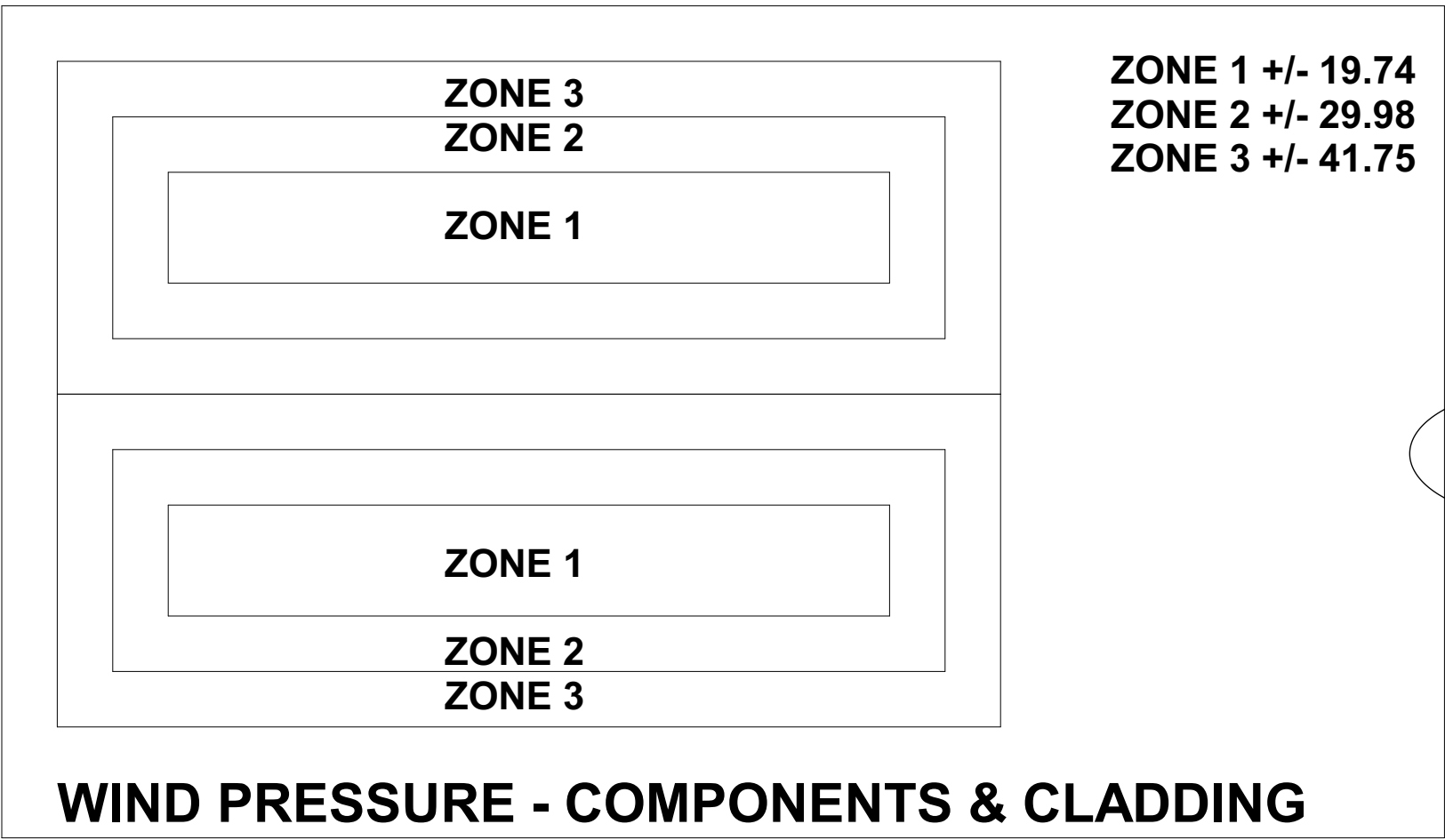




ZONE 1 +/- 19.74
ZONE 2 +/- 29.98
ZONE 3 +/- 41.75

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

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 : 40'
BUILDING LENGTH : 60'
EAVE HEIGHT : 16'
POLE SPACING : 12'
ROOF PITCH : 3:12
WALLS : OPEN
FLOOR : DIRT
ROOF METAL : 29 GA.
SIDE METAL : NONE
POST SIZE : 8"X8" PT
FOOTING SIZE : 24"X48"
CONCRETE : 3,000 PSI

WIND EXPOSURE CATEGORY

☒ A

☐ 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	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"

MAIN POST HEIGHT (D-3) SIZE CIRCLED OR LESS				OTHER
10'	12'	14'	16'	8'

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

DESIGNED	TBW
DRAWN	DVD
CHECKED	TBW
APPROVED	TBW
JOB NO.	35222172
DATE	JUNE 2022

MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

269 NE Ridge Loop
Madison, Florida 32340
www.madisonengineer.com

COA No. 27216

POLE BARN A - 40X60
ABT TRUSSES

Kevin Kennington (40X60)

468 SE Holly Terrace, Lake City FL 32055

T. BRENT WHITMAN, P.E.
FL P.E. #63178 / GA. P.E. #031609

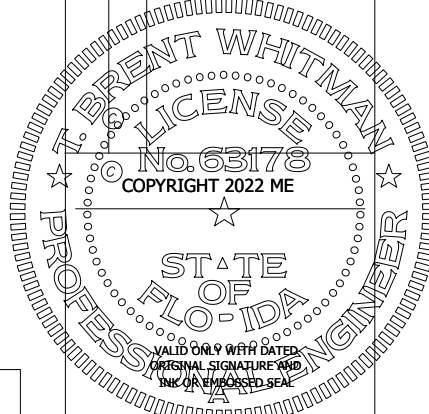
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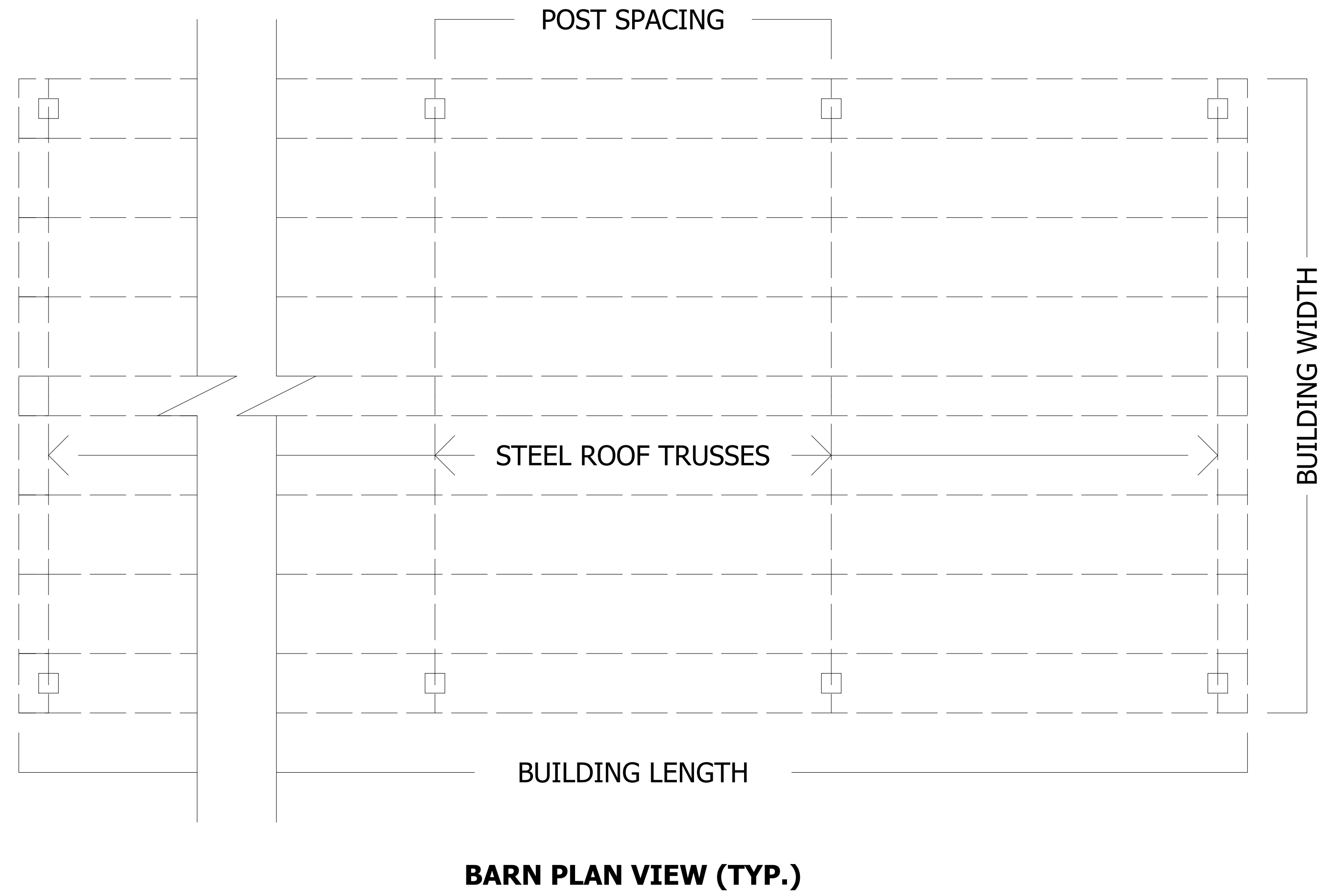
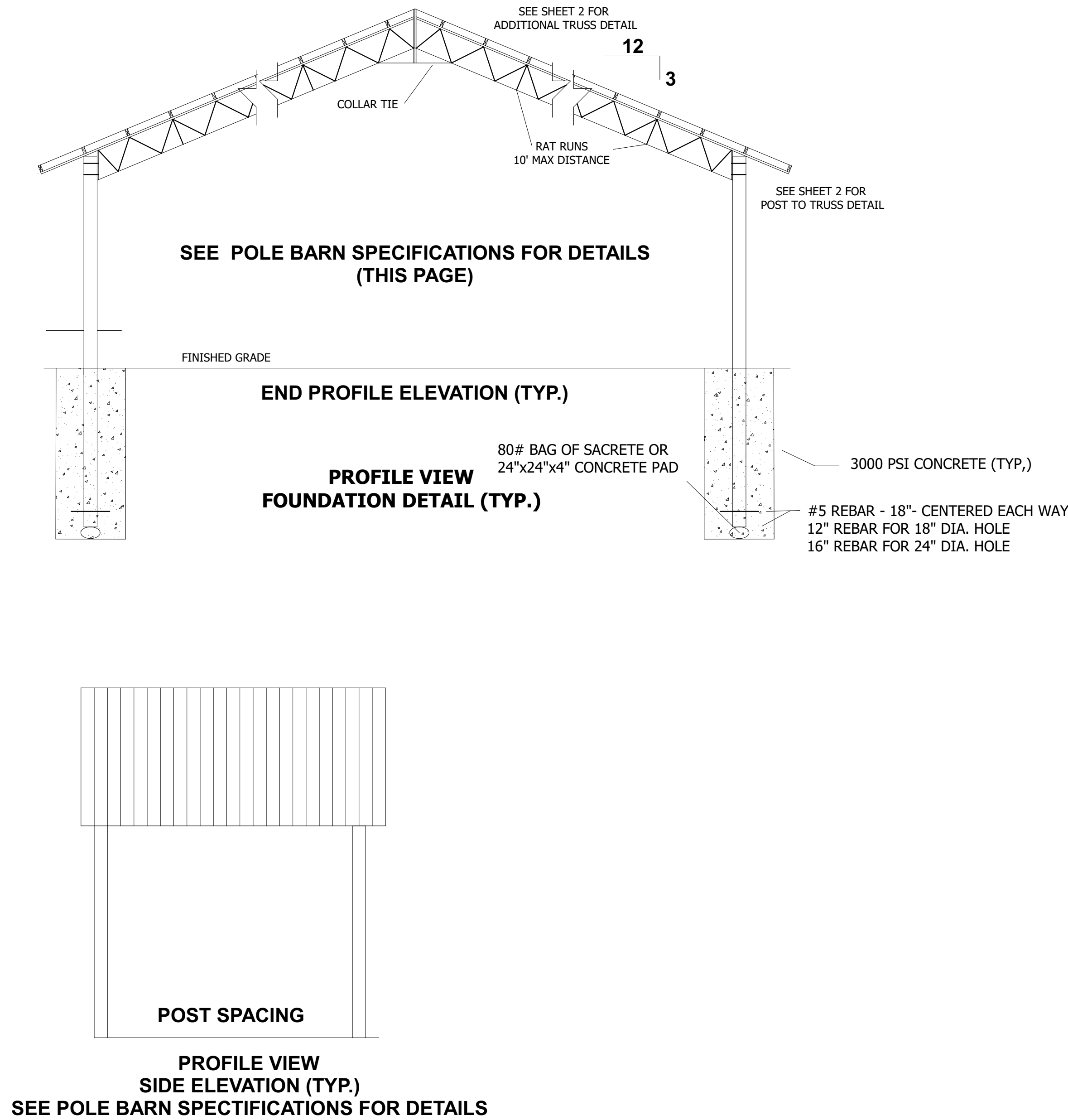
1



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Tomas B Whitman
2022.06.14
14:11:40 -04'00'





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



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Tomas B Whitman

2022.06.14

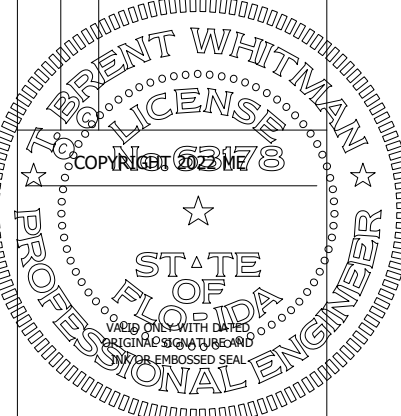
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DESIGNED	TBW	DVD	COLUMBIA COUNTY
DRAWN	TBW	CHECKED	TBW
APPROVED	TBW	JOB NO.	35222172
DATE: JUNE 2022		COA No. 27216 www.madisonengineer.com	

POLE BARN A - 40X60
ABT TRUSSES

Kevin Kennington (40X60)

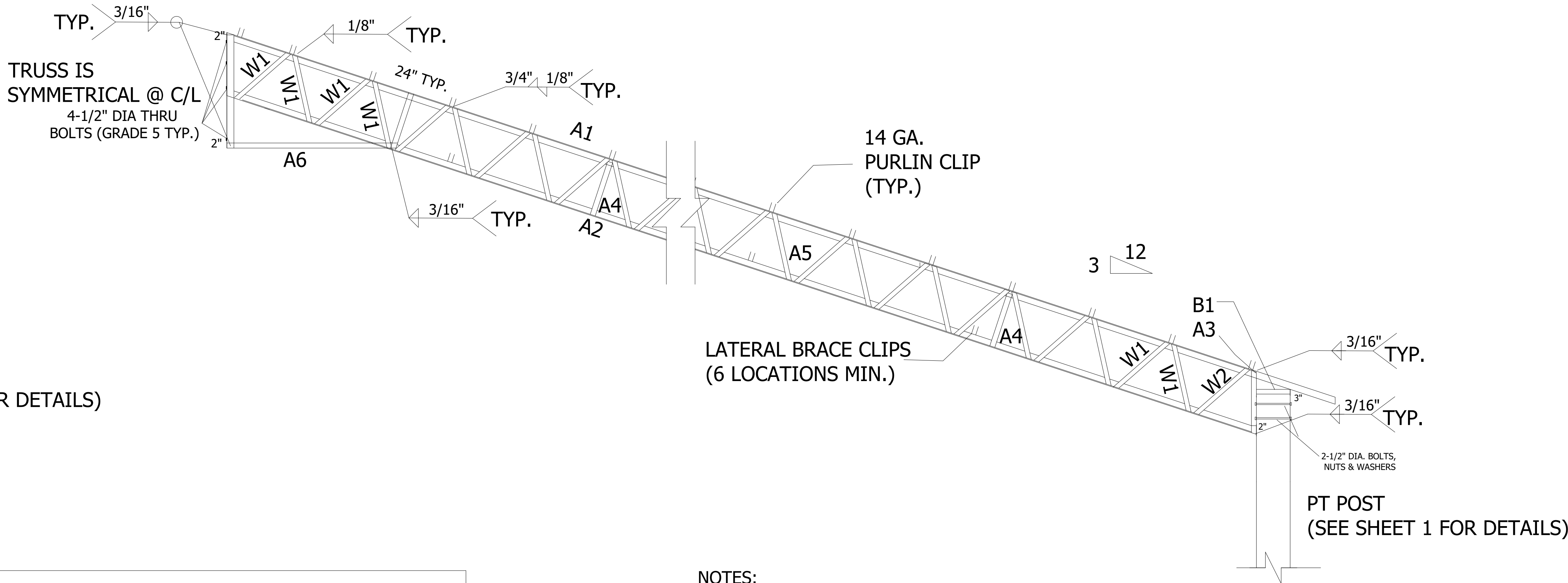
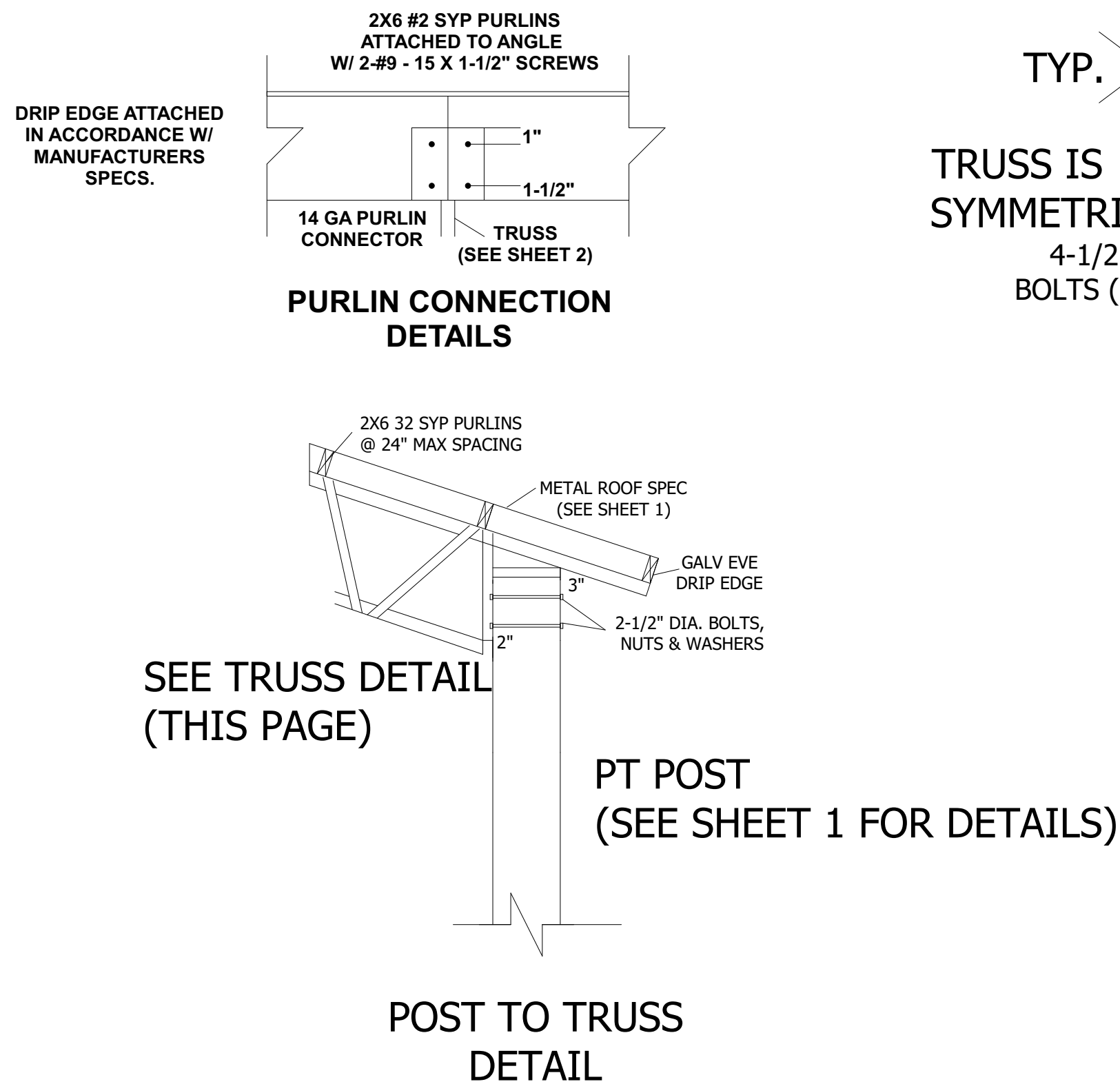
469 SE Holly Terrace, Lake City FL 32055



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 DISCLAMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF POOR WORKMANSHIP, OR IMPROPER USE, AND ACCEPTS NO RESPONSIBIL TY OR EXERCISES NO CONTROL WITH REGUARD TO FABRICATION, HANDLING, AND INSTALLATION OF TRUSSES.

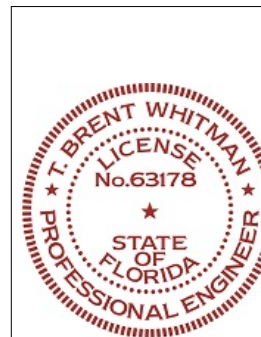
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8. ALL FASTNERS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
9. TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 50 FEET.
10. WELDING ELECTRODES SHALL BE E70XX
11. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS REQUIRMENTS.
12. ALL POST SHALL 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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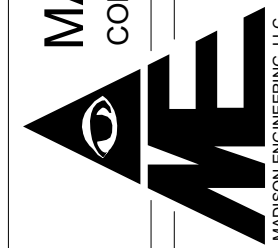
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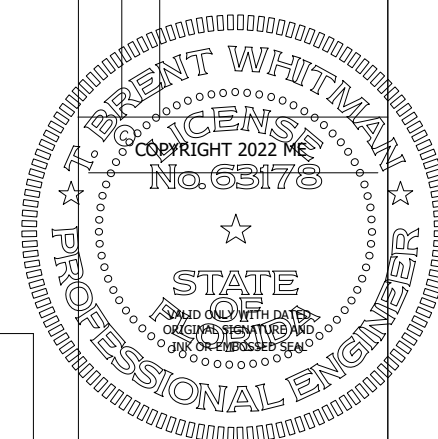


269 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7664
Fax 850.973.7664
www.madisonengineer.com

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DESIGNED TBW
DRAWN DVD
CHECKED TBW
APPROVED TBW
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DATE: JUNE 2022

COLUMBIA COUNTY



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FL. P.E. #63178 / GA. P.E. #031609

SHEET NO.

3