

Builder/Contractor Responsibilities

<u>Drawing Validity</u> — These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

<u>Builder Acceptance of Drawings</u> — Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice Sept 86 Section 4.2.1)(Mar 05 Section 4.4.1)

<u>Code Official Approval</u> — It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

<u>Building Erection</u> — The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector (AISC Code of Standard Practice Sept 86 Section 7.9.1) (Mar 05 Section 7.10.3) (CSA/S16-09 Section 29).

<u>Discrepancies</u> — Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice Sept 86 Section 3.3) (Mar 05 Section 3.3)

<u>Materials by Others</u> — All interface and compatibility of any materials not furnished by the manufacturer 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 if furnished as a part of the order documents, the manufacturers assumptions will govern.

Modification of the Metal Building from Plans — The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or braces, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design

The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA 06 Sections 3.2.2 and A3)



Mesco Building Solutions

5244 Bear Creek Court, Irving, Texas 75061 Voice 214-687-9999 Fax 214-687-9737

ENGINEERING DESIGN CRITERIA

Building Code 2010 Florida Building Code

Building Risk Category	Normal
Roof Dead Load	
Superimposed	4. 54 psf
Collateral	5, 00 psf
(0.00 psf Ceiling 5.00 psf Othe	
	20.00 0 1 1 1
Roof Live Load	20,00 psf reduction allowed
NAME OF THE PARTY	
Wind	
Basic Wind Speed	119,00 mph
Wind Exposure Category	В
Internal Pressure Coef (GCpi)	0.18/-0.18
Loads for components not provide	
Connon Anger (within 6 55% of a	on by but turng hundracturer
Corrier Areas (Within 6, 33 of Ci	orner) 25, 47 psf pressure -34, 10 psf suction
Other Areas	25. 47 psf pressure -27. 63 psf suction
	lues required based on a 10 sq ft area.
Components with larger areas may	v have lower wind loads.

DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length. The frame sidesway for wind loading is based on ASCE 7 commentary equation CC-3 of 0.7W. The limits shown are at service loads unless indicated otherwise.

BUILDING DEFLECTION LIMITS...: BLDG-A

Ceiling Loads? : No	Pl	aster Ceiling?	: N/A
Roof Limits Live L/ Snow L/ Wind L/ Total Gravity L/ Total Uplift L/	Rafters 180 180 180 120 N/A	Purlins 150 180 180 120 N/A	Pane (240 240 240 240 240
Frame Limits Live H/ Snow H/ Wind H/ Seismic Drift H/	Sidesway 60 60 60 67	Portal Fram	ne Sidesway 67
Crane H/ Total Gravity H/ Total Wind H/ Service Seismic H/	100 60 60 50		60 50
Wall Limits Total Wind Panels L/ Total Wind Girts L/ Total Wind EW Columns L/	Limit 240 120 120		

Note: The Seismic Drift limit as shown here is compared to the inelastic seismic story drift, as amplified by Cd and required by ASCE 7 Chapter 12.

The Service Seismic limit as shown here is at service level loads.

PROJECT NOTES

BOLT TIGHTENING - All bolted joints with A325-09 Type 1 bolts are specified as snug-tightened joints in accordance with the Specification for Structural Joints Using ASTM A325 or A490 Bolts, June 30, 2004. Pretensioning methods, including turn-of-nut, calibrated wrench, twist off type tension control bolts or direct tension indicator are NOT required. Installation Inspection requirements for Snug Tight Bolts (Specification for Structural Joints Section 9.1) is suggested.

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, ASTM A1011 SS, or ASTM A1011 HSLAS with a minimum yield point of 50 ksi. Material properties of hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with a minimum specified yield point of 50 ksi. Hot rolled angles, other than flange braces, conform to ASTM 36 minimum. Hollow structural shapes conform to ASTM A500 grade B, minimum yield point is 42 ksi for round HSS and 46 ksi for rectangular HSS. Material properties of cold-formed light gage steel members conform to grade 55, with a minimum yield point of 55 ksi. For Canada, material properties conform to CAN/CSA G40. 20/G40. 21 or equivalent.

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 nor 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.

Framed openings, walk doors, and open areas shall be located in the bay and elevation as shown in the erection drawings. The cutting or removal of girts shown on the erection drawings due to the addition of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

X-Bracing is to be installed to a taut condition with all slack removed. Do not tighten beyond this state.

Using 5x5 gutter with 4 x 5 downspouts, the roof drainage system has been designed using the method outlined in the MBMA Metal Building Systems Manual. Downspout locations have not been located on these drawings. The downspouts are to be placed on the building sidewalls at a spacing not to exceed 18 feet with the first downspout from both ends of the gutter run within 1 feet of the end. Downspout spacing that does not exceed the maximum spacing will be in compliance with the building code. The gutter and downspout system as provided by the manufacturer is designed to accommodate 10 in/hr rainfall intensity as it corresponds to a 5 year recurrence interval.

The design collateral load has been uniformly applied to the design of the building. Hanging loads are to be attached to the purlin web. This may not be appropriate for heavily concentrated loads. Any attached load in excess of 150 pounds shall be accounted for by special design performed by a licensed engineer using concentrated loads and may require seperate support members within the roof system.

This metal building system is designed as enclosed. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code. Doors are to be closed when a maximum of 50% of design wind velocity is reached.

F1	Anchor Rod
F2	Anchor Rod Details
E1	Cover Sheet
E2	Primary Steel BLDGA
E3	Roof Framing BLDGA
E4	Roof Sheeting
E5	Sidewall BLDGA WALLSWA
E6	Sidewall BLDGA WALLSWC
E7	Endwall BLDGA WALLEWB
E8	Endwall BLDGA WALLEWD
E9-E13	Main Frame Cross Sections
E14	Portal Frame Cross Section 12 FRAMELINEA—SWA
E15	Connection Detail
E16	Iso Trim

Drawing Index

Description

Page

R1-R11



Construction Drawings

Revision Date

0 12/06/12 ISSUED FOR ERECTOR INSTALLATION

Parmit

Mesco Building Solutions
5244 Bear Creek Court, Irving, Texas 75061
Voice 214-687-9999 Fax 214-687-9737
Project Name & Location:
FABRIC SHOP



| Scale: NOT TO SCALE | Drawn by: | HRH | 12/6/12 | Checked by: | HH | 12/6/12 |

Project Engineer: JC

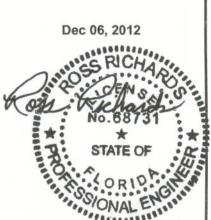
Job Number: 22-B-61638-1

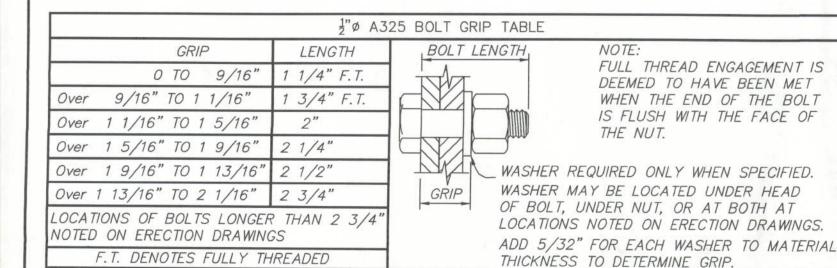
Sheet Number: E1 of 16

The engineer whose seal appears hereon is an employee for the manufacturer 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.

Ross Richards, P.E. Florida P.E. 68731

DRME3A ENM





	2	3	4	5
I _{C1A}	C1B A	RKW1C C1B	T _{C1B}	C1A I
CS2A W8X10	R1B	R1B	R1B	CS3A W8X10
CS3A W8X10	R1B	R1B	R1B	CS2A W8X10 P
T C1A	C1B	RKW1C C1B	C1B	C1A

KEY PLAN

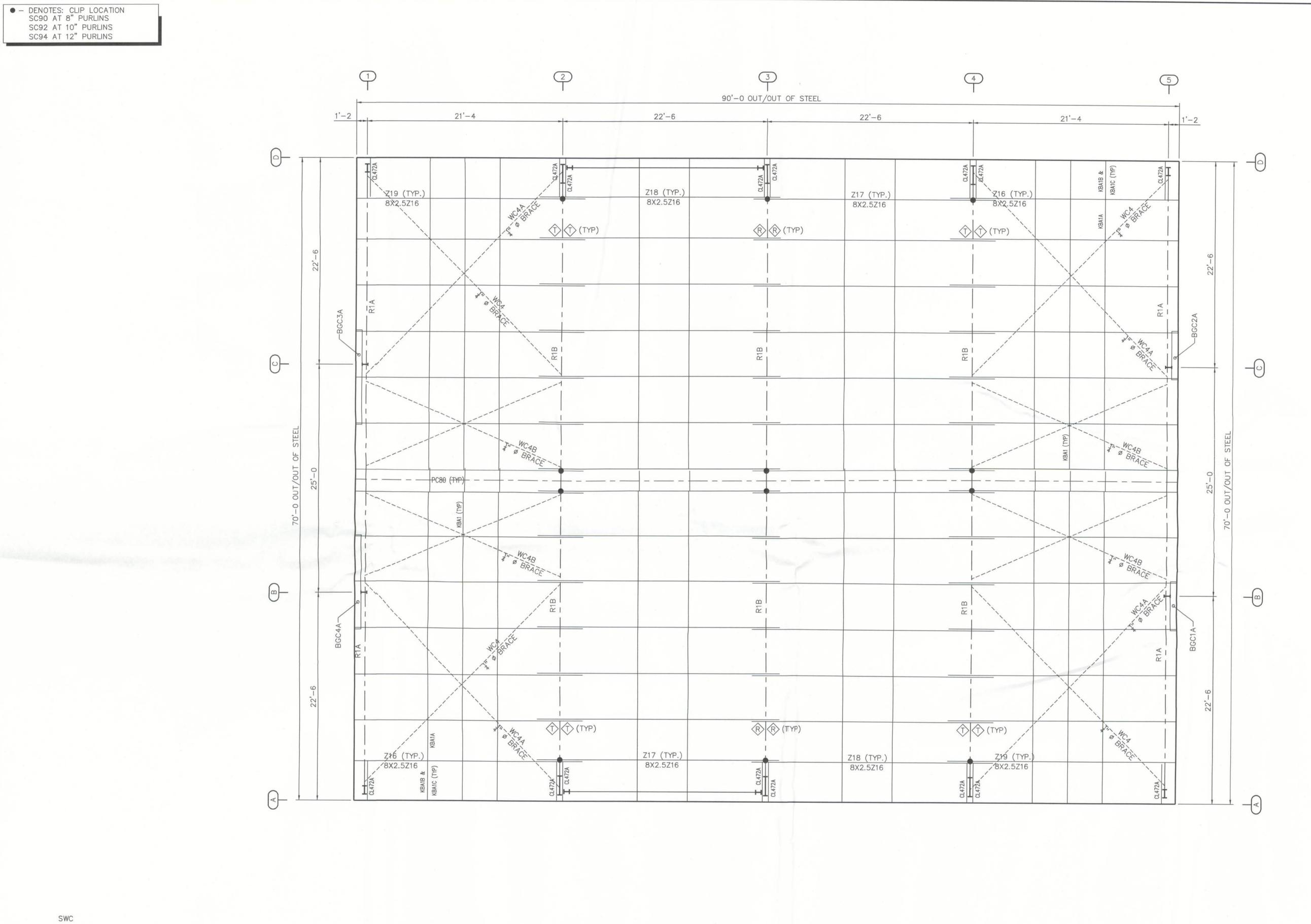
SWA

Mesco Building Solutions 5244 Bear Creek Court, Irving, Texas 75061 Voice 214-687-9999 Fax 214-687-9737 Scale: NOT TO SCALE Drawn by: HRH 12/6/12 Checked by: HH 12/6/12 Project Engineer: JC Job Number: 22-B-61638-1 Sheet Number: E2 of 16 The engineer whose seal appears hereon is an employee for the manufacturer 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.

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DRME3A ENME3A

Dec 06, 2012



Dec 06, 2012

DRME3A ENME3A

NOT TO SCALE

Drawn by: HRH 12/6/1: Checked by: HH 12/6/12

Job Number: 22-B-61638-

Sheet Number: E3 of 16

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Project Engineer: JC

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Scale:

ROOF FRAMING PLAN

KEY PLAN EWB

SWA

Z_SECTION LAP TABLE SYMBOL LAP (LENGTH) SYMBOL LAP (LENGTH) \bigcirc 0'-2" (3 $\frac{3}{4}$ ") \bigcirc 2'-4"(2'-5 $\frac{3}{4}$ ") Dimension shown on sheeting layout is from steel line to Q of rib/panel seam at the end of the first panel and is <u>NOT</u> the dimension the panel should be cut. Refer to the rake/corner details on the "R" drawings for the panel overhang past steel line to determine the panel cut dimension.

PANEL TYPE = IBL (POLAR WHITE)
PANEL OVERHANG = 48
FROM OUTER STEEL

		-														-										3'-0
F3504=1D F3711=1D (76) HW441=1			36°-4¾	36*-43	36"-43	36'-4¾	36"-43	36"-43	36*-43	36"-43	36'-4¾	36"-43	36'-4¾	36'-4¾	36°-4¾	36'-43	36'-43	36'-43	36*-43	36'-43	36*-43	36*-43	36'-4¾	36*-43	36°-43	36'-43
14 14 14 14 14 14 14 14 14 14 14 14 14 1								ALS: N		1													_			
19 19<	1	1	36'−4₹	36'—4¾	36°-4₹	36'-4¾	36'–4≩	36'−4₹	36"-43	36"-4}	36'-43	36*-43	36'-43	36'-43	36'-43	36"-43	36'-4≩	36"-43	1 1	36°-43	36'-43				36°-43	36'-43

PANEL TYPE = IBL (POLAR WHITE)
PANEL OVERHANG = 47
FROM OUTER STEEL

SWC KEY PLAN SWA

Dec 06, 2012

DRME3A ENME3A

Scale: NOT TO SCALE

Project Engineer: JC

Drawn by: HRH 12/6/12 Checked by: HH 12/6/12

Job Number: 22-B-61638-1

Sheet Number: E4 of 16

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The engineer whose seal

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ROOF SHEETING PLAN

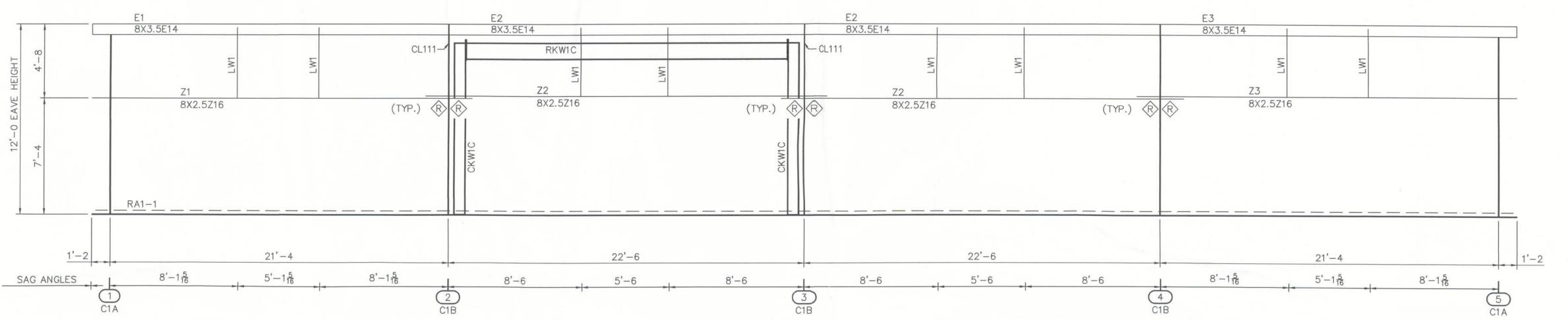
MANUFACTURER HAS SUPPLIED SUFFICIENT VAPOR SEALANT FOR APPLICATION TO ONE SIDE OF WALL PANEL LAP JOINT. ACTUAL LOCATION OF THE SIDELAP VAPOR SEALANT (INTERIOR JOINT OR EXTERIOR JOINT) MUST BE DETERMINED BY THE MECHANICAL ENGINEER AND/OR ARCHITECT OF RECORD.

Dimension shown on sheeting layout is from steel line to & of rib/panel seam at the end of the first panel and is NOT the dimension the panel should be cut. Refer to the rake/corner details on the "R" drawings for the panel overhang past steel line to determine the panel cut dimension.

	SCHEDULE OF ACCESSORIES
NO. REQD	DESCRIPTION
1	18'-0 X 7'-0 FACTORY LOCATED FRAMED OPENING
1	3070 PREMIUM INSULATED SWING DOOR W/ NO OPENING RHO CYLINDRICAL LEVERLOCK HARDWARE KEYED DIFFERENT W/ WEATHERSTRIP, THRESHOLD AND SWEEP, W/ CLOSER.
1	3070 PREMIUM INSULATED SWING DOOR W/ NO OPENING LHO CYLINDRICAL LEVERLOCK HARDWARE KEYED DIFFERENT W/ WEATHERSTRIP, THRESHOLD AND SWEEP, W/ CLOSER.
1	6070 PREMIUM INSULATED SWING DOOR W/ NO OPENING LHO MORTISE LEVERLOCK HARDWARE KEYED DIFFERENT W/ WEATHERSTRIP, THRESHOLD AND SWEEP W/ CLOSER

3'-0

REFER TO DETAILS ON INSTALLATION OF WALK DOORS.
REFER TO DETAILS ON INSTALLATION OF FRAMED OPENING.
USE STANDARD WALL PROCEDURES TO ERECT THE SIDEWALL AND ENDWALL PANELS.



SIDEWALL ELEVATION "SWA" AT GRID LINE "A"

F3421—1D F3416—1D

F246-1 9 3'-6 0.C.

F246-1

F3263-1

WALL SHEETING ELEVATION "SWA"

BLDG A

EWB KEY PLAN EWD SYN

SWC

SWA

IPP WALL PANELS
PANEL COVERAGE = 3'-6
COLOR = POLAR WHITE

Z	_SECTION L	AP TAE	BLE
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
\$	$0'-2" (3\frac{3}{4}")$	1	2'-4"(2'-53")
R	$1'-4"(1'-5\frac{3}{4}")$	\Diamond	3'-0"(3'-13")

3'-0

DRME3A ENME3A

Scale: NOT TO SCALE

Project Engineer: JC

Drawn by: HRH 12/6/12 Checked by: HH 12/6/12

Job Number: 22-B-61638-1

Sheet Number: E5 of 16

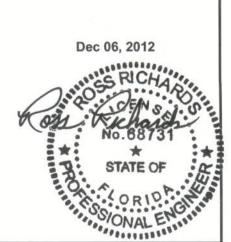
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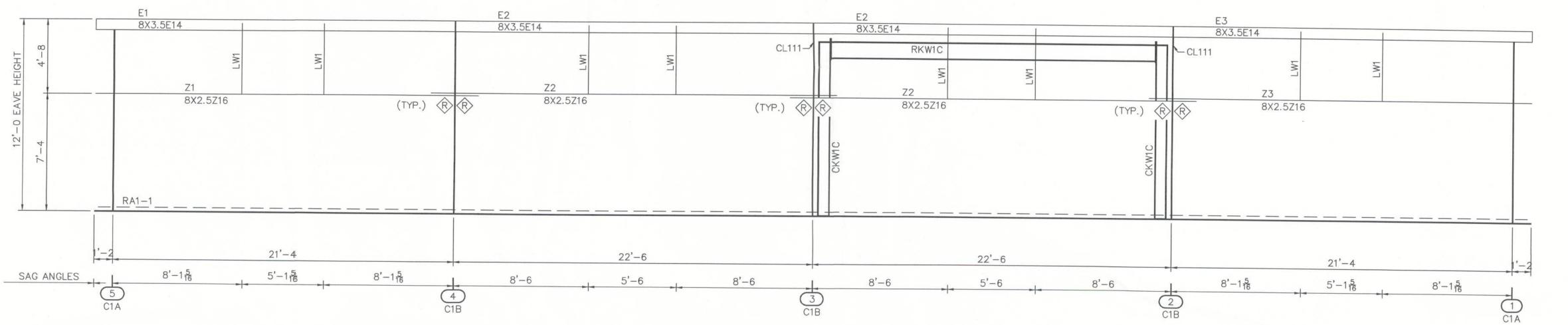
only.The undersigned engineer is not the overall engineer of

record for this project.

Ross Richards, P.E. Florida P.E. 68731



MANUFACTURER HAS SUPPLIED SUFFICIENT VAPOR SEALANT FOR APPLICATION TO ONE SIDE OF WALL PANEL LAP JOINT. ACTUAL LOCATION OF THE SIDELAP VAPOR SEALANT (INTERIOR JOINT OR EXTERIOR JOINT) MUST BE DETERMINED BY THE MECHANICAL ENGINEER AND/OR ARCHITECT OF RECORD. Dimension shown on sheeting layout is from steel line to & of rib/panel seam at the end of the first panel and is <u>NOT</u> the dimension the panel should be cut. Refer to the rake/corner details on the "R" drawings for the panel overhang past steel line to determine the panel cut dimension.



SIDEWALL ELEVATION "SWC" AT GRID LINE "D"

F3421-1D F3416-1D F246-1 @ 3'-6 O.C.

12,-01 12'-04 F3210-12'-3'-0 3'-0 F3263-1

> WALL SHEETING ELEVATION "SWC" BLDG A

Dec 06, 2012

DRME3A ENME3A

NOT TO SCALE

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Checked by: HH 12/6/12

Job Number: 22-B-61638-1

Sheet Number: E6 of 16

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Project Engineer: JC

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Scale:

SWC KEY PLAN EWB Z_SECTION LAP TABLE SYMBOL LAP (LENGTH) SYMBOL LAP (LENGTH) \bigcirc 0'-2" (3 $\frac{3}{4}$ ") \bigcirc 2'-4"(2'-5 $\frac{3}{4}$ ") (R) 1'-4"(1'-5 $\frac{3}{4}$ ") $(3'-0"(3'-1\frac{3}{4}")$ SWA

IPP WALL PANELS

PANEL COVERAGE = 3'-6 COLOR = POLAR WHITE

MANUFACTURER HAS SUPPLIED SUFFICIENT VAPOR SEALANT FOR APPLICATION TO ONE SIDE OF WALL PANEL LAP JOINT. ACTUAL LOCATION OF THE SIDELAP VAPOR SEALANT (INTERIOR JOINT OR EXTERIOR JOINT) MUST BE DETERMINED BY THE MECHANICAL ENGINEER AND/OR ARCHITECT OF RECORD.

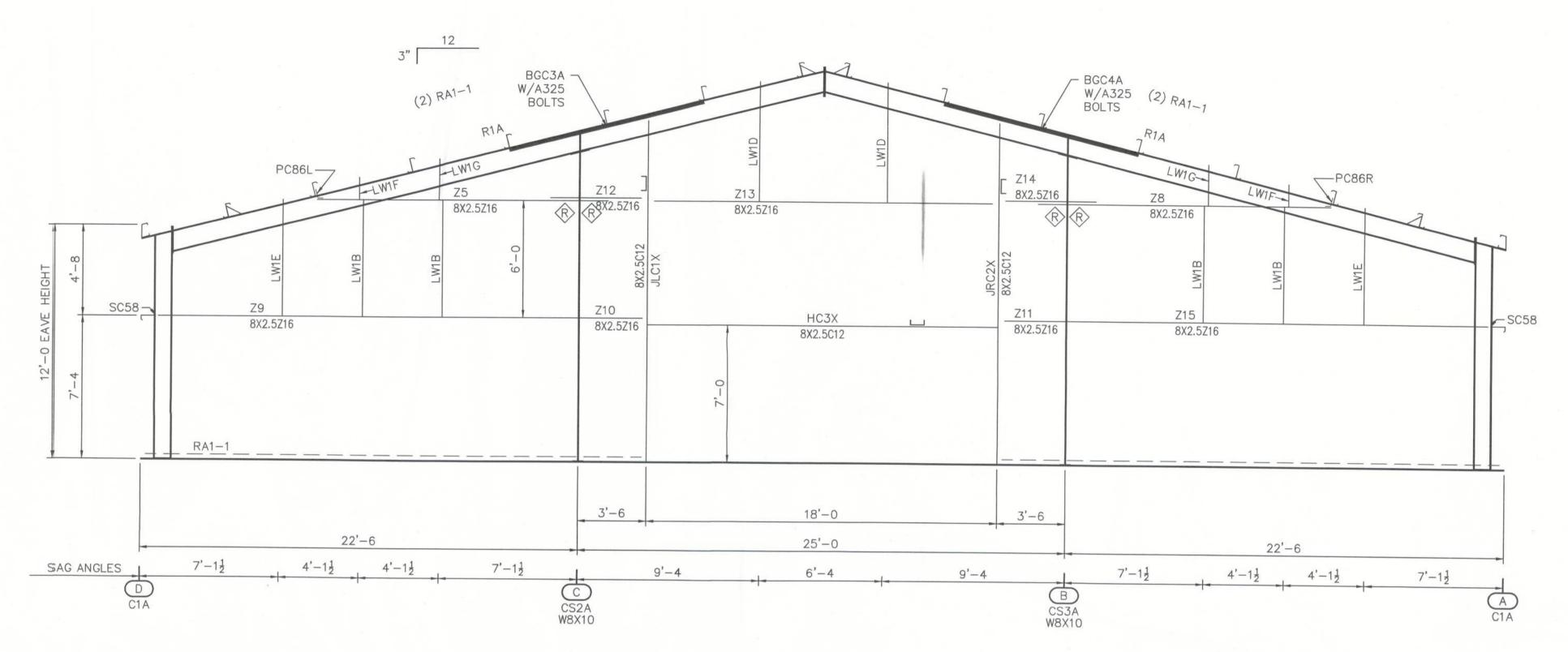
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SWC

KEY PLAN

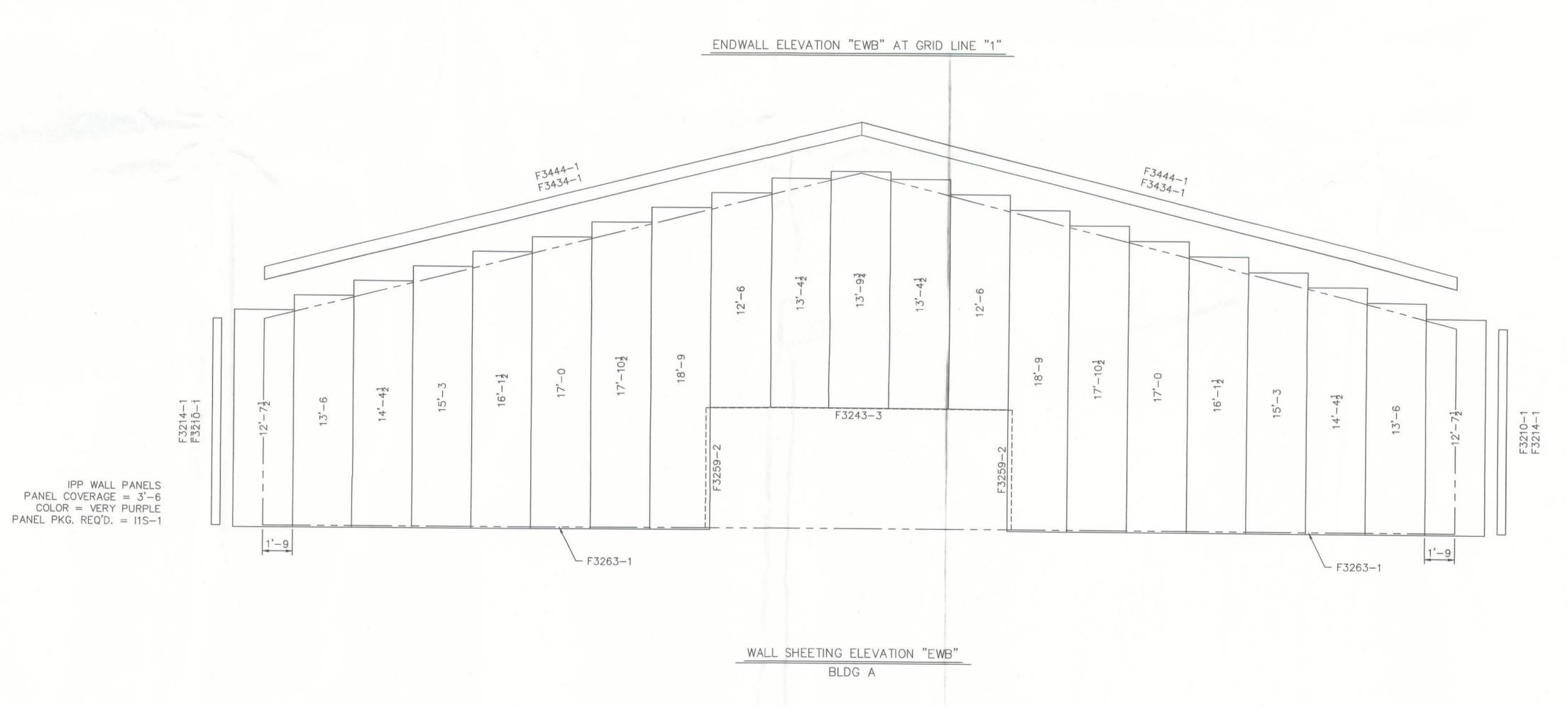
SWA

Z_SECTION LAP TABLE



TWO FB4 @ 7'-4

TWO FB4 @ 7'-4



Dec 06, 2012

SS RICHAN

OF NO. 68731

STATE OF OR 10

SS/ONAL ENGINEER

DRME3A ENME3A

Building Creek Court, Irvin 687–9999

UE CON SW LIT CITY, I

Scale: NOT TO SCALE

Project Engineer: JC

Drawn by: HRH 12/6/12 Checked by: HH 12/6/12

Job Number: 22-B-61638-1

Sheet Number: E7 of 16

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The engineer whose seal

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SWC

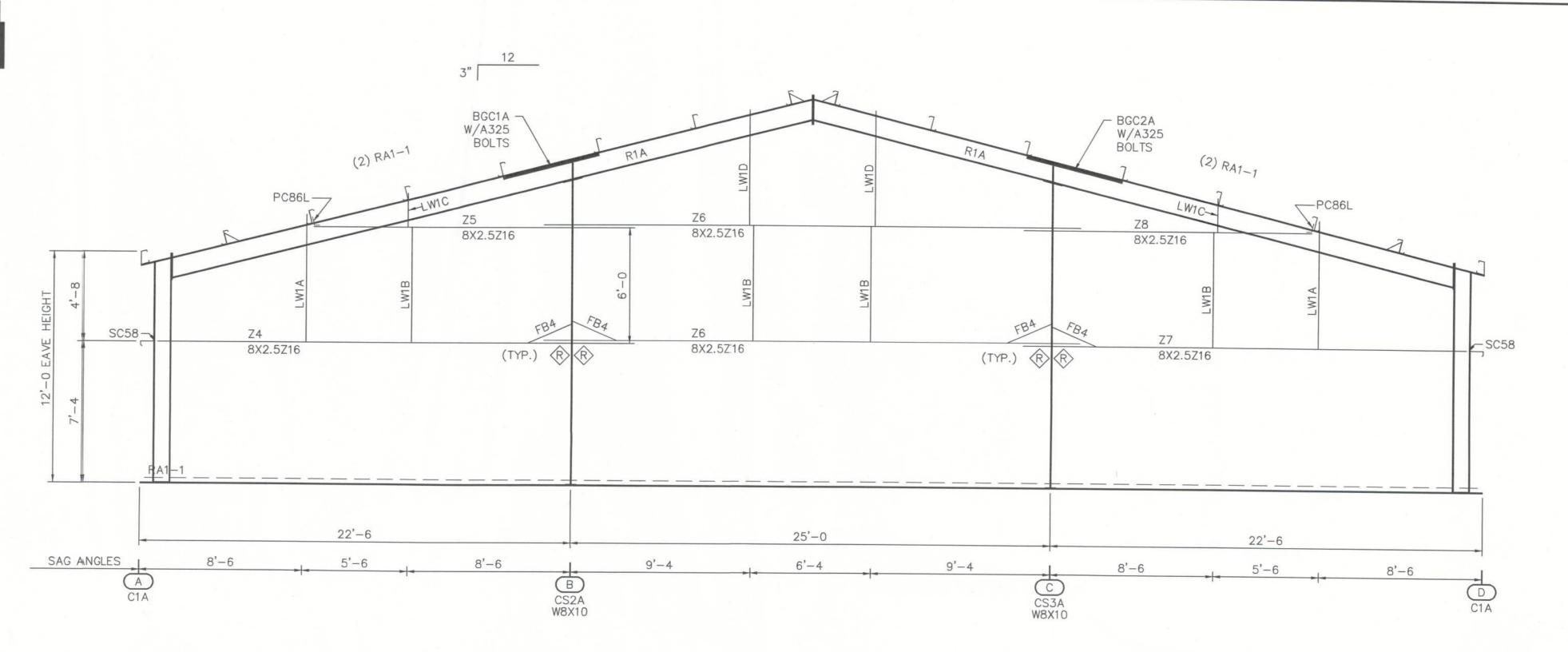
KEY PLAN

SWA

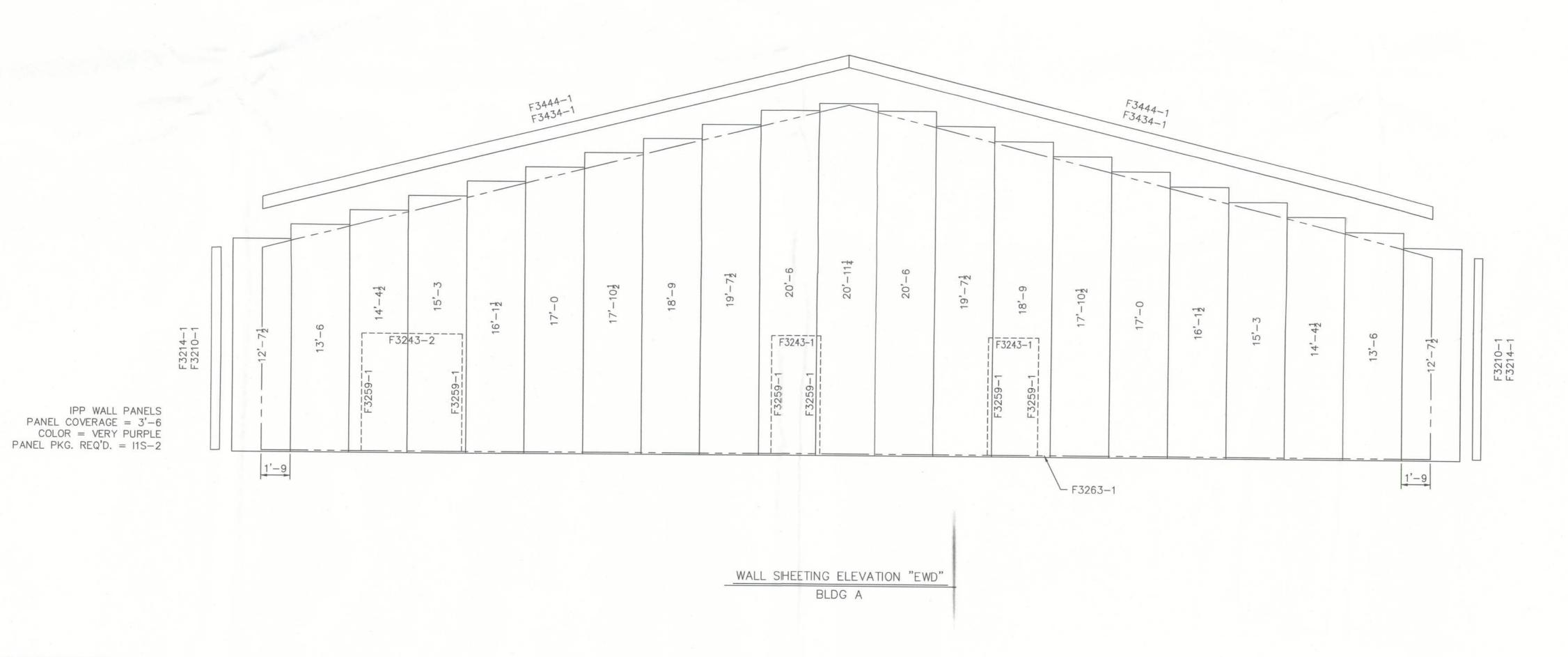
Z_SECTION LAP TABLE

 SYMBOL
 LAP (LENGTH)
 SYMBOL
 LAP (LENGTH)

 0'-2" $(3\frac{3}{4}")$ $(3\frac{3}{4}")$ $(3\frac{3}{4}")$
 $(3\frac{3}{4}")$ $(3\frac{3}{4}")$ $(3\frac{3}{4}")$
 $(3\frac{3}{4}")$ $(3\frac{3}{4}")$ $(3\frac{3}{4}")$



ENDWALL ELEVATION "EWD" AT GRID LINE "5"



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DRMEJA ENMEJA

Dec 06, 2012

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Drawn by: HRH 12/6/12

Checked by: HH 12/6/12

Job Number: 22-B-61638-1

Sheet Number: E8 of 16

Project Engineer: JC

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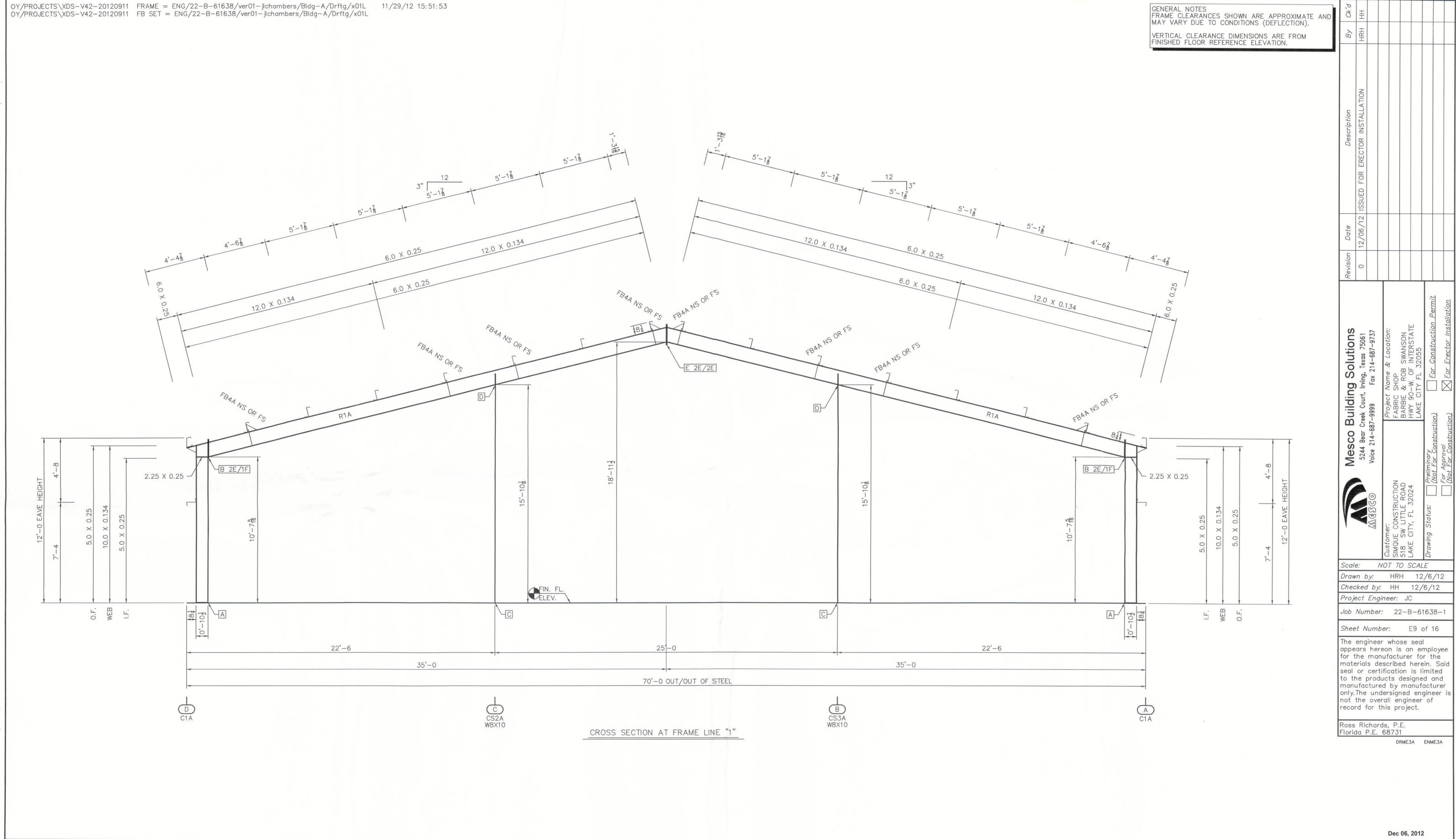


PLATE SIZE TABLE

E 6 X 0.375 X 1'- $5\frac{3}{4}$ 6 X 0.375 X 1'- $5\frac{3}{4}$

LOW SIDE

A 6 X 0.375 X 0'- $10\frac{1}{2}$

D 10 X 0.375 X 0'-11 $\frac{1}{2}$

C 6 X 0.375 X 8"

HIGH SIDE

B 6 X 0.375 X 1'- $4\frac{7}{16}$ 6 X 0.375 X 1'- $3\frac{15}{6}$ (6) $\frac{3}{4}$ X 2" A325 B&N

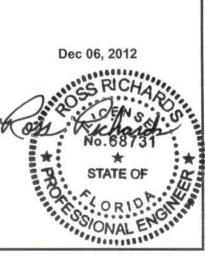
SPLICE BOLT TABLE

QTY. SIZE TYPE

 $(4) \frac{1}{2} \times 1\frac{3}{4}$ A325 B&N

(8) $\frac{3}{4}$ X 2" A325 B&N

HARDENED BEVELED WASHERS WASHERS



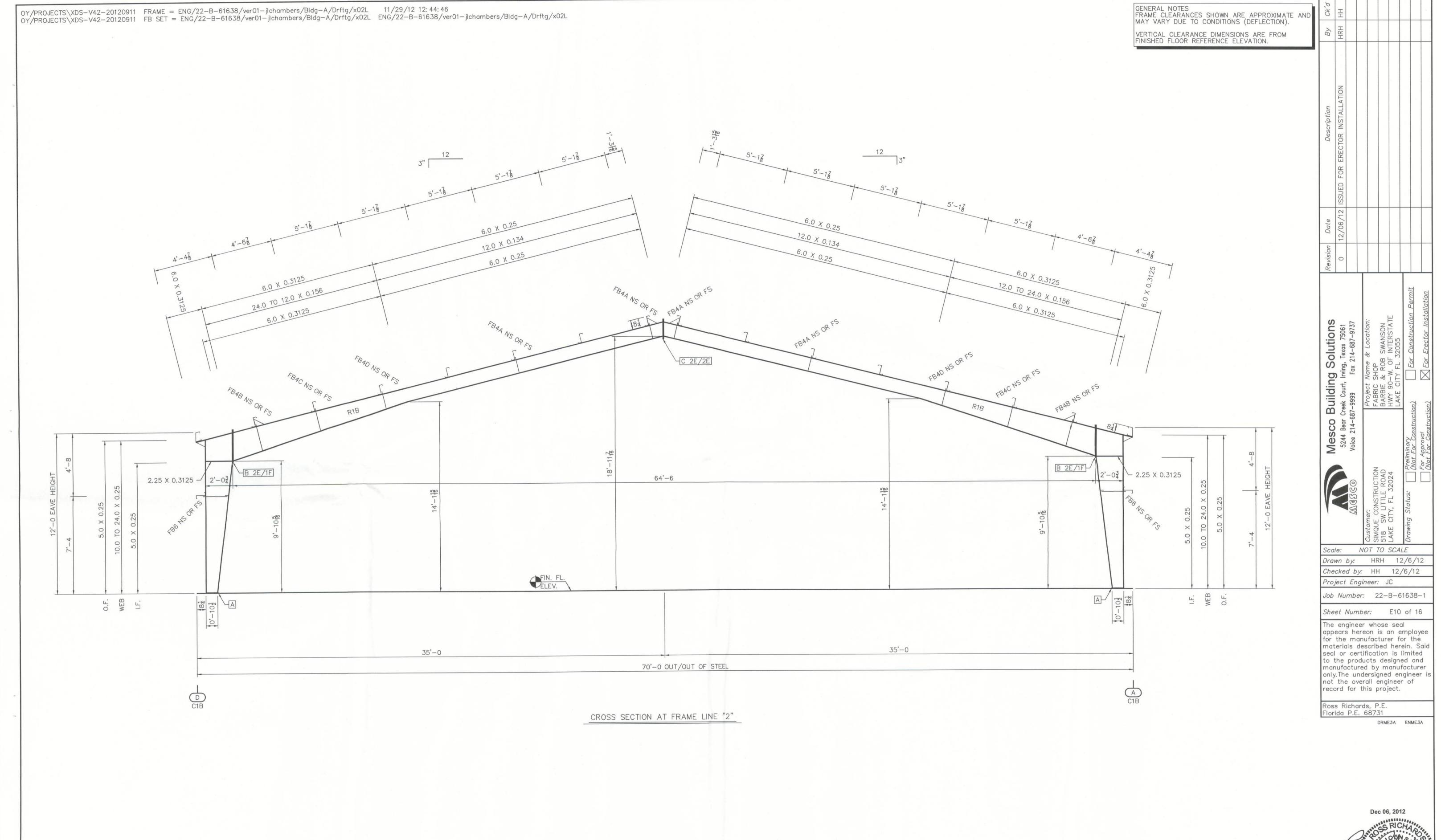


PLATE SIZE TABLE

C $6 \times 0.375 \times 1'-5\frac{3}{4}$ $6 \times 0.375 \times 1'-5\frac{3}{4}$

HIGH SIDE

6 X 0.5 X 2'-4⁷/₁₆

LOW SIDE

A 6 X 0.375 X 0'-11

B 6 X 0.5 X 2'-415

CONN.

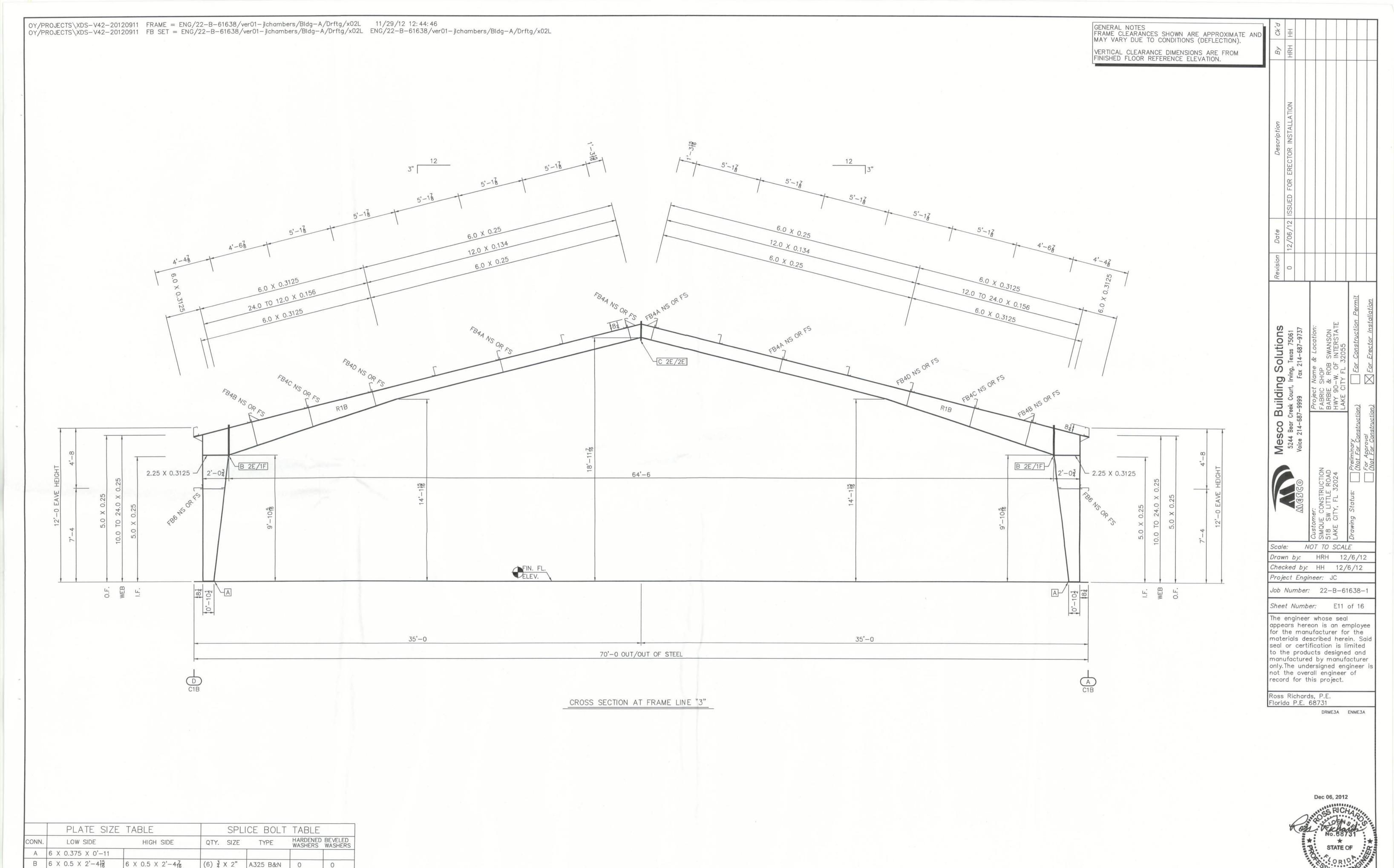
SPLICE BOLT TABLE

QTY. SIZE

(6) ³/₄ X 2" A325 B&N

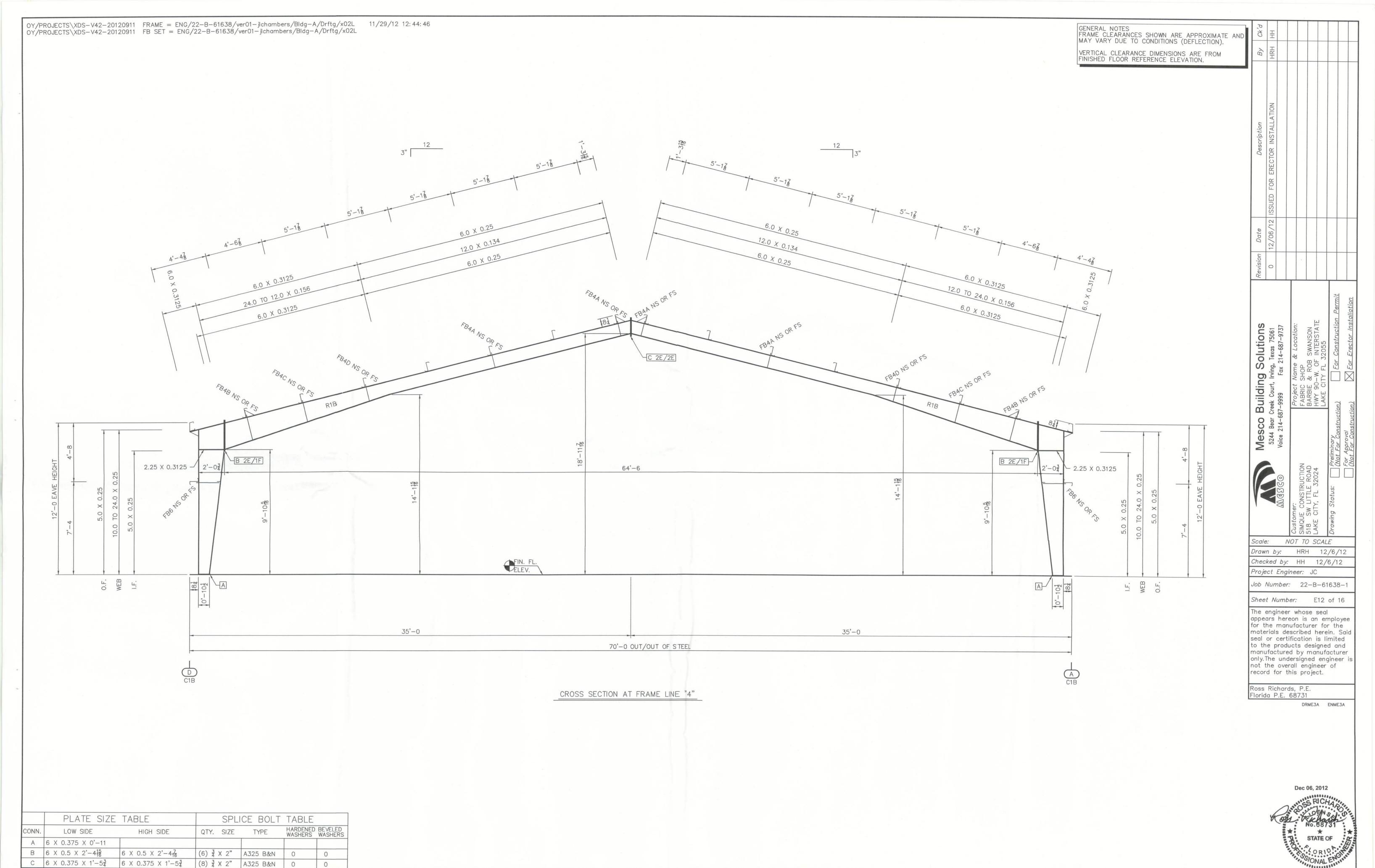
(8) ³/₄ X 2" A325 B&N 0

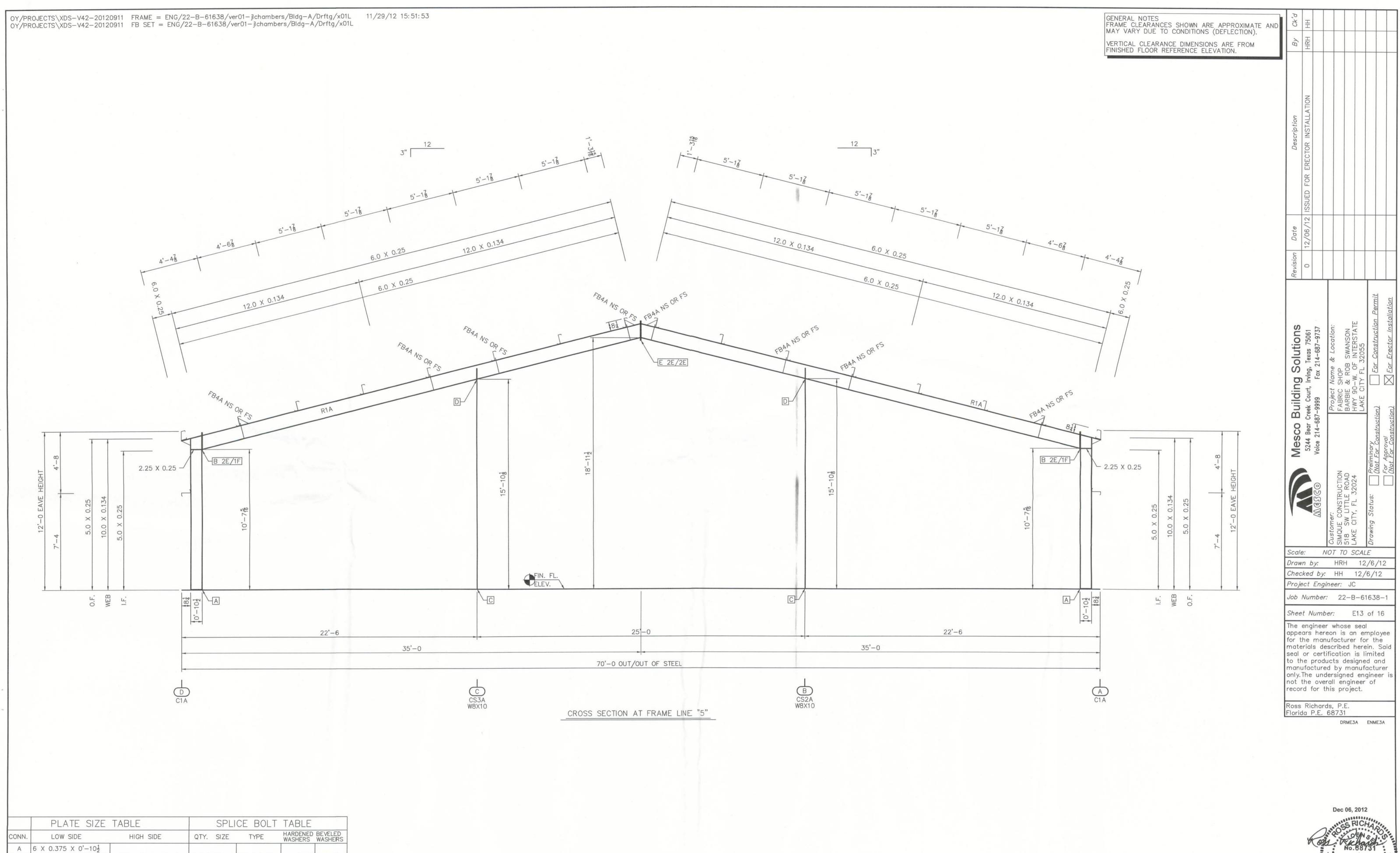
HARDENED BEVELED WASHERS WASHERS STATE OF ORIO



C 6 X 0.375 X 1'- $5\frac{3}{4}$ 6 X 0.375 X 1'- $5\frac{3}{4}$

(8) ³/₄ X 2" A325 B&N





B 6 X 0.375 X 1'- $4\frac{7}{16}$ 6 X 0.375 X 1'- $3\frac{15}{16}$ (6) $\frac{3}{4}$ X 2" A325 B&N

E 6 X 0.375 X 1'-5 $\frac{3}{4}$ 6 X 0.375 X 1'-5 $\frac{3}{4}$ (8) $\frac{3}{4}$ X 2" A325 B&N

 $(4) \frac{1}{2} \times 1\frac{3}{4}$ A325 B&N

C 6 X 0.375 X 8"

D 10 X 0.375 X 0'-11 $\frac{1}{2}$

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

- Β	生		_					
Description	12/06/12 ISSUED FOR ERECTOR INSTALLATION							
Date	12/06/12							
Revision Date	0		_					
Mesco Building Solutions	5244 Bear Creek Court, Irving, Texas 75061	Voice 214-687-9999 Fax 214-687-9737	Project Name & Location		BARBIE & ROB SWANSON	LAKE CITY FL 32055	reliminary For Construction Dermit	
		ODSDW	Customer:	SIMQUE CONSTRUCTION	518 SW LITTLE ROAD	WE 12 / 12 / 12 / 12 / 12 / 12 / 12 / 12	Drawing Status: R.	
Scale Draw		<u>у</u> :	10		0 S H	CAL	E /6	/
Chec			8		276	12/	6/	1

Drawn by: HRH 12/6/12
Checked by: HH 12/6/12 Project Engineer: JC

Job Number: 22-B-61638-1

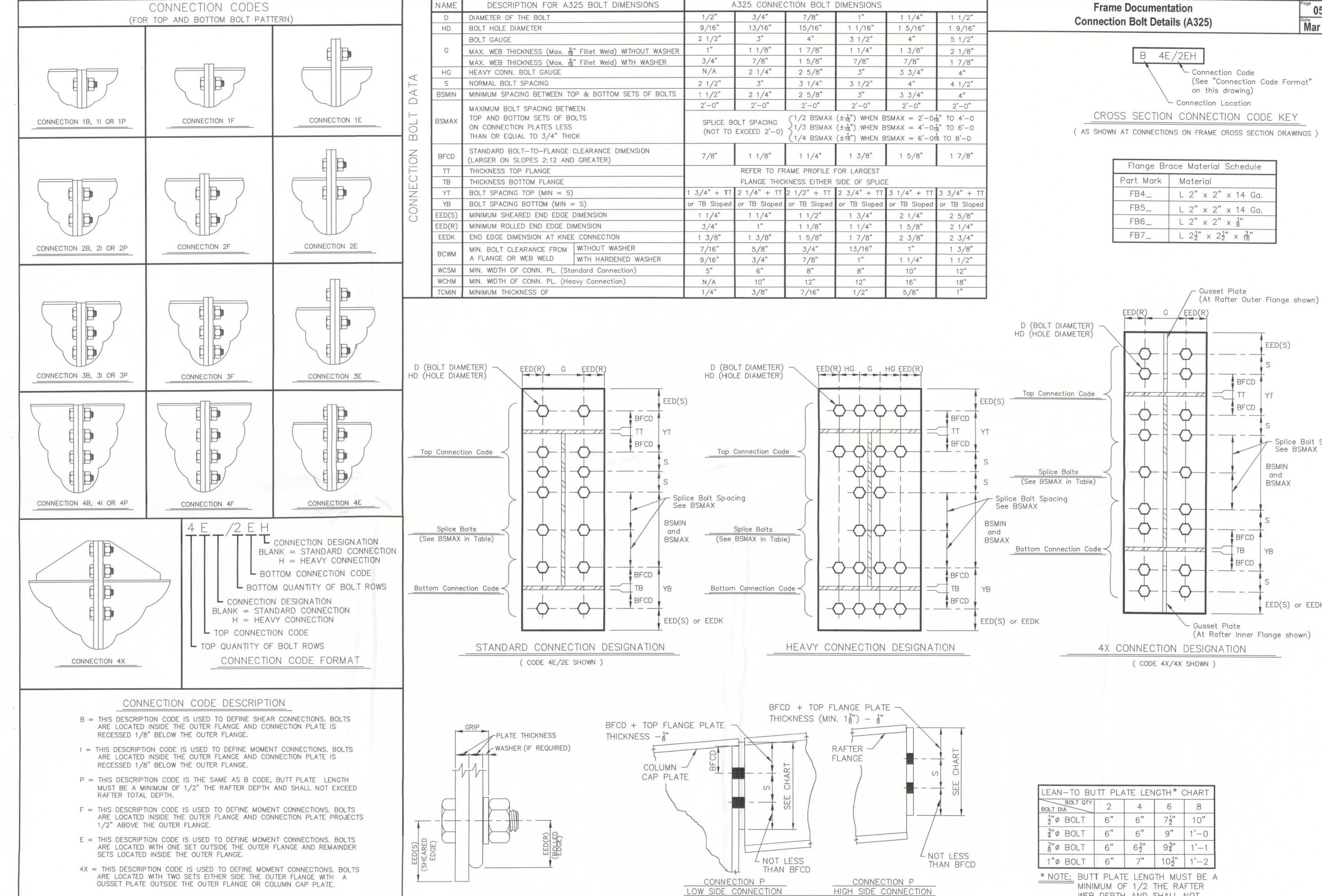
Sheet Number: E14 of 16

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Ross Richards, P.E. Florida P.E. 68731

Dec 06, 2012

	PLATE SIZE	TABLE	SPI	ICE BOLT	TABLE	
CONN.	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
Α	6" X 0.375 X 8½					
В	6" X 0.375 X 1'-378	6" X 0.375 X 1'-3\frac{3}{8}	(6) ³ / ₄ X 2"	A325 B&N	0.0	0
С	6" X 0.375 X 1'-3\frac{3}{8}	6" X 0.375 X 1'-378	(6) ³ / ₄ X 2"	A325 B&N	0.0	0



A325 BOLT EDGE DISTANCE

LEAN-TO CONNECTIONS

05-12-10 Mar '11 Rev.

Solutions ing, Texas 75061 ax 214-687-9737

Building

Mesco 5244 Bear Voice 214-6

FABR BARE HWY

SW

Scale: NOT TO SCALE

Project Engineer: JC

Drawn by: HRH 12/6/12

Checked by: HH 12/6/12

Job Number: 22-B-61638-1

Sheet Number: E15 of 16

appears hereon is an employee for the manufacturer for the

materials described herein. Said

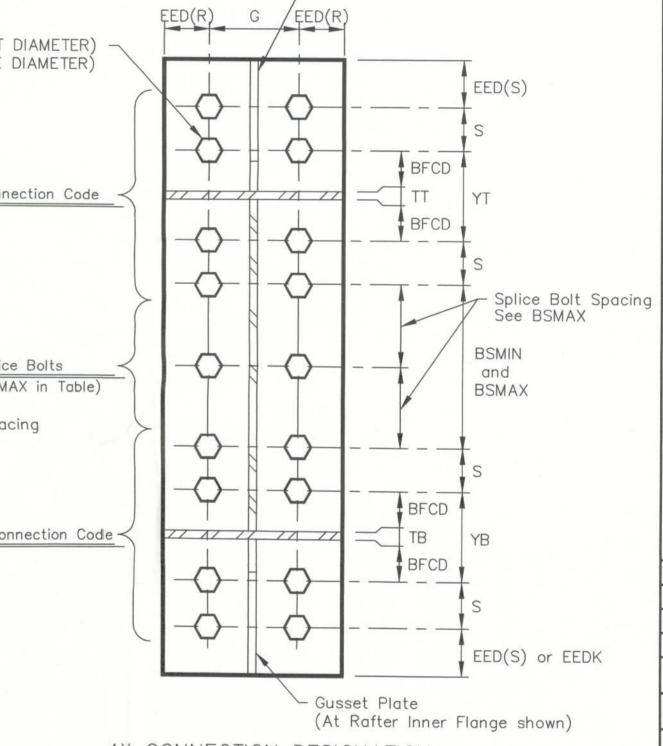
The engineer whose seal

- Connection Code (See "Connection Code Format" on this drawing) - Connection Location

CROSS SECTION CONNECTION CODE KEY

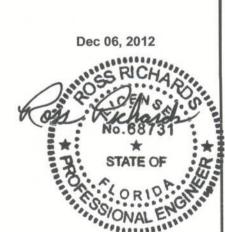
(AS SHOWN AT CONNECTIONS ON FRAME CROSS SECTION DRAWINGS)

Flange Bro	ace Material Schedule
Part Mark	Material
FB4_	L 2" x 2" x 14 Ga.
FB5_	L 2" x 2" x 14 Ga.
FB6_	L 2" x 2" x 1"
FB7_	$L 2\frac{1}{2}$ × $2\frac{1}{2}$ × $\frac{3}{16}$

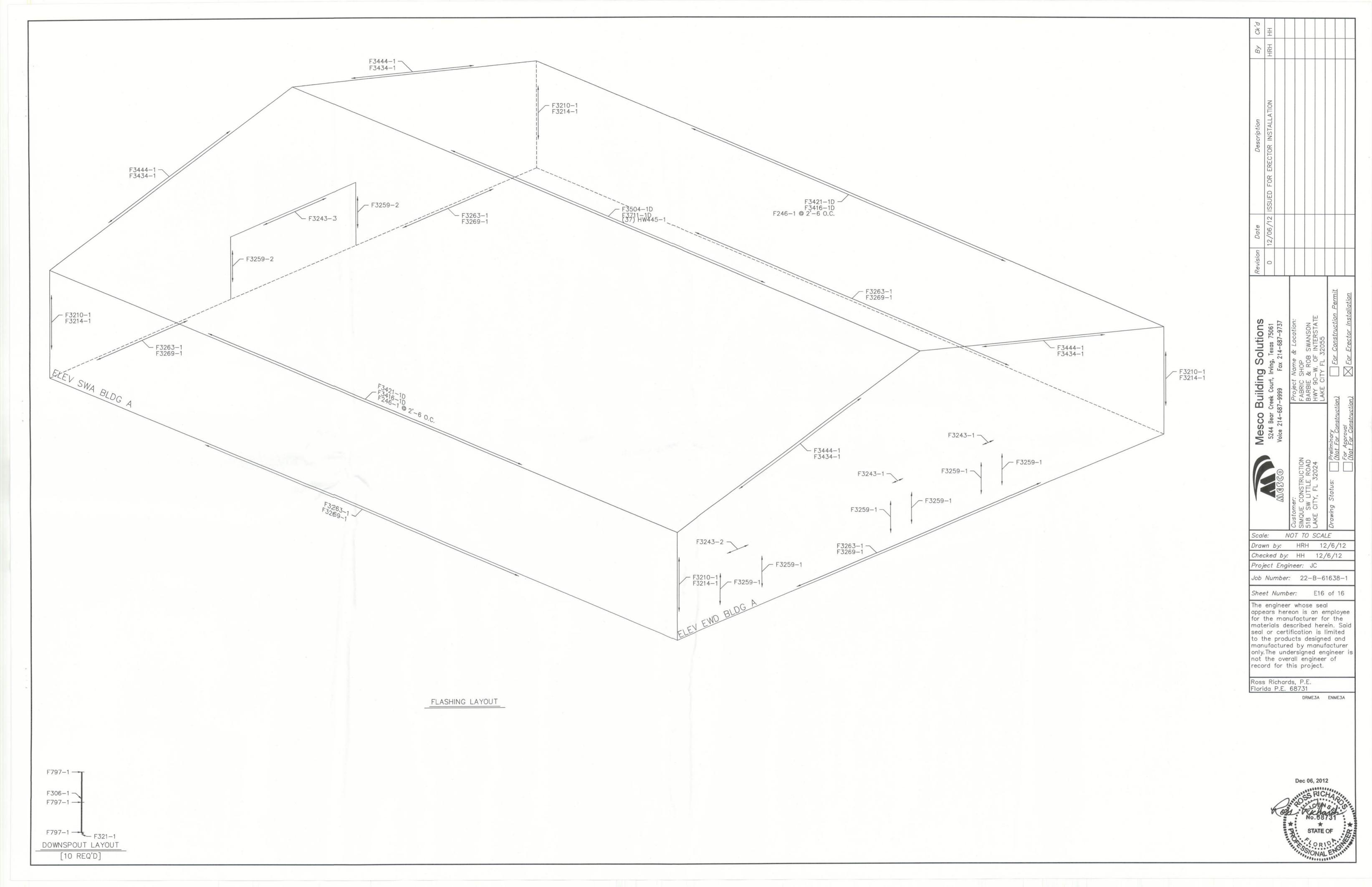


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DRME3A ENME3A



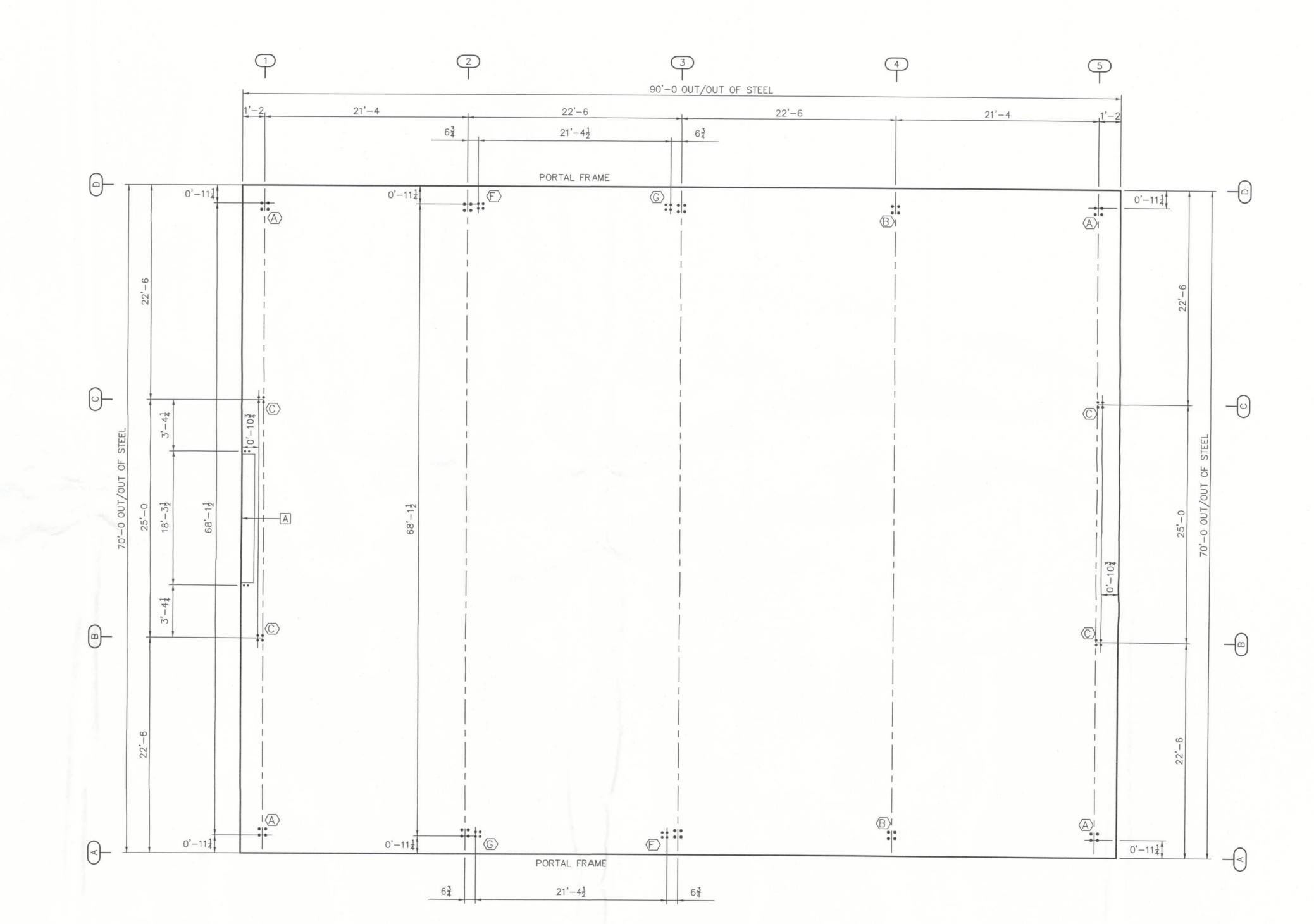
WEB DEPTH AND SHALL NOT EXCEED RAFTER TOTAL DEPTH.

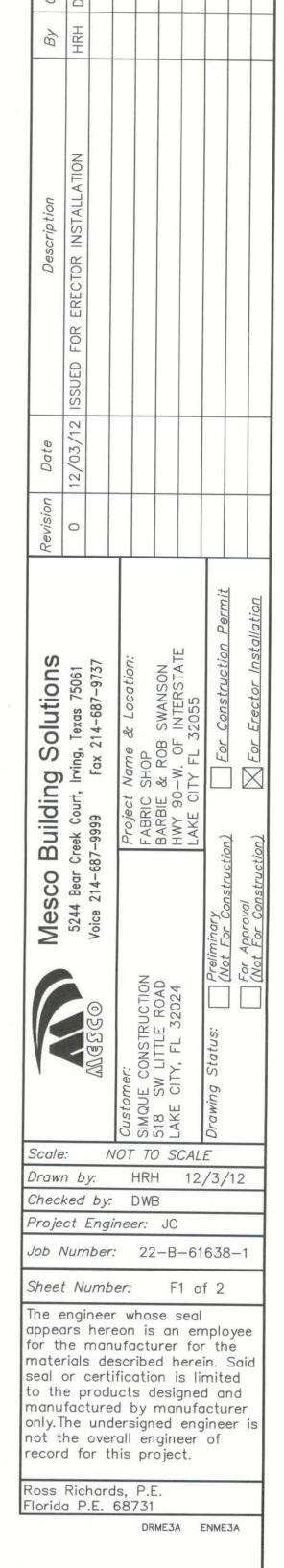


Anchor Rod Drawings

- This drawing is for anchor rod placement only and is not foundation design.
 Foundation must be square and level with all anchor rods true in size, location,
- 3) Projection shown must be held to keep threads clear of finished concrete.
 4) This structural design data includes magnitude and location of design loads and suppose conditions, material properties, and type and size of major structural members necessary to show compliance with the Order Documents at the time of this issue. Any change to building loads or dimensions may change structural member sizes and locations shown. This structural design data will be superseded and voided by any future mailing.
- 5) Anchor rod size is determined by shear and tension at the bottom of the base plate. The length of the anchor rod and method of load transfer to the foundation are to be determined by the foundation engineer, and are not provided by the manufacturer.
- 6) Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.

FINISH FLOOR AT ELEVATION 100'-0





Dec 06, 2012

ACCESSORY SCHEDULE MARK DESCRIPTION DETAIL QUAN. A 18'-0 X 7'-0 FRAMED OPENINGS 3070 SWING DOORS C 6070 SWING DOORS

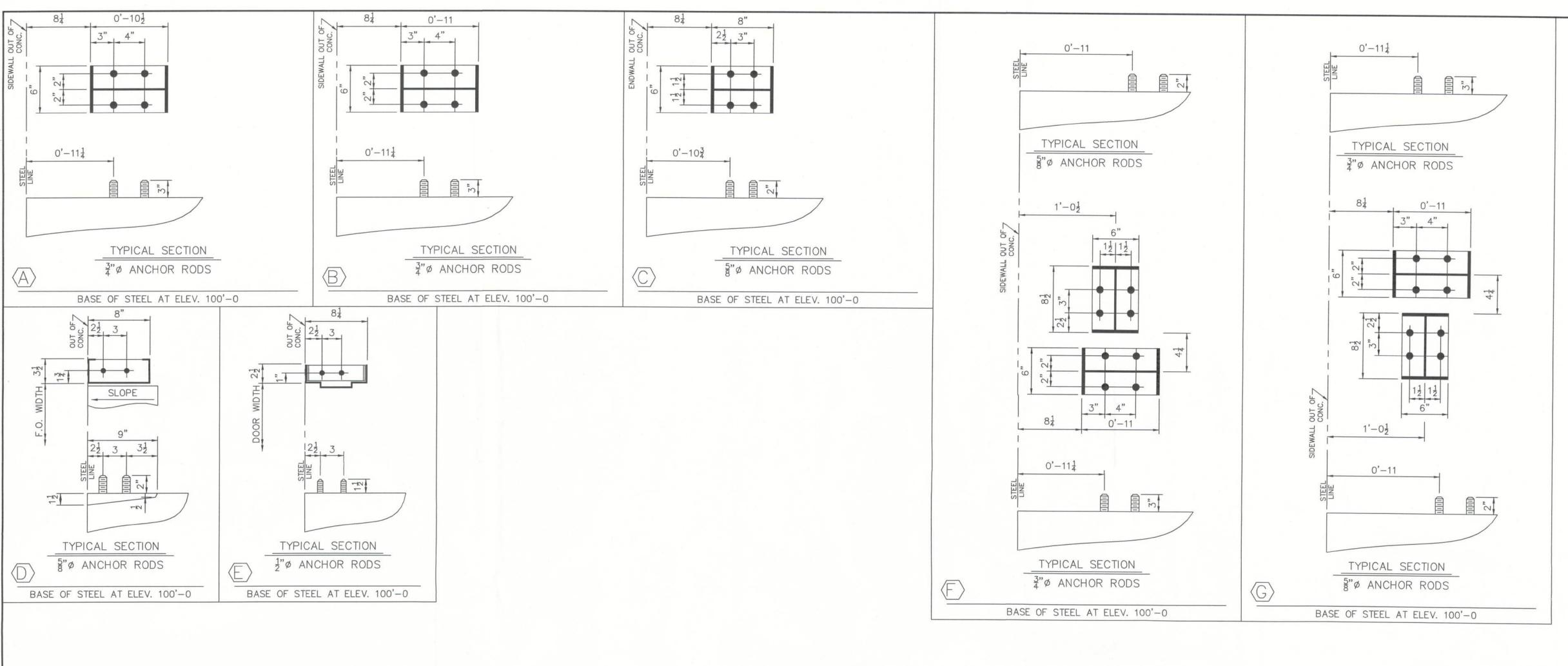
ANCHOR BOLTS TO BE DESIGNED BY FOUNDATION ENGINEER USING DIAMFTERS SHOWN IN THIS TARLE

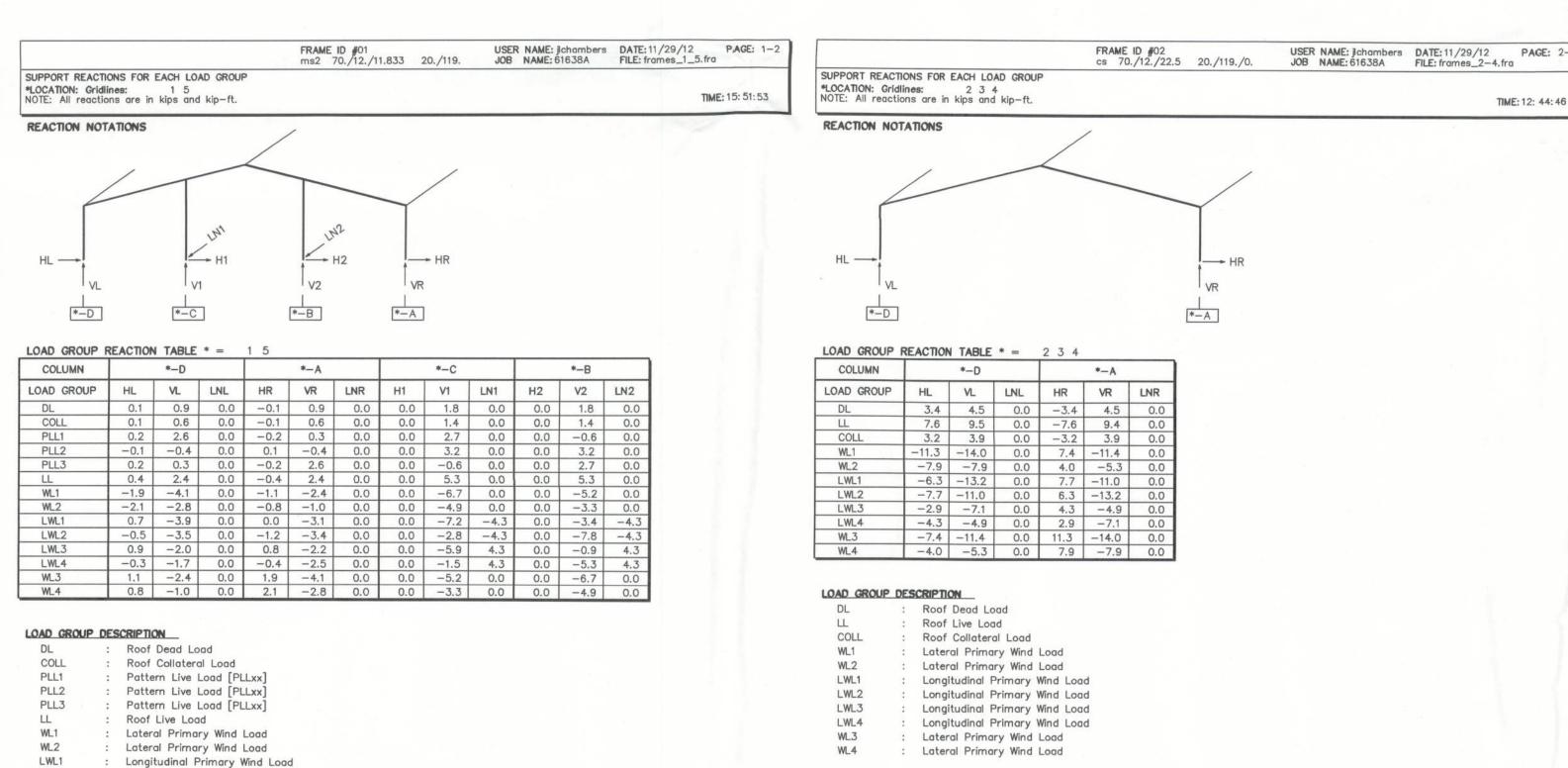
SWC

KEY PLAN

SWA

DIAMETERS SHOWN IN THIS	TABLE.
ANCHOR ROD DESCRIPTION	QUANTITY
½ "Ø DIAMETER X	12
§ "Ø DIAMETER X	36
3 "Ø DIAMETER X	40





: Longitudinal Primary Wind Load

: Longitudinal Primary Wind Load

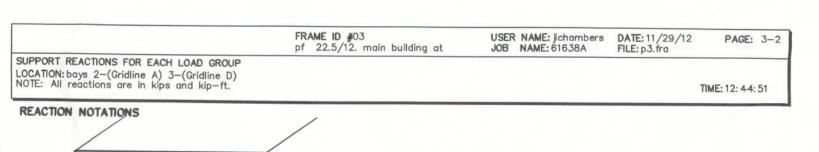
: Longitudinal Primary Wind Load

: Lateral Primary Wind Load : Lateral Primary Wind Load

LWL2

LWL3

LWL4



LOAD GROUP REACTION TABLE COLUMN LEFT COLUMN RIGHT COLUMN HL VL LNL HR VR LNR LOAD GROUP
 0.0
 0.3
 0.0
 0.0
 0.3
 0.0

 -2.2
 -2.4
 0.0
 -2.4
 2.4
 0.0

 2.4
 2.4
 0.0
 2.2
 -2.4
 0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load WL1 : Lateral Primary Wind Load : Lateral Primary Wind Load NOTES

1) THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING. 2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING

LAYOUT (UNLESS NOTED OTHERWISE). a) A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.

b) RIGID FRAMES (1) GABLED BUILDINGS

(a) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE LEFT SIDE OF THE BUILDING, AS SHOWN ON THE ANCHOR ROD DRAWING, FROM THE OUTSIDE OF THE BUILDING. (b) INTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.

(2) SINGLE SLOPE BUILDINGS (a) LEFT COLUMN IS THE LOW SIDE COLUMN. (b) RIGHT COLUMN IS THE HIGH SIDE COLUMN.

(c) INTERIOR COLUMNS ARE SPACED FROM LOW SIDE TO HIGH SIDE. c) ENDWALLS (1) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE

WALL FROM THE OUTSIDE. (2) INTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT. d) ANCHOR ROD SIZE IS DETERMINED BY SHEAR AND TENSION AT THE BOTTOM OF THE BASE PLATE. THE LENGTH OF THE ANCHOR ROD AND METHOD OF LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY THE FOUNDATION ENGINEER.

e) ANCHOR RODS ARE ASTM F1554 Gr. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING. f) X-BRACING

(1) ROD BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES SHOWN IN THE REACTION TABLES. (2) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC

LOADS (RBUPEQ AND RBDWEQ) DO NOT INCLUDE THE AMPLIFICATION FACTOR, On. (3) FOR CANADA BUILDING CODE (NBC), WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ & RBDWEQ) ARE MULTIPLIED BY FORCE REDUCTION FACTOR, Rd, WHEN SPECIFIED SHORT-PERIOD SPECTRAL

ACCELERATION RATIO IEFOSO(0.2) IS GREATER THAN 0.45. 3) REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.

THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.

Building Solutions	Revision	Date	Description	Ву	CK,A
Creek Court, Irving, Texas 75061	0	12/03/12	12/03/12 ISSUED FOR ERECTOR INSTALLATION	HRH	DWB
37-9999 Fax 214-687-9737					
Project Name & Location:	Т				
FABRIC SHOP					
BARBIE & ROB SWANSON					
LAKE CITY FL 32055					
For Construction Dermit					
COLOR DE COL					
ion) X For Erector Installation					

Scale: NOT TO SCALE

Drawn by: HRH 12/3/12 Checked by: DWB

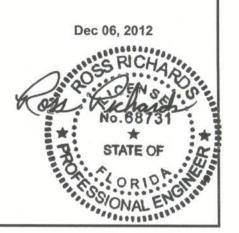
Project Engineer: JC Job Number: 22-B-61638-1

Sheet Number: F2 of 2

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DRME3A ENME3A



FIELD SERVICE PROCEDURES

IN ORDER TO GIVE YOU PROMPT SERVICES AND KEEP PROBLEMS TO A MINIMUM, PLEASE HANDLE ANY SHORTAGES OR

CAREFULLY CHECK YOUR PACKING LIST WHILE UNLOADING. MARK ANY ITEMS, WHICH APPEAR TO BE MISSING AND NOTIFY THE FIELD SERVICE DEPARTMENT AT THE NUMBER SHOWN IN THE TITLEBLOCK AS SOON AS POSSIBLE. CALLING SOMEONE ELSE COULD DELAY THE PROPER RESPONSE.

SHORT MATERIALS - IMMEDIATELY UPON DELIVERY OF MATERIAL, QUANTITIES ARE TO BE VERIFIED BY THE CUSTOMER AGAINST QUANTITIES THAT ARE BILLED ON THE SHIPPING DOCUMENT. NEITHER THE MANUFACTURER NOR THE CARRIER IS RESPONSIBLE FOR THE MATERIAL SHORTAGES AGAINST THE QUANTITIES BILLED ON SHIPPING DOCUMENT IF SUCH SHORTAGES ARE NOT NOTED ON SHIPPING DOCUMENTS WHEN THE MATERIAL IS DELIVERED, AND THEN ACKNOWLEDGED BY THE CARRIER'S AGENT. IF THE CARRIER IS THE MANUFACTURER, CLAIMS FOR SHORTAGES ARE TO BE MADE BY THE CUSTOMER | AUTHORIZE CORRECTIVE WORK. TO THE COMMON CARRIER. IF THE MATERIAL QUANTITIES RECEIVED ARE CORRECT ACCORDING TO THE QUANTITIES THAT ARE 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 TOO BE MADE OF THE

DAMAGED OR DEFECTIVE MATERIAL - DAMAGED OR DEFECTIVE MATERIAL, REGARDLESS OF THE DEGREE OF DAMAGE, MUST BE NOTED ON THE SHIPPING DOCUMENTS BY THE CUSTOMER AND ACKNOWLEDGED IN WRITING BY THE CARRIER'S AGENT. THE MANUFACTURER IS NOT RESPONSIBLE FOR MATERIAL DAMAGED IN UNLOADING OF PACKAGED OR NESTED MATERIALS, INCLUDING, BUT NOT LIMITED TO: FASTENERS, SHEET METAL, "C" & "Z" SECTIONS & COVERING PANELS THAT BECOME WET AND/OR DAMAGED BY WATER WHILE IN THE POSSESSION OF OTHERS, PACKAGED OR NESTED MATERIAL THAT BECOMES WET IN TRANSIT MUST BE UNPACKED, UNSTACKED AND DRIED BY THE CUSTOMER.

IF THE CARRIER IS THE MANUFACTURER, THE CUSTOMER MUST MAKE CLAIM FOR DAMAGE DIRECTLY TO THE MANUFACTURER. IF THE CARRIER IS A COMMON CARRIER, THE CUSTOMER MUST MAKE THE CLAIM FOR DAMAGE TO THE COMMON CARRIER. THE MANUFACTURER IS NOT LIABLE FOR ANY CLAIM WHATSOEVER INCLUDING, BUT NOT LIMITED TO LABOR CHARGES OF CONSEQUENTIAL DAMAGES RESULTING FROM THE CUSTOMER'S USE OF DAMAGED OF DEFECTIVE MATERIALS THAT CAN BE DETECTED BY VISUAL INSPECTION.

OIL CANNING IS NOT CAUSE FOR REJECTION - SEE INSTALLATION MANUAL

EXCESSIVE MATERIAL - THE MANUFACTURER RESERVES THE RIGHT TO RECOVER ANY MATERIAL DELIVERED IN EXCESS OR THOSE REQUIRED BY THE ORDER DOCUMENTS.

INITIAL CLAIM - IN THE EVENT OF ERROR, THE CUSTOMER MUST PROMPTLY MAKE A WRITTEN OR VERBAL "INITIAL CLAIM" TO THE MANUFACTURER FOR THE CORRECTION OF DESIGN, DRAFTING, BILL OF MATERIALS OF FABRICATION ERROR. THE "INITIAL CLAIM" INCLUDES:

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. MATERIAL TO BE PURCHASED FROM OTHER THAN THE MANUFACTURER, INCLUDING ESTIMATED QUANTITIES AND COST. 4. MAXIMUM TOTAL COST OF PROPOSED CORRECTIVE WORK AND MATERIAL TO BE PURCHASED FROM OTHER THAN THE MANUFACTURER.

NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF REAMING, CHIPPING, WELDING OR CUTTING AND THE DRAWING OF ELEMENTS INTO LINE THROUGH THE USE OF DRIFT PINS. ERRORS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN THE MEMBER CONFIGURATION SHOULD BE REPORTED IMMEDIATELY TO THE OWNER AND FABRICATOR BY THE ERECTOR, TO ENABLE WHOEVER IS RESPONSIBLE EITHER TO CORRECT THE ERROR OR TO APPROVE THE MOST EFFICIENT AND ECONOMICAL METHOD OF CORRECTION TO BE USED BY OTHERS. (AISC 303-10, SECTION 7.14) (MAR 05 SECTION 7.14)

IF THE ERROR IS THE FAULT OF THE MANUFACTURER, AN "AUTHORIZATION FOR CORRECTIVE WORK" MUST BE ISSUED IN WRITII

BY THE MANUFACTURER TO AUTHORIZE THE CORRECTIVE WORK AT A COST NOT TO EXCEED THE MAXIMUM TOTAL COST SET 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

FINAL CLAIM - THE "FINAL CLAIM" IN WRITING MUST BE FORWARDED BY THE CUSTOMER TO THE MANUFACTURER

WITHIN TEN (10) DAYS OF COMPLETION OF THE CORRECTIVE WORK AUTHORIZED BY THE MANUFACTURER.

THE "FINAL CLAIM" MUST INCLUDE:

1. ACTUAL NUMBER OF MAN-HOURS BY DATE OF DIRECT LABOR USE ON CORRECTIVE WORK AND ACTUAL HOURLY RATES OF PA TAXES AND INSURANCE ON TOTAL ACTUAL DIRECT LABOR.

OTHER DIRECT COSTS ON ACTUAL DIRECT LABOR. 4. COST OF MATERIAL (NOT MINOR SUPPLIES) AUTHORIZED BY THE MANUFACTURER TO BE PURCHASED FROM OTHER THAN THE MANUFACTURER, INCLUDING COPIES OF PAID INVOICES.

5. TOTAL ACTUAL DIRECT COST OF CORRECTIVE WORK (SUM OF 1, 2, 3 & 4). THE "FINAL CLAIM" MUST BE SIGNED AND CERTIFIED TRUE AND CORRECT BY THE CUSTOMER. "FINAL CLAIMS" ARE CREDITED TO THE CUSTOMER BY THE MANUFACTURER IN AN AMOUNT NOT TO EXCEED THE LESSER OF THE MAXIMUM TOTAL COST SET FORTH IN WRITING IN THE "AUTHORIZATION FOR CORRECTIVE WORK" OR TOTAL ACTUAL DIRECT COST OF CORRECTIVE WORK.

** IMPORTANT NOTE ** - COST OF EQUIPMENT (RENTAL OR DEPRECIATION), SMALL TOOLS, SUPERVISION, OVERHEAD AND PROFI

ARE NOT SUBJECTED TO CLAIMS. <u>SHIPMENT ARRIVAL TIME</u> — EVERY EFFORT WILL BE MADE TO SEE THAT THE CARRIER ARRIVES AT THE JOBSITE ON THE REQUESTED DAY AND AT THE REQUESTED HOUR. MANUFACTURER MAKES NO WARRANTY AND ACCEPTS NO RESPONSIBILITY FOR COSTS ASSOCIATED WITH A SHIPMENT NOT ARRIVING AT A REQUESTED TIME UNLESS A SEPARATE

AGREEMENT HAS BEEN MADE IN WRITING FOR A GUARANTEED ARRIVAL TIME.

UNLOADING, HANDLING, AND STORING MATERIALS

STRUCTURAL - A GREAT AMOUNT OF TIME AND TROUBLE CAN BE SAVED IF THE BUILDING PARTS ARE UNLOADED AT THE BUILDING SITE ACCORDING TO A PRE-ARRANGED PLAN. PROPER LOCATION AND HANDLING OF COMPONENTS WILL ELIMINATE UNNECESSARY HANDLING

NOTE: PIECE MARKS ARE STENCILED ON PRIMARY STRUCTURAL MEMBERS AT LOWER END, 1'-0" FROM END. INSPECT ALL SHIPMENTS PRIOR TO RELEASING THE TIE-DOWNS FOR LOADS THAT MAY HAVE SHIFTED DURING TRANSIT! REMEMBER, SAFETY FIRST!

BLOCKING UNDER THE COLUMNS AND RAFTERS PROTECTS THE SPLICE PLATES AND THE SLAB FROM DAMAGE DURING THE UNLOADING PROCESS. IT ALSO FACILITATES THE PLACING OF SLINGS OR CABLES AROUND THE 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 THE STEEL AND TO PREVENT DAMAGE TO MATERIALS AND THE CONCRETE SLAB.

IF WATER IS ALLOWED TO REMAIN FOR EXTENDED PERIODS IN BUNDLES OF PRIMED PARTS SUCH AS GIRTS, PURLINS, ETC., THE THE STAIN IS USUALLY SUPERFICIAL & HAS LITTLE EFFECT ON THE APPEARANCE OR SERVICE LIFE OF THE PANELS AS LONG AS OVERDRIVEN FASTENERS. PIGMENT WILL FADE AND THE PAINT WILL GRADUALLY SOFTEN REDUCING ITS BOND TO THE STEEL. THEREFORE, UPON RECEIPT OF A JOB, ALL BUNDLES OF PRIMED PARTS SHOULD BE STORED AT AN ANGLE TO ALLOW ANY TRAPPED WATER TO DRAIN AWAY | OVER AN EXTENDED PERIOD CAN SEVERELY ATTACK THE FINISH & REDUCE THE EFFECTIVE SERVICE LIFE. SEE R1-07 "DAMAGE AND PERMIT AIR CIRCULATION FOR DRYING. PUDDLES OF WATER SHOULD NOT BE ALLOWED TO COLLECT AND REMAIN ON COLUMNS OR RAFTERS FOR THE SAME REASON.

THE COAT OF SHOP PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR ONLY A SHORT PERIOD OF EXPOSURE TO ORDINARY ATMOSPHERIC CONDITIONS. THE COAT OF SHOP PRIMER DOES NOT PROVIDE THE UNIFORMITY OF APPEARANCE, OR THE DURABILITY AND CORROSION RESISTANCE OF A FIELD APPLIED FINISH COAT OF PAINT OVER A SHOP PRIMER.

TOUCH-UP OF THESE MINOR ABRASIONS IS THE RESPONSIBILITY OF THE END CUSTOMER. ALL PRIMER SHOULD BE TOUCHED UP AS REQUIRED BEFORE ERECTION! - SEE R1-06 TITLED "SHOP PRIMED STEEL"

TEMPORARY SUPPORTS

TEMPORARY SUPPORTS. SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION OR COLLISION. (SECT. 7.9.1 AISC CODE OF STANDARD PRACTICE, 9TH ED.).

ROOF AND WALL PANELS

R1 - 04

FOOT TRAFFIC

DISSIMILAR METALS

CALCIUM USED IN CONCRETE, MORTAR AND GROUT.

ROOF MAINTENANCE GUIDELINES

* INSPECT ROOF FOR DAMAGE AFTER HEAVY STORMS.

* GUARD ALL LTPS AND ROOF OPENINGS.

THIS IS NOT POSSIBLE. THE ROOF MUST ADEQUATELY PROTECTED.

SHOULD BE KEPT OF ALL VISITS TO THE ROOF AND THE REASON FOR SUCH VISITS.

* REPAINT ANY AREAS THAT ARE SUSCEPTIBLE TO RUST AS REQUIRED

MANUFACTURER'S WALL AND ROOF PANELS INCLUDING COLOR COATED, GALVALUME & GALVANIZED, PROVIDE EXCELLENT SERVICE UNDER WIDELY VARIED CONDITIONS. ALL UNLOADING & ERECTION PERSONNEL SHOULD FULLY UNDERSTAND THAT THESE PANELS ARE QUALITY MERCHANDISE, WHICH MERITS CAUTIOUS CARE IN HANDLING.

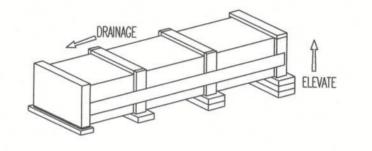
UNDER NO CIRCUMSTANCES SHOULD PANELS BE HANDLED ROUGHLY. PACKAGES OF SHEETS SHOULD BE LIFTED OFF THE TRUCK WITH EXTREME CARE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO ENDS OF THE SHEETS OR TO SIDE RIBS. THE PACKAGES SHOULD BE STORED OFF THE GROUND SUFFICIENTLY HIGH TO ALLOW AIR CIRCULATION UNDERNEATH THE PACKAGES. THIS AVOIDS GROUND MOISTURE & DETERS PEOPLE FROM WALKING ON THE PACKAGES. ONE END OF THE PACKAGE SHOULD ALWAYS BE ELEVATED TO ENCOURAGE DRAINAGE IN CASE OF RAIN.

THE MFGR EXERCISES EXTREME CAUTION DURING FABRICATING AND SHIPPING OPERATIONS TO INSURE THAT ALL PANEL STOCK IS KEPT DRY. HOWEVER, DUE TO CLIMATIC CONDITIONS, WATER FORMED BY CONDENSATION OF HUMID AIR CAN BECOME TRAPPED BETWEEN STACKED SHEETS. WATER CAN ALSO BE TRAPPED BETWEEN THE STACKED SHEETS WHEN EXPOSED TO RAIN. THIS MAY CAUSE DISCOLORATION CAUSED BY TRAPPED MOISTURE.

IT IS NOT PERMITTED TO REMAIN ON THE PANELS. HOWEVER, MOISTURE IN CONTACT WITH THE SURFACE OF THE PANELS FROM CONDENSATION OR TRAPPED WATER."

CAUTION: CARE SHOULD ALWAYS BE TAKEN WHEN WALKING ON PANELS. USE SAFETY LINES AND NETS WHEN NECESSARY! PANELS ARE SLIPPERY. WIPE DRY ANY MOISTURE OR SURFACE MATERIAL THAT HAS PUDDLED FROM BUNDLES STORED ON A SLOPE. DEW, FROST, OR OTHER FORMS OF MOISTURE GREATLY INCREASE THE SLIPPERINESS OF THE PANELS. ALWAYS ASSUME PANEL SURFACE IS SLIPPERY & ACT ACCORDINGLY. NEVER WALK OR STEP ON SKYLIGHTS OR TRANSLUCENT PANELS!

USE WOOD BLOCKING TO ELEVATE & SLOPE THE PANELS IN A MANNER THAT WILL ALLOW 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 EDGES MAY SCRATCH THE COATED SURFACES WHEN SHEETS ARE SLID OVER ONE ANOTHER. NEVER ALLOW PANELS TO BE WALKED ON WHILE ON THE GROUND.



* INSPECT AND RESEAL AS NECESSARY ALL ROOF CURBS AND OTHER PENETRATIONS WITH URETHANE SEALANT.

STEP ONLY IN THE PANEL FLAT DIRECTLY ON OR IN CLOSE PROXIMITY TO A SUPPORTING ROOF STRUCTURAL.

KEEP FOOT TRAFFIC TO A MINIMUM. HEAVY FOOT TRAFFIC CAN CAUSE PONDING ON LOW PITCHED ROOFS. THIS IS

PARTICULARLY TRUE 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 GALVALUME ® ROOFS, EXCESSIVE

FOOT TRAFFIC MAY CAUSE BLACK BURNISH MARKS. IF REGULAR FOOT TRAFFIC IS PLANNED FOR A ROOF, PROVISIONS

SHOULD BE MADE FOR A PROPERLY DESIGNED AND INSTALLED ROOF WALKWAY SYSTEM. IN ORDER TO LIMIT ACCESS TO

THE ROOF, ROOF HATCHES OR ACCESS LADDERS SHOULD BE LOCKED AT ALL TIMES. A SIGN SHOULD BE POSTED AT THE

POINT OF ACCESS. STATING THAT ONLY AUTHORIZED PERSONNEL ARE ALLOWED ONTO THE ROOF. IN ADDITION, A LOG BOOK

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,

* AFTER OTHER TRADES HAVE BEEN ON THE ROOF FOR ANY REASON. INSPECT THE ROOF FOR DAMAGE CAUSED BY

WORKERS INCLUDING CHEMICAL OR SOLVENT SPILLS. SCRATCHES IN THE PAINT OR GALVALUME (R) COATING, EXCESSIVE

FOOT TRAFFIC AND PUNCTURES. MAKE SURE THAT ANY DEBRIS OR SCRAP LEFT BEHIND BY THE WORKERS IS REMOVED

FROM THE ROOF IMMEDIATELY. AVOID USING CUTOFF SAWS AND WELDING EQUIPMENT OVER THE ROOF. IN CASES WHERE

* DO NOT WALK ON LIGHT TRANSMITTING PANELS (LTPS). THEY WILL NOT SUPPORT A PERSON'S WEIGHT.

* ALWAYS GET MANUFACTURER APPROVAL BEFORE MAKING ANY MODIFICATIONS TO THE ROOF.

* DO NOT WALK ON ROOF FLASHINGS SUCH AS GUTTER, RAKE, HIP OR RIDGE FLASH.

* WHEN PERFORMING ROOF MAINTENANCE, ALWAYS TAKE THE FOLLOWING PRECAUTIONS:

* USE FALL PROTECTION AND OTHER SAFETY EQUIPMENT AS REQUIRED.

DAMAGE DURING CONSTRUCTION

THE QUALITY OF WORKMANSHIP IN STEEL ERECTION, CONSTRUCTION PRACTICES, AND HANDLING METHODS USED DURING THE CONSTRUCTION OF THE METAL BUILDING CAN SIGNIFICANTLY AFFECT THE APPEARANCE AND PERFORMANCE OF THE BUILDING PANELS. PANEL DAMAGE DURING CONSTRUCTION CAN BE THE RESULT OF FAULTY INSTALLATION METHODS AND/OR CARELESSNESS.

OVERDRIVEN FASTENERS CAUSE INDENTATIONS OR SHALLOW POCKETS IN THE PANEL AROUND THE FASTENER HEAD. RAIN WATER OR CONDENSED MOISTURE COMBINED WITH ATMOSPHERIC POLLUTANTS (PRINCIPALLY SULFUR DIOXIDES) AND DIRT PARTICLES COLLECT IN THESE POCKETS. THE COMBINATION OF POLLUTANTS AND WATER CREATES ACID SOLUTIONS THAT WILL CAUSE CORROSION DAMAGE TO THE PANEL AND FASTENER. RAIN MAY WASH SOME POLLUTANTS AWAY, BUT MOISTURE IN TH FORM OF HIGH HUMIDITY CAN KEEP THESE AREAS WET AND CONTINUE THE PROBLEM. OVERDRIVING THE FASTENER ALSO FORCES THE SEALING WASHER FROM UNDER THE FASTENER HEAD CREATING A LEAK AT THIS POINT. PROPER TORQUE ADJUSTMENT OF THE SCREW GUN OR PREFERABLY THE USE OF A DEPTH GAUGE WILL ELIMINATE THE PROBLEM OF

IT IS EXTREMELY IMPORTANT THAT ALL DRILL SHAVINGS FROM THE INSTALLATION OF PANEL FASTENERS AND FILLINGS FROM THE SAW CUTTING OF PANELS BE REMOVED FROM THE PANEL SURFACE. CORROSION CAN OCCUR IN A MATTER OF HOURS WHEN THESE SHAVINGS OR FILLINGS ARE NOT REMOVED AND ARE ALLOWED TO COME IN CONTACT WITH WATER OR CONDENSED MOISTURE. WHEN PANELS ARE PRE-DRILLED OR CUT IN THE STACK PRIOR TO ERECTION ALL SHAVINGS OR FILLINGS 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 AT JOB COMPLETION. THE FINAL CLEANING OF THE ROOF SHOULD BE DONE PRIOR TO INSTALLING THE GUTTER SO THAT THE SHAVINGS ARE NOT DEPOSITED INTO THE GUTTER 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 EQUIPMENT SUCH AS AIR CONDITIONING UNITS, ETC...

PERSONNEL WALKING ON THE PANELS CAN CAUSE DAMAGE. WORKMEN SHOULD STEP OR WALK IN THE BROAD FLAT AREAS OF THE PANEL AND AVOID STEPPING ON THE PANEL ENDS AND EDGES WHICH CAN BE BENT BY CARELESS HANDLING. IF THIS DAMAGE IS SEVERE, THE EDGES MUST BE STRAIGHTENED 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 DAMAGE AND FOR SAFETY

LEAVING DIRT PILED AGAINST THE EXTERIOR WALL PANELS AT THE FOUNDATION WILL CAUSE PANEL DAMAGE. THIS DIRT MAY BE WET OR AT LEAST WILL CONTAIN SOME MOISTURE. MUD MAY HAVE BEEN SPLASHED ONTO THE WALL DURING CONSTRUCTION. CORROSION DAMAGE MAY OCCUR WHERE THIS DIRT OR MUD CONTACTS THE PANELS. 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 WALLS AT THE COMPLETION OF THE WORK. PRE-PAINTED PANELS MAY REQUIRE TOUCH-UP IF THE COATING HAS BEEN DAMAGED DURING HANDLING OR ERECTION.

THE APPEARANCE OF THE BLDG. MAY BE AFFECTED IF DAMAGED SPOTS OR SCRATCHES ARE LOCATED IN HIGHLY VISIBLE PLACES SUCH AS AROUND DOORS, WINDOWS, ETC... IF THE DAMAGE IS EXTENSIVE THEN REPLACEMENT OF THE ENTIRE PANEL SHOULD BE CONSIDERED. TOUCH-UP PAINT CAN BE SUPPLIED BY MANUFACTURER ON REQUEST. THE PAINT SHOULD BE APPLIED WITH A SMALL, SOFT BRISTLE ARTIST'S STYLE BRUSH.

R1 - 01

TYPES OF FINISHE

ALL STRUCTURAL MEMBERS OF THE METAL BUILDING SYSTEM NOT FABRICATED OF CORROSION RESISTANT MATERIAL OR PROTECTED BY A CORROSION RESISTANT COATING PANELS WITHIN THE BUNDLE. CONDENSATION CAN OCCUR FREQUENTLY NEAR THE SEA COAST OR OTHER LARGE BODIES OF ARE PAINTED WITH ONE COAT OF SHOP PRIMER MEETING THE PERFORMANCE REQUIREMENTS OF SSPC PAINT SPECIFICATION NO. 15. THE COAT OF SHOP PRIMER 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 MINIMIZE WATER-HOLDING POCKETS, DUST, MUD AND OTHER CONTAMINATION OF THE PRIMER FILM. REPAIRS OF DAMAGE TO PRIMED SURFACES AND/OR REMOVAL OF FOREIGN MATERIAL DUE TO IMPROPER FIELD STORAGE OR SITE CONDITIONS ARE NOT THE RESPONSIBILITY OF THE MANUFACTURER. THE MANUFACTURER IS NOT RESPONSIBLE FOR DETERIORATION OF THE SHOP COAT OF PRIMER OR CORROSION THAT MAY RESULT FROM EXPOSURE TO ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS, NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING. STORAGE STAIN, ZINC OXIDATION, OR "WHITE RUST". MINOR ABRASIONS TO THE SHOP COAT (INCLUDING GALVANIZING) CAUSED BY HANDLING LOADING, SHIPPING UNLOADING AND ERECTION AFTER PAINTING OR GALVANIZING ARE

GALVALUME IS THE TRADE NAME FOR A PATENTED STEEL SHEET & COIL PRODUCT HAVING A COATING OF CORROSION RESISTANT ALUMINUM-ZINC ALLOY. THE ALLOY MIXTURE IS BALANCED TO OBTAIN THE COATING THAT RETAINS THE CORROSION RESISTANCE & HEAT REFLECTIVITY OF ALUMINUM & THE SACRIFICAL ACTION OF GALVANIZED. THE BEST PROPERTIES OF BOTH ALUMINUM & ZINC ARE COMBINED IN THIS COATING & OFFER ADDED SERVICE LIFE FOR BUILDING PANELS.

USING GALVALUME STEEL AS A SUBSTRATE, PRE-PAINTED 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 PANELS AND THE WASH COAT, DESIGNED ONLY FOR INTERIOR USE, IS APPLIED ON THE OPPOSITE SIDE. GALVALUME AND PRE-PAINTED STEEL CAN GIVE EXCELLENT SERVICE FOR MANY YEARS IF A FEW RULES CONCERNING THEIR CARE AND MAINTENANCE ARE OBSERVED. ALL OF THESE FINISHES ARE EQUALLY SUBJECT TO DAMAGE AND CORROSION WHEN CARE IS NOT PROVIDED.

PAINT AND COATING MAINTENANCE

UNAVOIDABLE. (MBMA 06 IV 4.2.4)

REMOVE SMUDGE MARKS FROM BARE GALVALUME (R). FORMULA 409 HAS PROVEN TO BE SOMEWHAT EFFECTIVE, LIGHTLY RUB REMOVE ALL SMUDGE MARKS. REMOVE RUST STAINS. SOFT SCRUB WITHOUT BLEACH HAS PROVEN TO BE SOMEWHAT NO PRODUCT WILL COMPLETELY REMOVE RUST STAINS. TO TOUCH-UP SCRATCHES IN PAINT (NOT TO BARE METAL), CLEAN AREA TO BE PAINTED WITH MINERAL SPIRITS. RINSE THOROUGHLY AND DRY. USING A SMALL ARTIST'S BRUSH, LIGHTLY APPLY THE ABSOLUTE MINIMUM AMOUNT OF TOUCH-UP PAINT REQUIRED TO FILL THE SCRATCH. USE ONLY TOUCH-UP PAINT SUPPLIED BY MANUFACTURER. CONTACT YOUR SALES REPRESENTATIVE FOR ASSISTANCE WITH PURCHASING TOUCH-UP PAINT

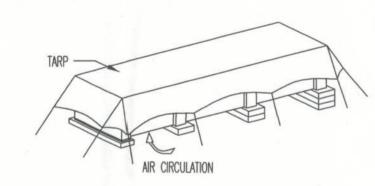
R1 - 06

DAMAGE FROM CONDENSATION OR TRAPPED WATER

1R1 - 07

IT IS EXTREMELY IMPORTANT THAT THE PANELS BE MONITORED FOR EVIDENCE OF TRAPPED WATER OR MOISTURE CONDENSATION WHILE AWAITING ERECTION. HIGH HUMIDITY CONDITIONS WITH TEMPERATURE CYCLING WILL CAUSE CONDENSATION BETWEEN THE

INTENDED TO PROTECT THE STEEL FRAMING FOR ONLY A SHORT PERIOD OF EXPOSURE | IF JOBSITE COVERS ARE USED, THEY SHOULD BE TIED AWAY FROM THE BUNDLE AT THE 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 IMPERMEABLE 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 PANEL UNSTACKED AND THOROUGHLY DRIED ON BOTH SIDES. RE-STACKING THE PANELS AT A SLIGHT ANGLE TO EACH OTHER TO PREVENT NESTING WILL ALLOW AIR CIRCULATION AND ASSIST IN KEEPING THE PANELS DRY. IN SEVERE CONDITIONS LARGE FAN: CAN BE USED TO CIRCULATE AIR BETWEEN THE UNSTACKED PANELS AND ACCELERATE DRYING. DAMAGE TO THE PANEL COATING OCCURS WHEN PANELS BECOME WET AND ARE ALLOWED TO STAY WET. DAMAGE CAN OCCUR TO NESTED PANELS WITHIN 24-48 HOURS. THIS DAMAGE SHOWS AS CORROSION AND DISCOLORATION OF THE PANEL SURFACE AND IS COMMONLY CALLED WET



SOFTENING OF THE PAINT FILM CAN OCCUR WITH PRE-PAINTED STEEL UNDER WET STORAGE CONDITIONS AND THE DURABILITY OF THE PANEL FINISH SUBSTANTIALLY DECREASED. BARE GALVANIZED AND GALVALUME PANELS REACT MORE QUICKLY TO SURFACE OXIDATION SINCE THEY LACK THE ADDITIONAL PROTECTION OF PAINT. ZINC COATED OR GALVALUME PANELS UNDER NORMAL EXPOSURE FORM A ZINC OR ALIUMINUM OXIDE FILM ON THEIR SURFACE ALLOWING A SLOW OXIDATION PROCESS CALLED "WEATHERING" TO OCCUR THAT INHIBITS FURTHER CORROSION. IN NESTED BUNDLES CONSTANT CONTACT OF THE PANELS WITH CONDENSED OR TRAPPED WATER PREVEINTS THIS WEATHERING PROCESS.

RAPID OXIDATION OF THE ZINC OR ZINC ALUMINUM COATING CAN NOW OCCUR AND MAY LEAD TO "RED RUST" IN A SHORT TIME. WITH A CLEAN CLOTH AND RINSE WITH WATER. DO NOT RUB MORE THAN REQUIRED TO REMOVE SMUDGE. NO PRODUCT WILL IF DISCOLORATION OR STAINS ARE MINOR; A HOUSEHOLD CLEANER OF THE TYPE USED ON PORCELAIN SINKS AND BATHTUBS MAY BE USED TO REMOVE THE STAINS. WHIRE BRUSHING OR USING ABRASIVE MATERIALS SHOULD BE AVOIDED SINCE SCRATCHING EFFECTIVE. LIGHTLY RUB WITH A SOFT CLOTH AND RINSE WITH WATER. DO NOT RUB MORE THAN REQUIRED TO REMOVE STAIN. OR REMOVAL OF THE COATING COULD DICCUR. PANELS WITH SIGNIFICANT DAMAGE SHOULD BE REPLACED BY THE BUYER BEFORE ERECTION.

R1 - 03SAFETY COMMITMENT

THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR APPLYING AND OBSERVING ALL PERTINENIT 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 CONTROL OF THE BUILDING MANUFACTURER.

IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY OF ANY JOB SITE. LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, WHETHER STANDARD STATUTIORY OR CUSTOMARY, SHOULD

ALWAYS BE FOLLOWED TO HELP INSURE WORKER SAFETY. MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. EMERGENCY PROCEDURES SHOULD BE KNOWN TO ALL EMPLOYEES.

DAILY MEETINGS HIGHLIGHTING SAFETY PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIAL AND SAFETY NETS WHERE APPLICABLE, ARE RECOMMENDED.

OTHER STRUCTURAL MEMBERS. IF ADDITIONAL INFORMATION IS REQUIRED CONTACT THE FIELD SERVICE DEPARTMENT. ICE AND SNOW REMOVAL

EXCESSIVE ICE AND SNOW SHOULD BE REMOVED FROM ROOF IMMEDIATELY TO PREVENT DAMAGE TO ROOF AND POSSIBLE COLLAPSE. DO NOT USE METAL TOOLS TO REMOVE THE ICE OR SNOW AS THIS CAN DAMAGE THE PAINT AND/OR GALVALUME

FOR PURPOSES OF DETERMINING LIFT REQUIREMENTS, NO BUNDLE SUPPLIED BY THE MANIUFACTURER WILL EXCEED 4,000

POUNDS. FOR FURTHER INFORMATION ALSO REFERENCE THE BILL OF MATERIALS FOR INDIVIDUAL MEMBER WEIGHTS OF

COATINGS. ALSO, BE CAREFUL AROUND PLUMBING PIPES AND FLASHINGS. 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 (AND SNOW, SEE 2002 MBMA) LOW-RISE BUILDING SYSTEMS MANUAL APPENDIX A8 FOR DETAILS ON SNOW REMOVAL PROICEDURES. THESE PROCEDURES SHOULD COMMENCE WHEN HALF OF THE DESIGN ROOF SNOW LOAD SHOWN ON THIS SHEET IS REALIZED.

DEBRIS REMOVAL

ANY FOREIGN DEBRIS SUCH AS SAWDUST, DIRT, LEAVES, ANIMAL DROPPINGS, ETC. WILL CAUSE CORROSION OF THE ROOF. CUTTERS, TRIM, ETC. IF LEFT ON BUILDING SURFACE FOR A LONG ENOUGH TIME. THE ROOJF SHOULD BE PERIODICALLY INSPECTED FOR SUCH CONDITIONS AND IF FOUND, THEY SHOULD BE RECTIFIED IN A MANNIER CONSISTENT WITH THESE ROOF MAINTENANCE GUIDELINES. NEVER ALLOW TREATED LUMBER OR CONCRETE/MORTAR/GROUT ITO COME IN CONTACT WITH ROOF PANELS, ESPECIALLY GALVALUME (R), FOR EXTENDED PERIODS OF TIME.

PERIODIC INSPECTION

ALL HIGH-STRENGTH BOLTS SHALL BE PERIODICALLY INSPECTED FOR TIGHTNESS, PARTICULIARLY IN CRANE BUILDINGS AND AFTER ANY SEISMIC ACTIVITY OR WIND ACTIVITY. THE CRANE MANUFACTURER WILL SPECIFY A MINIMUM PERIOD BUT IT SHOULD NOT EXCEED 2 YEARS.

DRAINAGE

KEEP ROOF FREE OF DEBRIS AND KEEP DEBRIS OUT OF GUTTER TO ALLOW WATER TO QUICKLY DRAIN FROM ROOF. * DO NOT USE WOOD BLOCKING TO HOLD EQUIPMENT OFF OF PANEL SEAMS. THIS BLOCKS THE FLOW OF WATER AND HOLDS

* DO NOT ALLOW ROOFTOP AC UNITS OR EVAPORATIVE COOLERS TO DRAIN ONTO THE ROOF. ANYTHING THAT TRAPS OR HOLDS MOISTURE ON A ROOF WILL CAUSE PREMATURE CORROSION. R1 - 08

1R1 - 09

R1 - 05



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NOT TO SCALE Scale:

SW CIT

Drawn by: Checked by

Project Engineer: Job Number: 22-B-61638-1

Sheet Number: R1 of 11 The engineer whose seal

appears hereon is an employee for the manufacturer 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.

DRME3A ENME3A

Erection Guide

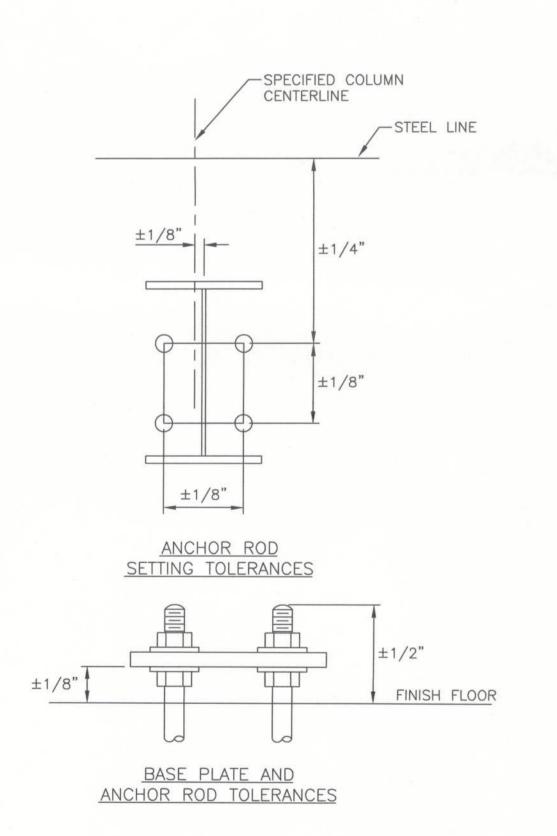
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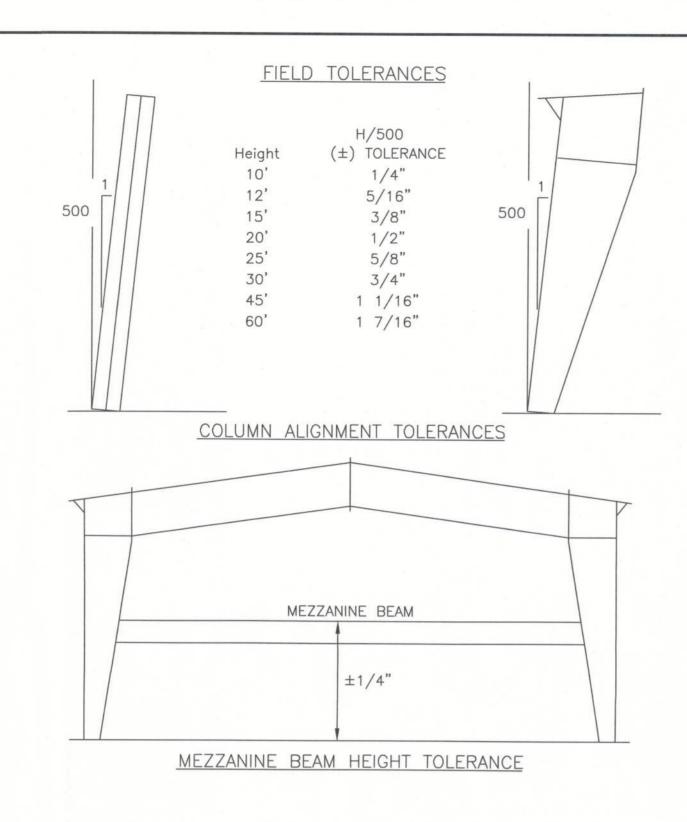
AISC CODE OF STANDARD PRACTICE TOLERANCES FOR SETTING ANCHOR RODS

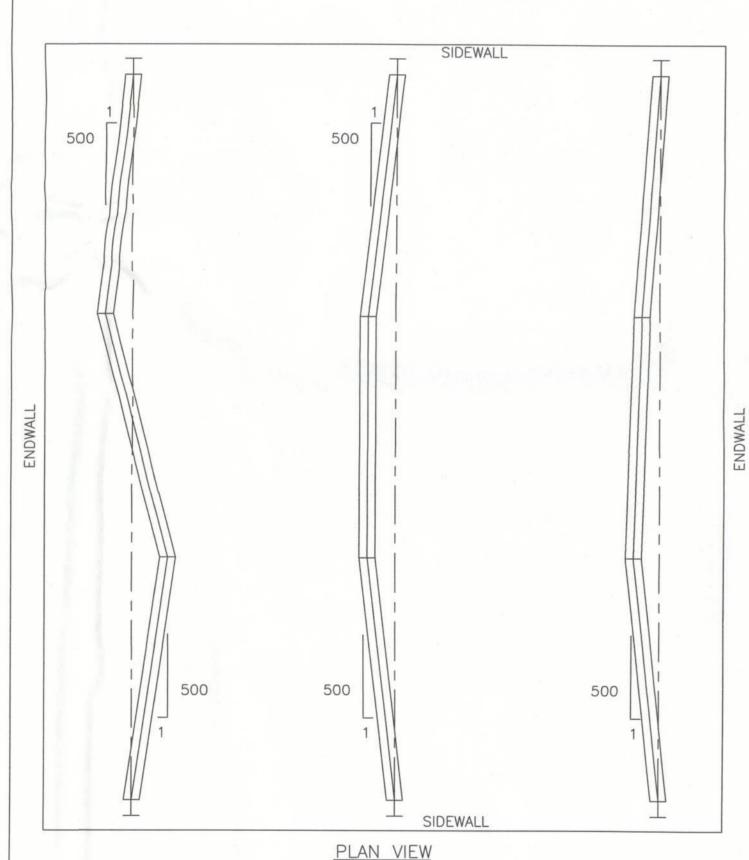
- 7.5.1. Anchor rods, foundation bolts and other embedded items shall be set by the owner's designated representative for construction in accordance with embedment drawings that have been approved by the owner's designated representatives for design and construction. The variation in location of these items from the dimensions shown in the embedment drawings shall be as follows:
- (a) The variation in dimension between the centers of any two anchor rods within an anchor—rod group shall be equal to or less than 1/8 in. [3 mm].
- (b) The variation in dimension between the centers of adjacent anchor—rod groups shall be equal to or less than 1/4 in. [6 mm].
- (c) The variation in elevation of the tops of anchor rods shall be equal to or less than plus or minus 1/2 in. [13 mm].
- (d) The accumulated variation in dimension between centers of the anchor—rod groups along the column line through multiple anchor—rod groups shall be equal to or less than 1/4 in. per 100 ft [2 mm per 10000 mm], but not to exceed a total of 1 in. [25 mm]
- (e) The variation in dimension from center of any anchor—rod group to the column line through that group shall be equal to or less than 1/4 in. [6 mm].

The tolerances that are specified in (b), (c) and (d) shall apply to offset dimensions shown in the structural design drawings, measured parallel and perpendicular to the nearest column line, for individual columns that are shown in the structural design drawings as offset from column lines.

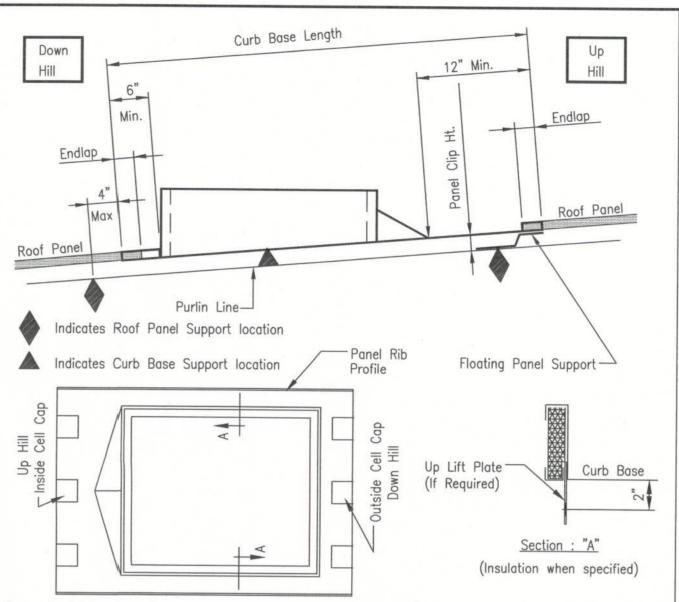
- 7.5.2. Unless otherwise specified in the contract documents, anchor rods shall be set with their longitudinal axis perpendicular to the theoretical bearing surface.
- 7.5.3. Embedded items and connection materials that are part of the work of other trades, but that will receive structural steel, shall be located and set by the owner's designated representative for construction in accordance with an approved embedment drawing. The variation in location of these items shall be limited to a magnitude that is consistent with the tolerances that are specified in Section 7.13 for the erection of the structural steel.
- 7.5.4. All work performed by the owner's designated representative for construction shall be completed so as not to delay or interfere with the work of the fabricator and the erector. The owner's designated representative for construction shall conduct a survey of the as—built locations of anchor rods, foundation bolts and other embedded items, and shall verify that all items covered in Section 7.5 meet the corresponding tolerances. When corrective action is necessary, the owner's designated representative for construction shall obtain the guidance and approval of the owner's designated representative for design.







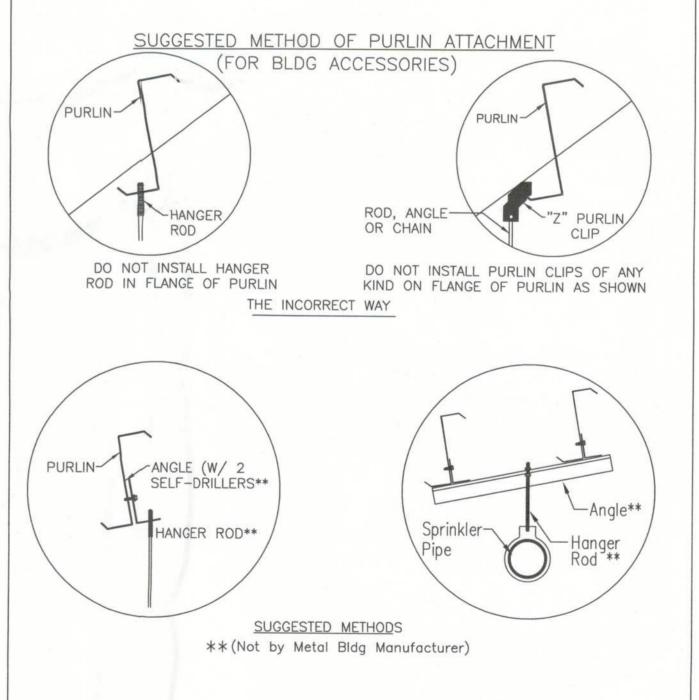
ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES



The curb details shown illustrate the building manufacturers recomended 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. All roof curbs to be:

- 1. .080 Aluminum or 18ga. Stainless (No Galvalume/No Galvanized)
- 2. Panel rib to rib installation (No flat skirt or lay-over Curbs)
- 3. Installed over low end / under high end application for water flow at panel splice
- 4. Up lift prevention for clip applied roof systems are required if:
- a. Wind load exceeds 110 mph or
 b. Curb base crosses a purlin
- 5. Supported on (4) four side by primary or secondary framing
- 6. Max Single Curb weight Recommend = 1500#

Roof Curbs
(When not Supplied by Building Manufacturer)

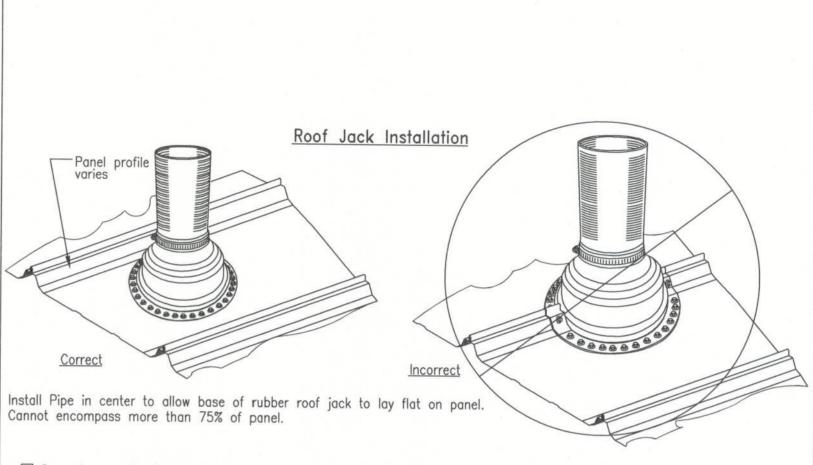


An angle is self—tapped to the web of the purlin to catch hanger rod. This method does not preclude other forms of attachment to the purlin web.

The total hanger load shall not exceed the design collateral load for the building. a sample calculation is shown below:

5' (purlin spacing) x 5' (hanger spacing) x 6 psf (collateral load) = 150 lbs. See cover sheet for design collateral load for this building.

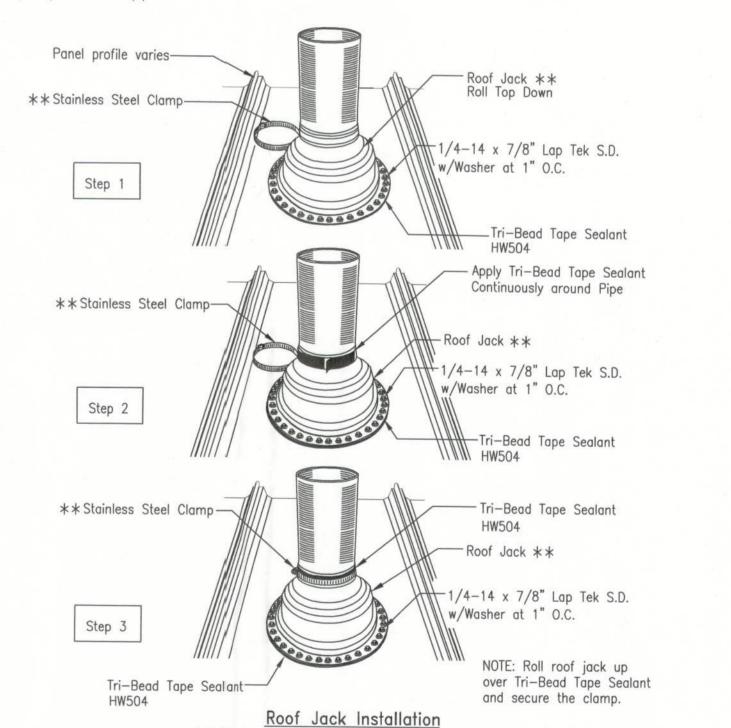
Note: If this building is designed for 0 psf collateral load, then adding any suspended system (ie. duct work, piping, liights, ceilings, etc.) will correspondingly reduce the design live load.



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 the case of lead hats, will cause galvanic corrosion of the roof panels.

Use EPDM rubber roof jacks with an integral aluminum band bonded into the perimeter of the base. For high temperature applications (200-400 degrees Fahrenheit) use silicone rubber roof jacks. Retrofit rubber roof jacks are available for applications in which the top of the pipe is inaccessible, eliminating the possibility of sliding the roof jack over the top of the pipe.

- Do not use tube caulk/silicone to seal roof jack to the roof panels. Use only tape sealant as supplied by Metal Bldg Manufacturer. Fasten the roof jack to the roof panels with 1/4"-14 x 7/8" Lap Tek Stitch Screws at 1" on center around base of roof jack.
- Roll down the top of the roof jack and apply tape sealant continuously around the exposed portion of the pipe. Roll the top of the roof jack back over the tape sealant. Apply the stainless steel clamp over top of roof jack and firmly tighten to form a secure compression seal.
- Do not install a pipe through the standing seam of the roof panel. Keep pipe penetration in center of panel to allow the base of the rubber roof jack to seal to the pan of the panel.
- If a pipe must be installed through a panel seam, or if the pipe diameter is so large to block the flow of water down the roof panel, you must install a "pipe curb" into the roof and then seal the pipe curb with rubber roof jack. For pipes in which top cannot be accessed, a two-piece pipe curb is available.
- ☐ In Northern climates, protect all pipe penetrations from moving ice or snow with a snow retention system immediately up slope from the pipe.



**(Not by Metal Bldg Manufacturer)

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Drawn by:
Checked by:

SW CIT

Job Number: 22-B-61638-1

Project Engineer:

The engineer whose seal appears hereon is an employee for the manufacturer 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.

Sheet Number: R2 of 11

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Erection Guide

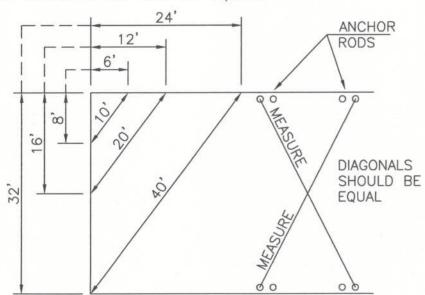
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PRE-ERECTION NOTES:

The following notes, procedures and suggested recommendations are important parts of the pre-erection process.

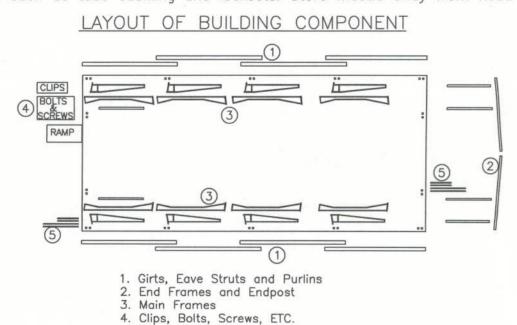
1.) Prior to the time the erection crew arrives, a responsible person should check the job site for foundation readiness, square, and accuracy and Anchor Rod size and location.

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 Rods will indicate if these bolts are set square.

- 2.) When unloading the building, carefully check off each item from the packing list. Bundles and boxes will have a list attached indicating the contents.
- 3.) Unload and layout the building columns on the foundation.
- 4.) Unload the rafters onto the foundation so that they can be erected from whichever end of the building you wish to start. Your crane will move from one end of the building to the other while standing columns and hanging rafters.
- 5.) Layout the girts and purlins on dunnage or wood blocking around the foundation as near as possible to where they will be installed.
- 6.) Unload and place trim crates out of the way, since these will be the last required.
- 7.) Unload and place panels and insulation out of the way.
- NOTE: In extremely cold conditions, the vinyl facing on insulation will become brittle, requiring very careful handling.
- 8.) Avoid lifting panel stacks with cables, chains or other devices which could damage the panel. Upon unloading, and every morning thereafter, inspect he panel bundles for moisture between the panels. This is especially important with galvalume or galvanized panels. The panel finish must be protected at all times before and during erection to preserve the appearance and function of the
- 9.) All hardware boxes should be protected from theft and moisture, especially items such as tube caulking and locksets. Store mastic away from heat.



- 5. Endwall Girts 1.) Layout primary and secondary framing around the slab as shown.
- 2.) Place components and crates on the slab or on wood blocking to prevent contact with the ground.
- 3.) Block one end of components higher than other end to allow drainage of
- 4.) Leave one end of the building open for erection equipment access.
- 5.) Construct temporary ramp of timbers from grade to slab to prevent damage to concrete edge from equipment traffic.
- 6.) Install clips and flange braces onto columns and rafters before these members are in the air. Clip and flange brace locations are shown on erection dawings.

GENERAL ERECTION NOTES

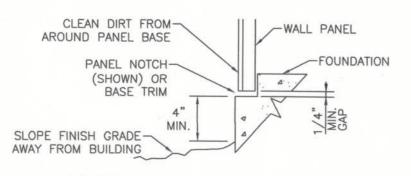
- 1.) All clips, flange braces, bolts, bracing systems, ETC. must be installed as shown
- 2.) It is extremely important, especially during construction, that panels at the eaves, rakes and ridges be kept secure.
- 3.) Column bases must not be lag screwed or "RED HEADED" to concrete unless specified on erection drawings for the building.
- 4.) Tighten column wind brace rods/cables (exterior and interior) before tightening roof rods/cables. Roof rods/cables are tightened from eave to peak.
- 5.) High strength bolts (A325) must be used where specified.

TEMPORARY CONSTRUCTION BRACING

- 1.) It is the responsibility of the erector to maintain stability of the structure during all stages of erection, particularly when left overnight.
- 2.) Temporary supports, such as temporary guys, braces or other elements shall be the total and complete responsibility of the erector. The temporary supports required shall be determined and furnished by the erector.
- 3.) Temporary construction supports shall be provided wherever necessary to accommodate all construction loads to which the structure may be subjected, left in place as long as may be required for safety.

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:
- 1.) The concrete foundation should be cured for a minimum of seven (7) days before wall panels are installed. (un-cured 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 essentially halted.



- 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 insure proper drainage.
- 4.) Upon completion of finish grading, all dirt is to be cleaned from around base of wall panel where it may have collected in panel notch or on base trim.

FASTENER INSTALLATION

Correct fastener installation is one of the most critical steps when installing roof/wall panels. Drive the fastener in until it is tight and the washer is firmly seated. Do not overdrive fasteners. A slight extrusion of neoprene around the washer is a good

Allways use the proper tool to install fasteners. A fastener driver (screw gun) with a RPM of 1700-2000 should be used for self-drilling screws. A 500-600 RPM fastener driver should be used for self-tapping screws. Discard worn sockets, these can cause the fastener to wobble during installation.



TOO TIGHT SEALANT SQUEEZED TOO THIN EXTRUDES FAR BEYOND FASTENER HEAD

TOO LOOSE SEALANT IS NOT COMPRESSED TO FORM SEAL

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.

MASTIC SEALANT

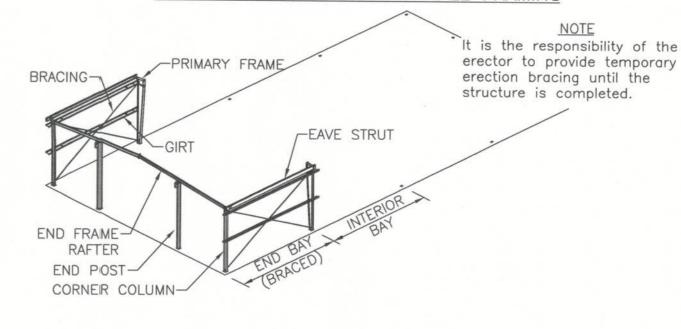
Proper mastic application is critical to the weather tightness of a building. Mastic should not be stretched when installed. Apply only to clean, dry surfaces. Keep only enough mastic on the roof that can be installed in a day. During warm weather, store mastic in a cool dry place. During cold weather (below 60°) mastic must be kept warm (60°-90°) until application. After mastic has been applied, keep protective paper in place until panel is ready to be installed.

IMPORTANT NOTE:

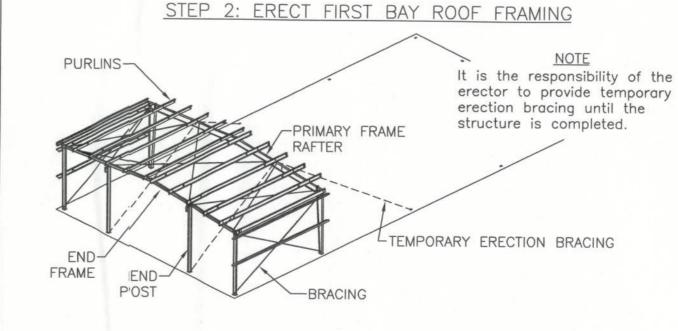
All details, recommendations and suggestions contained in the ERECTION GUIDE portion of this drawings set are for general guidelines only, and not meant to be all-inclusive. Industry accepted installation practices with regard to all areas not specifically discussed in this section should be followed. Only experienced, knowledgeable 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 as to the sequencing and how the components could be assembled to create a building. Both the quality and safety of installation and the ultimate customer satisfaction with the completed building are determined by the experience, expertise, and skills of the installation crews, as well as the equipment available for handling the materials. Actual installation operations, techniques and site conditions are beyond the Manufacturers control.

STEP 1: ERECT FIRST BAY WALL FRAMING



- 1A: Determine from erection drawings furnished with the building the location of the first braced bay. Framing for this bay will be erected first.
- 1B: Stand adjacent primary frame column and corner column over the anchor rods. Shim or chip out under the base plate if required to ensure that the base is level, at the correct elevation, and is in full contact with the foundation. Plumb and align the columns and install washers and nuts onto the Anchor Rods.
- NOTE: The end frame may be a bearing frame with the rafter supported by end posts, or a rigid frame with the rafter self-supporting, and not attached to the end posts. The procedure shown is for a bearing frame. If the building has a rigid end frame, it is erected the same as interior frames as described in steps 1 and 2.
- 1C: Attach wall girts to the primary frame column and corner column. Bolt girts to the corner column with two bolts. Bolt girt to primary frame column with one bolt through the column flange and secure bolt with sub-nut (see detail on erection drawings).
- 1D: Install the eave strut by bolting to the top of the columns. Refer to the erection drawings and attach column flange brace where shown. Flange braces may be required on one or both sides of the columns. If a flange brace connects to a girt in the adjacent bay, that brace will be bolted to the girt after the adjacent bay girts are installed.
- NOTE: As wall girts are installed around the building, framing for factory located framed openings and accessory framing to which the girts attach should be installed. Field located accessory framing may be installed at the same time as girts or at a later time.
- 1E: Install wall bracing systems (rods, cables, knee bracing, portal bracing) at this time but do not tighten completely until the bay is plumbed.
- 1F: Repeat steps 1B thru 1E for wall framing on the opposite side of the
- 1G: Attach clips to the end posts and stand these posts over the Anchor Rods. follow the procedure as described for corner columns in step 1B.
- 1H: Bolt required clips and flange braces to the end frame rafter sections and lift into place atop the end posts. Bolt rafter sections to corner column and end post cap plates. Bolt rafter sections together at peak.



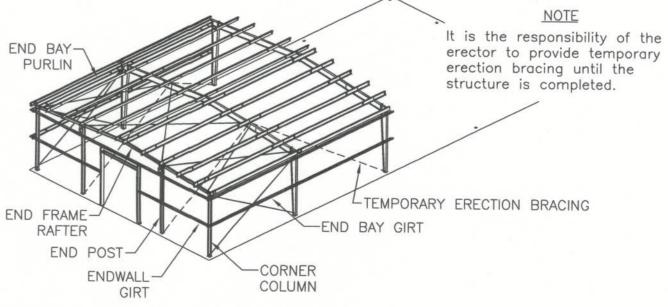
CAUTION

Until rafters are bolted in place with purlins and flange braces installed, they are easily damaged by incorrect or careless handling procedures. Use extreme caution when lifting rafters. Two booms should be used to lift any pinched rafter section 80 feet or more in length.

- 2A: Bolt primary frame rafter together at peak connection (unless rafter length requires lifting in sections). Attach the required clips and flange braces to the rafter before lifting since these items are more easily installed on the ground. Lift rafter into place between sidewall columns and install bolts in rafter to column knee connections.
- 2B: Install end bay purlins from end frame rafter to the first interior frame rafter. The end bay purlins will overlap the interior bay purlins at the frame as described in step 1C. Complete flange brace connection to purlins.
- 2C: Install roof bracing systems but do not tighten completely until the bay is
- 2D: Plumb and square the first bay. After alignment, tighten wall bracing first and the roof bracing working from eave to peak. Tighten any remaining bolts.

Plumbing and aligning a total structural system begins with the first braced bay and continues through completion. Accurate alignment of the first bay is essential for correct alignment of succeeding bays. The installer is responsible for choosing the best method suited for plumbing and aligning the structural system.

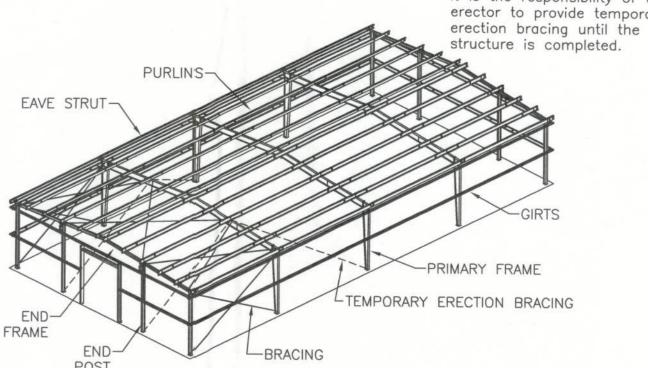
STEP 3: ERECT ENDWALL GIRTS AND FIRST INTERIOR BAY



- 3A: After end frame is plumb and square, install endwall girts and flange braces for end post if required.
- 3B: Attach wall girts to the primary frame columns (see step 1C).
- 3C: Install eave struts (see step 1D).
- 3D: Attach roof purlins for this bay to the two rafters. Purlins will bolt to the rafter flange in the same manner as girts to column flanges (see step 1C). connect flange braces to purlins.
- 3E: Check alignment, plumb and square the two bays just erected. Tighten all bolts and bracing.

STEP 4: ERECT REMAINING STRUCTURAL FRAMING

NOTE It is the responsibility of the erector to provide temporary



Starting at the opposite end of the first bay erected, install the remaining interior frames, girts, purlins, eave struts, bracing, end frames and end posts using the procedures described in the preceding steps. Be sure all wall girts, roof purlins and flange braces as shown on the erection drawings are installed. Constant checks should be made to ensure the building is square, plumb and aligned.

All X-Bracing should be checked that it is installed to a taut condition with all slack removed. Do not tighten beyond this state.

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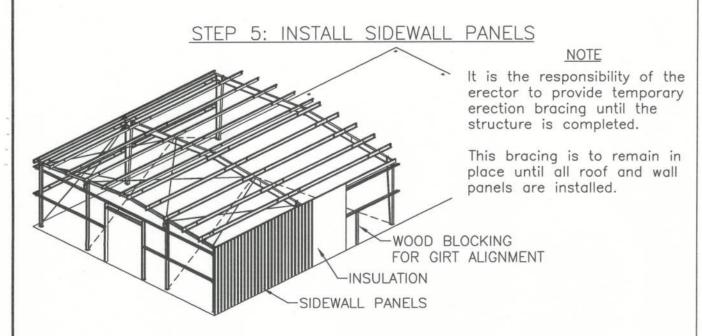
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Job Number: 22-B-61638-1

Sheet Number: R3 of 11

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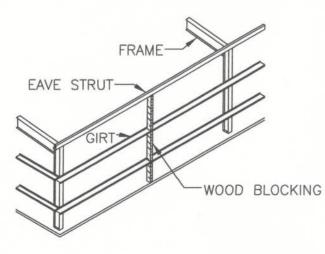
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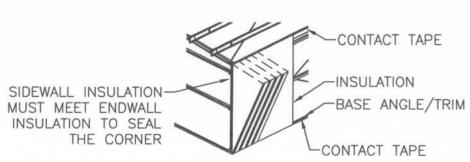
5A: Before installing wall panels, the girts must be aligned to a level position so that there is no visible sag. This should be done directly ahead of panel

Girt leveling may be accomplished by standing a section of gable angle vertically against the outside girt flanges at approximate mid—bay location. When girts are level, attach the girt flanges to the angle with vise grip pliers or temporary screws. Wood blocking cut to fit the spaces may also be used for alignment.

NOTE: Temporary girt blocking is not recommended on concealed fastener panels. The removal of the blocks after panel installation can cause oil canning.

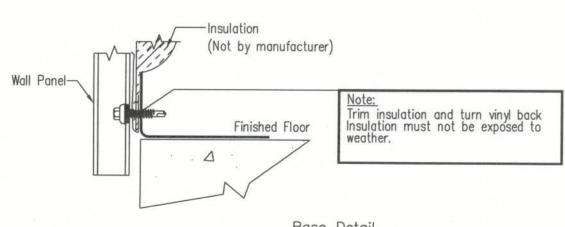


NOTE: Wall panel type and installation details will vary. Refer to the erection drawings and details for the specific panel used for your building.



5B: If walls are to be insulated, place a continuous run of contact tape along the eave strut and base member.

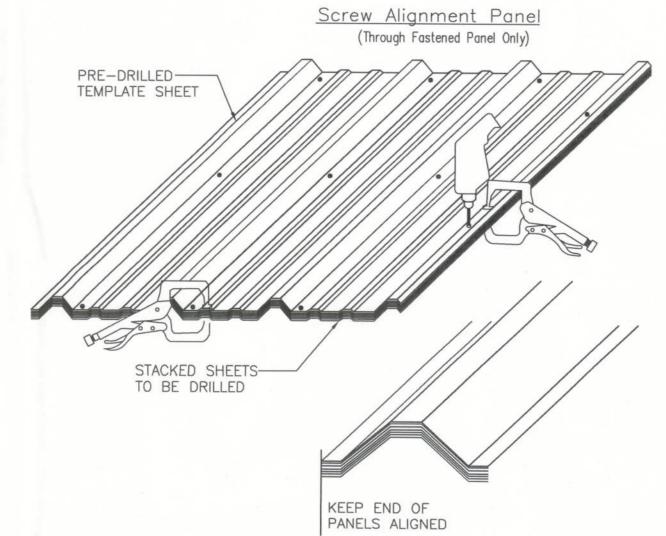
NOTE: At the base, cut off the insulation a minimum of 1/2" above the bottom of the wall panel. This will prevent the insulation from hanging below the wall panel and wicking moisture.



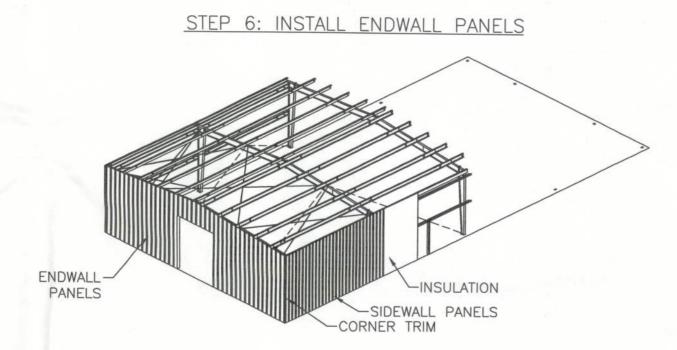
Base Detail (See Erection Drawings)

Starting at a building corner, attach the first piece of blanket insulation to the contact tape on the eave strut. Pull tight and adhere to tape at the base. It is recommended that insulation not be installed more than 6 feet ahead of panels.

- 5C: 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 erection drawings.)
- 5D: Install remaining sidewall insulation and panels, being careful to maintain correct panel coverage. It is suggested that the foundation be marked in increments of panel width to allow visual checking of panel coverage as installation progresses.
- NOTE: Check periodically to ensure that all panels are aligned and plumb.
- 5E: At the finishing corner of a sidewall, the last panel may required additional lap or trimming for installation of corner trim refer to the details in the erection drawings.



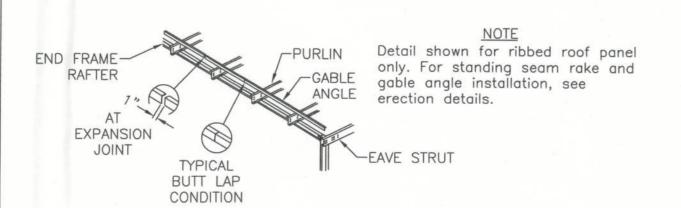
NOTE: After drilling panels, it is important to clean metal filings off all panel surfaces, including between panels that are not installed that day, to avoid rust stains.



6A: Install gable angles/supports onto the ends of purlins and eave struts. This angle is to butt-up to each other or is spliced as required except at expansion joints where a one inch gap is maintained between ends of adjacent sections to allow for expansion.

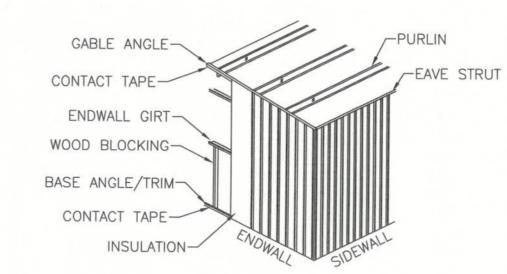
Gable angle splices may occur on or between purlins and the angle must be attached to each purlin and the eave strut.

NOTE: Wall panel type and installation details will vary. Refer to the erection drawings and details for the specific panel used for your building.

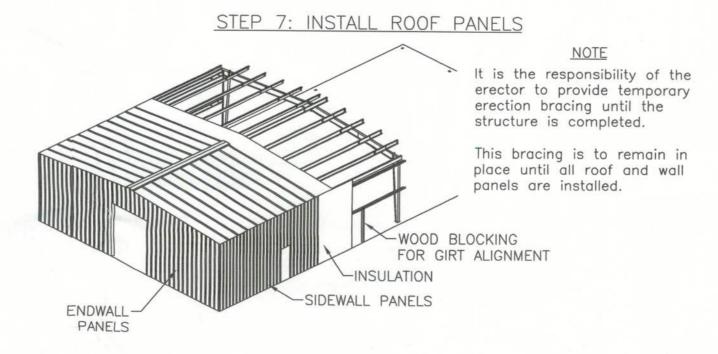


6B: See erection drawings sheeting layouts for panel starting dimensions, panel trim locations, and lap locations





- 6C: Align and level girts on endwall.
- 6D: If the walls are to be insulated, place a continuous run of contact tape along the gable angle and base member. Starting at the corner of the endwall, attach the first piece of insulation to the contact tape on the gable angle, pull tight and adhere to tape at the base. Cut off excess insulation. It is recommended that insulation not be installed more than 6 feet ahead of panels.
- NOTE: At the base cut off the insulation a minimum of 1/2 inch above the bottom of the wall panel. This will prevent the insulation from hanging below the wall panel and wicking moisture.
- 6E: Start at the corner, trim panel (if required) and set in place. Refer to corner details in the erection drawings for the panel starting distance from the corner, When the panel is located and plumb, install fasteners.
- 6F: Install remaining endwall insulation and panels, being careful to maintain the correct panel coverage as suggested in step 5D.
- 6G: Install corner trim.



- 7A: Install eave trim over top of sidewall panels and eave struts with fasteners per erection drawings eave detail.
- 7B: If the roof is insulated, place a continuous run of contact tape along top of eave struts at both sidewalls. Lay a starter roll of blanket insulation from eave to eave across roof and secure to contact tape. (refer to packing list for width of insulation starter roll). It is recommended that insulation be installed no more than 6 feet ahead of panels.
- 7C: Install the first run of roof panels across the building from eave to eave, or eave to ridge. To allow proper installation of rake trim, the starting location for the first panel must be as shown in rake details included with the erection drawings. When the first run is properly located and aligned with the correct endlaps and eave overhang, fasten to purlins. Roof panels should be installed so that the sidelap is in a direction away from the prevailing wind. Refer to appropriate lap detail.
- 7D: Install remaining roof insulation and panels. To avoid accumulative error due to panell coverage gain or loss, properly align each panel before it is fastened. Occasional checks should be made to ensure that correct panel coverage is maintained. Special attention should be given to fastener, mastic and closure requirements. Refer to details with erection drawings.
- 7E: At fimishing end of roof, the last panels may require field modification for installation of rake trim. Refer to rake details. DO NOT BACK LAP THROUGH FASTENED ROOF SHEETS.
- NOTE: Roof panel types and installation requirements will vary. Refer to the appropriate details for the specific panel used.

IMPORTANIT: Loose fasteners, blind rivets, drill shaving, ETC.. must be removed from roof to guard against corrosion.

NEVER STEP ON LIGHT TRANSMITTING PANELS, TRANSLUCENT PANELS, OR UNATTENDED ROOF PANELS.



Panels May Collapse If Not Properly Secured!

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 or translucent panels can never be considered as a walking surface.

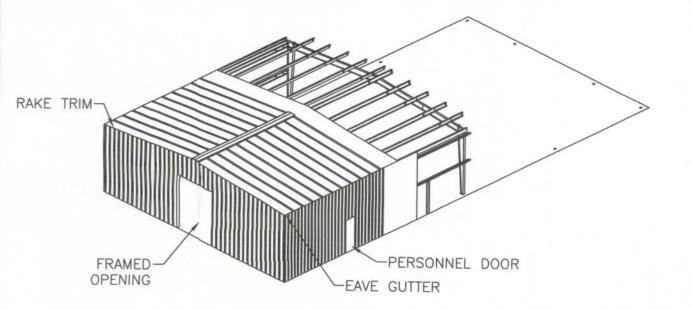
Partially attached or unattached panels should never be walked on!

Do Not:

- 1. Step on rib at edge of panel.
- 2. Step near crease in rib at edge of panel.
- 3. Step within 5 feet of edge on unsecured panel.

A 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!

STEP 8: INSTALL TRIM AND ACCESSORIES



- 8A: Install rake trim and gable closure.
- 8B: If included with the building, install the eave gutter, corner closures and downspouts.
- NOTE: Remove all loose fasteners, blind rivets, drill shavings, etc... from gutter to quard against corrosion.
- 8C: Install accessories (doors, windows, louvers, etc...) not previously installed. Refer to the appropriate details for installation instructions.

IMPORTANT:

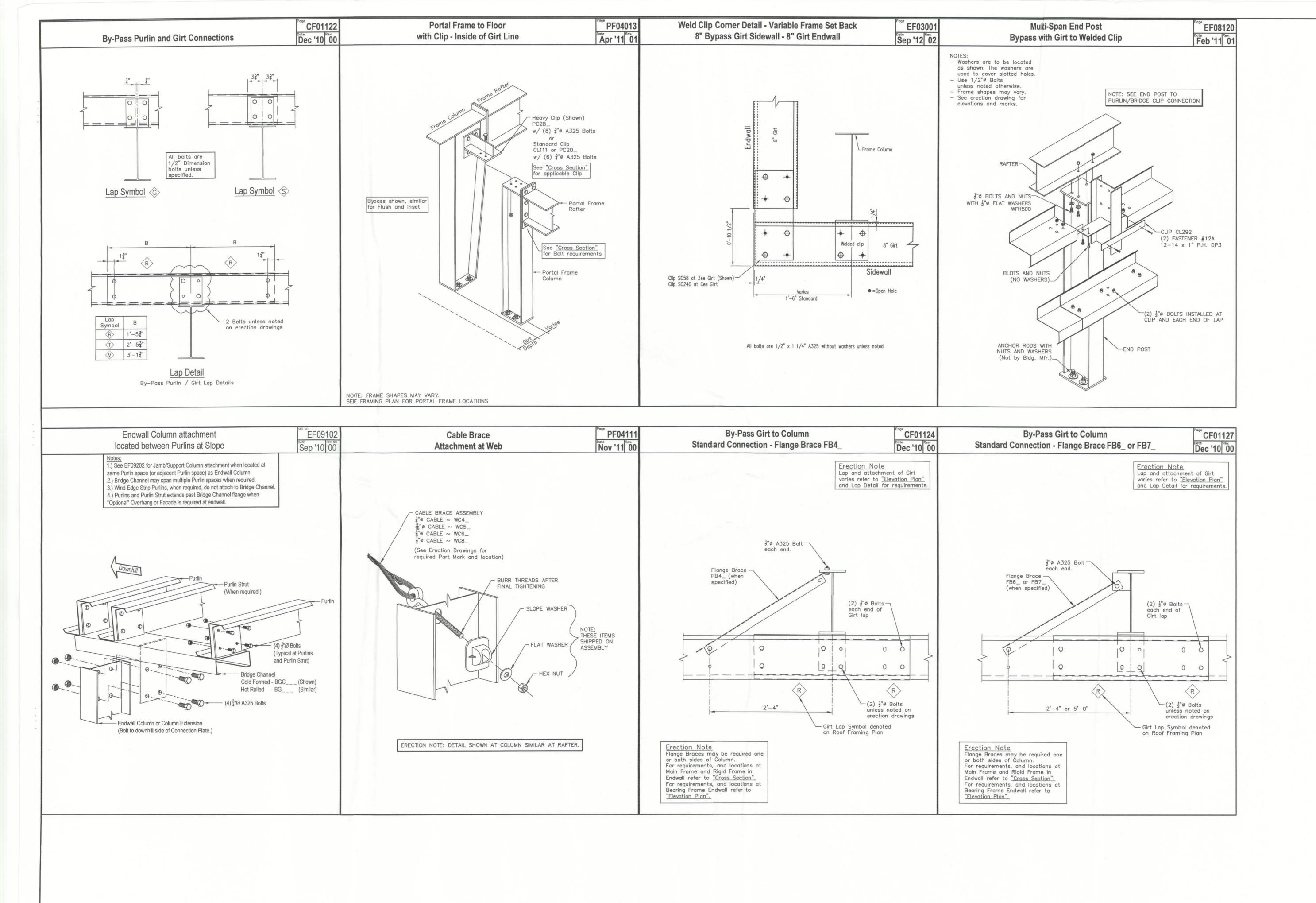
Remove debris from roof and wall surfaces during installation and after. Clean surface of sheeting as required to remove smudges and touch-up any minor/mild scratches with manufacturer color match touch-up paint if purchased.

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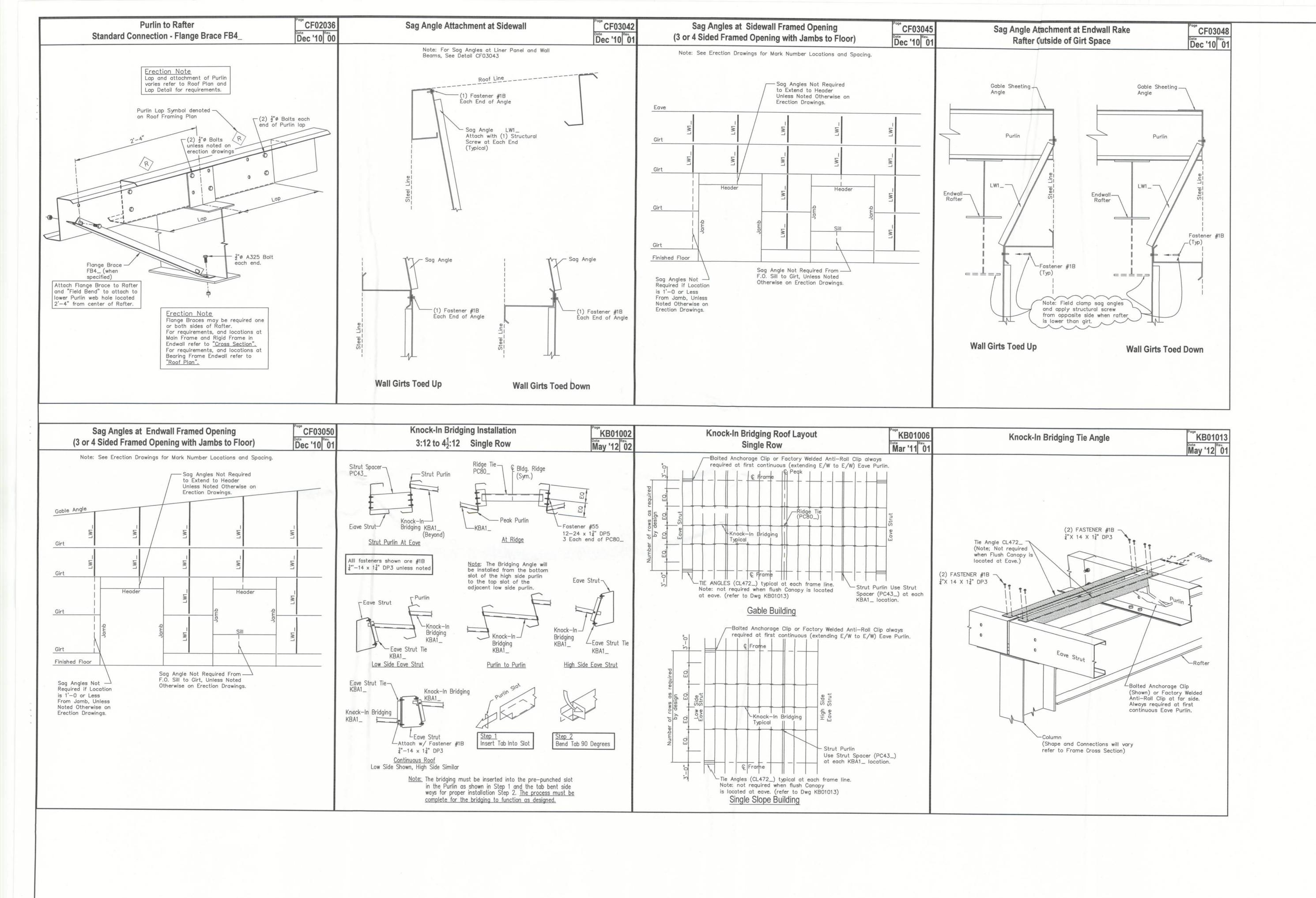
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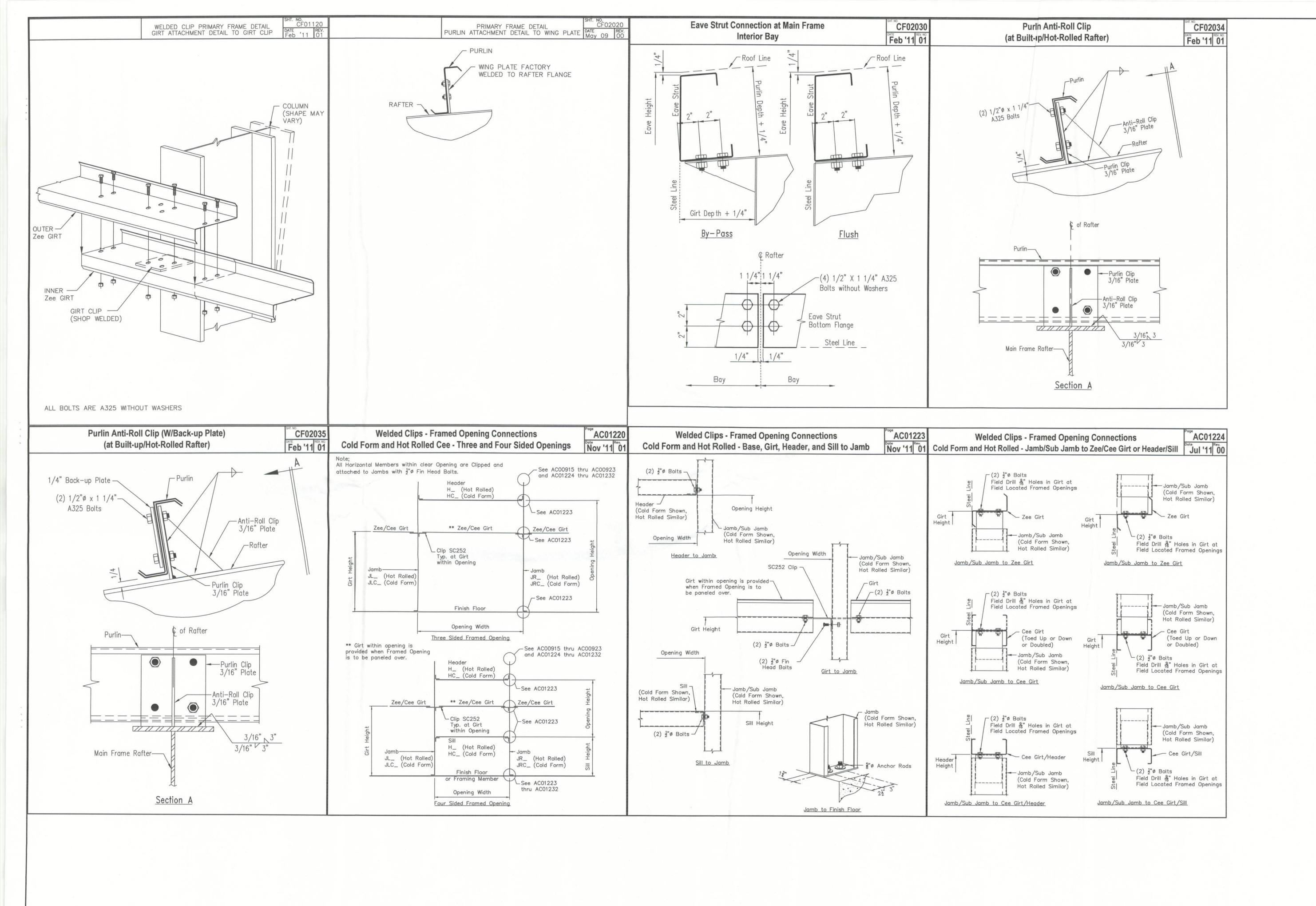
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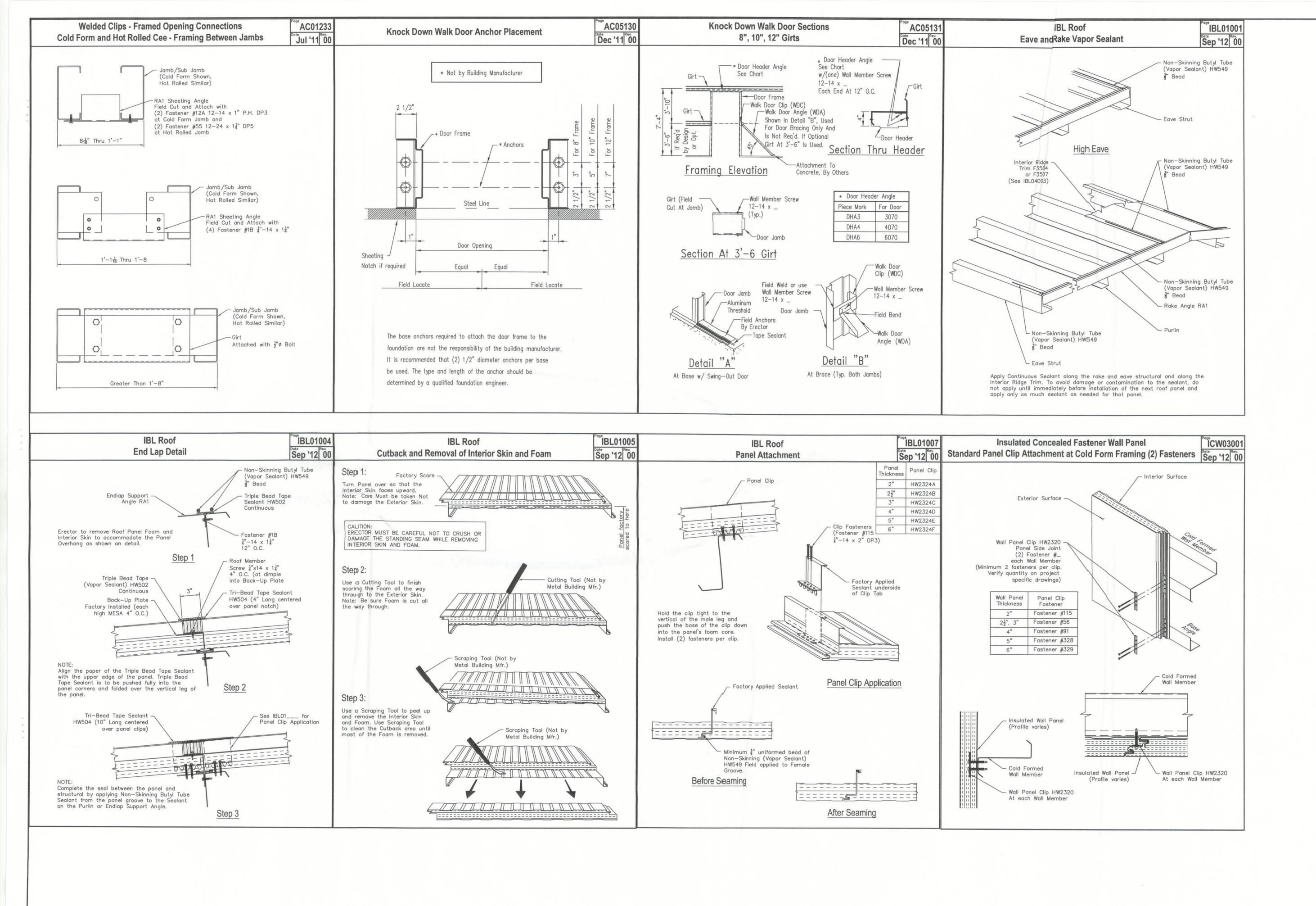
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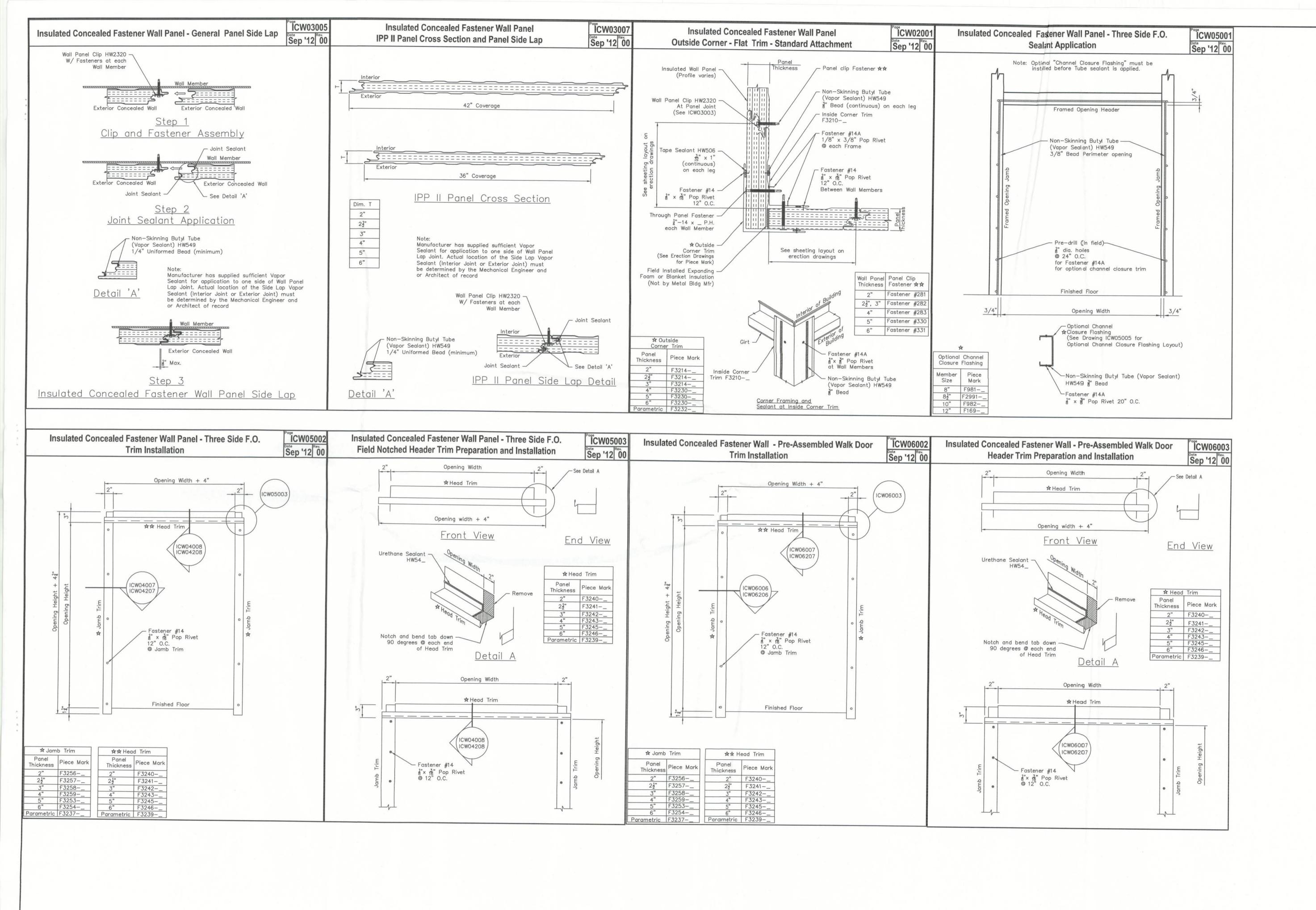
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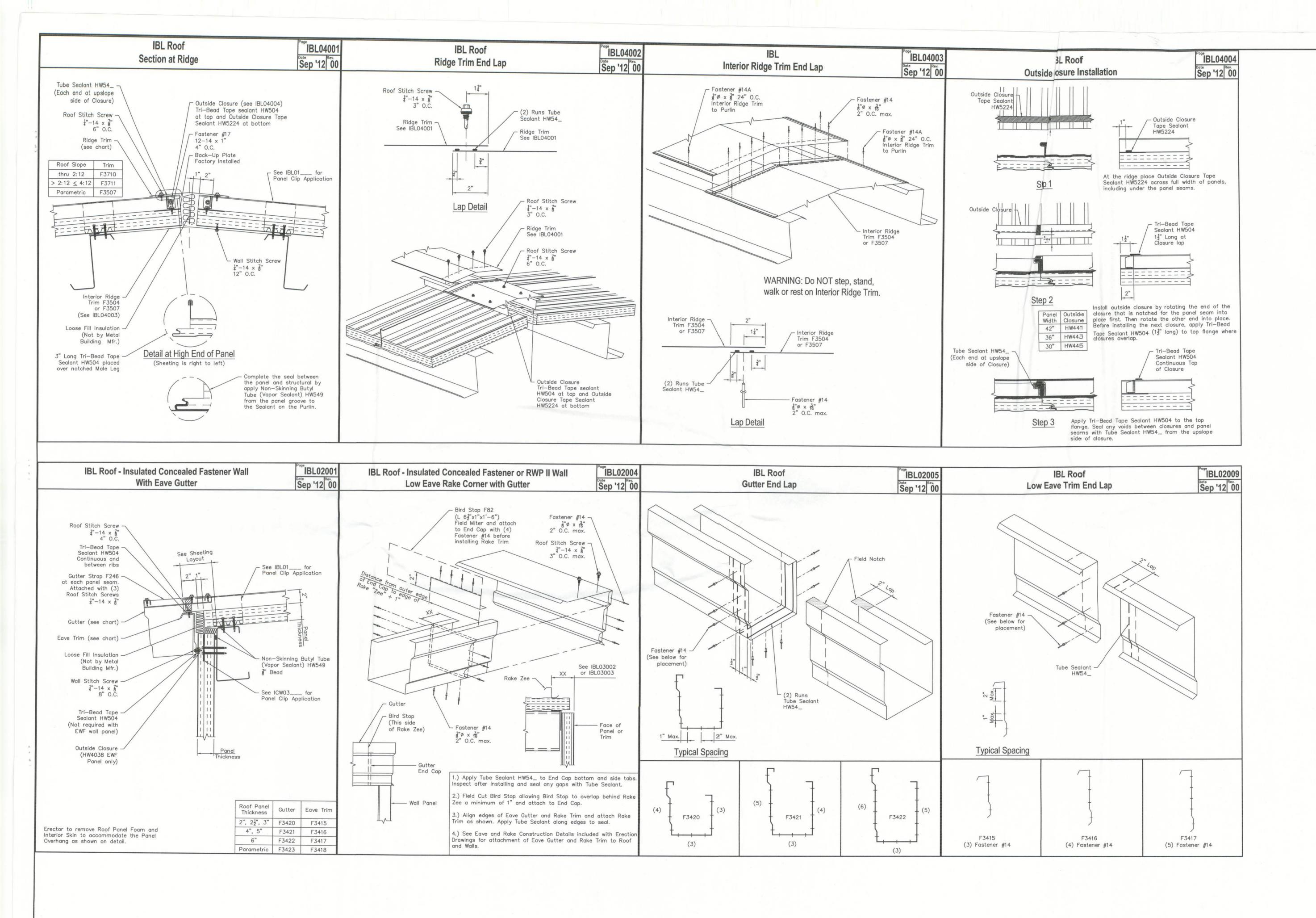
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