

ZONE 3
ZONE 2
ZONE 1

ZONE 1
ZONE 2
ZONE 3

ZONE 1 +/- 10/74
ZONE 2 +/- 23/58
ZONE 3 +/- 41/75

WIND PRESSURE - COMPONENTS & CLADDING

WIND EXPOSURE CATEGORY
☒ A ☐ B ☐ C ☐ D

ULTIMATE & NOMINAL WIND SPEEDS	
ULTIMATE	NOMINAL
120	93
130	101
140	108
150	116
155	120
160	124
170	132
180	139

DESIGN CRITERIA:

FLORIDA BUILDING CODE 2023 8TH ED.
DESIGN LOADS PER ASCE 7-22
DESIGN SPEED - 130 MPH
ROOF LIVE LOAD - 12.5 PSF
DEAD LOAD - 2.5 PSF
WIND RISK CATEGORY - I
EXPOSURE CATEGORY - B
IMPORTANCE FACTOR - 1.0
INTERNAL WIND PRESSURE - +/- 0.18 PSI

POLE BARN SPECIFICATIONS

GABLE WIDTH : 40'
BUILDING LENGTH : 40'
EAVE HEIGHT : 14'
POLE SPACING : 10'
ROOF PITCH : 3:12
RIDGE HEIGHT : 19'-00"
WALLS : OPEN
FLOOR : DIRT
ROOF METAL : 29 GA.
SIDE METAL : NONE
POST SIZE : 8"X 8"
FOOTING SIZE : 24" X 48"
CONCRETE : 3,000 PSI

MAIN BUILDING DIMENSIONS

D-1

BARN WIDTH (FT)	6"X6" POST	8"X8" POST
50	-	48'-8"
40	39'-1"	38'-8"
38	37'-1"	36'-8"
36	35'-1"	34'-8"
34	33'-1"	32'-8"
32	31'-1"	30'-8"
30	29'-1"	28'-8"
28	27'-1"	26'-8"
26	26'-0"	24'-8"
24	23'-1"	22'-8"
22	21'-1"	20'-8"
20	19'-1"	18'-8"
18	17'-1"	16'-8"
15	14'-1"	13'-8"
14	13'-1"	12'-8"
12	11'-1"	10'-8"

MAIN POST HEIGHT (D-3) SIZE CIRCLED OR LESS		OTHER
10'	12'	14'
		16'
		20'

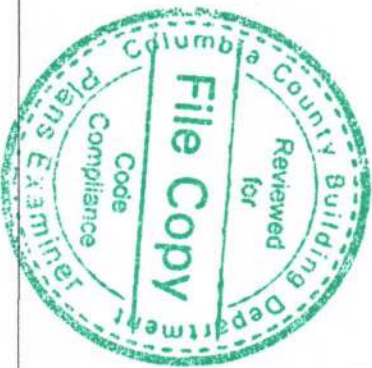
POST SPACING D-2 (FT)	
☐ 9	☒ 10 ☐ 12

POST SIZE	
☐ 6"X6"	☒ 8"X8" ☐ 10"X10"

ROOF PITCH	
3/12	4/12 5/12 6/12

METAL ROOF	
26 GA	29 GA

POST FOOTING SIZE	
F-1	18" DIA. X 48" DEEP
F-2	24" DIA. X 48" DEEP



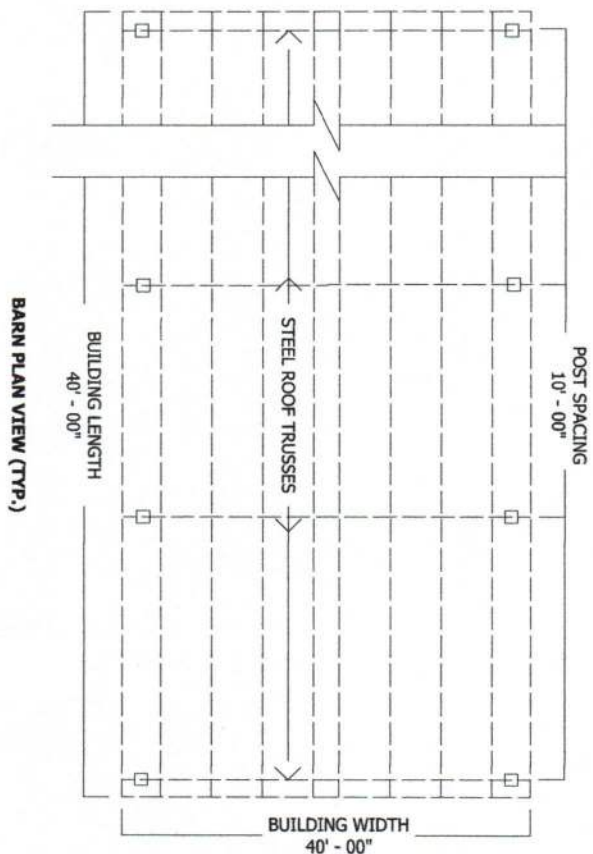
Tomás B
Whitman
2024.04.15
10:23:06 -0400'



MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING
380 NE 15th Ave
Maitland, Florida 32751
Phone 407.873.7004
COA No. 27215 www.madisonengineering.com

NICK FEAGIN (40X40)

DESIGNED TSW
DRAWN DVS
CHECKED TSW
APPROVED TSW
JOB NO.: 38224143
DATE: 10 APRIL 2024

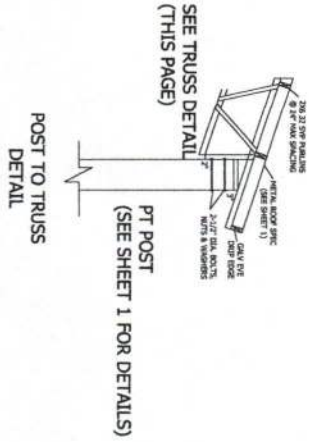


- Tomas B
Whitman**
2024.04.15
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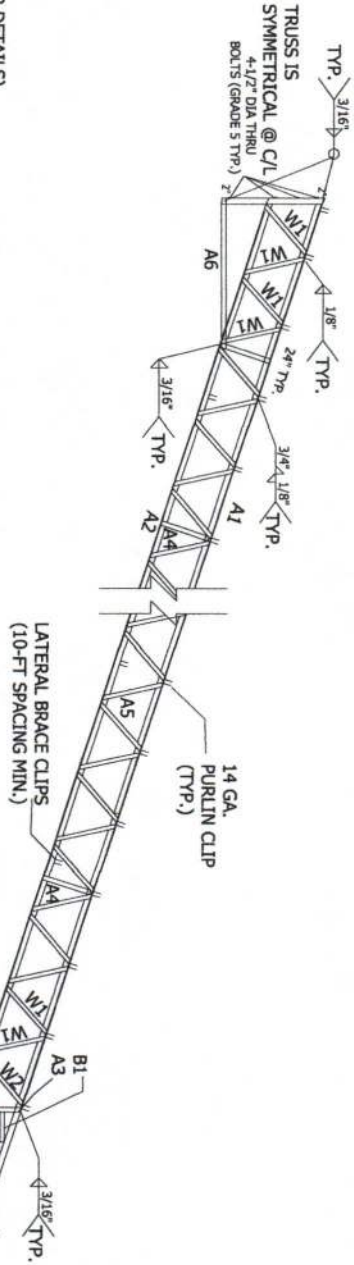




PURLIN CONNECTION
DETAILS



POST TO TRUSS
DETAIL



NOTES: TRUSS CROSS-SECTION

- 1- MATERIALS SHALL CONFORM TO STEEL ASTM 572.
- 2- ALL STEEL SHALL BE 50KSI IN ACCORD WITH CURRENT AISC MANUAL.
- 3- WELDING ELECTRODES SHALL BE TYPE E70XX
- 4- ALL WELDING SHALL BE IN ACCORD WITH CURRENT AWS REQUIREMENTS
- 5- ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.
- 6- BOL TS SHALL BE ASTM A325, W/ NUTS & WASHERS, TYP)
- 7- WELD STRENGTH 70 KSI MIN:
- 8- ALL POST SHALL BE #2 DENSE PRESSURE TREATED GROUND CONTACT.
- 9- PRIMING & PAINTING SHALL BE DONE BY TRUSS MANUFACTURER.
- 10- MIN EDGE DISTANCE FOR BOLTS HOLES SHALL BE 3/4" MIN
- 11- MAX TRUSS SPACING SHALL NOT EXCEED 12'-0" UNO.
- 12- THE DESIGNER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF POOR WORKMANSHIP, OR IMPROPER USE, AND ACCEPTS NO RESPONSIBIL TY OR EXERCISES NO CONTROL WITH REGARD TO FABRICATION, HANDLING, AND INSTALLATION OF TRUSSES.

NOTES:

1. PURLINS SHALL BE 2X6 #2 SYP (MAX SPACE @2'-0" O.C.)
2. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY & PERMANENT CONSTRUCTION BRACING.
3. ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STEEL AND FABRICATION PER AISC STANDARDS.
6. ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
7. TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 50 FEET.
8. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS REQUIREMENTS.
9. TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 50 FEET.
10. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS REQUIREMENTS.
11. ALL POST SHALL BE #2 DENSE PRESSURE TREATED.
12. ALL POST SHALL BE #2 DENSE PRESSURE TREATED.

ITEM NO.	DESCRIPTION	MATERIAL (50 KSI)
A1	TOP CHORD	ASTM 572
A2	BOTTOM CHORD	ASTM 572
A3	VERTICAL CHORD	ASTM 572
A4	VERTICAL CHORD	ASTM 572
A5	TEE	ASTM 572
A6	TEE	ASTM 572
B1	WEB	ASTM 572
B2	BASE	ASTM 572

NOTE: LL = DECKING DOUBLE ANGLES



Tomas B
Whitman
2024.04.15
10:23:46 -0400'



NICK FEAGIN (40X40)



MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

280 NE Ridge Loop
Madison, FL 32606
Phone: 850.975.7884
COA No.: 27216 www.madisonengineering.com

DESIGNED: TFW
DRAWN: DWD
CHECKED: TFW
APPROVED: TFW
JOB NO.: 20240143
DATE: 10 APRIL 2024

ALACHUA COUNTY