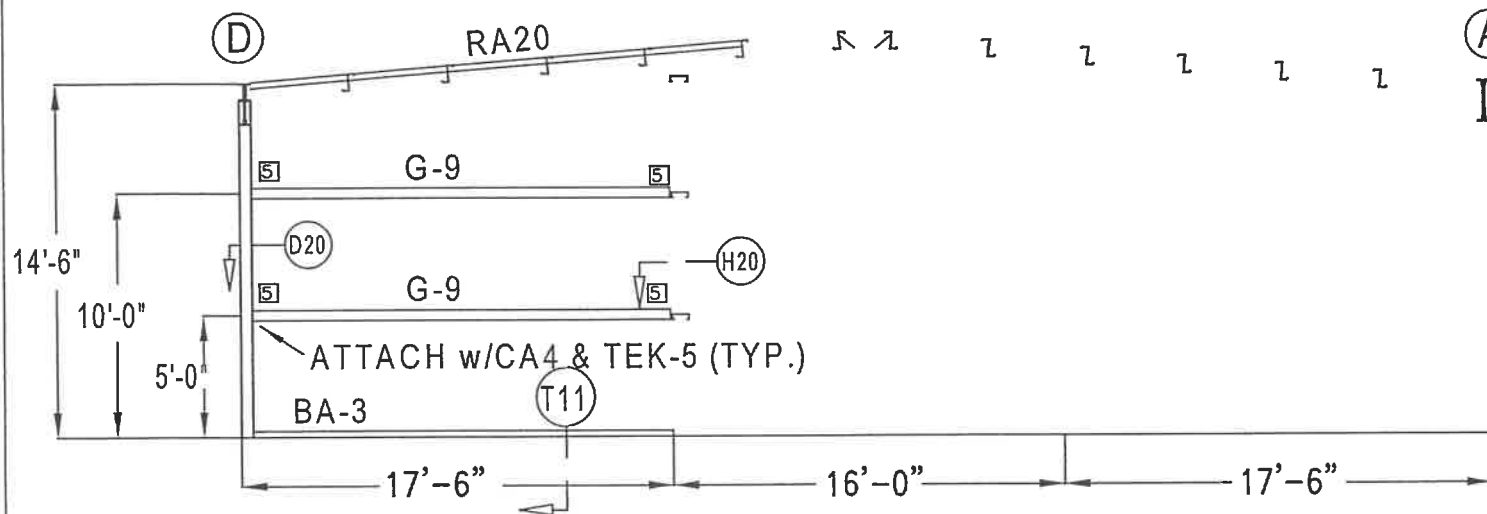
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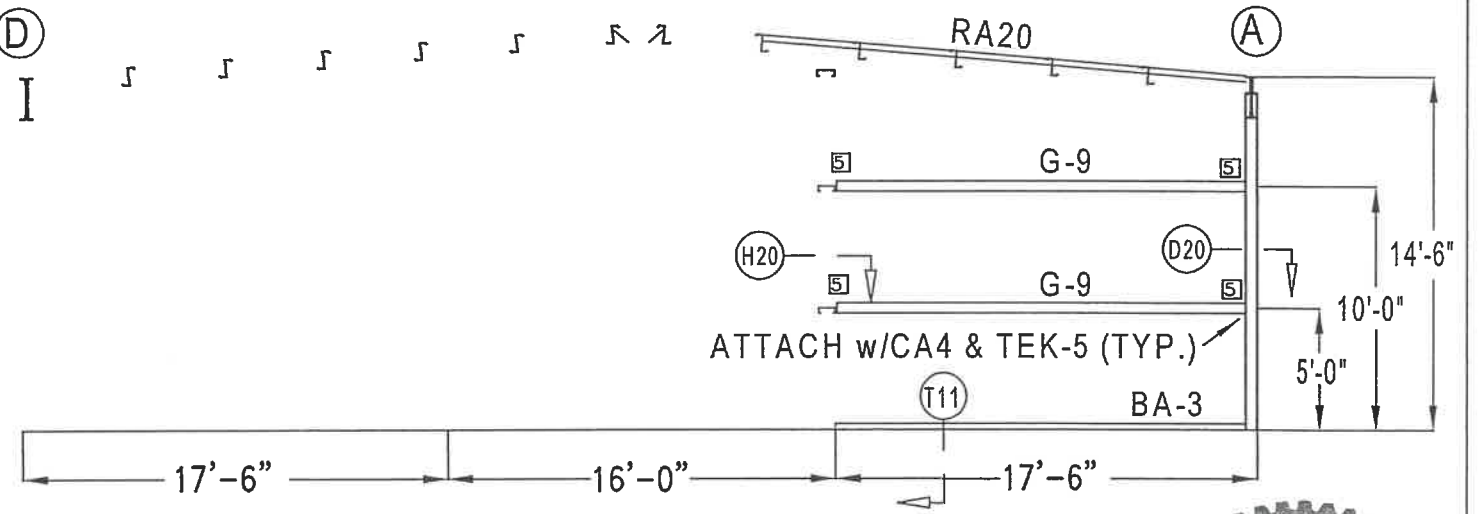
SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 19 OF 27



GRID 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 & 22 ELEVATION



GRID 3, 7, 11, 15 & 19 ELEVATION



GRID 5, 9, 13, 17 & 21 ELEVATION

CONNECTION PLATES
PARTITIONS


ID	MARK/PART
5	CA4

MEMBER TABLE
PARTITIONS

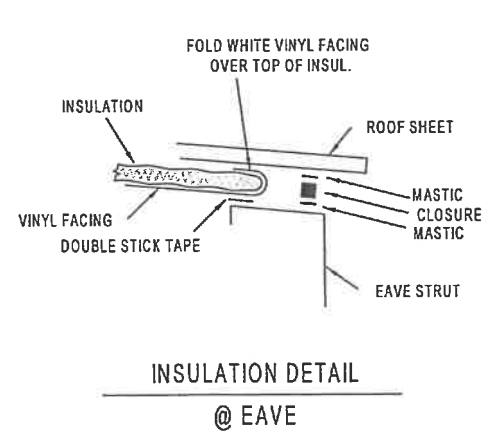
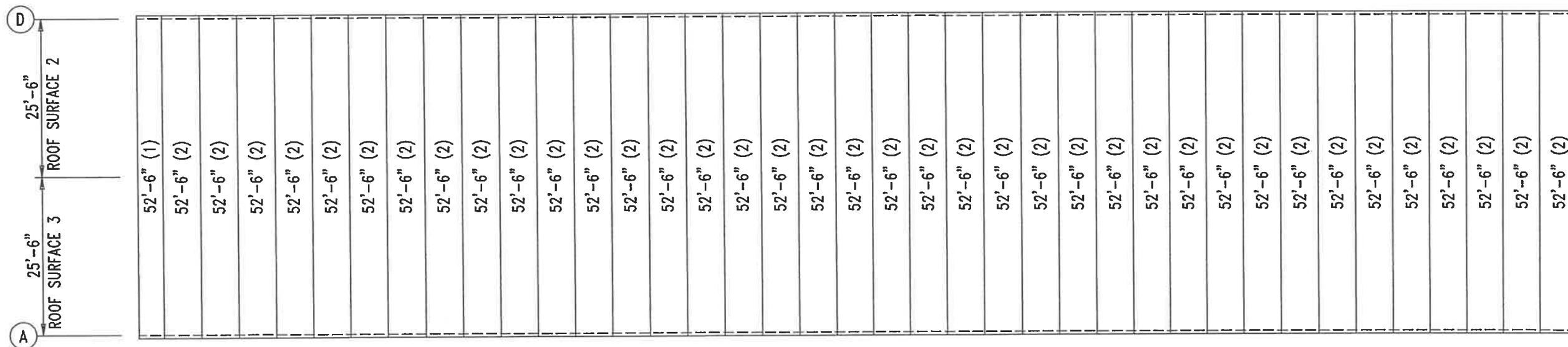
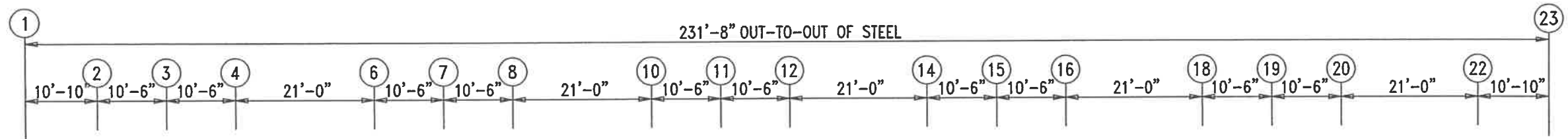
MARK	PART	LENGTH
G-9	4x25C16	16'-11 1/2"
G-10	4x25C16	14'-7 1/4"
BA-1	L7x3	14'-7 3/4"
BA-3	L7x3	17'-4"



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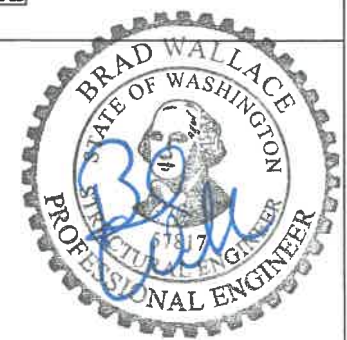
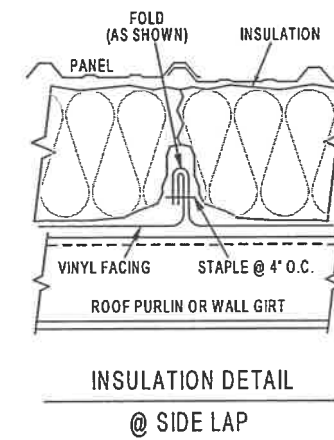
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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 20 OF 27

INSULATION TABLE R-8 2.5" VRR				
ROOF PLAN				
ROLL	QUAN	MARK	WIDTH	LENGTH
1	1	RI-1	4'-0"	52'-6"
2	38	RI-2	6'-0"	52'-6"



ROOF INSULATION

INSULATION: R-8 2.5" VRR

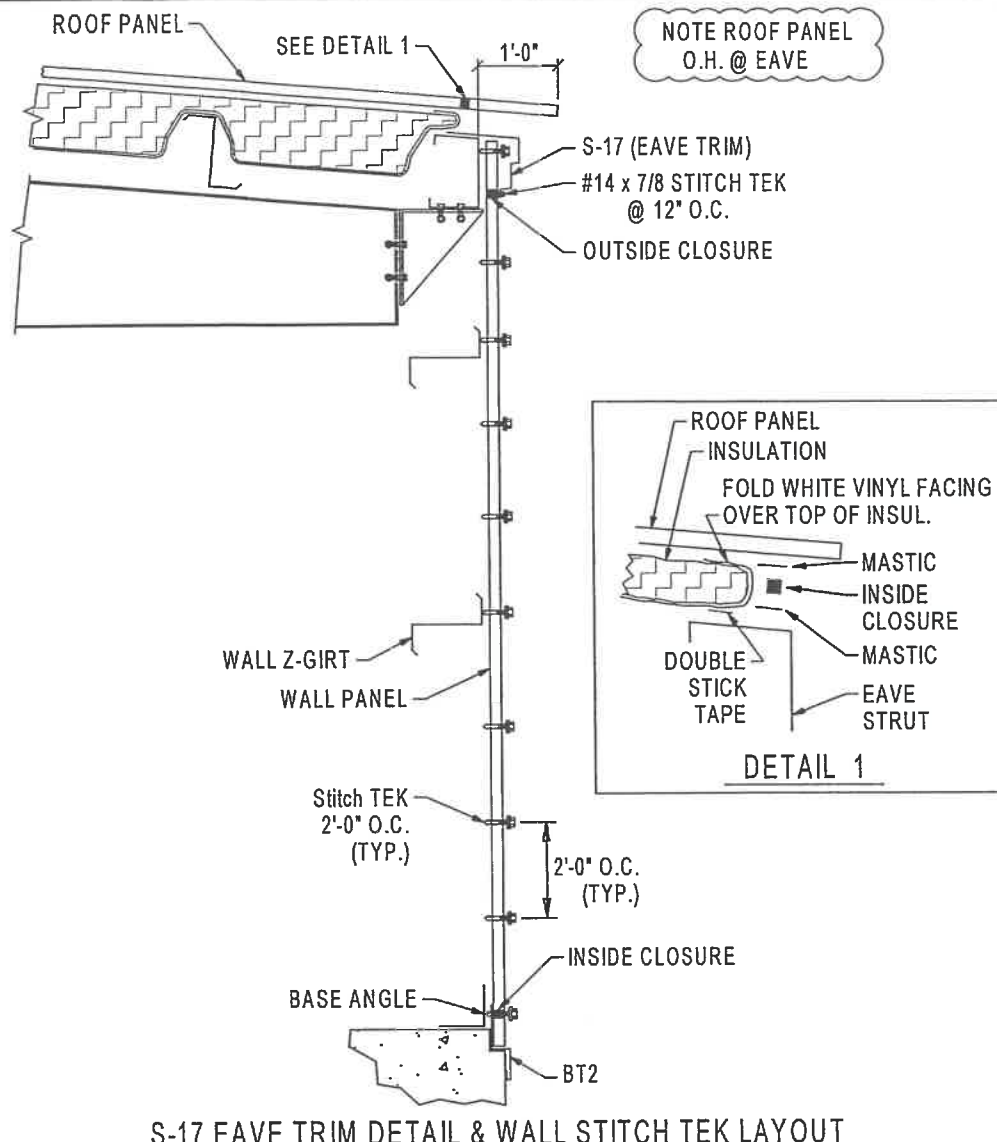


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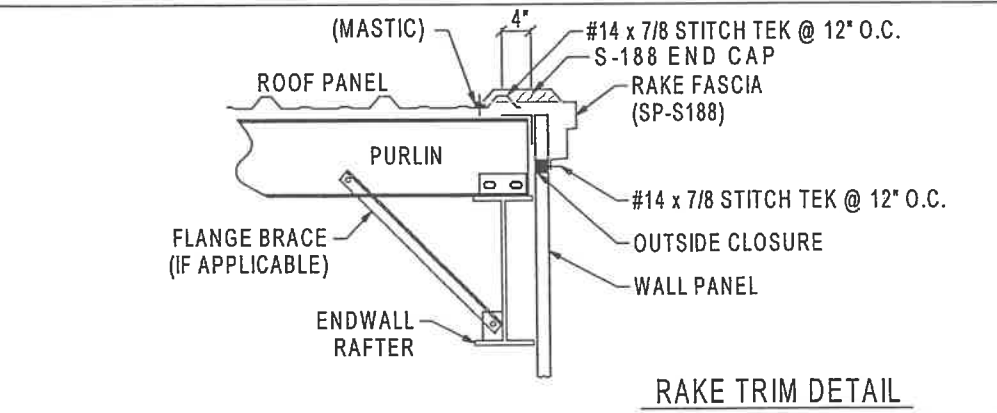


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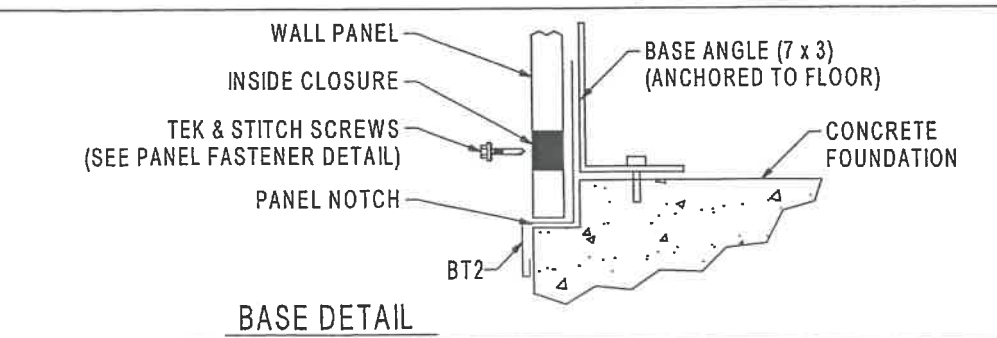
SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 21 OF 22



S-17 EAVE TRIM DETAIL & WALL STITCH TEK LAYOUT



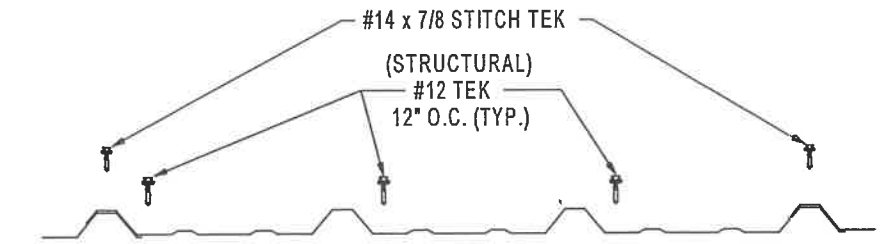
RAKE TRIM DETAIL



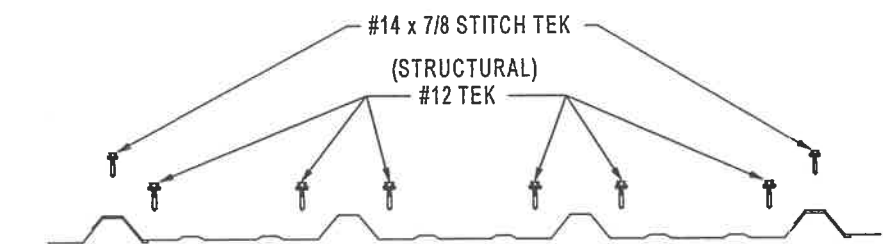
BASE DETAIL

TYPICAL TEK SPACING FOR HIGH RIB PANELS

NOTE: ALIGN ROOF PANEL HI-RIBS WITH WALL PANEL HI-RIBS.

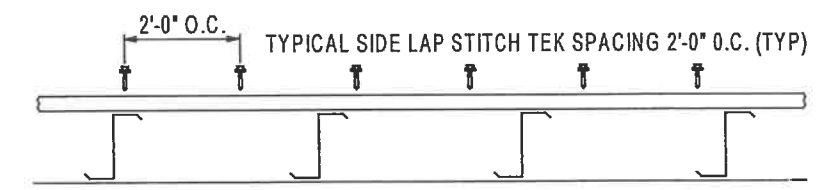


I. TYPICAL SPACING AT INTERMEDIATE PURLINS & GIRTS.

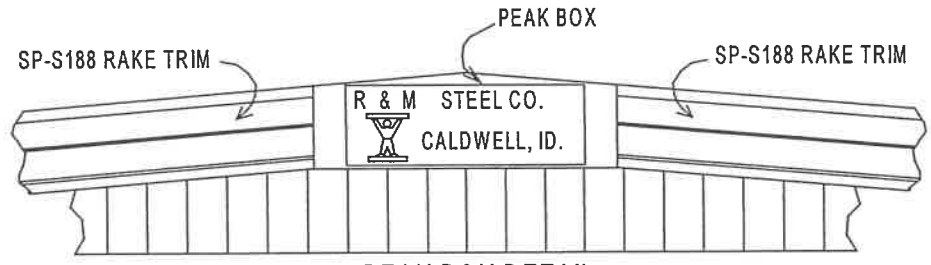


II. TYPICAL SPACING AT PANEL ENDS

- 1) TYPICAL SPACING AT EAVE STRUT.
- 2) TYPICAL SPACING AT RIDGE CAP.
- 3) TYPICAL SPACING AT BASE ANGLE.
- 4) TYPICAL SPACING AT RAKE ANGLE.
- 5) TYPICAL SPACING AT PANEL LAP.

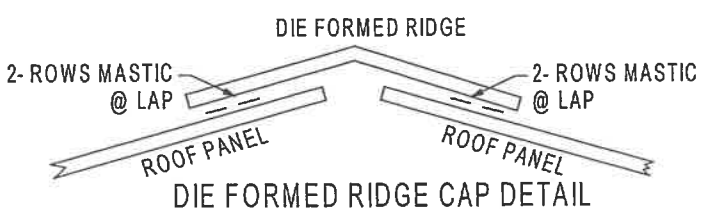


III. TYPICAL STITCH TEK SPACING (SIDE LAP ONLY)

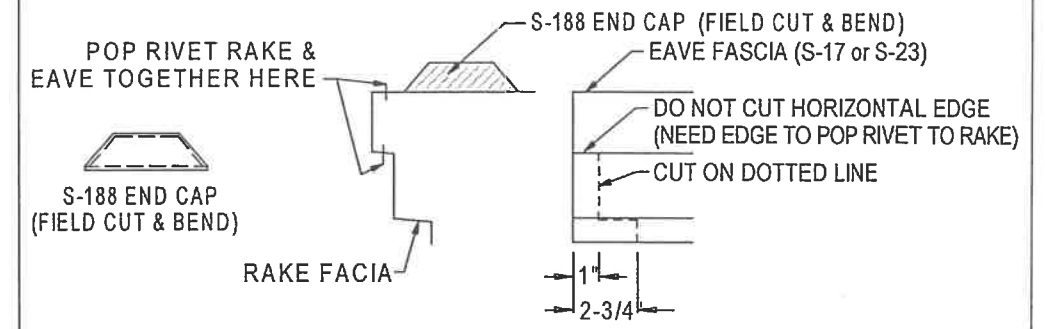


PEAK BOX DETAIL

- NOTE:
- 1) MITER SP-S188 RAKE TRIM @ PEAK & SEAL.
 - 2) INSTALL PEAKBOX & SEAL.
 - 3) MITER SP-S188 AND S-17 @ CORNERS & SEAL.



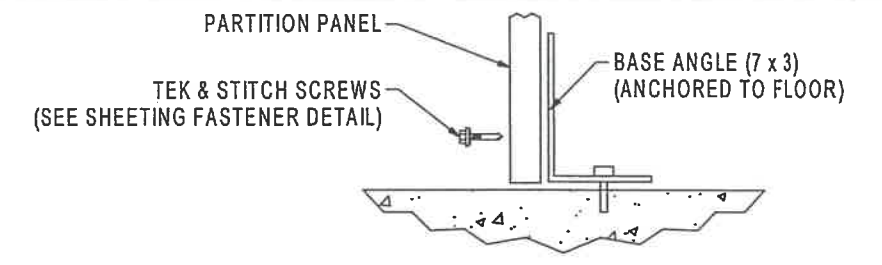
DIE FORMED RIDGE CAP DETAIL



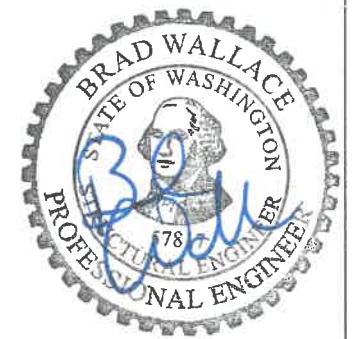
MITER DETAIL: EAVE-TO-RAKE




ROOF PANEL MASTIC DETAIL @ ROOF PANEL ONLY



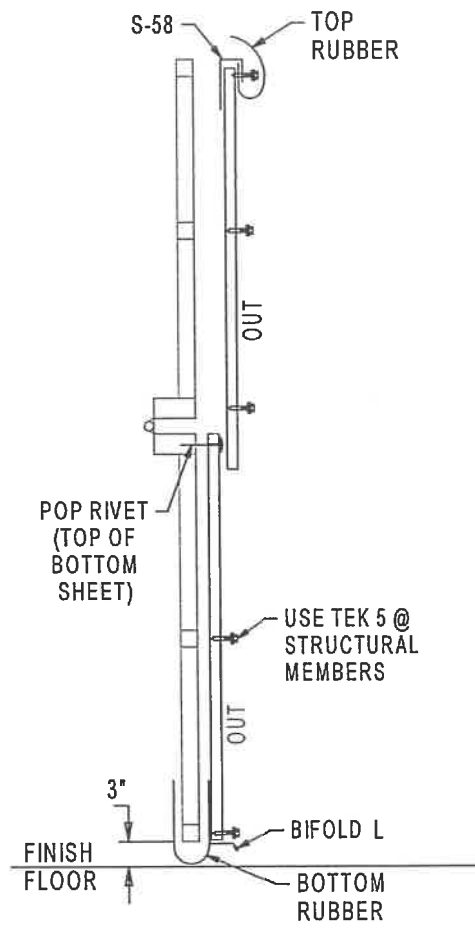
BASE DETAIL @ PARTITION WALLS



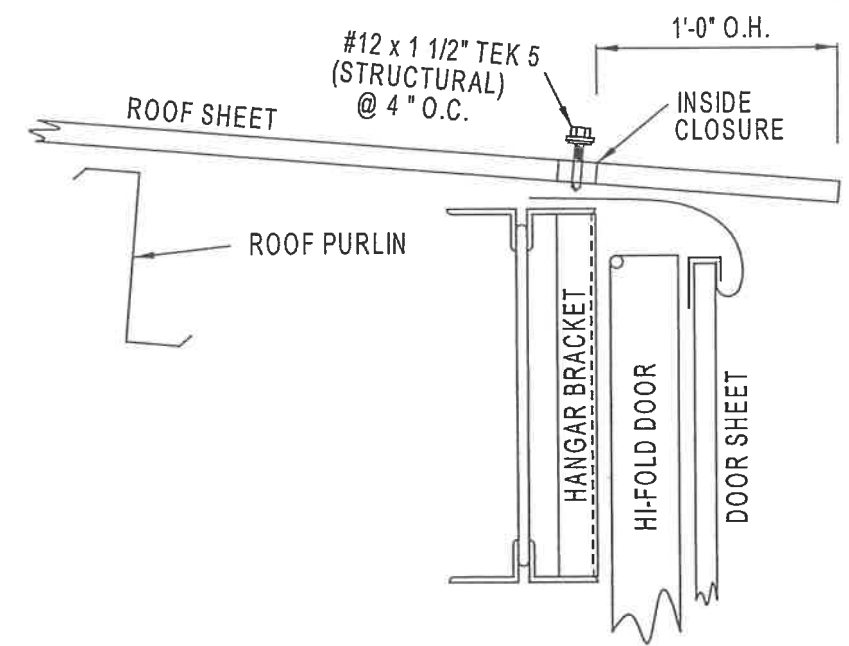
SEP 07 2021

 R & M STEEL COMPANY P.O. Box 580 Caldwell, Idaho 83606 208-454-1800 Fax 208-454-1801		SCALE: DATE: 7/14/21	JOB LOCATION FRIDAY HARBOR, WA	REVISION
PORT OF FRIDAY HARBOR			DRAWN BY RPW	
10 UNIT NT 51-42/45 HANGAR			DRAWING NUMBER 22 OF 27	

NOTE: FIELD PAINT EXPOSED HI-FOLD DOOR STRUCTURAL STEEL (BY OTHERS).

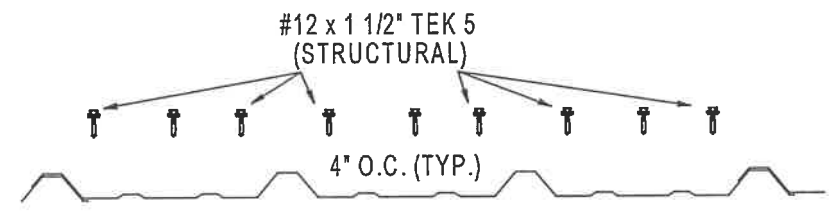


END VIEW HI-FOLD DOOR TRIM LAYOUT

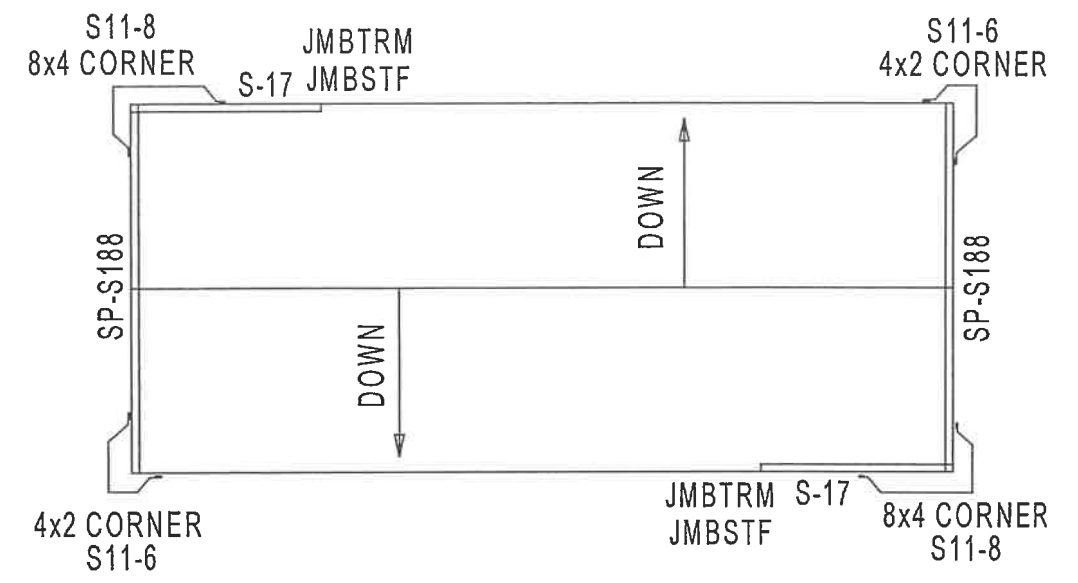


CROSS SECTION @ HI-FOLD DOOR J-1 & J-2 ONLY

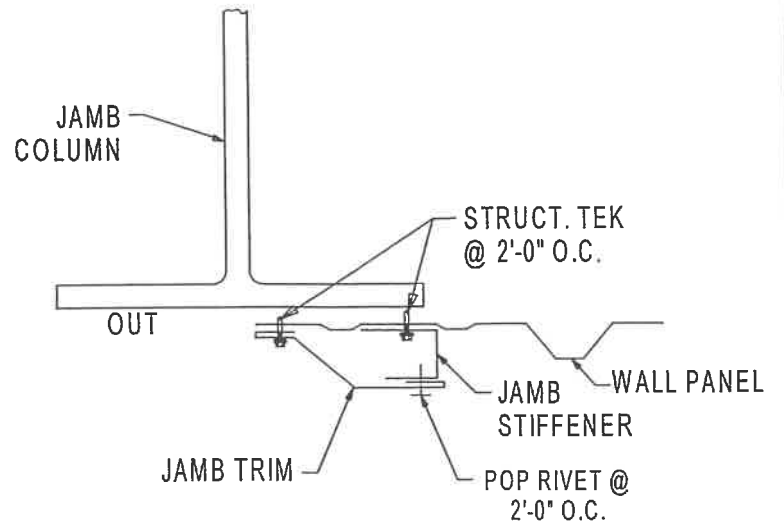
TYPICAL STRUCTURAL TEK SPACING FOR HIGH RIB PANELS



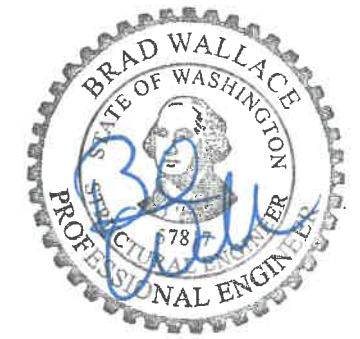
J-1 & J-2




PLAN VIEW TRIM LAYOUT

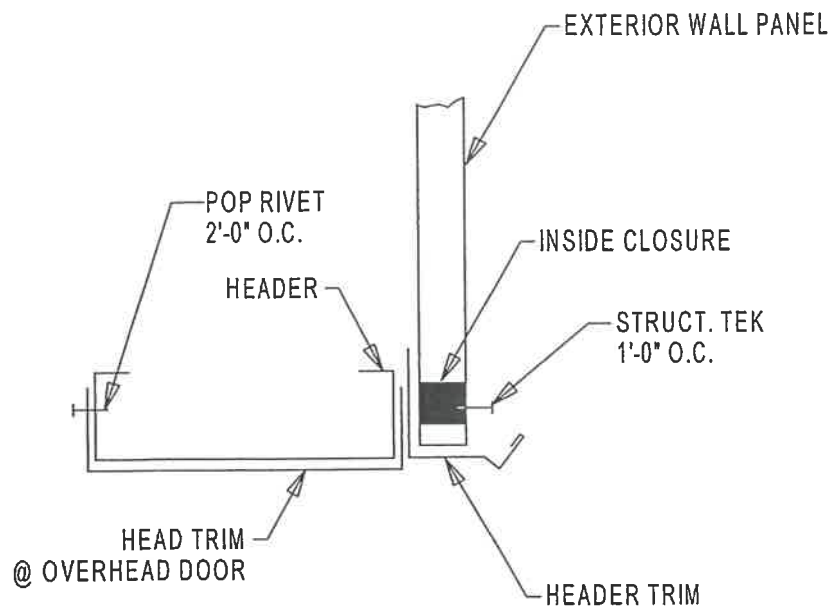


TRIM DETAIL @ JAMB COLUMN



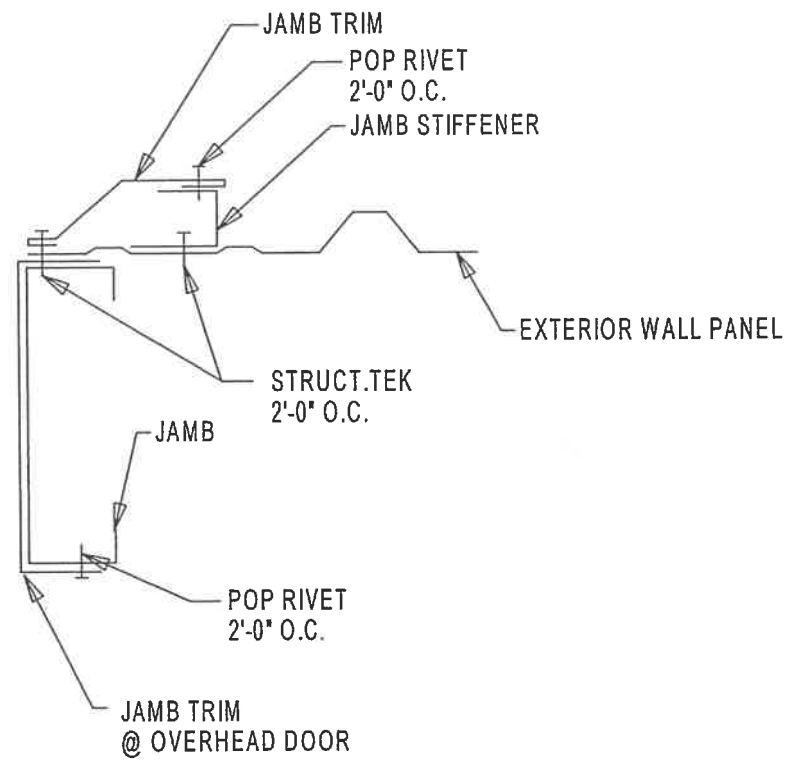
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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42/45 HANGAR		DRAWING NUMBER 23 OF 27

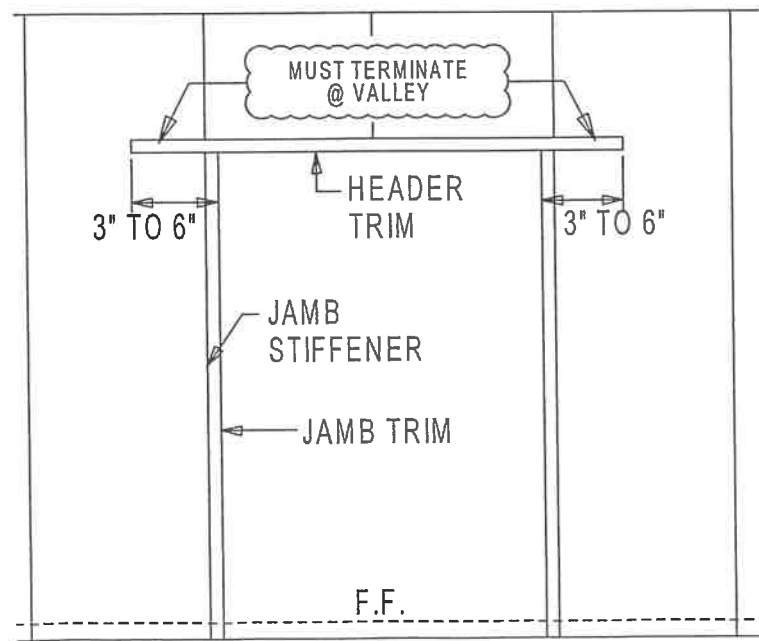


NOTE: FIELD NOTCH PANEL AND SLIDE HEADER TRIM BEHIND PANEL AS REQ.
CAULKING (BY OTHERS)

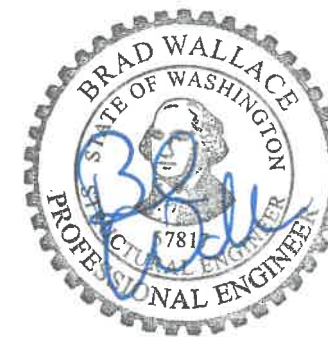
HEADER TRIM DETAIL




JAMB TRIM DETAIL

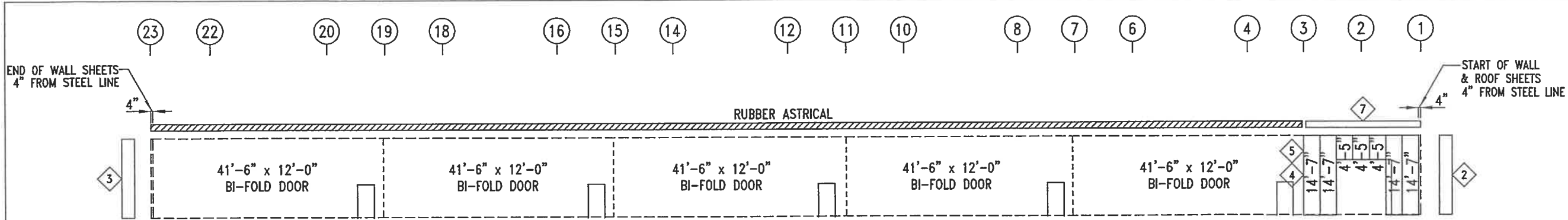


DOOR TRIM DETAIL

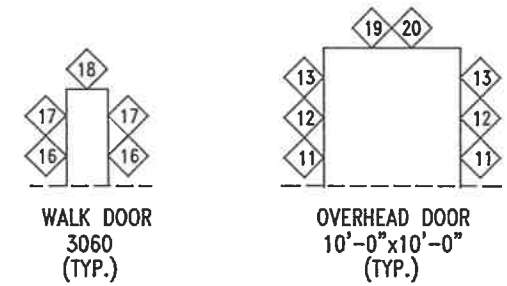
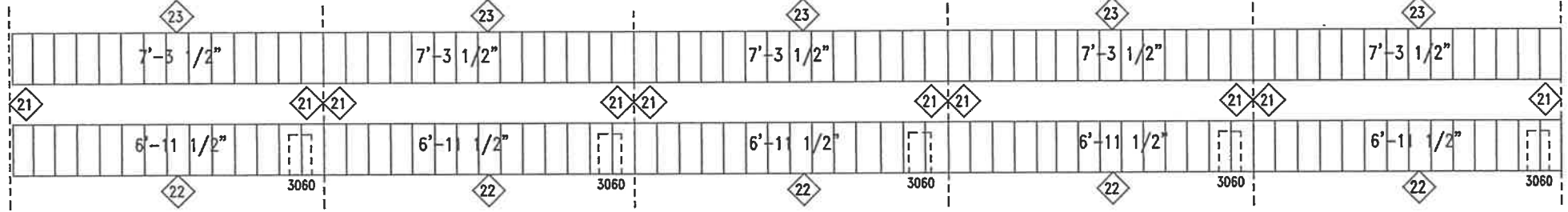


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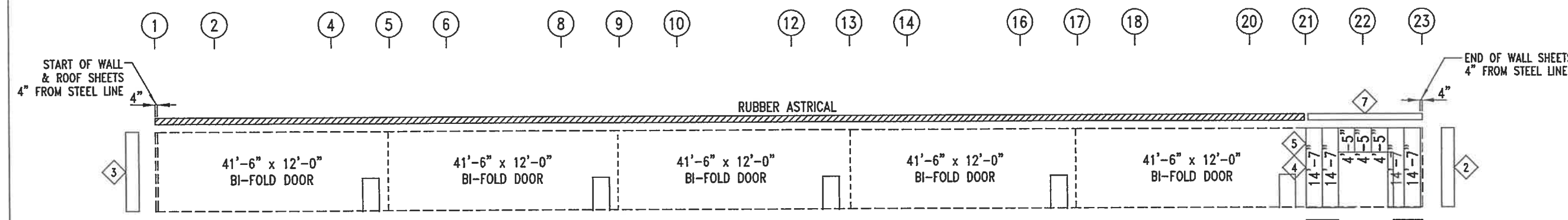
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SCALE:	JOB LOCATION	
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42/45 HANGAR		DRAWING NUMBER 24 OF 27



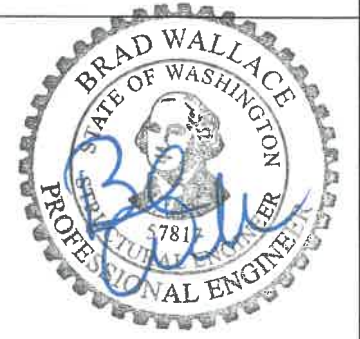
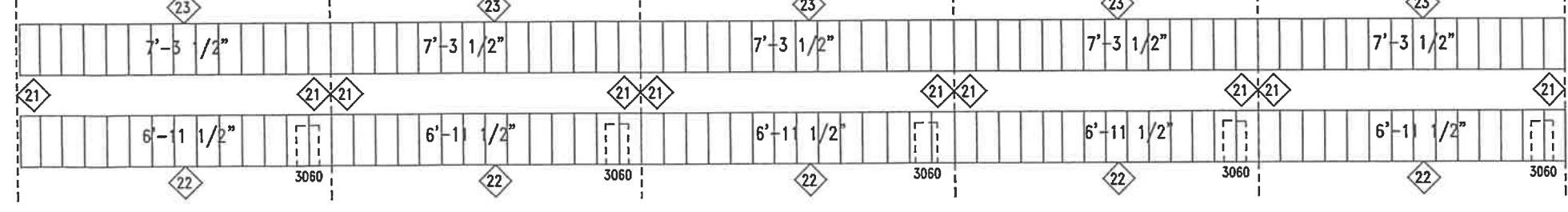
SIDEWALL SHEETING: GRID D
 PANELS: 26 Ga. PBR - Pacific White




TRIM TABLE		
FRAME LINE A & D		
◊ID	MARK	LENGTH
1	BT2	8'-0"
2	S11-8	14'-6"
3	S11-6	14'-6"
4	JMBTRM	15'-0"
5	JMBSTF	15'-0"
7	S-17	23'-6"
11	8-JAMB	10'-0"
12	JMBTRM	10'-6"
13	JMBSTF	10'-6"
16	JMBTRM	7'-4"
17	JMBSTF	7'-4"
18	HEDTRM	4'-0"
19	8-HEAD	10'-0"
20	HEDTRM	11'-0"
21	S-58	15'-0"
22	BIFOLD L	22'-0"
23	S-58	22'-0"



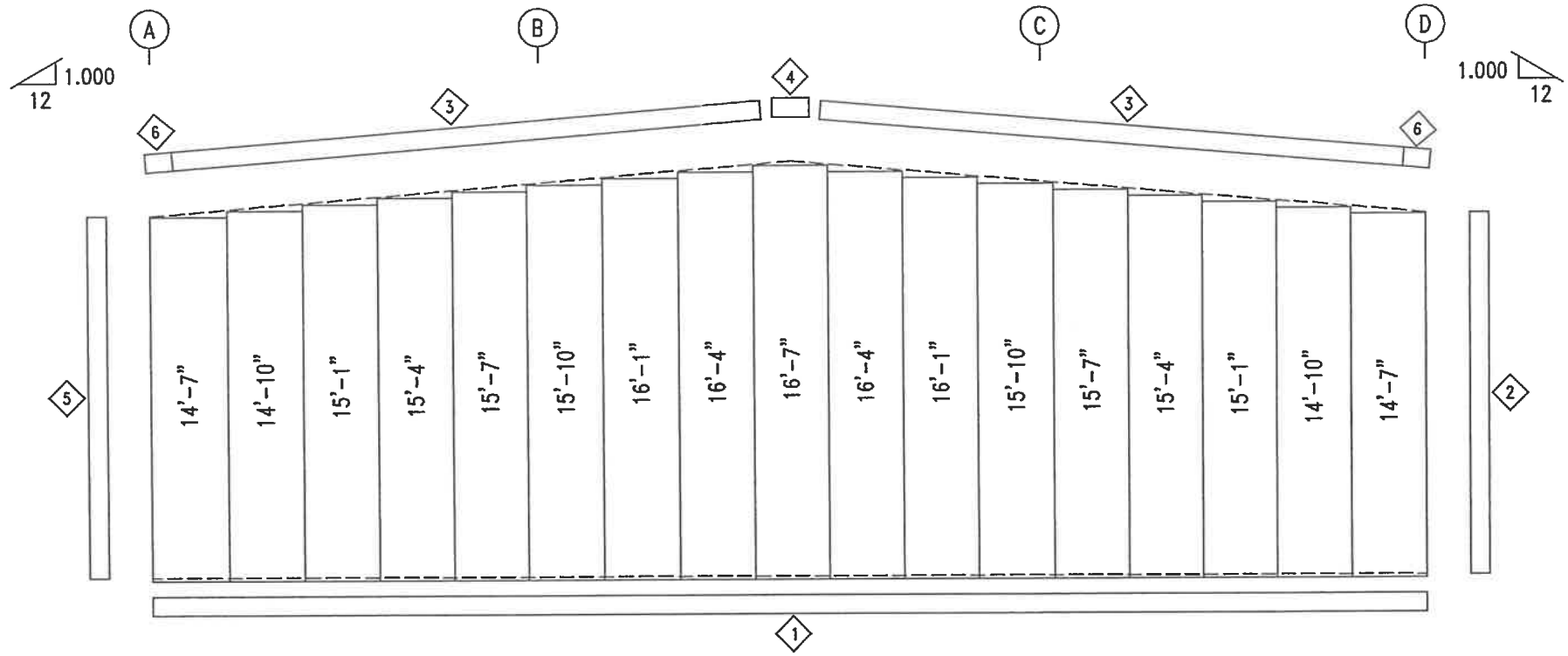
SIDEWALL SHEETING: GRID A
 PANELS: 26 Ga. PBR - Pacific White



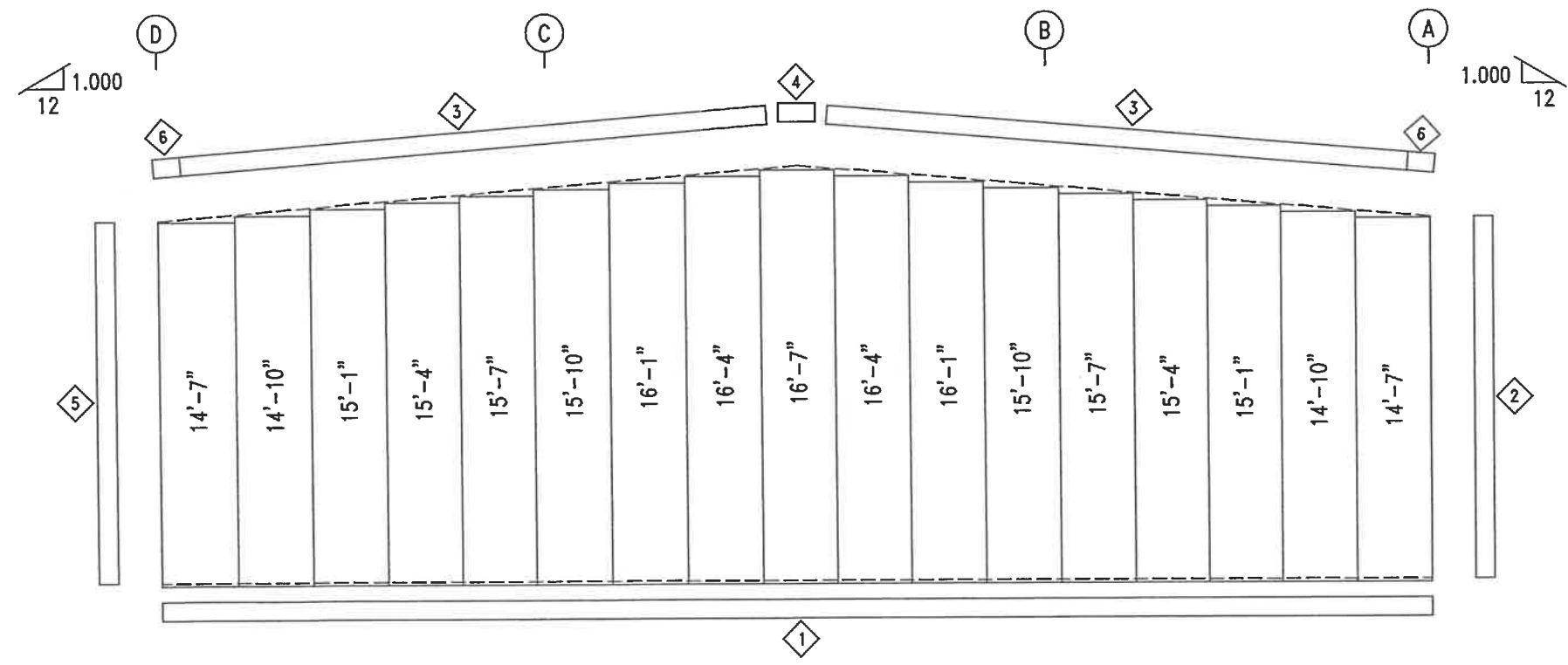
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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 25 of 27

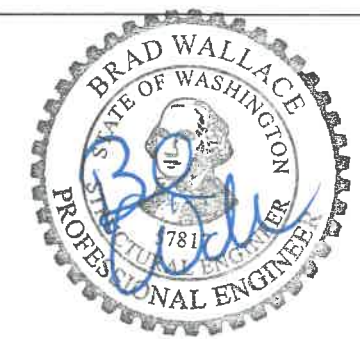
TRIM TABLE		
FRAME LINE		1 & 23
◇ID	MARK	LENGTH
1	BT2	27'-0"
2	S11-6	14'-6"
3	SP-S188	27'-0"
4	PK BOX	2'-6"
5	S11-8	14'-6"
6	S188EC	3'-6 3/4"



ENDWALL SHEETING: GRID 23
 PANELS: 26 Ga. PBR - Pacific White



ENDWALL SHEETING: GRID 1
 PANELS: 26 Ga. PBR - Pacific White



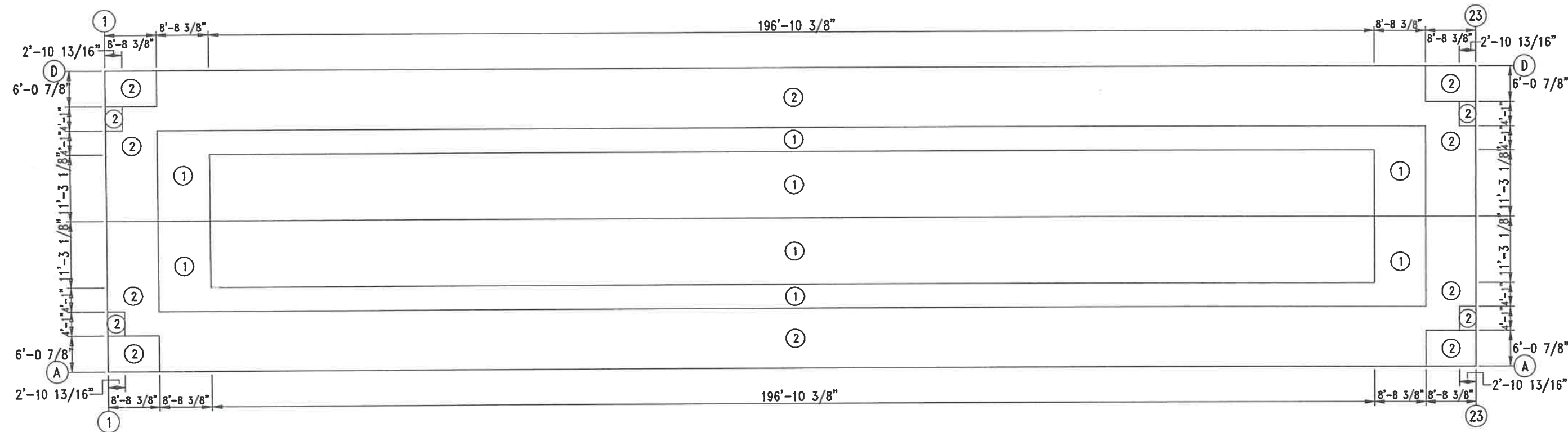
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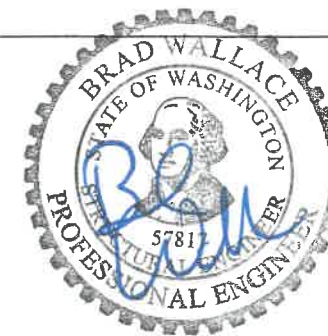
R & M STEEL COMPANY
 P.O. Box 580
 Caldwell, Idaho 83605
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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 26 OF 27

FASTENER TABLE		
○ ID	SCREW PART	SPACE (in)
1	#12S	12.0
2	#12S	6.0



PANEL ZONE LAYOUT
(Minimum Fastener Spacing)



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SCALE:	JOB LOCATION	REVISION
DATE: 7/14/21	FRIDAY HARBOR, WA	
PORT OF FRIDAY HARBOR		DRAWN BY RPW
10 UNIT NT 51-42 HANGAR		DRAWING NUMBER 27 OF 27