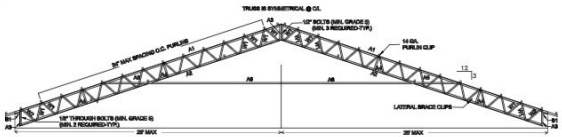


TYPICAL TRUSS DETAIL

SCALE : N.T.S.

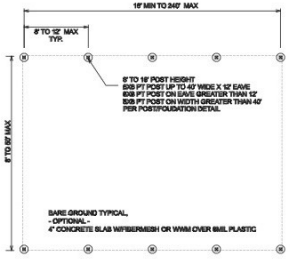
CUT LIST OF MATERIALS

ITEM NO.	DESCRIPTION		LENGTH	NUMBER REQUIRED	MATERIAL
A1	TOP CHORD	L2.5X2.5X3/16"	20'3 1/4"	2	50 KSI
A2	BOTTOM CHORD	L2.5X2.5X3/16"	19'-9"	2	50 KSI
A3	VERTICAL CHORD	L2.5X2.5X3/16"	1'-1"	4	50 KSI
A4	VERTICAL CHORD	L1.1/2X1.1/2X3/16	1'-5"	4	50 KSI
A5	TIE	L1.5X2.5X3/16	4'-2"	2	A36
A6	TIE	L1.5X2.5X3/16	22'-4"	1	A36
W1	WEB	L1.5X2.5X3/16	1'-8"	48	A36
W2	WEB	L1.5X2.5X3/16	1'-8 1/8"	2	A36
B1	BASE	L2.5X2.5X3/16"	5'1/8"	2	50 KSI

NOTE: L1.* DENOTES DOUBLE ANGLE

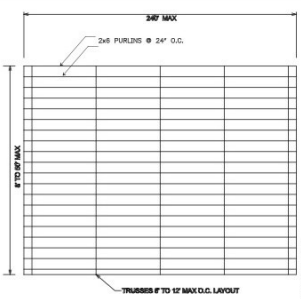
FABRICATION NOTES:
1. ALL STEEL SHALL BE FABRICATED TO AISC STANDARDS.
2. ALL STEEL AND FABRICATION SHALL ADHERE TO AISC STANDARDS.
3. ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY AND PERMANENT CONSTRUCTION BRACING.
5. PURLINS SHALL BE SPACED BY 24" MAX SPACE (24"-0" O.C.)
6. ALL DIMENSIONS SHALL BE VERIFIED BY FABRICATOR PRIOR TO FABRICATING.

TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 50 FEET.
ITEM QUANTITY AND DIMENSIONS ARE TO BE MODIFIED FOR SHORTER TRUSS LENGTHS.
DISTANCE FROM A1 TO A2 ALONG A4 MUST BE 15" ON ALL MODIFIED LENGTHS



FOUNDATION PLAN

SCALE : N.T.S.



TRUSS AND PURLIN LAYOUT

SCALE : N.T.S.

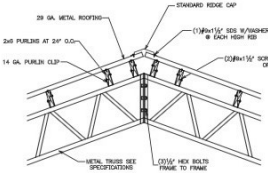
FL PRODUCT APPROVAL NUMBER	MANUFACTURER	PRODUCT DESCRIPTION
FL17996.3,FL18.1,17996.3,R0	ELKDER	RESIDENTIAL DOOR
FL21450.2, FL14420.1	JAKES	ROLL UP DOOR
FL18994.R4	AMWINS	ROLL UP DOOR
FL12.R.1.R.17	PRO INDUSTRIES	WINDOW 30" x 36"
FL12.R.6.J.R4	POCONO/SEAL	WINDOW 36" x 36"
FL17510.2.R4	UNION	26 GA MASTER RIB PANEL
FL5139.1	SIMPSON	HEDDS-EL HOLD-DOWN
FL15812	SIMPSON	HI TIE
FL15818	SIMPSON	LS HEELS
FL14811.R2	NASHA	26 GA. GRANDEUR PANEL
FL20211	SAC GROUP	26 GA. SERIES ROOF PANEL

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 I. 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 PLAN NOTES.

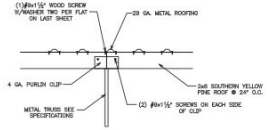
GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE PROVIDED INACCORDANCE WITH THE 2020 7TH EDITION FLA BUILDING CODE AND ASCE 7-10 WIND CODES FOR AN ULTIMATE WIND SPEED OF 140 MPH AND GREATER. THESE PLANS INCLUDE DESIGN FOR ALL WIND SPEEDS UP TO AN INCLUDING 140 MPH ULTIMATE WIND SPEED.
2. ALL ROOFING TO BE MIN 29 GAUGE OR BETTER, ATTACHED TO PURLINS AS SHOWN.
3. ALL CONCRETE WORK SHALL BE 3000 PSI AT 28 DAYS. CONTROL JOINTS SHALL BE CUT AT DISTANCES NO GREATER THAN 1.5
ELECTRICAL CONDUIT AND OTHER PIPES TO BE EMBEDDED IN STRUCTURAL CONCRETE FLOOR SLABS SHALL BE PLACED IN ACCORDANCE WITH ACI-318 PARAGRAPH 6.3.
4. MINIMUM SOIL BEARING SHALL BE ASSUMED AT 2000 PSF
5. ALL WINDOWS AND DOORS SHALL BE INSTALLED PER MANUFACTURERS SPECS.
6. ALL STEEL BUILDING MATERIAL SARE FLOOD RESISTANT AND WILL NOT BE DAMAGED BY FLOOD OR RAIN.
7. DESIGN LOADINGS:
ROOF LIVE LOAD - 20 PSF
DEAD LOADS:
TRUSS SPACING @ 12" - DL = 8 PSF
TRUSS SPACING @ 16" - DL = 9 PSF
TRUSS SPACING @ 24" - DL = 12 PSF
DESIGN SPEED - 170 MPH
WIND RISK CATEGORY - I
EXPOSURE CATEGORY - B
IMPORTANCE FACTOR - 1.0
BUILDING CATEGORY I
8. WOOD FRAMING AND FASTENERS TO MEET NDS-2012 REQUIREMENTS.
9. FASTENER REQUIREMENTS: (1) ALL NAILS ARE C-COMMON GALVANIZED (2) ALL BOLTS ARE TO BE GALVANIZED STEEL AND INCLUDE NUTS AND WASHERS (3) ALL OTHER HARDWARE (SIMPSON, ETC.) TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS
10. NAILING SIZE AND NUMBER SHALL SATISFY TABLES 2306.2.(1), 2304.3.(1) AND 2306.3.(8) IN FBC, UNLESS OTHERWISE INDICATED.
11. ALL FASTENERS EXPOSED TO THE WEATHER SHALL BE TREATED FOR WEATHER RESISTANCE AND COMPATIBLE WITH THE PRESSURE TREATED WOODS USED.
12. ALL WOOD TO BE 42 YP OR BETTER, ALL WOOD TO BE IN CONTACT WITH CONCRETE TO BE P.T.
13. IN TERNAL PRESSURE COEFFICIENT = 0 OPEN
14. COMPONENTS / CLADDING
ZONE 1 = +/- 30 PSF
ZONE 2 = +/- 38 PSF / -53 PSF
ZONE 3 = +/- 3 PSF / -43 PSF



RIDGE DETAIL

SCALE : N.T.S.



PURLIN CONNECTION

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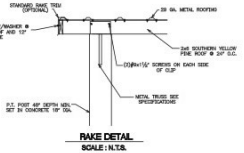
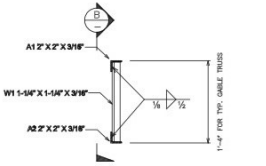


RAKE DETAIL

SCALE : N.T.S.



SECTION

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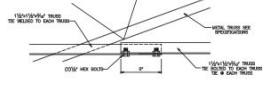

TRUSS TIE CONNECTION

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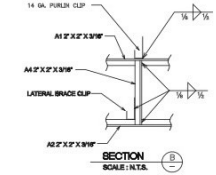

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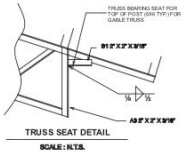

TRUSS SEAT DETAIL

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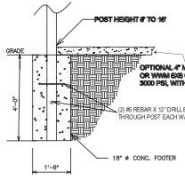

POST/FOUNDATION DETAIL

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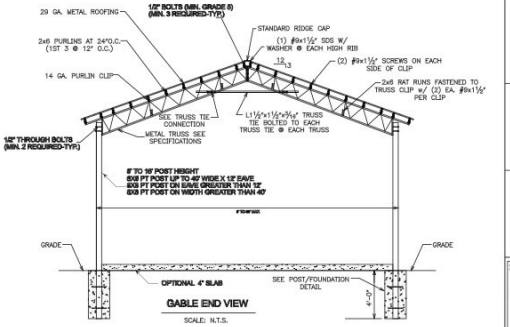

GABLE END VIEW

SCALE: N.T.S.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BUILDING TYPE

BUILDING DIMENSIONS

PROJECT LOCATION/NAME

PROJECT: PROBUILT STRUCTURES

SHEET TITLE: TYPICAL POLE BARN BUILDING

SHEET NO.

1 of 1