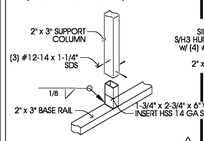
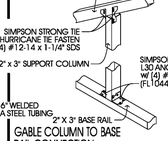
SUPPORT COLUMN TO SIDE BASE RAIL CONNECTION (INTERIOR PERSPECTIVE)



A

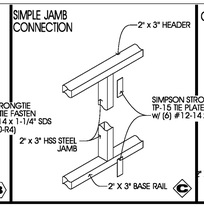
GABLE END COLUMN TO TRUSS TOP CHORD CONNECTION



GABLE COLUMN TO BASE RAIL CONNECTION

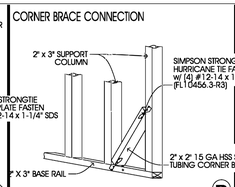
B

SIMPLE JAMB CONNECTION



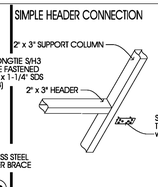
C

CORNER BRACE CONNECTION



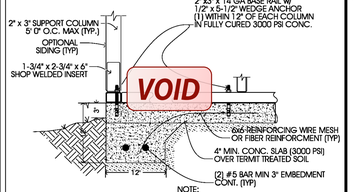
D

SIMPLE HEADER CONNECTION



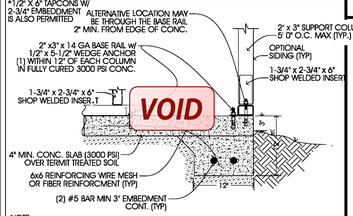
E

*1/2" X 6" TAPCONS W/ 2-3/4" EMBEDDMENT IS ALSO PERMITTED

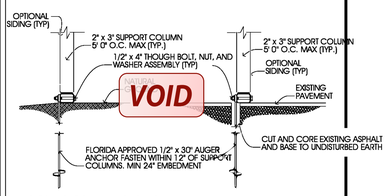


NEW CONCRETE/DIRECT ANCHORING

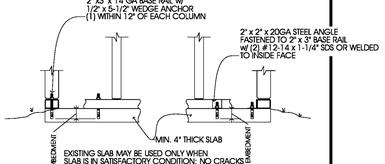
*1/2" X 6" TAPCONS W/ 2-3/4" EMBEDDMENT IS ALSO PERMITTED



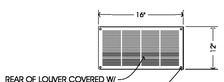
NEW CONCRETE/OFFSET ANCHORING



NO FOUNDATION/BARE GROUND



FOUNDATION AND ANCHORING
EXISTING CONCRETE/DIRECT ANCHORING
NTS

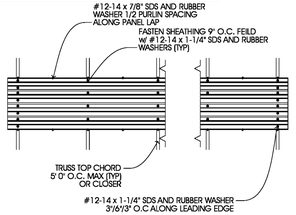


CODE REQUIREMENT 1 IN² PER FT² OF ENCLOSED BUILDING

TOTAL ENCLOSED BUILDING = 600 FT²
EQUIVALENT FLOOD OPENING = 192 IN² EACH (25% REDUCTION DUE TO FINS) = 144 IN² EACH
TOTAL PROVIDED (5)= 720 IN²

FLOOD OPENING DETAIL (ONLY USED WHEN FINISH FLOOR IS BELOW BFE)
NTS

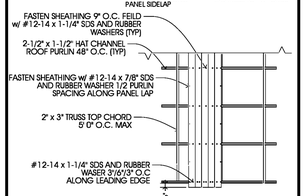
UNIVERSAL FASTENING SCHEDULE HOROZONTAL ROOFING PANELS ACROSS TRUSS TOP CHORD
NTS

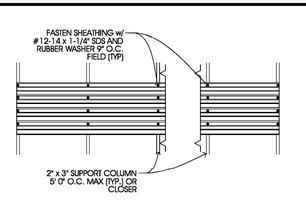


UNIVERSAL FASTENING SCHEDULE VERTICAL ROOFING PANELS ACROSS PURLINS
NTS

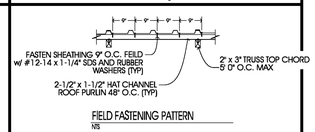
SIDELAP FASTENERS #12-14 X 7/8" SDS 1/2 TROSS SPACING ON-CENTER ALONG PANEL SIDELAP

FIELD PANEL FASTENERS #12-14 X 1-1/4" SDS 9" ON-CENTER ALONG FIELD TRUSS TOP CHORDS

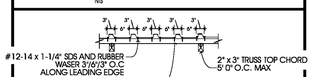




UNIVERSAL FASTENING SCHEDULE SIDING PANELS ACROSS SUPPORT COLUMNS
NTS



FIELD FASTENING PATTERN
NTS

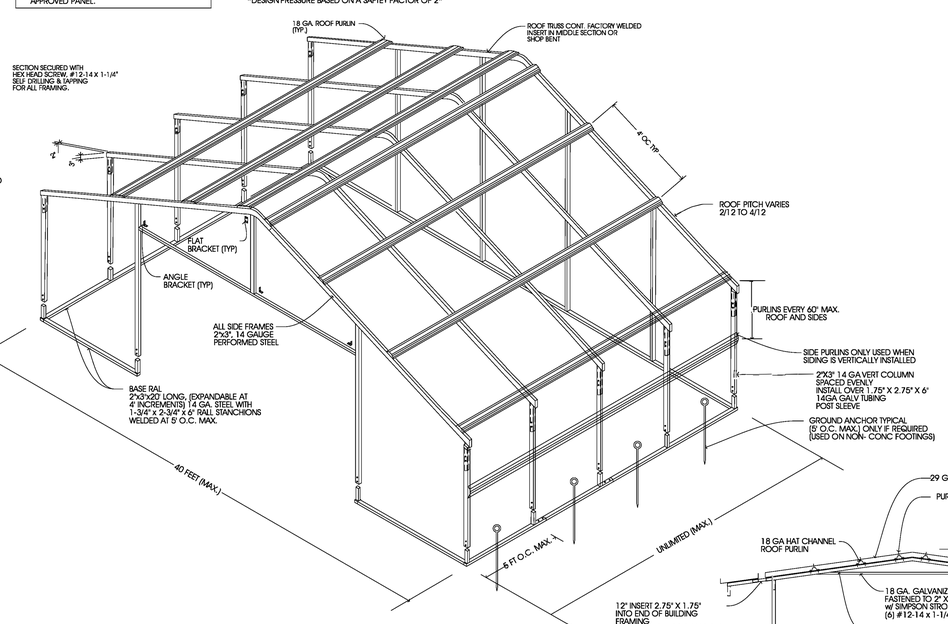


LEADING EDGE FASTENING PATTERN
NTS

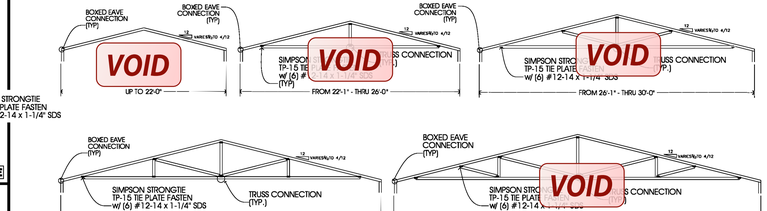
NOTES:
1. ALL HAT CHANNEL SHALL BE A MIN. OF 18 GA.
2. ALL STRUCTURAL TUBING SHALL BE A MIN. OF 14 GA.
3. ALL UNIVERSAL STEEL SHALL BE A MIN. OF 29 GA STRUCTURAL STEEL PANELS AND HAVE A YIELD STRENGTH OF 80 KSI OR ANOTHER FBC APPROVED PANEL.

DESCRIPTION	FIELD		LEADING EDGE
	ZONE 1	ZONE 2	ZONE 3
MAXIMUM UPLIFT DESIGN PRESSURE	34.3	37.7	52.8
FASTENER PATTERN	9"-9"-9"-9"		6"-3"-6"-3"-6"
SUPPORT SPACING	48" O.C.		48" O.C.

DESIGN PRESSURE BASED ON A SAFTEY FACTOR OF 2



40' (MAX.) x UNLIMITED (MAX.) MODEL
(ALL FRAMING SHALL BE 2"x3" RECTANGULAR TUBING)
(NOTE: WHEN OVER 26' IN WIDTH USE COLLAR TIE DETAIL OR TRUSS DESIGN STYLE)



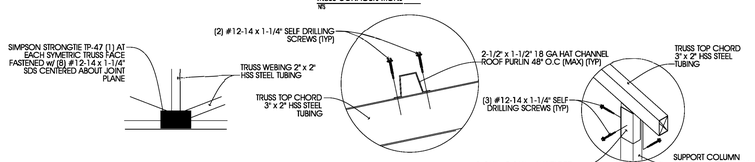
COMPONENTS AND CLADDING (exp=B, gcpi=-0.00 (Open))						
VELOCITY ULTIMATE	PRESSURE (PSF) ZONE					
	ROOF			WALLS		
	1	2	3	4/5 AVG NORMAL	4/5 AVG PARALLEL	
140 MPH	-14.3	-21.5	-35.9	+14.5	-17.6	-14.3 -17.4

COMPONENTS AND CLADDING (exp=B, gcpi=+/-0.18 (Enclosed))						
VELOCITY ULTIMATE	PRESSURE (PSF) ZONE					
	ROOF			WALLS		
	1	2	3	4/5 AVG NORMAL	4/5 AVG PARALLEL	
140 MPH	-17.6	-24.7	-38.1	+17.7	-20.8	+17.5 -20.6

COMPONENTS AND CLADDING (exp=B, gcpi=+/-0.55 (Partially Enclosed))						
VELOCITY ULTIMATE	PRESSURE (PSF) ZONE					
	ROOF			WALLS		
	1	2	3	4/5 AVG NORMAL	4/5 AVG PARALLEL	
140 MPH	-24.2	-31.4	-45.7	+22.4	-27.4	+24.1 -27.2

all figures updated as of 12/28/18

TRUSS CONFIGURATIONS
NTS

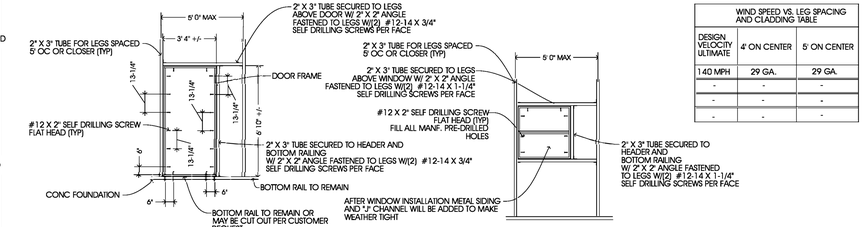


TYPICAL TRUSS CONNECTIONS

TYPICAL ROOF PURLIN ATTACHMENT

TYPICAL BOXED EAVE CONNECTION

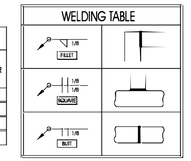
FLORIDA PRODUCT APPROVAL CHART		
PRODUCT APPROVAL NUMBER	MANUFACTURER	DESCRIPTION
FL17996.5-R1; FL17996.6-R1	ELIXER	PERSONNEL DOOR
FL21450.6-R3; FL14425.1-R4	JANUS	ROLL-UP DOOR
FL9094-R5	AMARR	ROLL-UP DOOR
FL239.1 R-26	PGT INDUSTRIES	WINDOW 32" x 26"
FL12940-R6	POCONOMTAS	WINDOW 30" x 30"
FL 9903.3-R4	TRI-COUNTY METALS	29 GA ULTRA-RIB CUM PANEL



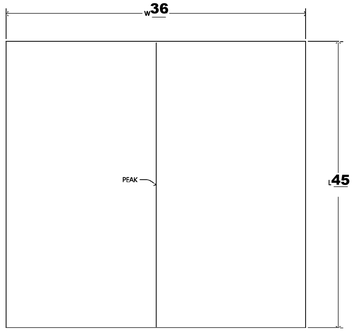
DOOR INSTALLATION DETAIL
NTS

WIND SPEED VS. LEG SPACING AND CLADDING TABLE		
DESIGN VELOCITY ULTIMATE	4' ON CENTER	5' ON CENTER
140 MPH	29 GA.	29 GA.
-	-	-
-	-	-
-	-	-

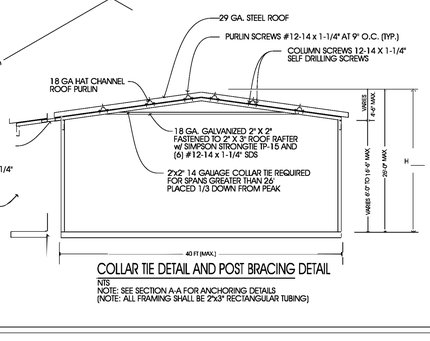
WELDING TABLE



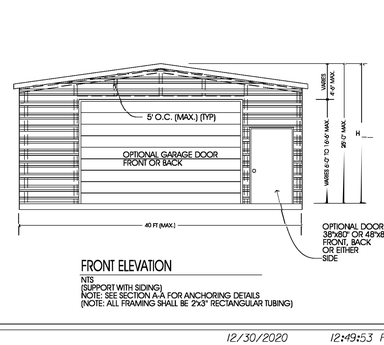
WINDOW INSTALLATION DETAIL
NTS



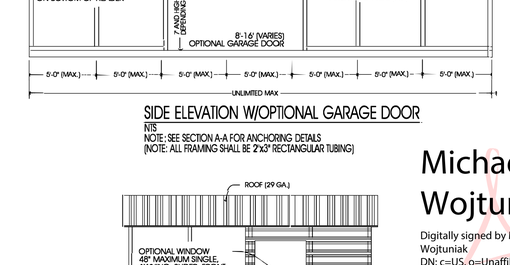
SITE SPECIFIC DESIGN PLAN
NTS (NOTE: SEE SECTION A-A FOR ANCHORING DETAILS)



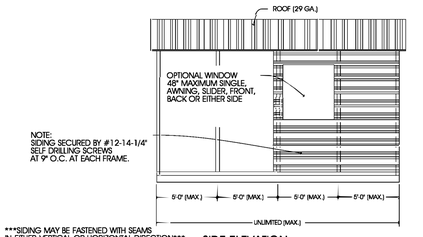
COLLAR TIE DETAIL AND POST BRACING DETAIL
NTS
NOTE: SEE SECTION A-A FOR ANCHORING DETAILS
(NOTE: ALL FRAMING SHALL BE 2"x3" RECTANGULAR TUBING)



FRONT ELEVATION
NTS
(SUPPORT WITH SIDING)
NOTE: SEE SECTION A-A FOR ANCHORING DETAILS
(NOTE: ALL FRAMING SHALL BE 2"x3" RECTANGULAR TUBING)



SIDE ELEVATION W/OPTIONAL GARAGE DOOR
NTS
NOTE: SEE SECTION A-A FOR ANCHORING DETAILS
(NOTE: ALL FRAMING SHALL BE 2"x3" RECTANGULAR TUBING)



SIDING MAY BE FASTENED WITH SEAMS IN EITHER VERTICAL OR HORIZONTAL DIRECTION

SIDE ELEVATION
NTS
(SUPPORT WITH SIDING)
NOTE: SEE SECTION A-A FOR ANCHORING DETAILS
(NOTE: ALL FRAMING SHALL BE 2"x3" RECTANGULAR TUBING)

GENERAL NOTES

1. ALL CONCRETE WORK SHALL BE 3,000 P.S.I. AT 28 DAYS.
2. MINIMUM SOIL BEARING SHALL BE ASSUMED AT 2,000 P.S.F.
3. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH THE 2020 7TH EDITION FLA. BLDG. CODE AND ASCE 7-10

THESE PLANS INCLUDE DESIGN FOR ALL WIND

4. ALL SIDING AND ROOFING TO MINIMUM OF 29 GAUGE ATTACHED TO THE COLUMNS AS SHOWN AND CONSIDERED TO BE A MIN. OF 3 SPAN.
5. FOR ZONE LOCATIONS SEE FBC FIGURE 1.609(c). THE COMPONENTS AND CLADDING LOADING CHARTS THIS SHEET.
6. DESIGN LOADINGS:
   DEAD LOAD = 4 PSF
   ROOF LIVE LOAD = 20 PSF
7. DOOR AND WINDOW DATA: PER TABLE
8. ALL WINDOWS AND MAN DOORS MAY USE #12-1.4X1-1/4" LONG SELF DRILLING SCREWS IN LIEU OF THE WOOD SCREWS WHEN CONNECTING THE UNITS TO METAL FRAME. FOLLOW THE MANUFACTURERS SPECIFICATIONS FOR LOCATING CONNECTORS.
9. TYPE OF CONSTRUCTION TYPE II-B
   BUILDING CATEGORY [II]
10. CORNER BRACES REQUIRED ONLY REQUIRED WITH WIND SPEEDS GREATER THAN OR EQUAL TO 140 MPH OR AS CALLED OUT ON PLANS.

CENTRAL FLORIDA STEEL BUILDINGS 140 MPH

BUILDING TYPE
Enclosed

BUILDING DIMENSIONS
36x45x16

LOCATION
677 SW Infinity Place Lake City, FL 32024

ENGINEERING • PLANNING • PERMITTING

REVISIONS:

DESCRIPTION	DATE	BY

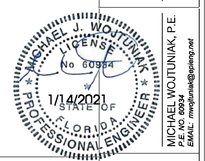
EPI
ENGINEERED PERMITS, INC.
311 SOUTH WOODLAND BVD.
SUITE A
DELAND, FL 32720
PHONE: 386-734-0830
FAX: 386-734-8226
CERT NO. 29268
EMAIL: epi@epieng.net

PROJECT: CENTRAL FLORIDA STEEL BUILDINGS

SHEET TITLE: TYPICAL CARPORT/RESIDENTIAL BUILDING 140 MPH WIND ZONE

Michael J Wojtuniak

Digitally signed by Michael J Wojtuniak
DN: c=US, o=Unaffiliated, ou=A01410C0000016B412E1DEF00001CE7, cn=Michael J Wojtuniak
Date: 2021.01.14 07:52:44 -05'00'



MICHAEL WOJTUNIAK, P.E.
P.E. NO. 60954
EMAIL: mwojtuniak@epieng.net

IF THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL J. WOJTUNIAK, P.E.

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DESIGN STATEMENT:

THESE PLANS WERE DESIGNED FOLLOWING THE 2020 7TH EDITION FLORIDA BUILDING CODE AND ASCE 7-10.INCLUDING CHAPTER 16 ON STRUCTURAL DESIGN. AN ULTIMATE WIND SPEED OF 140 MPH, (3 SECOND GUST) IN WIND EXPOSURE CATEGORY "B". THIS STRUCTURE HAS BEEN DESIGNED AS RISK CATEGORY II. THE COMPONENTS AND CLADDING WERE DESIGNED BASED ON A WIND PRESSURE. THIS STRUCTURE HAS BEEN DESIGNED AS EITHER AN OPEN/ENCLOSED OR PARTIALLY ENCLOSED STRUCTURE AS PER NOTED.

SHEET NO.
A-1

DATE: 12/30/2020

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