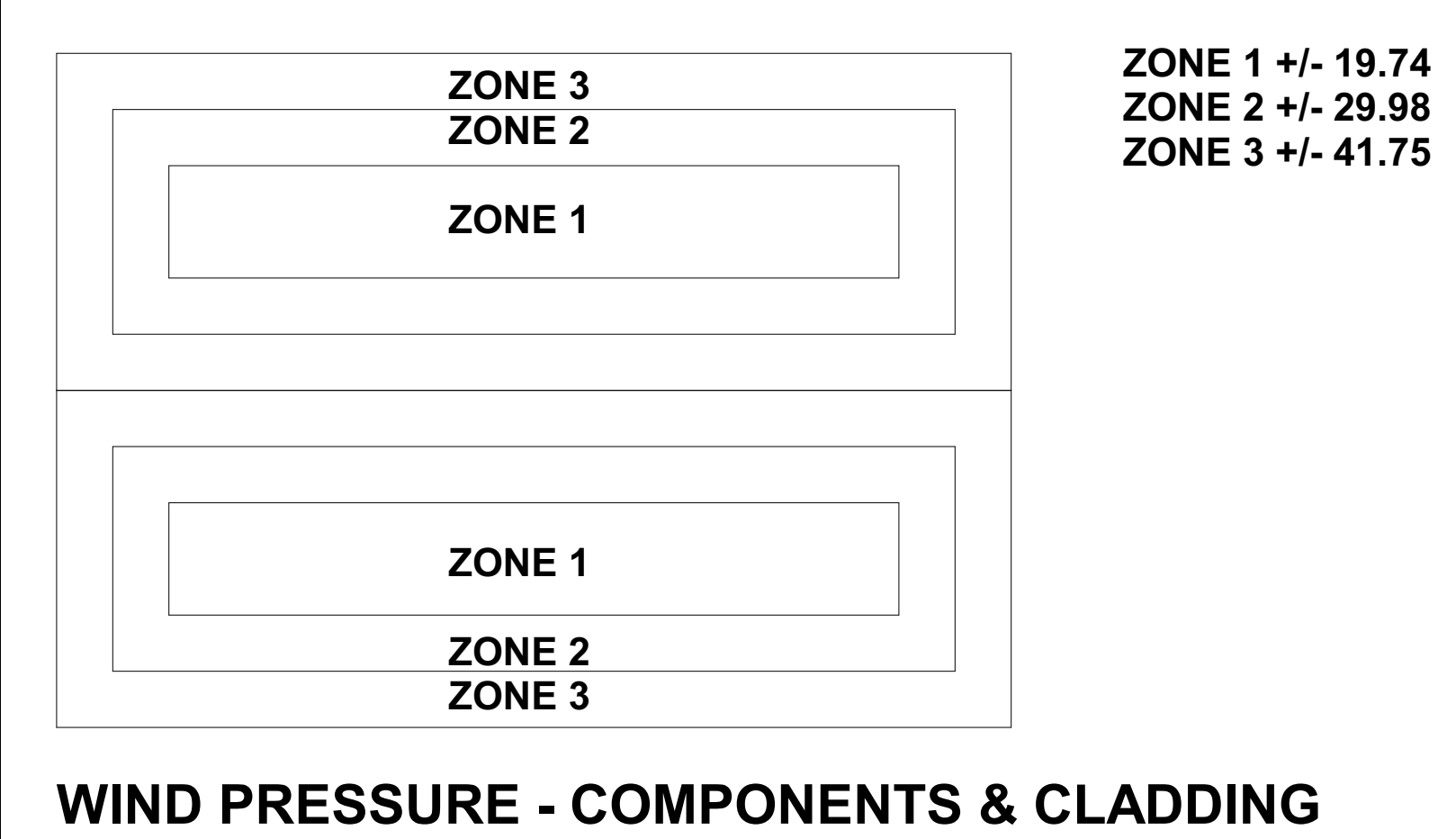




ZONE 1 +/- 19.74
ZONE 2 +/- 29.98
ZONE 3 +/- 41.75

WIND EXPOSURE CATEGORY

X

B

C

D

MAIN BUILDING DIMENSIONS D-1		
BARN WIDTH (FT)	6"X6" POST	8"X8" POST
50	-	48'-8"
44	43'-1"	42'-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	25'-1"	24'-8"
24	23'-1"	22'-8"
22	21'-1"	20'-8"
20	19'-1"	18'-8"
18	17'-1"	16'-8"
16	15'-1"	14'-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 2020 7TH ED.
DESIGN LOADS PER ASCE 7-16
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 : 44'
BUILDING LENGTH : 36'
EAVE HEIGHT : 12'
POLE SPACING : 12'
ROOF PITCH : 3:12
WALLS : OPEN
FLOOR : DIRT
ROOF METAL : 29 GA.
SIDE METAL : NONE
POST SIZE : 8"X8"
FOOTING SIZE : 24"X48"
CONCRETE : 3,000 PSI

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

POST SPACING D-2 (FT)

8

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

4/14

5/12

6/12

METAL ROOF

26 GA

29 GA



T. BRENT WHITMAN
LICENSE
No. 63178
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Tomas B. Whitman, PE
MADISON ENGINEERING
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Tomas B Whitman
2023.07.25
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DESIGNED TBW
DRAWN DVD
CHECKED TBW
APPROVED TBW
JOB NO.: 35232319
DATE: JULY 2023

MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING
269 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
COA No.: 27216 www.madisonengineer.com

MADISON ENGINEERING, LLC

POLE BARN - A-44 X 36
ABT TRUSSES

BOB NICHOL (44X36)

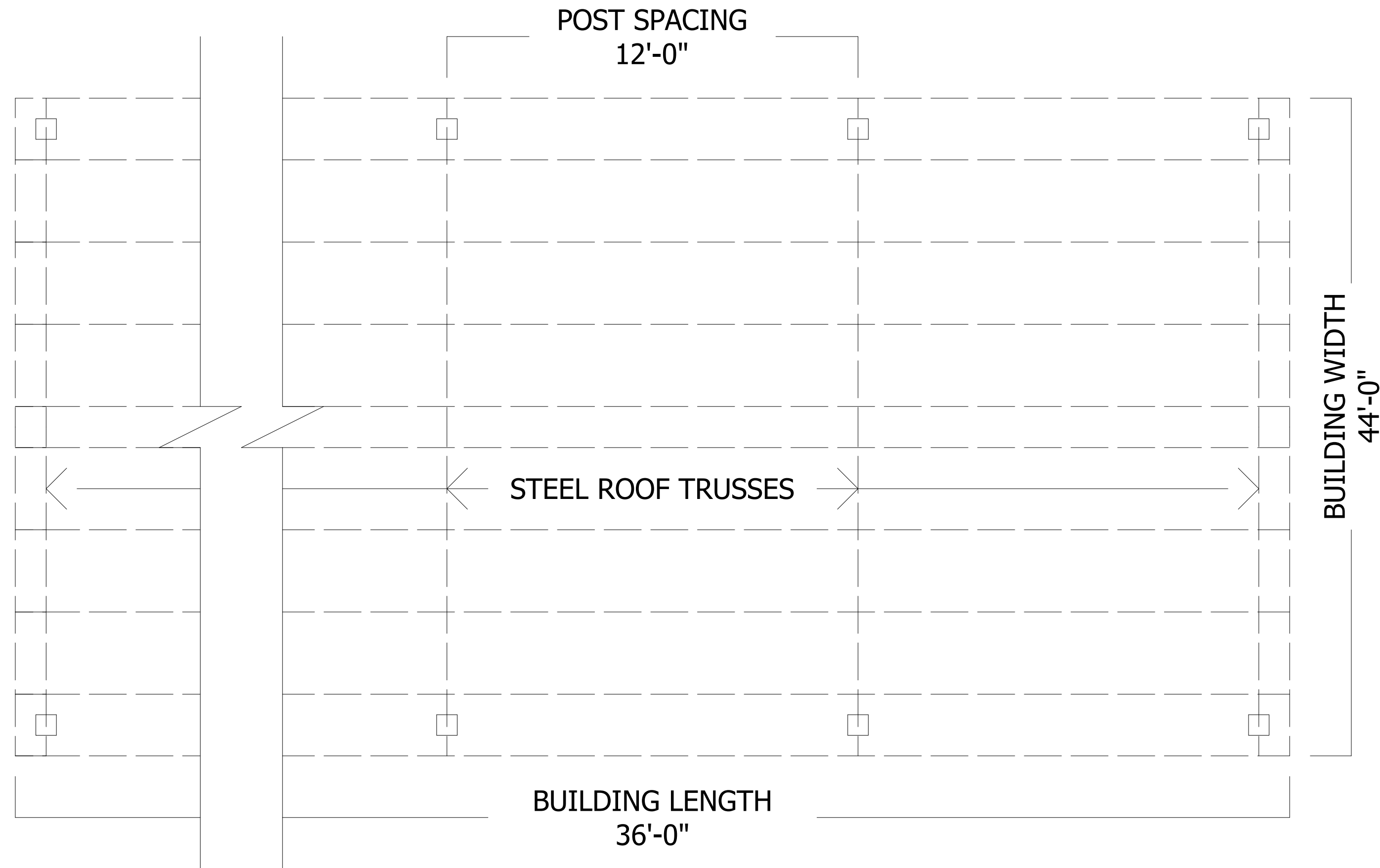
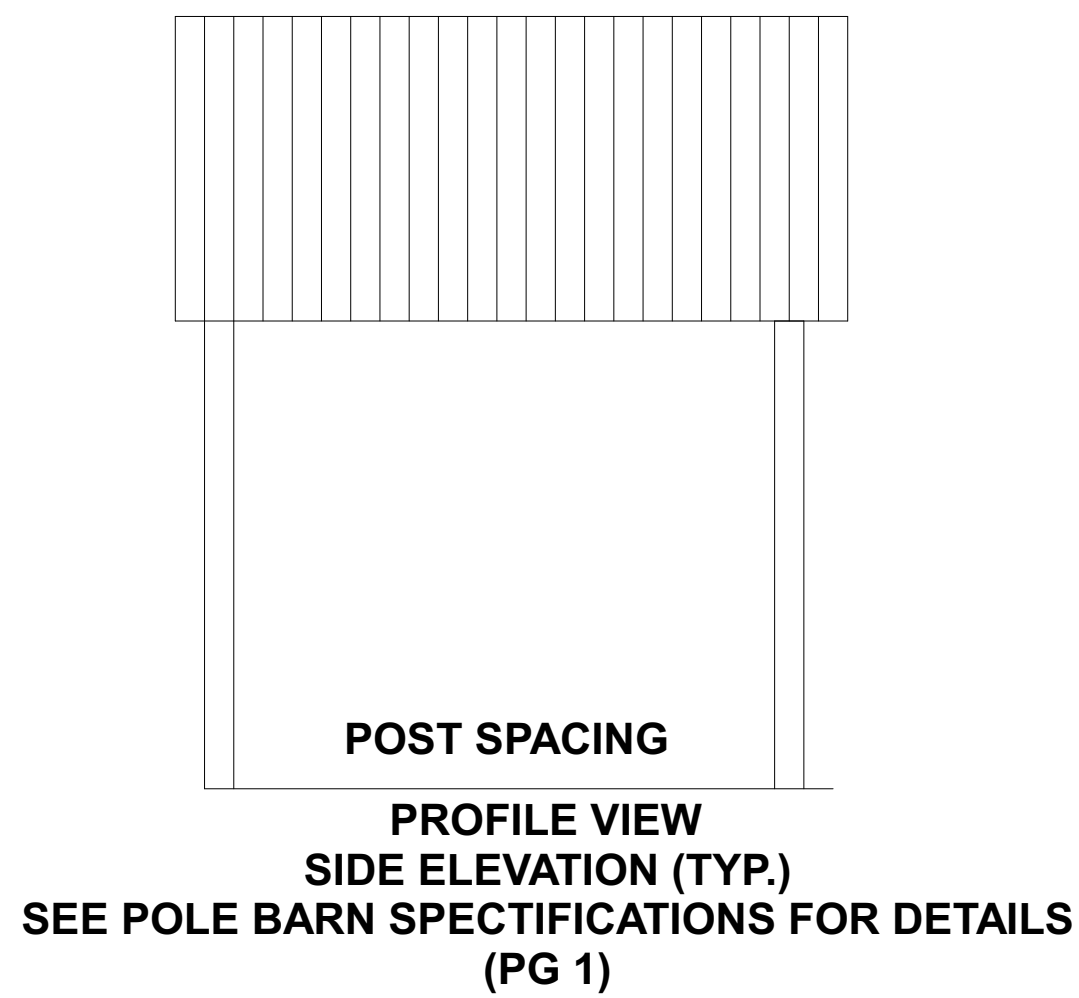
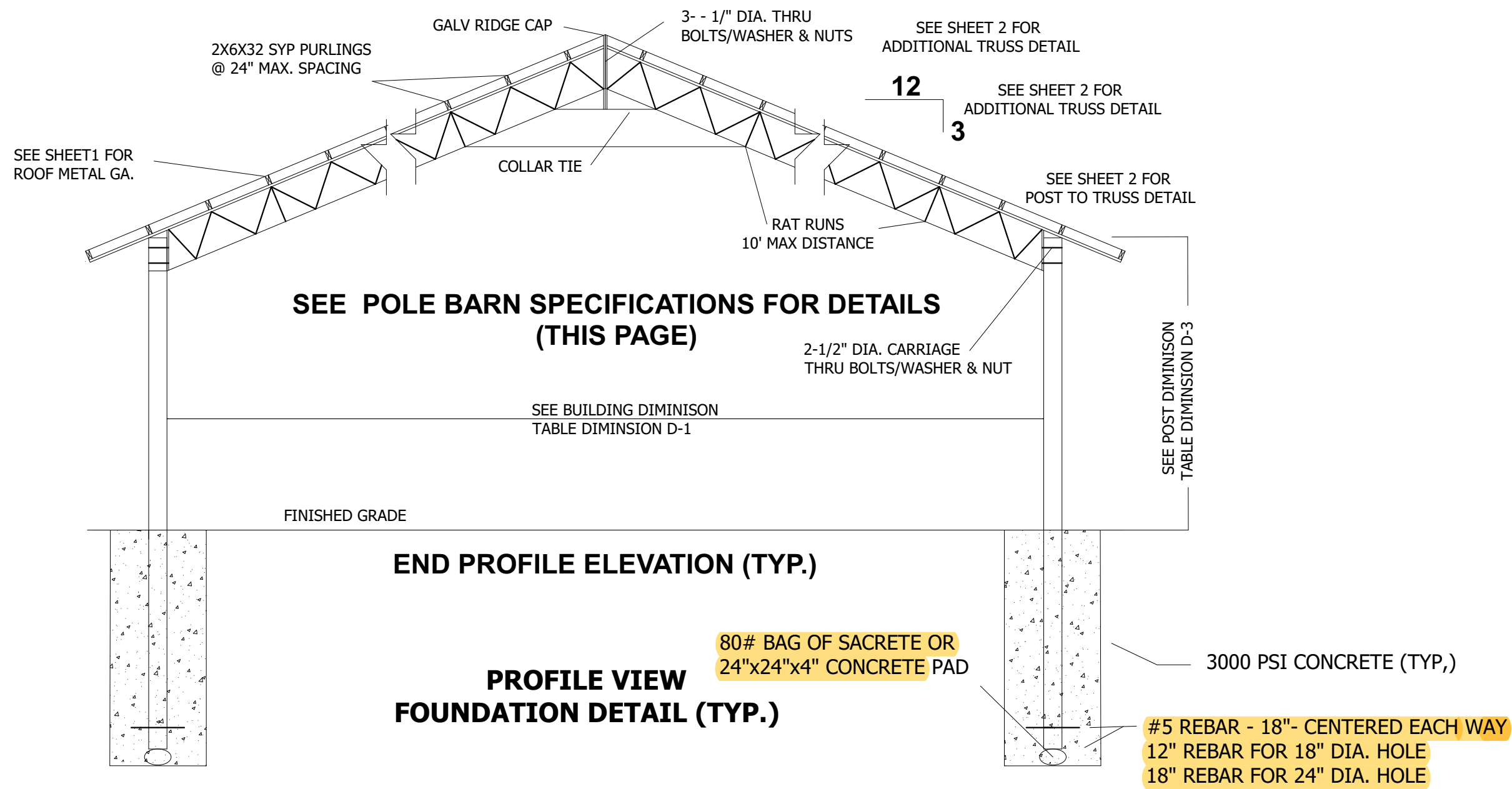
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T. BRENT WHITMAN, P.E.
FL. P.E. #63178 / GA. P.E. #103169

SHEET NO.

1



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 25 FEET.
10. CONCRETE WORK SHALL CONFORM TO 'BUILDING CODE REQUIRMENTS FOR REINFORCED CONCRETE' (ACI-318).
11. ALL CONCRETE SHALL BE 3000 PSI MIN. W/ WWF OR FIBER
12. FL PRODUCT APPROVAL CODE METAL FL-31804.
13. FL PRODUCT APPROVAL CODE ROOF SYSTEM 4595.15.

T. BRENT WHITMAN

LICENSE

No. 63178

STATE OF FLORIDA

PROFESSIONAL ENGINEER

T. BRENT WHITMAN, P.E.

MADISON ENGINEERING

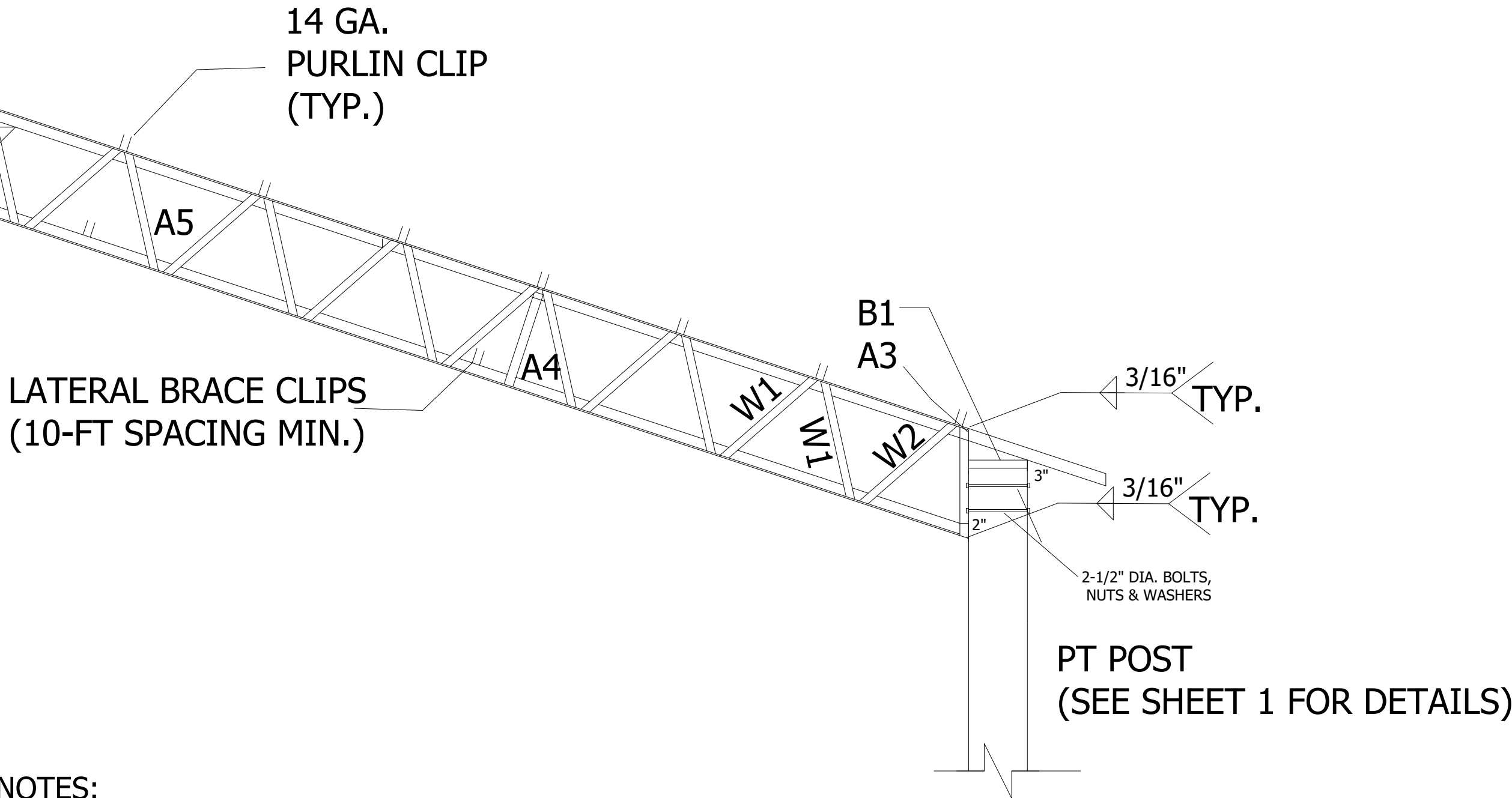
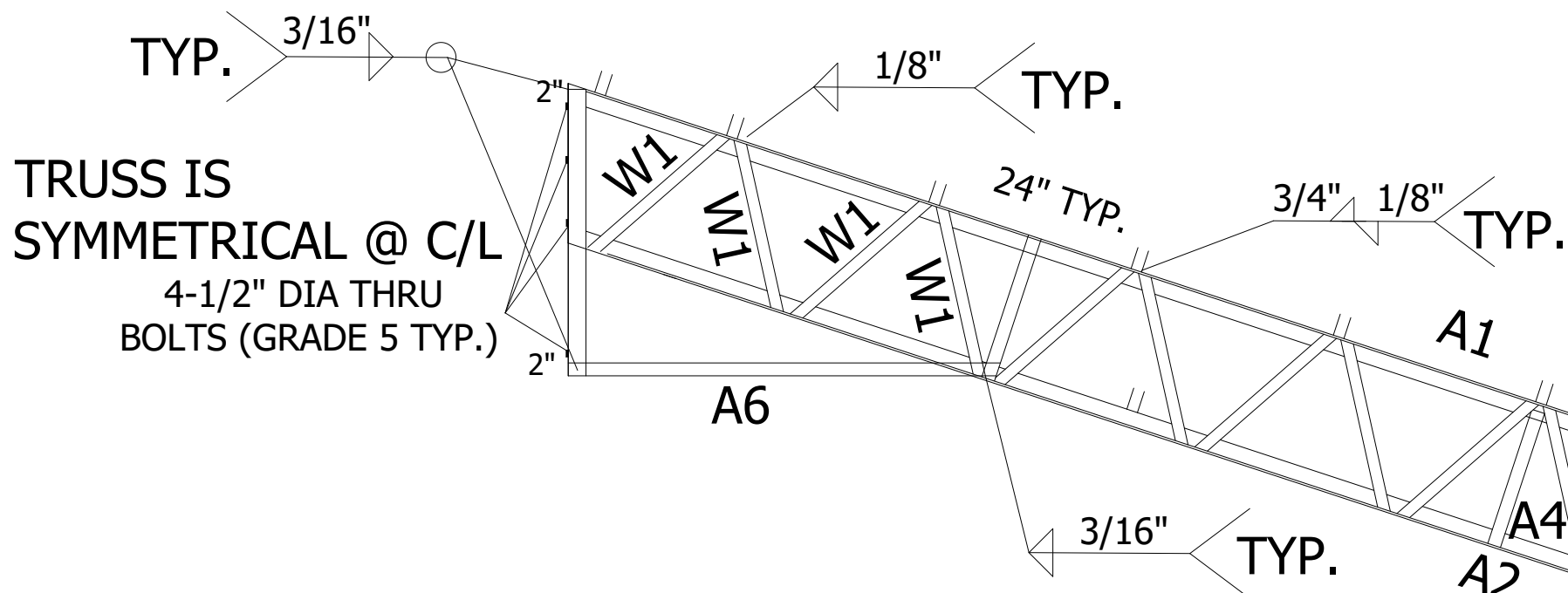
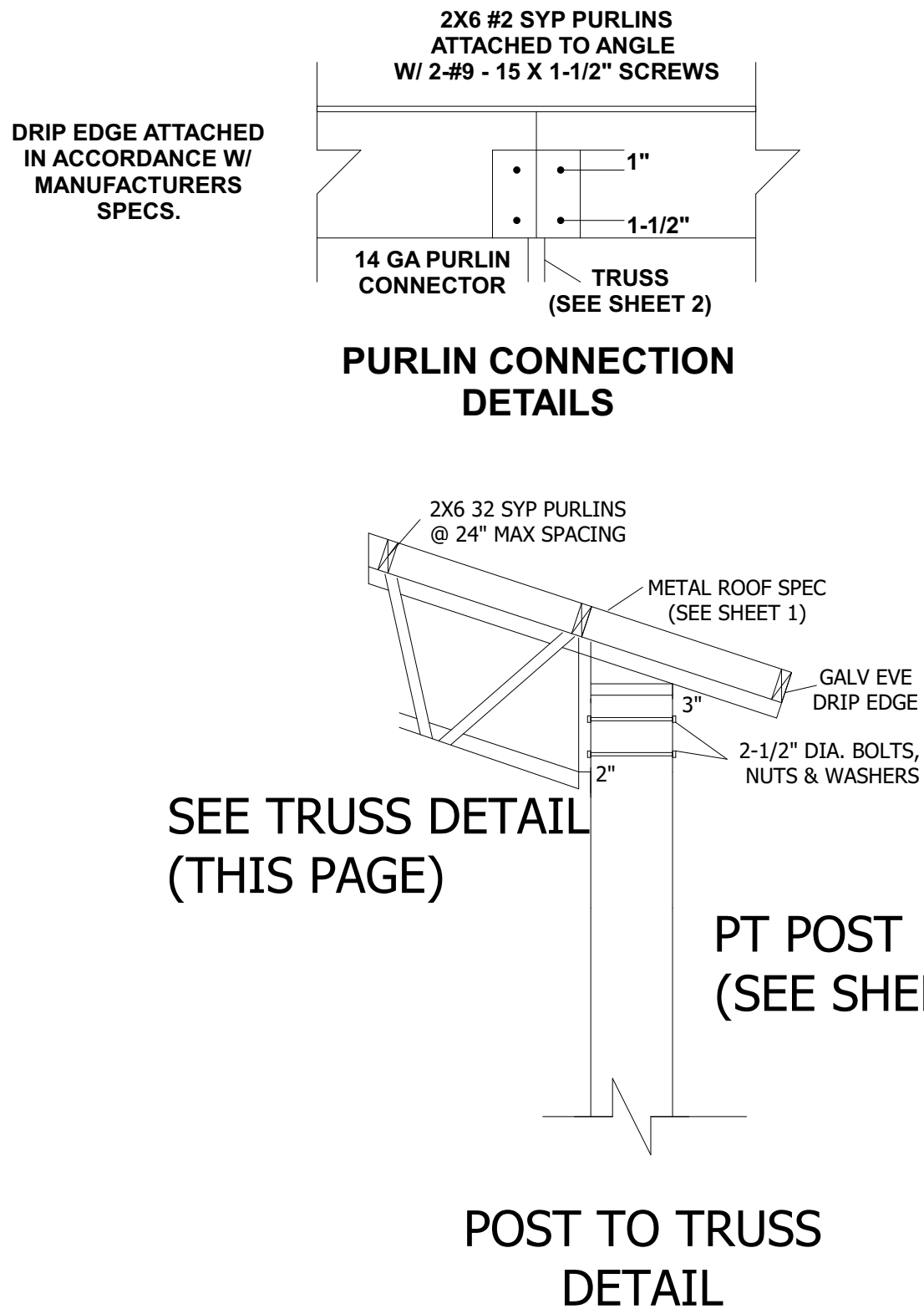
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Tomas B Whitman

2023.07.25

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DESIGNED TBW	DVD	CHECKED TBW	APPROVED TBW	JOB NO.: 35232319	DATE: JULY 2023
DRAWN					
MADISON ENGINEERING, LLC					
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING					
269 NE Ridge Loop					
Madison, Florida 32340					
Phone 850.973.7864					
COA No.: 27216 www.madisonengineer.com					
COLUMBIA COUNTY					
POLE BARN -A- 44 X 36					
ABT TRUSSES					
BOB NICHOL (44X36)					
217 SW DRAGONELY CT, LAKE CITY, FL 32024					
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T. BRENT WHITMAN, P.E.					
FL P.E. #63178 / GA. P.E. #031609					
SHEET NO.					
2					



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 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

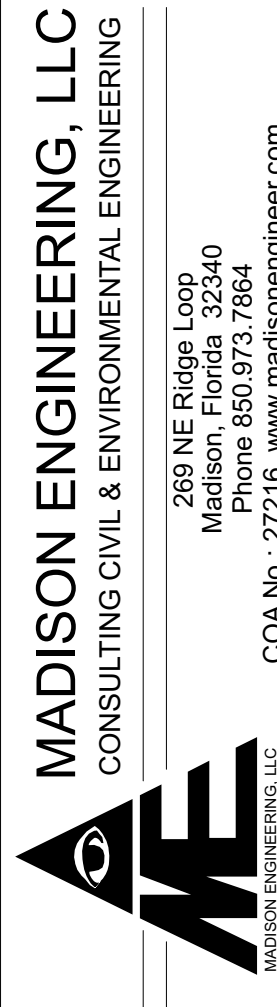
ITEM NO.	DESCRIPTION	MATERIAL (50 KSI)
A1	TOP CHORD	LL 2 X 2 X 3/16* ASTM 572
A2	BOTTOM CHORD	LL 2 X 2 X 3/16* ASTM 572
A3	VERTICAL CHORD	LL 3 X 2 X 3/16* ASTM 572
A4	VERTICAL CHORD	L 1 1/2 X 1 1/2 X 3/16 ASTM 572
A5	TIE	L 2 X 2 X 3/16 ASTM 572
A6	TIE	L 2 X 2 X 3/16 ASTM 572
W1	WEB	L 1-1/4 X 1-1/4 X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



Tomas B. Whitman, PE
MADISON ENGINEERING
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BOB NICHOL (44X36)

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SHEET NO.

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