

ZONE 1 +/- 19.74
ZONE 2 +/- 29.98
ZONE 3 +/- 41.75

WIND EXPOSURE CATEGORY

X

B

☐

C

☐

D

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"

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 : 30'
BUILDING LENGTH : 48'
EAVE HEIGHT :12'
POLE SPACING :12'
ROOF PITCH : 3:12
RIDGE HEIGHT : 15' - 09"
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 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"

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

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

METAL ROOF

26 GA

29 GA



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Tomas B
Whitman
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CHECKED TBW
APPROVED TBW

MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

269 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
COA No.: 27216 www.madisonengineer.com

DATE: 29 MAY 2024

POLE BARN -A- 30 X 48
ABT TRUSSES

MARY CRAWFORD (30X48)

197 SW CALIFORNIA TERRACE, FORT WHITE, FL 32038

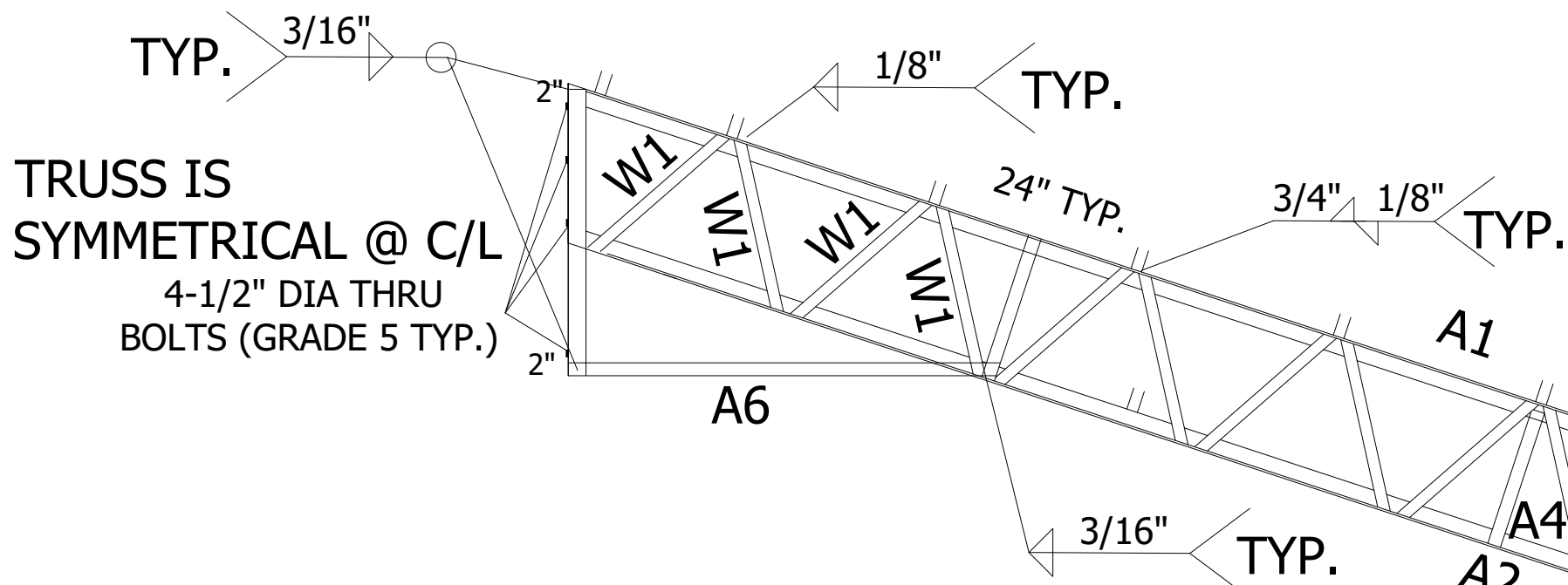
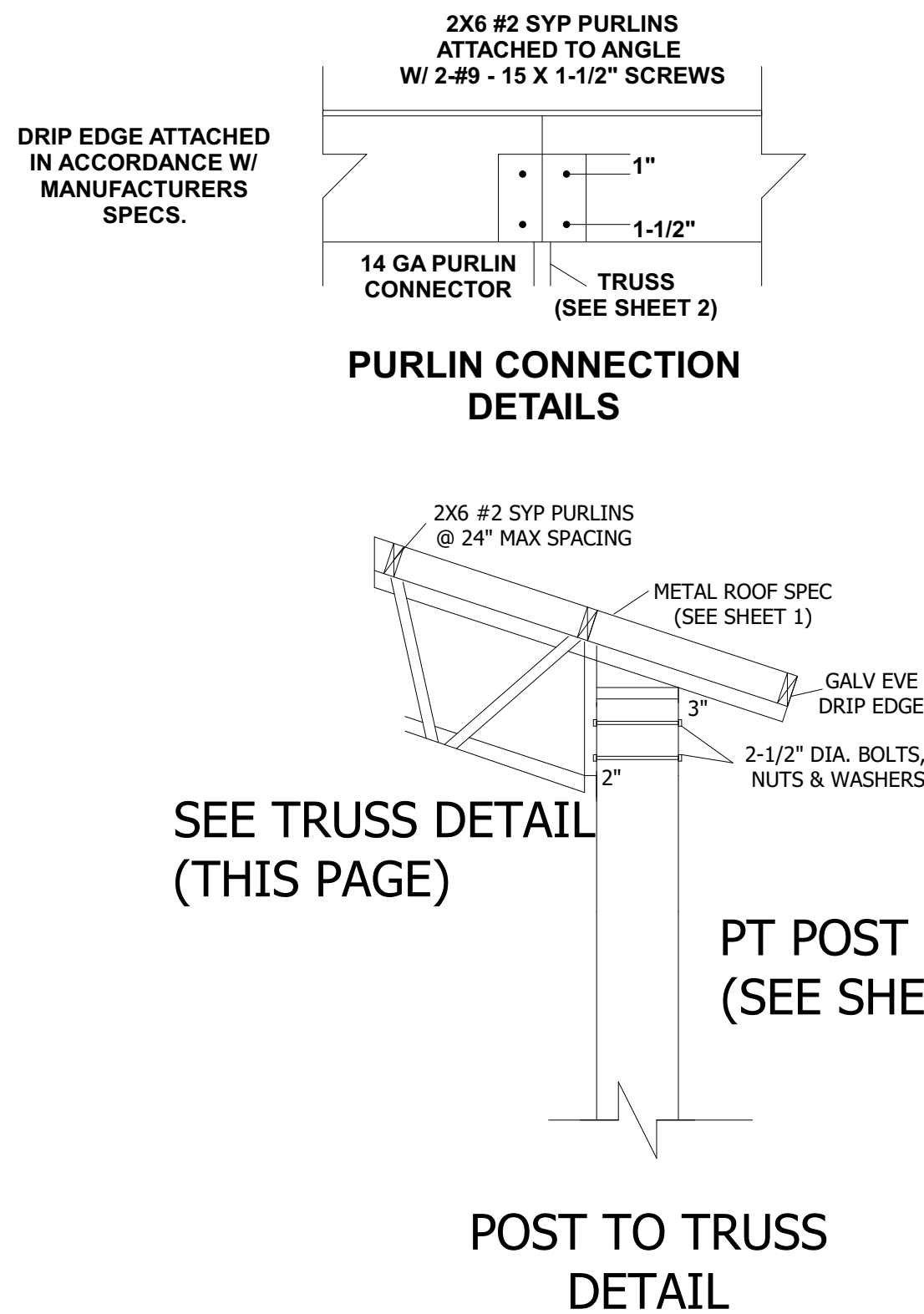
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NEED ONLY BE WITH SIGNED ORIGINAL SIGNATURE AND SEAL OR ELECTRONIC SEAL

T. BRENT WHITMAN, P.E.
FL. P.E. #63178 / GA. P.E. #1031609

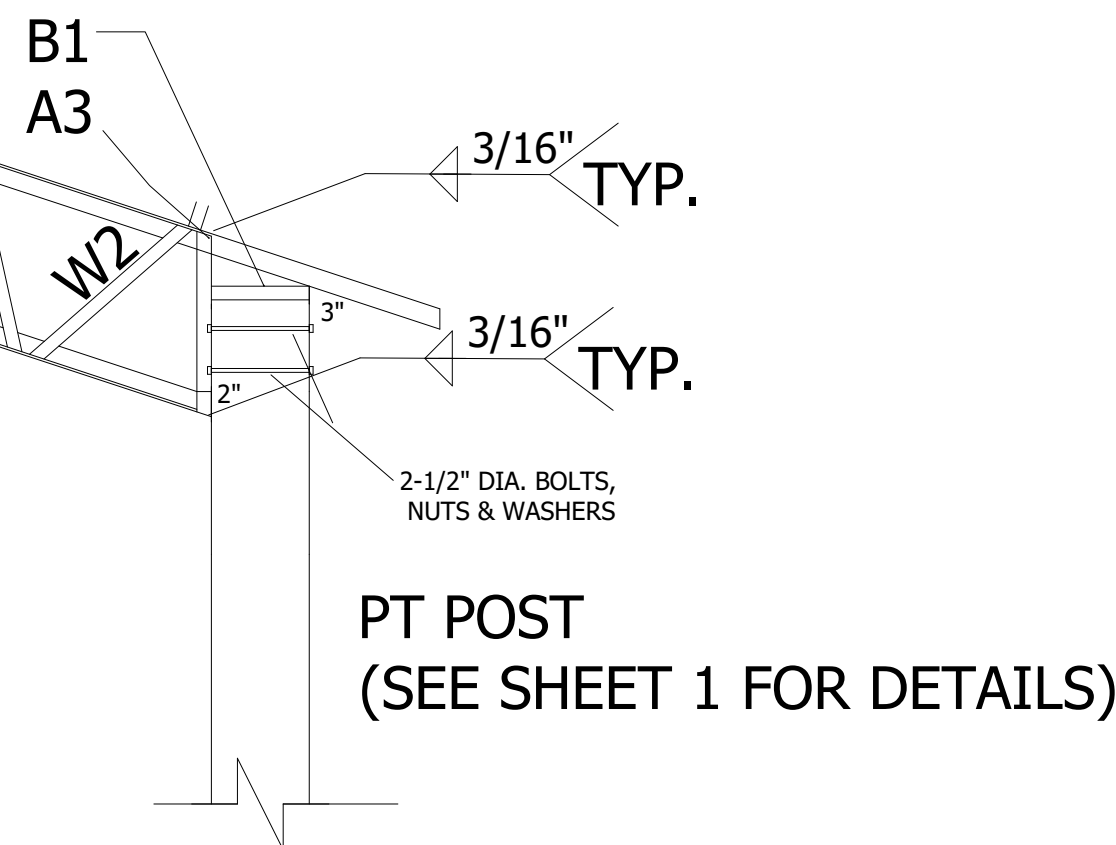
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14 GA. PURLIN CLIP (TYP.)

LATERAL BRACE CLIPS (10-FT SPACING MIN.)



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" O.C.
- 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 DEMINSIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINSIONS ARE TO BE MODIFIED FOR SHORTER TRUSS LENGTHS.
8. ALL FASTNERS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
9. TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 50 FEET.
10. WELDING ELECTRODES SHALL BE E70XX
11. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS REQUIRMENTS.
12. ALL POST SHALL BE #2 DENSE PRESSURE TREATED.

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	MATERIAL (50 KSI)
A1	TOP CHORD	LL 2 X 2 X 3/16* ASTM 572
A2	BOTTOM CHORD	LL 2 X 2 X 3/16* ASTM 572
A3	VERTICAL CHORD	LL 3 X 2 X 3/16* ASTM 572
A4	VERTICAL CHORD	L 1 1/2 X 1 1/2 X 3/16 ASTM 572
A5	TIE	L 2 X 2 X 3/16 ASTM 572
A6	TIE	L 2 X 2 X 3/16 ASTM 572
W1	WEB	L 1-1/4 X 1-1/4 X 3/16 ASTM 572
W2	WEB	L 1-1/4 X 1-1/4 X 3/16 ASTM 572
B1	BASE	LL 2 X 2 X 3/16* ASTM 572

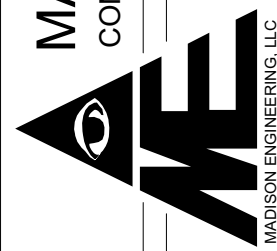
NOTE: LL * DENOTES DOUBLE ANGELS



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SHEET NO.

3

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APPROVED TBW
JOB NO.: 35224162
DATE: 29 MAY 2024

COLUMBIA COUNTY