GENERAL NOTES

1. THE SEAL THAT APPEARS ON THESE DRAWINGS IS THE SEAL OF THE ENGINEER FOR THIS BUILDING MANUFACTURER WHO IS NOT THE ENGINEER OF RECORD.
2. CERTIFICATION RESTRICTION: ENGINEER'S CERTIFICATION IS STRICTLY LIMITED TO THE DESIGN OF STRUCTURAL COMPONENTS DESIGNED AND MANUFACTURED BY THIS BUILDING MANUFACTURER. CERTIFICATION EXTENDS ONLY TO THE DESIGN LOADS AND STANDARDS INDICATED ON THESE PLANS. CERTIFICATION DOES NOT EXTEND TO FOUNDATION, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, CIVIL WORK, ARCHITECTURAL RESPONSIBILITIES, OVERALL PROJECT COORDINATION, OR OTHER ASPECTS OF CODE COMPLIANCE NOT SPECIFICALLY REFERENCED BY THE MANUFACTURER'S ORDER DOCUMENTS. CERTIFICATION SHALL NOT EXTEND TO BUILDING ERECTION SUPERVISION OR INSPECTION.
3. ANCHOR RODS ARE ASSUMED TO CONFORM TO ASTM STANDARD F1554 GRADE 36, THE PREFERRED MATERIAL PER AISC SPECIFICATIONS. ANCHOR ROD DIAMETERS ARE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS. LENGTHS, EMBEDMENTS, HEAD STYLES, METHODS OF TRANSFERRING FORCES FROM THE ANCHOR RODS TO THE FOUNDATION, AND/OR OTHER ASSOCIATED ITEMS OF THE FOUNDATION ARE NOT BY BEHLEN BUILDING SYSTEMS.
4. FOUNDATIONS MUST BE DESIGNED FOR LOCAL SOIL CONDITIONS BY A QUALIFIED FOUNDATION ENGINEER TO SAFELY SUPPORT COLUMN LOADS.
5. THIS BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DAMAGES INCURRED IN THE ERECTION OF BUILDING COMPONENTS NOR FOR THE INSPECTION OF ERECTED COMPONENTS TO ASCERTAIN SAME.
6. TEMPORARY BRACING MUST BE INSTALLED BY ERECTOR TO PROVIDE ADEQUATE STABILITY DURING ERECTION. BRACING INDICATED ON THE ERECTION DRAWINGS IS CRITICAL TO THE STABILITY OF THE COMPLETED STRUCTURE AND SHALL NOT BE REMOVED.
7. WALL & LINER PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. UNAUTHORIZED REMOVAL OF PANELS IS PROHIBITED.
8. FOR ALL BUILDINGS EXCEPT THOSE SITED IN CANADA, ALL FIELD WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D1.1 OR D1.3 AS APPLICABLE BY AWS CERTIFIED WELDERS QUALIFIED TO PERFORM THE WELDING AS DIRECTED BY THE APPLICABLE WELDING PROCEDURE SPECIFICATION (WPS); FOR BUILDINGS SITED IN CANADA, ALL FIELD WELDING SHALL BE DONE IN ACCORDANCE WITH CSA (CANADIAN STANDARDS ASSOCIATION) WELD STANDARDS BY CWB (CANADIAN WELDING BUREAU) CERTIFIED WELDERS QUALIFIED TO PERFORM THE WELDING AS DIRECTED BY THE APPLICABLE WELDING PROCEDURE SPECIFICATION (WPS). A WPS SHALL BE PREPARED BY THE CONTRACTOR FOR EACH WELDING VARIATION SPECIFIED. UNLESS OTHERWISE APPROVED, USE E7018 ELECTRODES. THE CONTRACTOR SHALL PROVIDE FOR ANY SPECIAL WELDING INSPECTION AS REQUIRED BY CODE.
9. ERECTION OF THIS METAL BUILDING SYSTEM SHALL COMPLY, AT A MINIMUM, WITH THE APPLICABLE ERECTION TOLERANCES STIPULATED IN SECTION 7 OF AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, SECTION 29 OF CSA S16 DESIGN OF STEEL STRUCTURES, AND SECTION 6 OF MBMA COMMON INDUSTRY PRACTICES.
10. BEHLEN BUILDING SYSTEMS IS QUALITY ACCREDITED OR CERTIFIED AS FOLLOWS: INTERNATIONAL ACCREDITATION SERVICES (IAS) AC-472 INSPECTION PROGRAM FOR THE MANUFACTURE OF METAL BUILDING SYSTEMS CERTIFICATE NUMBER MB-102; CAN/CSA A660-10 CERTIFICATION OF MANUFACTURERS OF STEEL BUILDING SYSTEMS CERTIFIED BY QUASAR, CERTIFICATE NUMBER BEHMFO.
11. FOR ALL BUILDINGS EXCEPT THOSE SITED IN CANADA, ALL WELDING PERFORMED BY BEHLEN HAS BEEN DONE IN ACCORDANCE WITH AWS WELD PROCEDURES BY AWS CERTIFIED WELDERS OR WITH CSA WELD PROCEDURES BY CWB CERTIFIED WELDERS. FOR ALL BUILDINGS SITED IN CANADA, ALL WELDING PERFORMED BY BEHLEN HAS BEEN DONE IN ACCORDANCE WITH CSA WELD PROCEDURES BY CWB CERTIFIED WELDERS.
12. THE PREFERRED ATTACHMENT DETAIL FOR A PURLIN HANGER IS AN ATTACHMENT TO THE BACK OF THE WEB OF THE PURLIN. PROVIDING THIS METHOD OF ATTACHMENT WILL ENABLE COMPLIANCE WITH THE HANGING LOAD REQUIREMENTS OF NFPA 13:9.2.1.3.1. C-CLAMPS SHALL NEVER BE DIRECTLY ATTACHED TO THE LIP OF THE PURLIN FLANGE AND MUST NEVER CAUSE DEFORMATION OF ANY PART OF THE PROFILE OF THE PURLIN.

MATERIAL PROPERTIES

1.	STRUCTURAL WELDED SECTIONS	ASTM A572, A529 OR A1011, GR. 50
2.	HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GR. B
3.	HOT ROLLED SECTIONS	ASTM A572, A529 OR A992, GR. 50
4.	HOT ROLLED ANGLE	ASTM A36, Fy=36 KSI OR A572, GR. 50
5.	HOT ROLLED ROD	ASTM A572, Fy=50 KSI OR Fy=60 KSI
6.	CABLE BRACING	ASTM A475, EXTRA HIGH STRENGTH
7.	COLD FORMED ROLLED SECTIONS	ASTM A1011 SS GR. 55 OR HSLAS GR. 55 CLASS 1, ASTM A653 SS GR. 55 OR HSLAS GR. 55 CLASS 1 (G40 GALV.), OR ASTM A653 SS GR. 50 CLASS 1 (G90 GALV.)
8.	ROOF AND WALL SHEETING	ASTM A792, GR. 50 OR GR. 80
9.	HIGH-STRENGTH BOLTS	ASTM A325, ASTM A325T
10.	SECONDARY MEMBER CONNECTIONS	ASTM A307, ASTM A325, ASTM A325T
11.	WASHERS	ASTM F436

IMPORTANT TRIM & PANEL INFORMATION

WHEN HANDLING LONG TRIM, CARE SHOULD BE TAKEN TO AVOID DAMAGE CAUSED BY BUCKLING.
ALL TRIM COMPONENTS HAVE A PROTECTIVE FILM ON THE COLORED SURFACE THAT MUST BE REMOVED PRIOR TO INSTALLATION. PROLONGED EXPOSURE TO RAIN AND/OR SUNLIGHT WILL ADVERSELY EFFECT THE PROTECTIVE FILM MAKING REMOVAL DIFFICULT. THIS BUILDING MANUFACTURER WILL ACCEPT NO RESPONSIBILITY FOR TRIM WHOSE PROTECTIVE FILM HAS BEEN EXPOSED FOR MORE THAN 3 WEEKS.

TRIM\PANELS ARE MADE OF THIN GAUGE METAL AND HAVE LARGE FLAT SURFACES WHICH CAN CAUSE THE TRIM/PANEL TO HAVE A WAVINESS ACROSS THE FLAT AREAS. THIS NATURALLY OCCURING CONDITION IS OFTEN REFFERED TO AS OIL CANNING AND IS NOT A CAUSE FOR REJECTION.

SHOP PRIMED STEEL:

BEHLEN IS NOT RESPONSIBLE FOR REPAIRS OF DAMAGED PRIMED SURFACES OR REMOVAL OF FOREIGN MATERIAL DUE TO IMPROPER STORAGE OR SITE CONDITIONS. BEHLEN IS NOT RESPONSIBLE FOR DETERIORATION OF THE SHOP COAT PRIMER OR CORROSION DUE TO ATMOSPHERIC OR ENVIRONMENTAL CONDITIONS, NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING. BEHLEN WILL NOT BE RESPONSIBLE FOR CORROSION OR DAMAGE TO A PRIME PAINTED STRUCTURAL STEEL MEMBER THAT IS A DIRECT RESULT OF IMPROPER HANDLING, IMPROPER STORAGE, OR DUE TO SITE OR ATMOSPHERIC CONDITIONS. BEHLEN ADVISES THAT PRIMARY STRUCTURAL MEMBERS BE INSPECTED UPON RECEIPT AND IMMEDIATELY NOTIFY BEHLEN IF ANY MEMBERS APPEAR TO HAVE A PRIMER DEFICIENCY SO THAT BEHLEN MAY IMMEDIATELY INVESTIGATE AND ADDRESS AS NEEDED.

BEHLEN STRUCTURAL MEMBERS THAT ARE NOT ALREADY FABRICATED OF CORROSION RESISTANT MATERIAL OR PROTECTED BY A CORROSION RESISTANT COATING ARE PAINTED WITH ONE COAT OF SHOP PRIMER IN ACCORDANCE WITH SSPC-15 (STRUCTURAL STEEL PAINTING COUNCIL). MEMBERS ARE CLEANED IN ACCORDANCE WITH SSPC-SP1 AND SSPC-SP2 PRIOR TO APPLICATION WITH A MINIMUM OF 1.0 MILS DRY THICKNESS. THE SHOP COAT PRIMER IS INTENDED TO PROVIDE TEMPORARY PROTECTION TO THE COATED MATERIAL DURING DELIVERY AND FOR SHORT PERIODS OF EXPOSURE TO ORDINARY ATMOSPHERIC CONDITIONS. THE PRIMER IS NOT INTENDED TO PERFORM AS, NOR BE AN EQUIVALENT SUBSTITUTE FOR, A FINISH COAT SYSTEM NOR AS A BASE FOR A FINISH COAT SYSTEM. CARE SHOULD BE TAKEN IN PLANNING A PROJECT SCHEDULE AND JOB SITE STORAGE TO LIMIT LONG-TERM EXPOSURE TO THE ELEMENTS. PRIMED STEEL WHICH IS STORED IN THE FIELD PENDING ERECTION SHOULD BE KEPT FREE OF THE GROUND, AND POSITIONED TO MINIMIZE WATER-HOLDING POCKETS, MUD, OR OTHER CONTAMINANTS. CORROSION MAY RESULT FROM LONG TERM EXPOSURE TO ATMOSPHERIC OR SITE CONDITIONS. ABRASIONS TO THE SHOP COAT CAUSED BY HANDLING, SHIPPING, UNLOADING, AND ERECTING ARE UNAVOIDABLE. IF THE STEEL SUBSTRATE IS EXPOSED, IT WILL RUST IN THE PRESENCE OF MOISTURE. AS LONG AS THE EXPOSURE IS NOT CONTINUOUS, THE STRUCTURAL INTEGRITY OF THE MEMBER IS NOT COMPROMISED. BEHLEN CAN SUPPLY ADDITIONAL PRIMER UPON REQUEST AT AN ADDITIONAL COST. THE PRIMER COAT IS NOT A FINISH COAT AND POST APPLICATION OF SUPPLEMENTAL PRIMER MAY YIELD CONTRASTING COLOR VARIATIONS DEPENDENT ON APPLICATION METHOD, THICKNESS, OR LOCATION.

INSULATION

	NONE	BY OTHERS	BY BEHLEN	THICKNESS OVER ZEE	OPTIONAL FLANGE BRACE CLIP	RIGID BOARD
ROOF:	■					
WALL:	■					
THERMAL BLOCKS:	■					

BEHLEN BUILDING SYSTEMS
DIVISION OF BEHLEN MFG. CO.
P.O. BOX 569
4025 EAST 23RD STREET
COLUMBUS, NEBRASKA USA 68602-0569
E-MAIL: behlen@behlenmfg.com
PHONE: 402-564-3111
ENG. FAX: 402-563-7286
www.behlenbuildingsystems.com

BUILDING INFORMATION

JOB NUMBER: Z0442
NAME: Regal Marine
ADDRESS: 2300 Jetport Drive
CITY, STATE: Orlando, FL 32809
BUILDER: Factory Direct, Inc.

PANEL, TRIM AND FRAMING INFORMATION

ROOF PANELS

TYPE: PBR GAUGE: 26 COLOR: POLAR WHITE
UL90 CERTIFICATION: NO

TRIM

RAKE:	GAUGE: 26	COLOR:	POLAR WHITE
EAVE:	GAUGE: 26	COLOR:	POLAR WHITE
GUTTER HIGH CAPACITY:	GAUGE: 26	COLOR:	POLAR WHITE
DOWNSPOUT: (QTY) 4	GAUGE: 26	COLOR:	POLAR WHITE

PRIMARY FRAMING

MAIN FRAMES	DARK GRAY PRIMER
ENDWALL FRAMES	DARK GRAY PRIMER / GALVANIZED
WIND COLUMNS & BENTS	DARK GRAY PRIMER

NOTE: SINGLE CEE & DOUBLE CEE ENDWALL COLUMNS ARE GALVANIZED

SECONDARY FRAMING

GIRTS, EAVE STRUTS, PURLINS	GALVANIZED
DOOR/FRAMED OPNG.	GALVANIZED
CLIPS	DARK GRAY PRIMER

A1 = ADP1 PANEL A2 = ADP2 PANEL

BUILDING DESIGN CRITERIA

DESIGN LOADS ARE APPLIED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE BUILDING CODE LISTED BELOW.

BUILDING CODE	: FBC 2023
METHOD OF DESIGN	: ALLOWABLE STRENGTH DESIGN (ASD)
RISK CATEGORY	: II - Normal

GRAVITY LOAD DATA

ROOF LIVE LOAD (psf,*)	: 20.00
MIN. ROOF SNOW LOAD (psf)	: 0.00
Pg (psf)	: 0.00
Pf (psf)	: 0.0
SNOW IMPORTANCE FACTOR	: 1.00
Ce	: 1.00
Ct	: 1.00
COLLATERAL LOAD (psf)	: 5.0
RAIN ON SNOW (psf)	: 0.00
SNOW DRIFT (psf), WIDTH (ft.)	: N/A
RAIN INTENSITY (in/hr; 5 YR)	: 10.0

WIND LOAD DATA

WIND SPEED, V-ult (mph)	: 140
WIND SPEED, V-asd (mph)	: 108.44
WIND EXPOSURE	: C
WIND IMPORTANCE FACTOR	: 1.00
GCpi=	: ±0.55
DESIGN WIND PRESSURE (p,psf)	: SEE WIND PRES. DIAGRAM(S)

EARTHQUAKE LOAD DATA

SITE CLASS			: d
Ss (%,g)	: 6.1	Sds:	: 0.064
S1 (%,g)	: 3.3	Sd1:	: 0.053
SEISMIC DESIGN CATEGORY			: A
SEISMIC IMPORTANCE FACTOR			: 1.00
R			:
Cs			: I x Sds / R
BASIC STRUCTURAL SYSTEM			: NDFS
ANALYSIS PROCEDURE			: Equivalent Lateral Force
BASE SHEAR (Trans, kips)			: 0.40
BASE SHEAR (Long), kips)			: 0.41

LIVE LOAD DATA

FLOOR LIVE LOAD (psf)	: N/A
CRANE LIVE LOAD (Tons)	: N/A

*Reducible

Regal Marine
Orlando, FL 32809

JOB NO. Z0442

ENGINEERING REVIEW

NUM.	PLAN TYPE	SHEETS REVIEWED	DESIGNER	DATE	CHECKER	DATE
1	*ENG. TO FILL OUT*	X to X	XXX	XX/XX/XX	XXX	XX/XX/XX
2						
3						
4						
5						
6						
7						
8						
9						
10						

8/28/2024, 2:28:05 PM

SCOTT D. CLOSE, P.E.
FL LICENSE NO. 65849
2812 TALLEVAST ROAD
SARASOTA, FL 34243

This document has been electronically sealed and digitally signed by Scott D. Close, P.E., using my digital signature. Printed copies are not considered signed and sealed. The signature must be verified on any electronic document.

TO ENSURE PROPER ERECTION OF THIS BUILDING THE FOLLOWING ERECTION GUIDE(S) ARE REQ'D.

BEHLEN ROOF PANEL: PBR

IF THIS SET OF DRAWINGS WERE SENT VIA E-MAIL, THEY ARE COPIES OF THE ORIGINALS THAT ARE PRINTED AND ON FILE AT THE HOME OFFICE OF BEHLEN MFG. CO. COLUMBUS, NE THE ORIGINALS WITH THE ENGINEERS SEAL ARE CONSIDERED THE LEGAL DOCUMENTS.

DRAWING SUBMITTAL STATUS

- ( ) FOR CONSTRUCTION
- (X) FOR APPROVALS
- ( ) FOR PERMIT ONLY
- ( ) FOR PRELIMINARY USE ONLY
- ( ) NOT FOR CONSTRUCTION
- ( ) FOR REVIEW ONLY

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE

SCALE : NONE
DRAWN BY MF DATE 8/27/24
CHECKED BY SAY DATE 8/28/24

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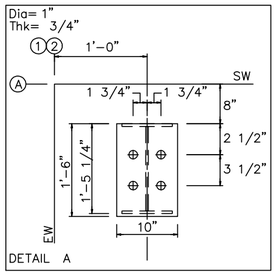
Orlando, FL 32809

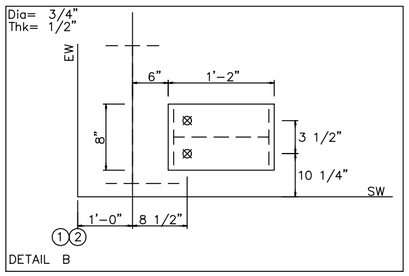
GENERAL INFORMATION

BEHLEN Building Systems

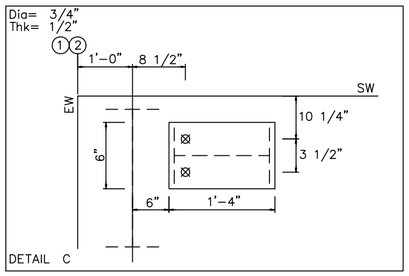
JOB NO. Z0442 SHT. 1 OF 9



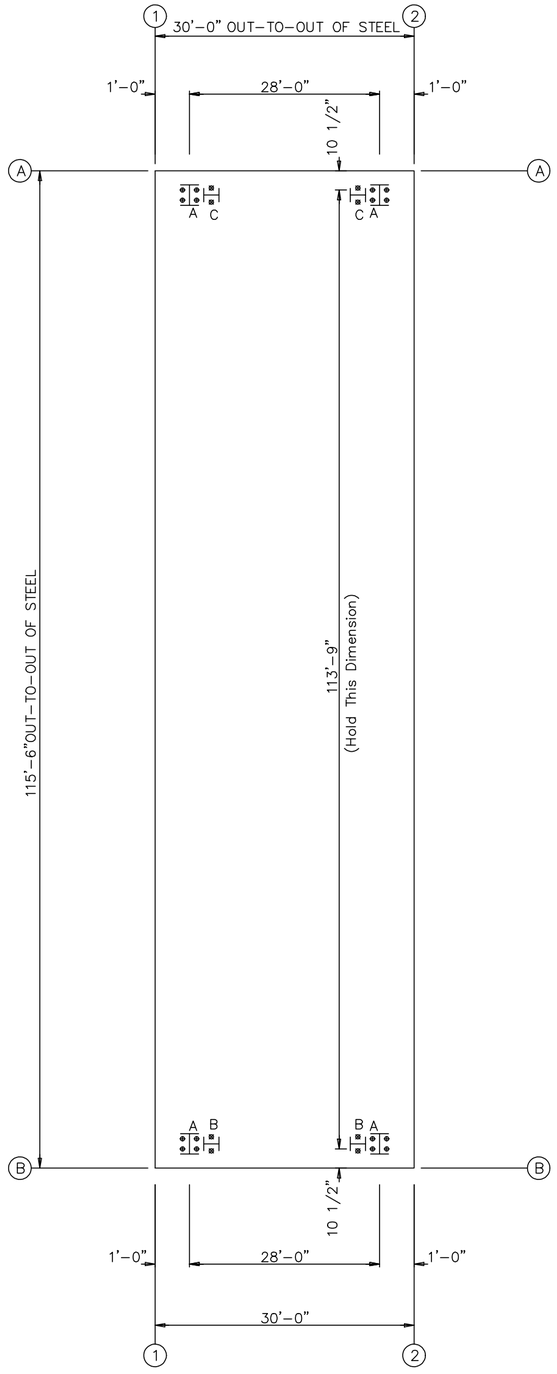
DETAIL A



DETAIL B



DETAIL C



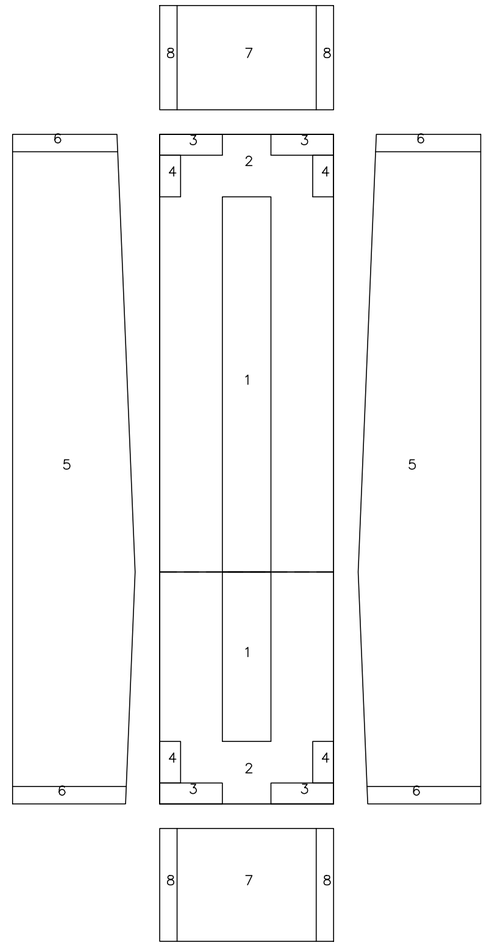
ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)

WIND PRESSURE DIAGRAM

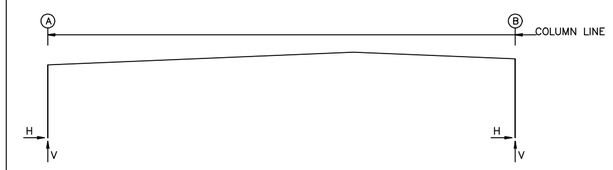
Components & Cladding (Factored)

Zone	Width (ft)	Length (ft)	Pressure(psf) Member	Pressure(psf) Panel	Suction(psf) Member	Suction(psf) Panel
1			12.83	14.54	−39.13	−51.27
2	10.80	10.80	12.83	14.54	−49.21	−65.16
3	3.60	10.80	12.83	14.54	−54.25	−85.67
4	7.20	3.60	12.83	14.54	−54.25	−85.67
5			29.00	33.08	−31.06	−35.13
6	3.00		29.00	33.08	−33.23	−41.45
7			28.98	33.06	−31.08	−35.16
8	3.00		28.98	33.06	−33.26	−41.49

(+) wind towards surface
(−) wind away from surface



FRAME LINES: 1 2



RIGID FRAME: MAXIMUM ASD REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
1*	A	1	23.7	20.3	3	−28.6	−27.4
1*	B	3	29.2	−22.5	1	−23.7	20.4
		1	−23.7	20.4	2	28.0	−24.6

1* Frame lines: 1 2

RIGID FRAME: UNFACTORED COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
1*	A	5.7	5.5	5.3	4.3	12.7	10.4	−53.0	−47.6	−41.2	−36.7	−14.5	−11.3
1*	B	−5.7	5.7	−5.3	4.3	−12.7	10.4	43.0	−37.4	52.4	−46.8	4.5	−1.2

Frame Line	Column Line	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
1*	A	−2.8	−0.5	−53.3	−51.1	−44.2	−37.7	−0.1	0.0	0.1	0.0
1*	B	13.9	−10.5	54.4	−43.2	43.7	−45.8	−0.1	0.0	0.1	0.0

1* Frame lines: 1 2

ASD LOAD COMBINATIONS

ID	Description
1	Dead+Collateral+Live
2	0.6Dead+0.6Wind_Right1
3	0.6Dead+0.6Wind_Long1R

ANCHOR BOLT SUMMARY

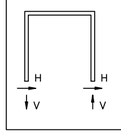
Qty	Locate	Dia (in)	Type	Proj (in)
⊕ 16	Frame	1"	F1554	3.00
⊠ 8	WindCol	3/4"	F1554	2.50

BLDG BRACING REACTIONS (UNFACTORED)

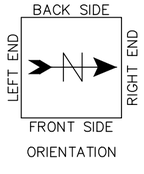
Wall Loc	Wall Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	1								(h)
F_SW	B	1,2							(a)
R_EW	2								(h)
B_SW	A	1,2							(a)

(a)Wind bent in bay
(h)Rigid frame at endwall

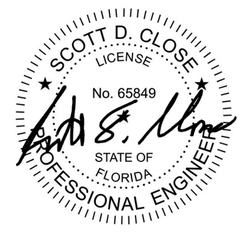
WIND BENT REACTIONS (UNFACTORED)



Wall Loc	Wall Line	Col Line	± Reactions Wind(k) Horz	Wind Vert	Seismic(k) Horz	Seismic Vert	Bolt(in) Qty	Bolt Dia	Base_Plate(in) Width	Length	Thick
F_SW	B	1	7.8	10.7	0.1	0.1	2	0.750	8.000	14.000	0.500
F_SW	B	2	7.8	10.7	0.1	0.1	2	0.750	8.000	14.000	0.500
B_SW	A	2	7.6	9.6	0.1	0.1	2	0.750	6.000	16.000	0.500
B_SW	A	1	7.6	9.6	0.1	0.1	2	0.750	6.000	16.000	0.500



ORIENTATION



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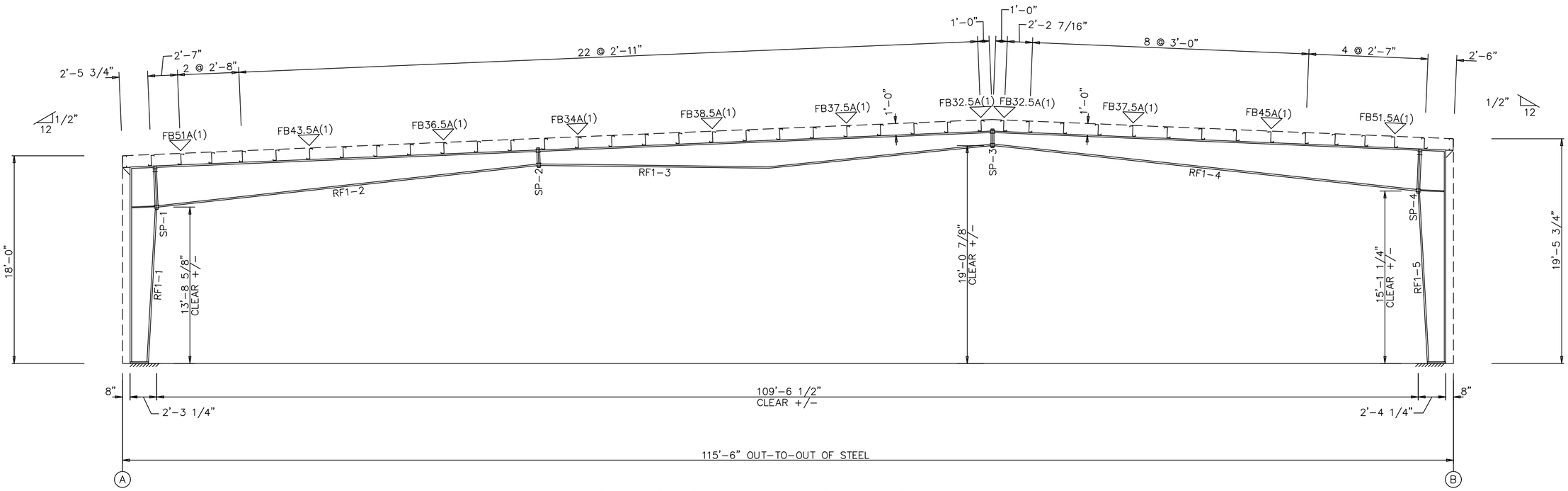
ANCHOR BOLT PLAN

BEHLEN Building Systems

JOB NO. Z0442 SHT. 2 OF 9

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	1.000	3.75	10"	1"	3'-8 1/4"
SP-2	4	4	0	A325	0.750	2.50	10"	5/8"	1'-7 7/8"
SP-3	4	4	0	A325	0.750	2.50	8"	3/8"	1'-6 7/8"
SP-4	4	4	0	A325	1.250	4.00	10"	1"	3'-10 1/8"

▽FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A - L2X2X1/8



RIGID FRAME ELEVATION: FRAME LINES 1 & 2

BOLT TIGHTENING METHOD:
RIGID FRAMES BY THIS MANUFACTURER ARE DESIGNED TO BE FASTENED USING A-325 HIGH STRENGTH BOLTS BY THE "SNUG-TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCSC, 6-11-2020), SECTION 4.1, "SNUG-TIGHTENED JOINTS" (REFERENCE SECTION 8.1)

ERECTION NOTES:

1. THE "APPLICABLE WALL PANEL ERECTION GUIDE" IS TO BE USED IN CONJUNCTION WITH THESE DRAWINGS TO DETERMINE COMPLETE ERECTION REQUIREMENTS.
2. ALL FLANGE BRACING MUST BE INSTALLED AT FRAME LINES AS SHOWN.

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Orlando FL 32809

BEHLEN® Building Systems

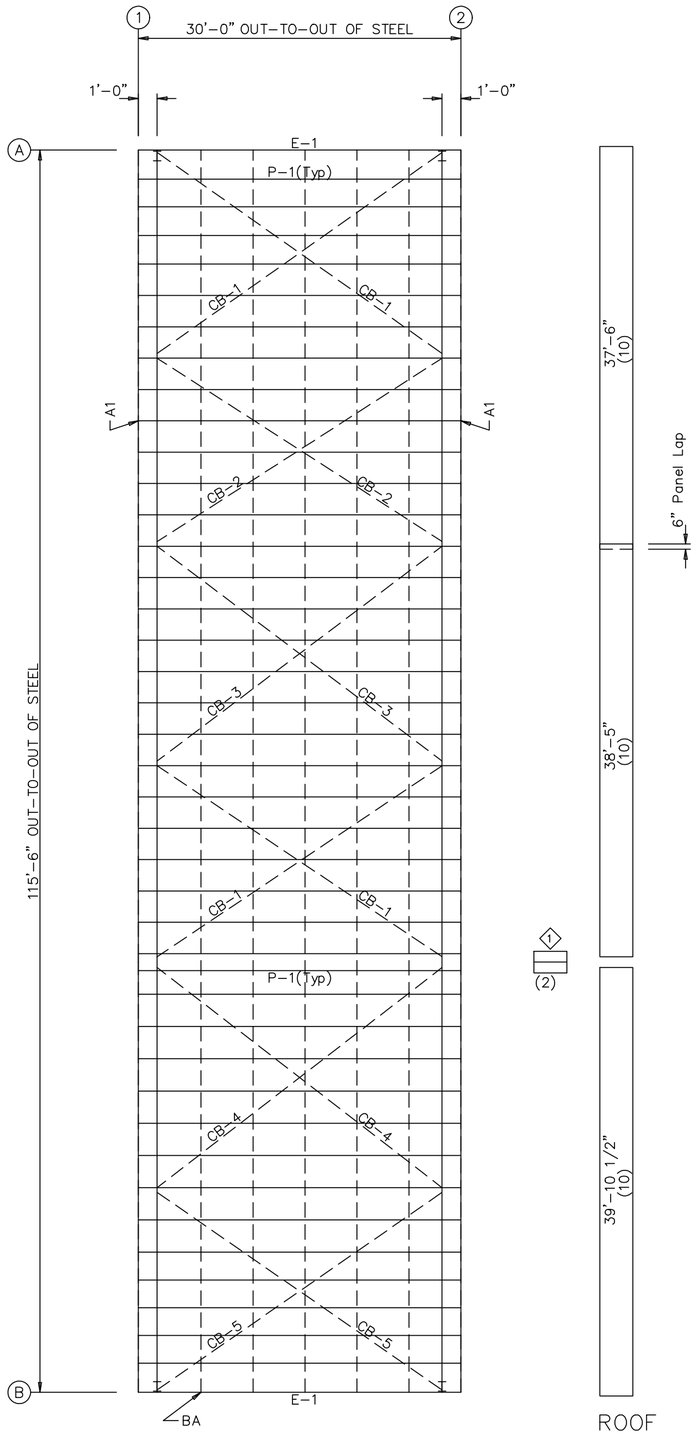
RIGID FRAME ELEVATION

JOB NO. Z0442

SHT. 3 OF 9

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
P-1	12X25Z12	29'-11 1/2"
E-1	12ES14	29'-11 1/2"
CB-1	WX5	31'-2"
CB-2	WX5	30'-11"
CB-3	WX5	32'-0"
CB-4	WX5	32'-8"
CB-5	WX5	31'-0"

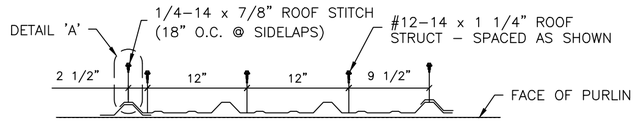
TRIM TABLE ROOF PLAN		
◇ID	PART	DETAIL
1	RC1	T90



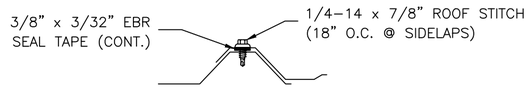
ROOF FRAMING PLAN

ROOF SHEETING

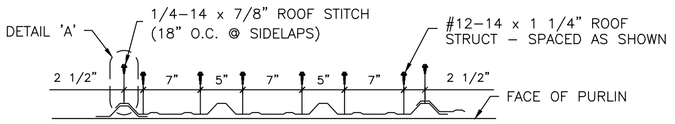
PANELS: 26 Ga. PBR Panel
Polar White



'PBR' ROOF PANEL FASTENER SPACING AT INTERMEDIATE PURLINS AND "ZONE ." U.N.O.



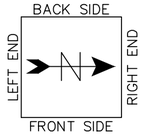
DETAIL "A"



'PBR' ROOF PANEL FASTENER SPACING AT EAVE, END LAP, PEAK PURLINS AND ALSO USED IN ALL OF "ZONES 3 & 4."

ROOF PANEL ATTACHMENT

"PBR" PANELS



ORIENTATION

LT – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

TO FACILITATE THE PROPER ORIENTATION OF THE PURLINS WHEN PLACING THEM ON THE ROOF, LOCATE THE PART NUMBER AND POSITION THIS END TO THE RIGHT AS STANDING ON THE OUTSIDE OF THE BUILDING LOOKING UPSLOPE; NOTE THAT THE TOP FLANGE OF ZEE PURLINS SHOULD FACE UPSLOPE UNLESS NOTED OTHERWISE ON FRAME CROSS SECTIONS DRAWING.

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Orlando FL 32809

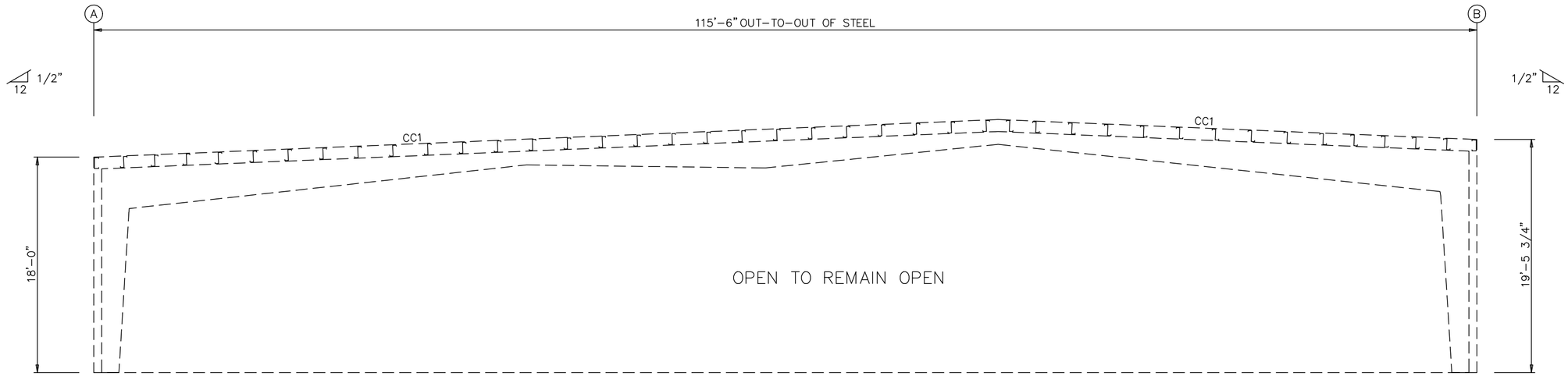
BEHLEN Building Systems

ROOF FRAMING

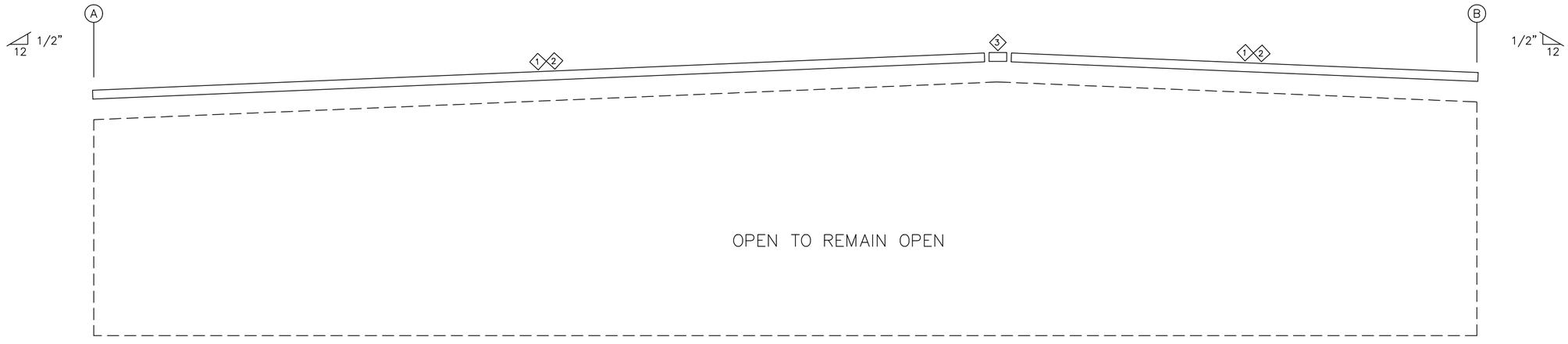
JOB NO. Z0442

SHT. 4 OF 9

TRIM TABLE FRAME LINE 1		
◇ID	PART	DETAIL
1	RT1	T82
2	FT1	T82
3	PKB1	



LEFT ENDWALL FRAMING: FRAME LINE 1



LEFT ENDWALL SHEETING & TRIM: FRAME LINE 1

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ACC – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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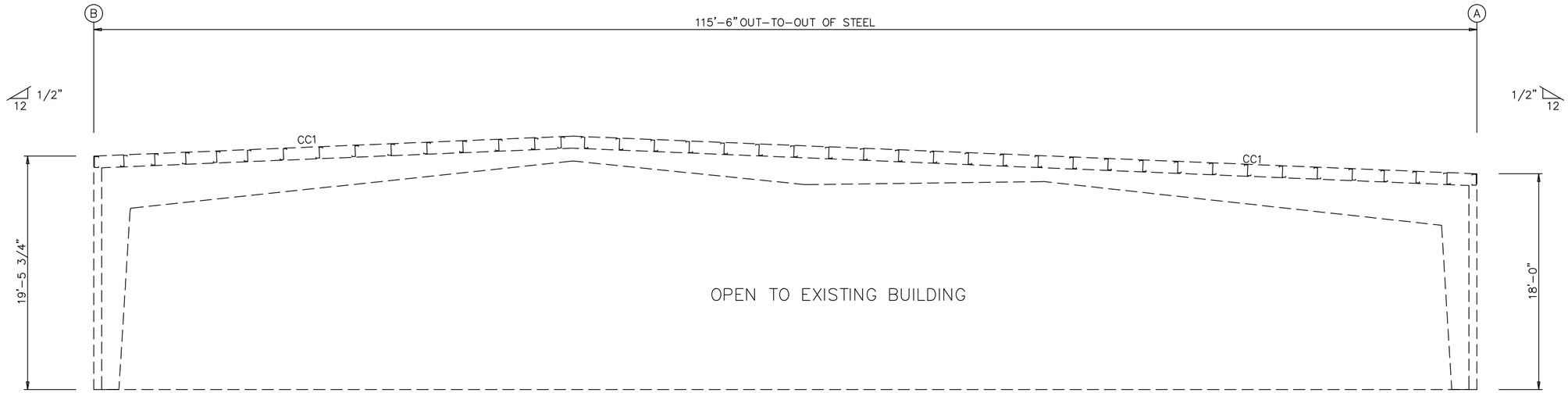
ENDWALL FRAMING

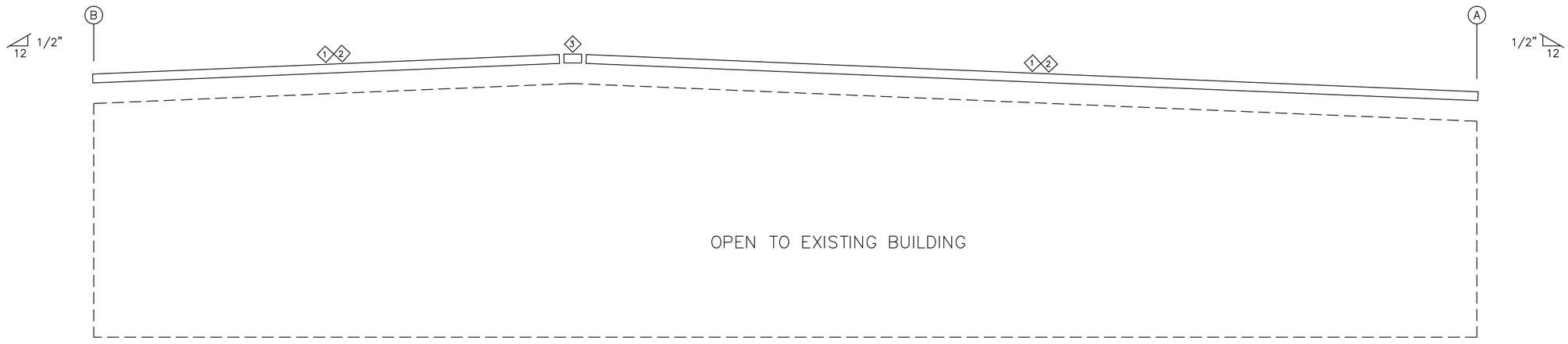
JOB NO. Z0442

SHT. 5 OF 9

TRIM TABLE FRAME LINE 2		
◇ID	PART	DETAIL
1	RT2	T92
2	FT1	T92
3	PKB1	



RIGHT ENDWALL FRAMING: FRAME LINE 2



RIGHT ENDWALL SHEETING & TRIM: FRAME LINE 2

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ET – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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ENDWALL FRAMING

JOB NO. Z0442

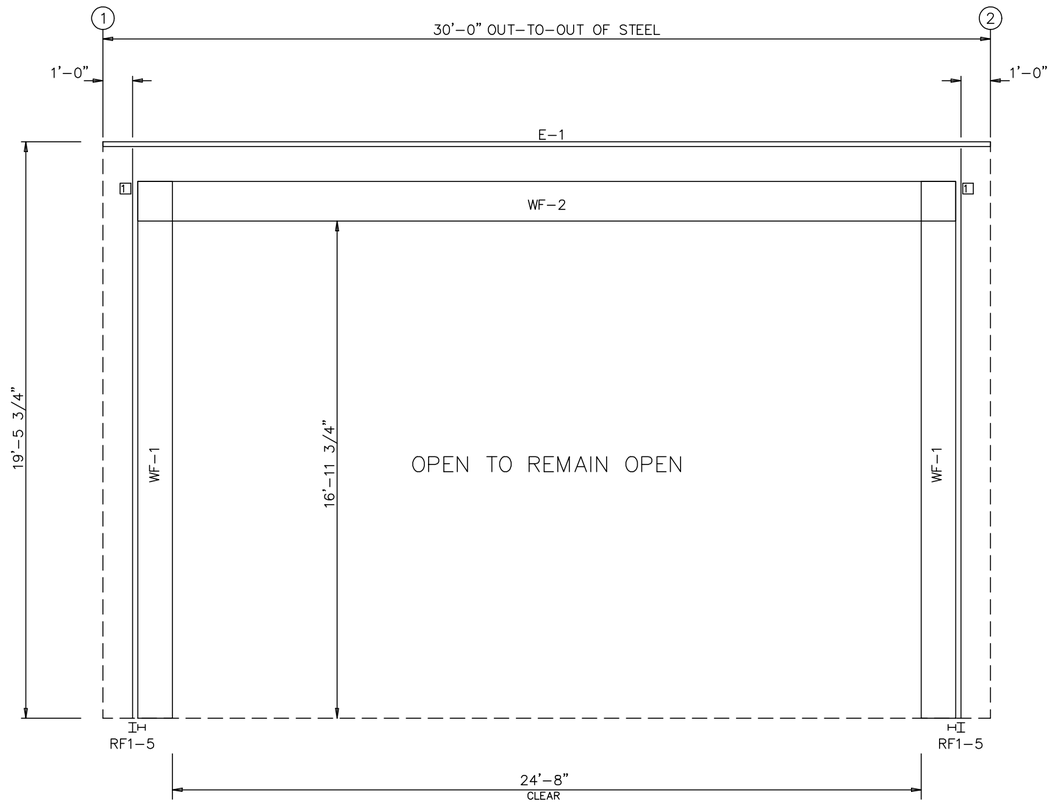
SHT. 6 OF 9

BOLT TABLE FRAME LINE B				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 – WF-2	8	A325	3/4"	2 1/2"
WF-1 – RF1-5	4	A325	1/2"	1 1/2"

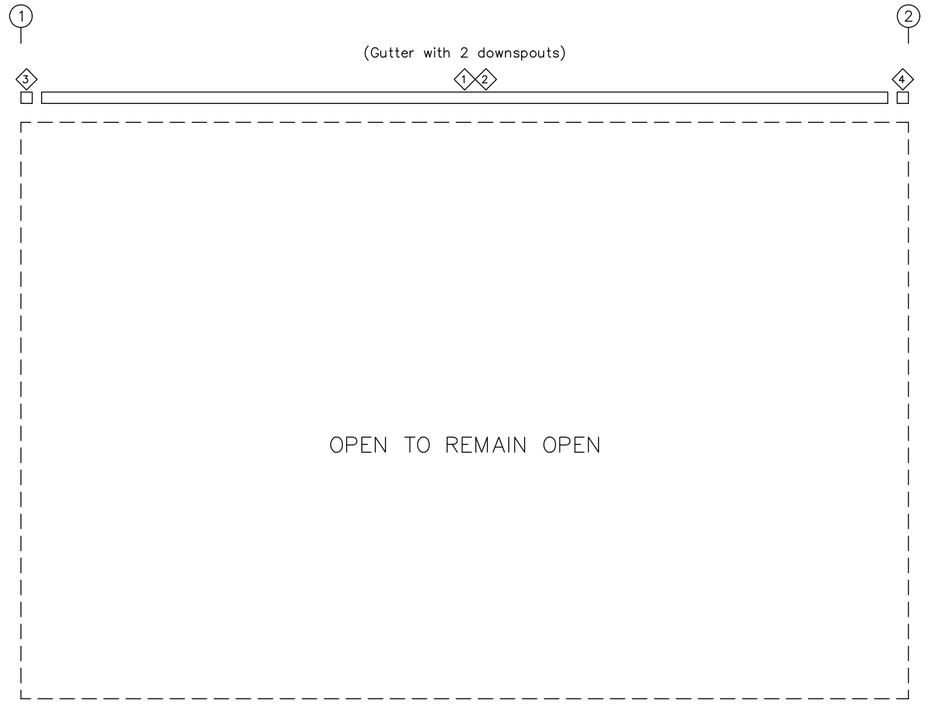
MEMBER TABLE FRAME LINE B		
MARK	PART	LENGTH
WF-1	B1480513	18'-3 3/4"
WF-2	B1680513	24'-7 5/8"
E-1	12ES14	29'-11 1/2"

TRIM TABLE FRAME LINE B		
◇ID	PART	DETAIL
1	GU1	T80
2	ET1	T80
3	GECOL	
4	GECOR	

CONNECTION PLATES FRAME LINE B	
□ID	MARK/PART
1	CP150



FRONT SIDEWALL FRAMING: FRAME LINE B



FRONT SIDEWALL SHEETING & TRIM: FRAME LINE B

[ET] – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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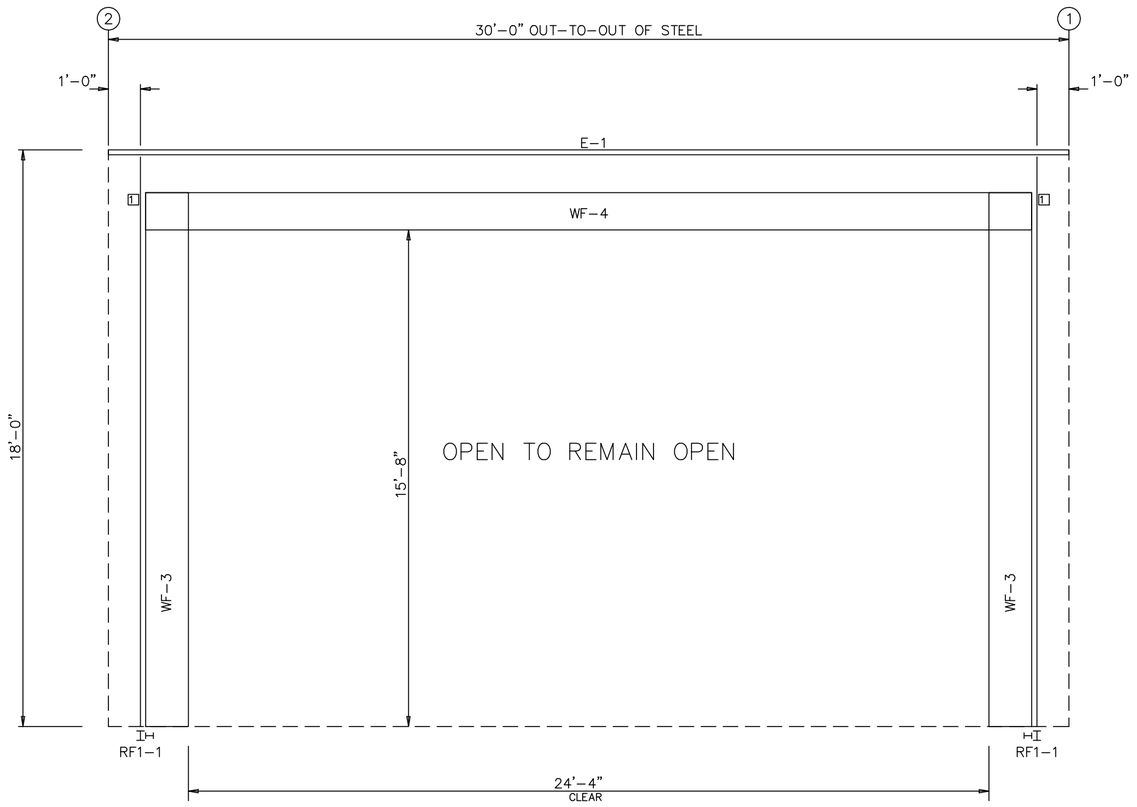
SIDEWALL FRAMING	JOB NO. Z0442	SHT. 7 OF 9

BOLT TABLE FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-3 – WF-4	8	A325	3/4"	2 1/2"
WF-3 – RF1-1	4	A325	1/2"	1 1/2"

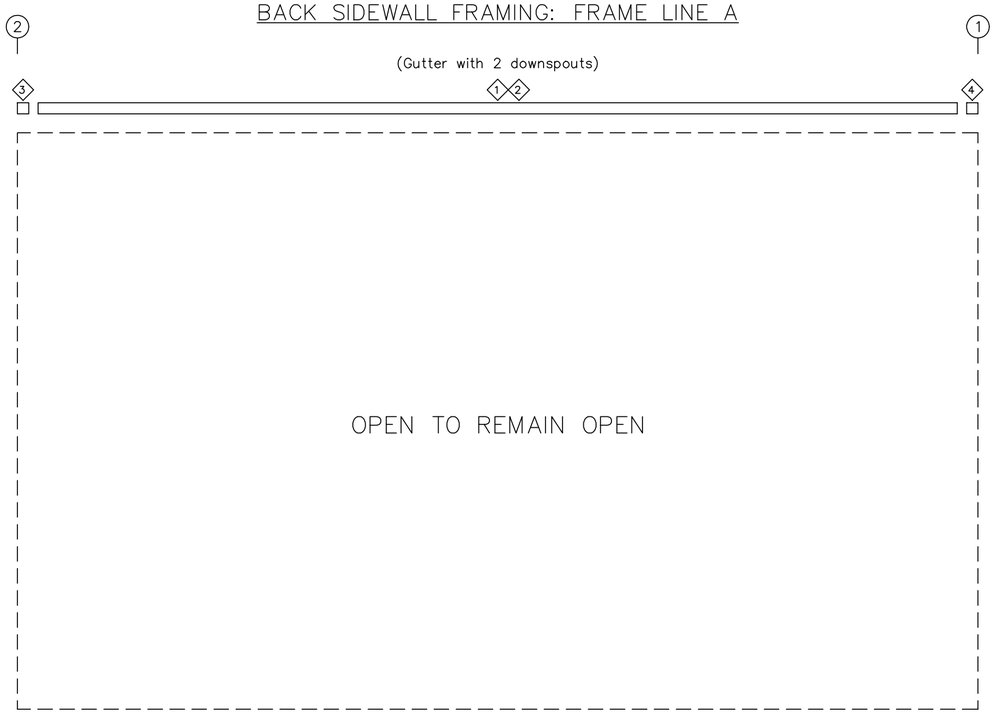
MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
WF-3	B1660613	16'-10"
WF-4	B1480513	24'-3 1/2"
E-1	12ES14	29'-11 1/2"

TRIM TABLE FRAME LINE A		
◇ID	PART	DETAIL
1	GU1	T80
2	ET1	T80
3	GECOL	
4	GECOR	

CONNECTION PLATES FRAME LINE A	
□ID	MARK/PART
1	CP150



BACK SIDEWALL FRAMING: FRAME LINE A



BACK SIDEWALL SHEETING & TRIM: FRAME LINE A

SET – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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SIDEWALL FRAMING

JOB NO. Z0442

SHT. 8 OF 9

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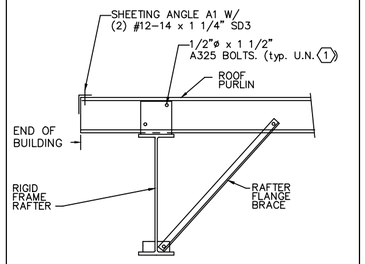
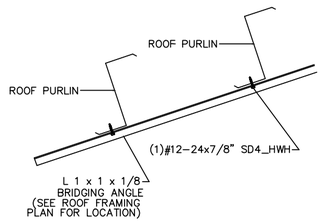
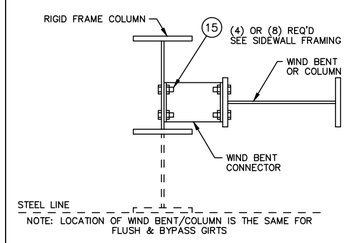


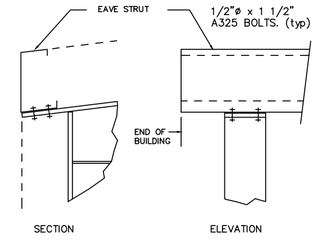
A10 ROOF PURLIN TO ENDWALL RIGID FRAME



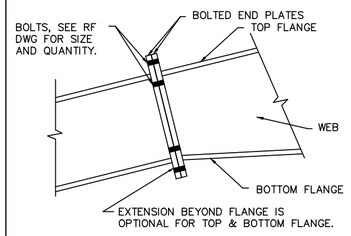
AN2 APEX STRAPPING TO ROOF PURLINS



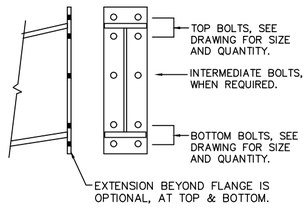
H10 WIND BENT OR WIND COLUMN TO BUILDING COLUMN



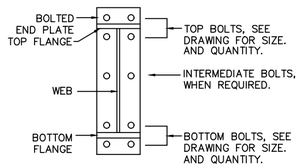
J24 EAVE STRUT TO RIGID FRAME



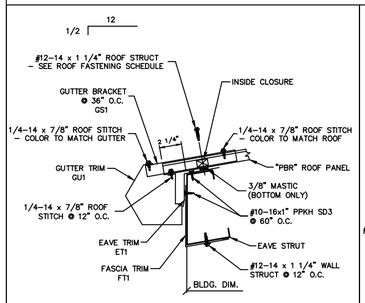
U1 BOLTED END PLATE RAFTER SPLICE



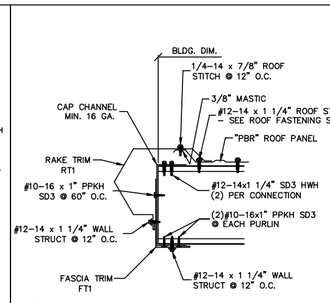
U2 BOLTED END PLATE CONNECTION AT BUILDING PEAK



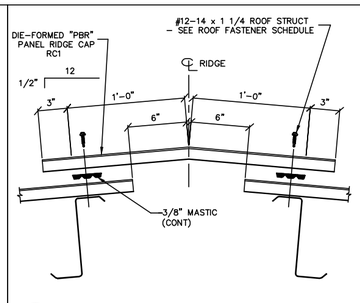
U3 BOLTS FOR RAFTER TO COLUMN CONNECTION



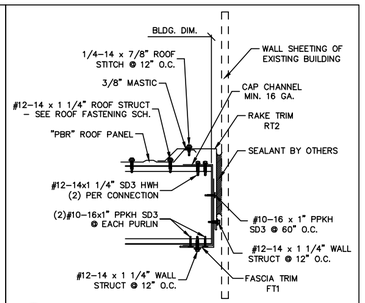
T80 EAVE DETAIL w/o WALL PANEL "PBR" PANEL ROOF



T82 RAKE DETAIL w/o WALL PANEL "PBR" PANEL ROOF



T90 RIDGE DETAIL "PBR" PANEL ROOF



T92 RAKE DETAIL w/o WALL PANEL "PBR" PANEL ROOF

FASTENER SCHEDULE

LOC.	PART NUM.	DESCRIPTION
(1)		AS NOTED ON RIGID FRAME ELEVATION
(2)	3228092	SCREW 1/4 X 7/8 FL–TP SD WW
(3)	3228280	SCREW 12 X 1 HWH SD NW
(4)	3228042	SCREW 12 X 1 1/4 FL–TP SD WW
(5)	3228040	SCREW 12 X 1 1/4 LG–LF SD WW
(6)	3128087	RIVET 1/8 X 1/4
(8)	3188333	BOLT 1/2 X 2 HVHX A325T GALV & NUT (1328191)
(9)	1328199	BOLT 5/8 X 2 1/4 HVHX A325T GALV & NUT (1328195)
(10)	1328187	BOLT 3/4 X 1 1/2 HVHX A325T GALV & NUT (1328192)
(11)	1328190	BOLT 3/4 X 2 1/2 HVHX A325T GALV & NUT (1328192)
(12)	3228094	SCREW 1/4 X 7/8 LG–LF SD WW FOR PBR ROOF
	3228094	SCREW 1/4 X 7/8 LG–LF SD WW FOR SS ROOF
(13)	3228040	SCREW 12 X 1 1/4 LG–LF SD WW FOR PBR ROOF
	3228040	SCREW 12 X 1 1/4 LG–LF SD WW FOR SS ROOF

LOC.	PART NUM.	DESCRIPTION
(14)	3228055	SCREW 12 X 1 1/4 HWH SD #5 PT NW
(15)	1328193	BOLT 1/2 X 1 1/2 HVHX A325T GALV & NUT (1328191)
(16)	3188751	BOLT 1/2 X 1 1/4 FLT RD HD A307 PLTD & NUT (2688474)
(17)	–	SCREW 12 X 2 FL–TP SD WW (SPECIAL ORDER)
(18)	3228022	SCREW 10 X 1 PANCAKE HEAD
(21)	3228285	SCREW 12 X 1 1/4 HWH SD NW

ABBREVIATIONS

HD	= HEAD
SD	= SELF DRILLING
ST	= SELF TAPPING
SS	= STAINLESS STEEL
PT	= POINT
RD	= ROUND
WW	= WITH WASHER
NW	= NO WASHER
FLT	= FLAT
HVHX	= HEAVY HEX
UNPL	= UNPLATED
PLTD	= PLATED
HWH	= HEX WASHER HEAD
FL–TP	= FLAT TOP
LG–LF	= LONG LIFE
PHPS	= PHILLIPS

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1					
2					
3					
4					

NOTES:
1. FOR FLANGE BRACE LOCATIONS – SEE FRAME CROSS SECTION AND ROOF FRAMING PLANS.
2. SOME FIELD DRILLING AND/OR FIELD CUTTING OF STEEL COMPONENTS MAY BE REQUIRED DURING THE ERECTION OF THIS BUILDING.
3. PURLIN LAPS MAY VARY IN LENGTH AND MAY NOT NECESSARILY BE THE SAME ON EACH SIDE OF THE FRAME

UNLESS OTHERWISE NOTED, CONNECTIONS BY THIS MANUFACTURER USING A–325 HIGH STRENGTH BOLTS ARE DESIGNED TO BE FASTENED USING THE "SNUG TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCSC, 6–11–2020), SECTION 4.1 "SNUG–TIGHTENED JOINTS" (REFERENCE SECTION 8.1).

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DETAIL DRAWINGS

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