

WIND EXPOSURE CATEGORY

☒ B

☐ C

☐ D

MAIN BUILDING DIMENSIONS		
D-1		
BARN	6"X6"	8"X8"
WIDTH (FT)	POST	POST
32	31' - 01"	30 - 08"

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

POST SPACING (FT)

☐ 8

☐ 10

☒ 12

LEAN BUILDING DIMENSIONS		
D-4		
LEAN	6"X6"	8"X8"
WIDTH (FT)	POST	POST
14	13'-6 ^{1/2"}	13'-6 ^{1/2"}

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

LEAN POST HEIGHT (D-6)				
SIZE CIRCLED OR LESS				
8'	10'	12'	14'	16'

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

LEAN BLD ROOF PITCH (a)			
1/12			

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

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

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

POLE BARN SPECIFICATIONS

GABLE WIDTH (D-1): 32'
BUILDING LENGTH (D-2): 50'
EAVE HEIGHT (D-3): 14'
POLE SPACING: 10'
GABLE WIDTH LEAN TO (D-4): 14'
LENGTH OF LEAN TO (D-5): 20'
EAVE HEIGHT OF LEAN TO (D-6): 12'
ROOF PITCH: 3:12
ROOF RISE LEAN TO: 1:12
RIDGE HEIGHT : 18' - 00"
WALLS: OPEN
FLOOR: DIRT
ROOF METAL: 29 GA.
SIDE METAL: N/A
POST SIZE BARN: 8"x8" PT
POST SIZE LEAN TO: 8"x8" PT
FOOTING SIZE BARN: 24"X48"
FOOTING SIZE LEAN: 24"X48"
CONCRETE : 3,000 PSI



Tomas B. Whitman, PE
MADISON ENGINEERING
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DRAWN DVD
CHECKED TBW
APPROVED TBW
JOB NO.: 35225147
DATE: 17 APRIL 2025

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POLE BARN - B - 32 X 50
A&T TRUSS

CARMEN FAVORITO (32X50)

170 SW JERICHO GLEN, LAKE CITY, FL 32024

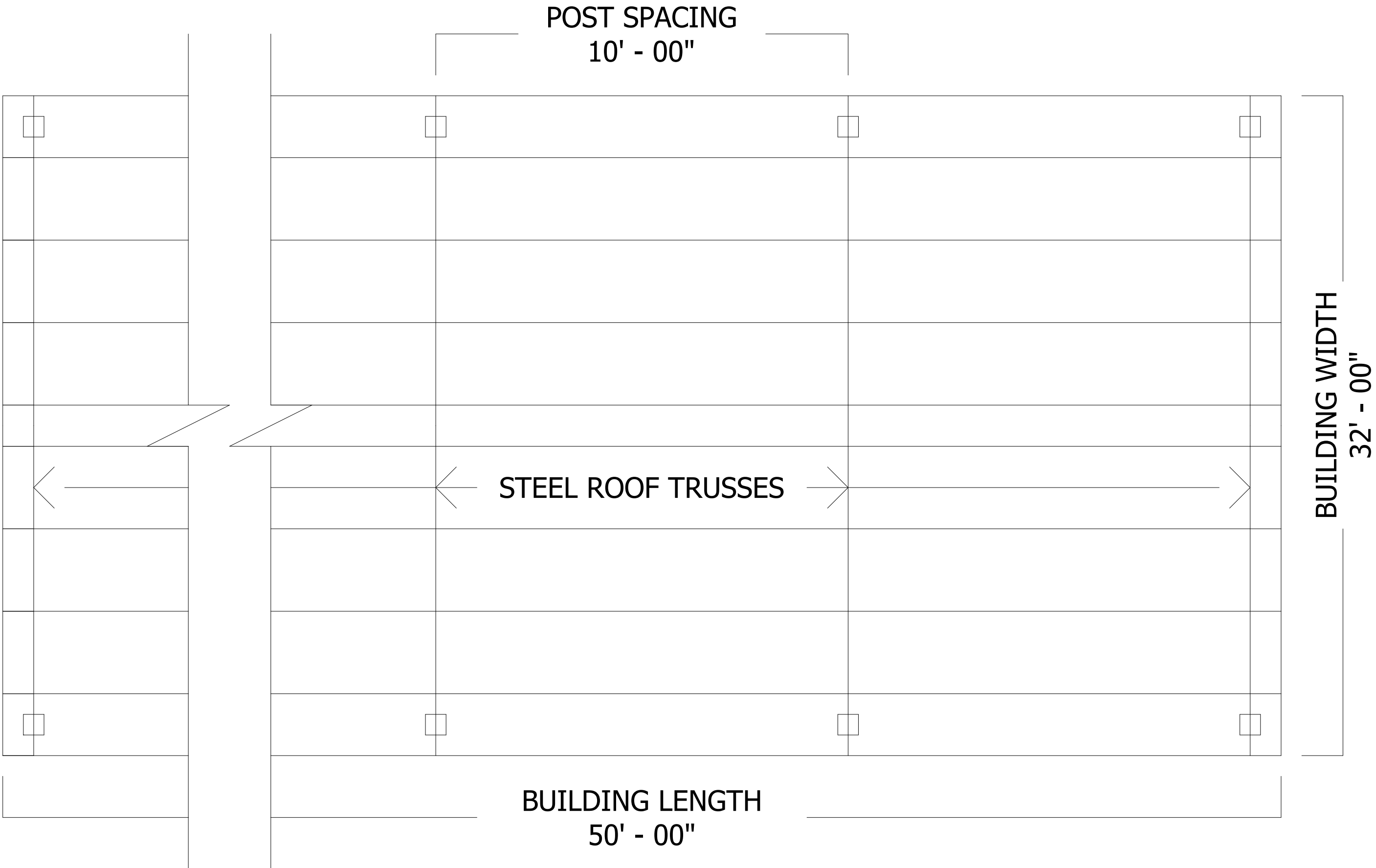
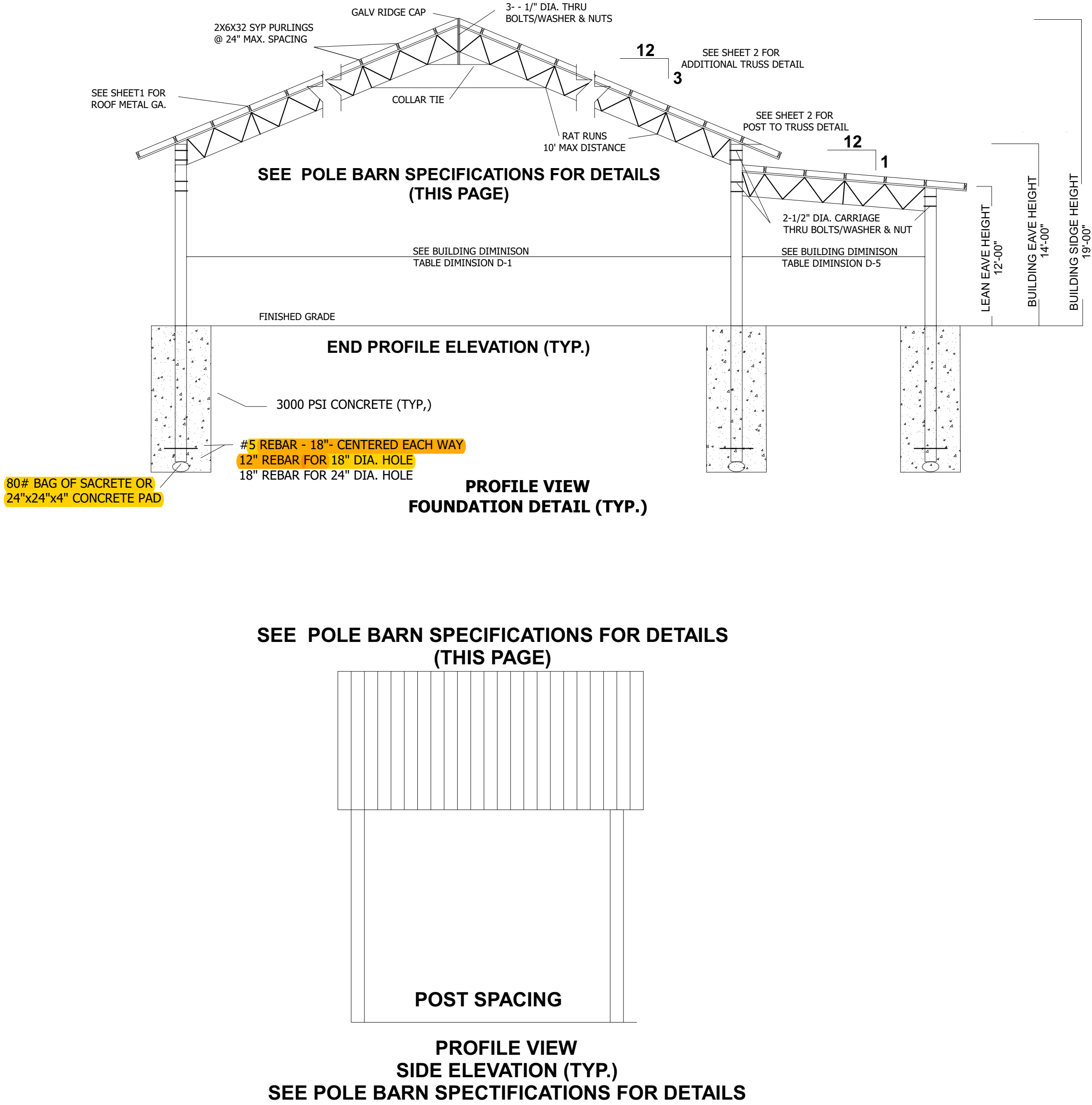
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T. BRENT WHITMAN, P.E.
FL. P.E. #63178 / GA. P.E. #031609

SHEET NO.

1



BARN PLAN VIEW (TYP.)

NOTES:

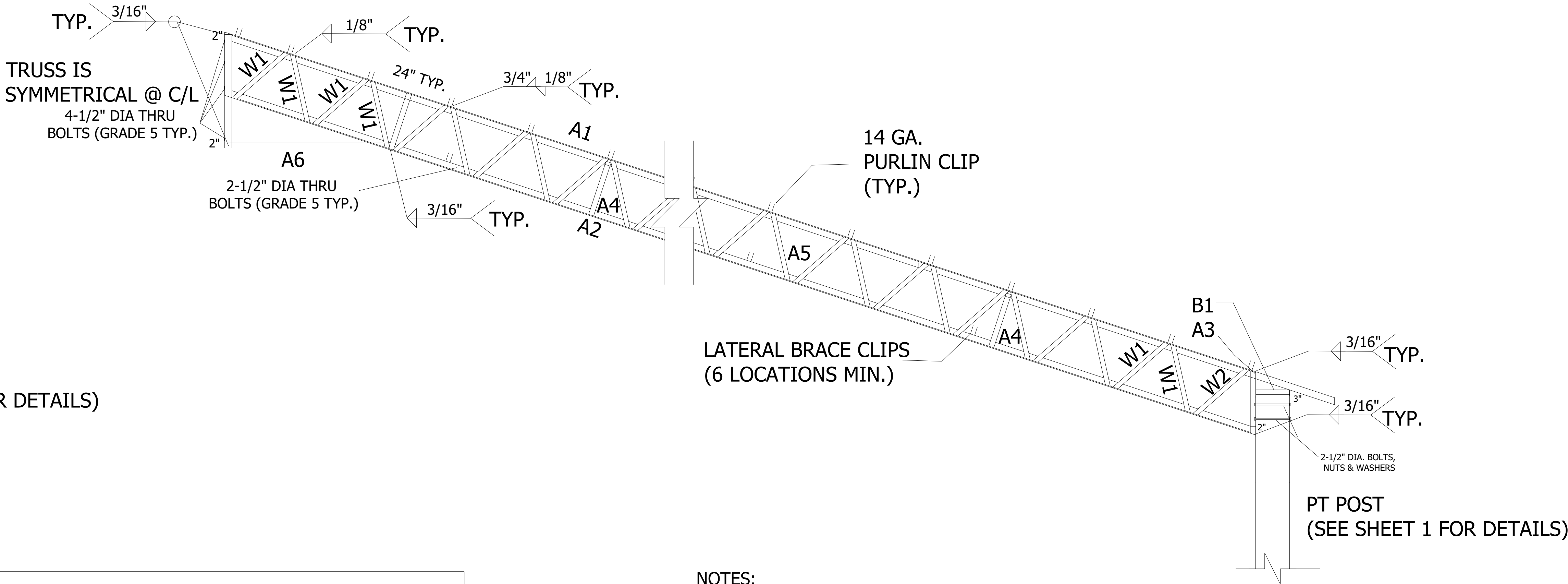
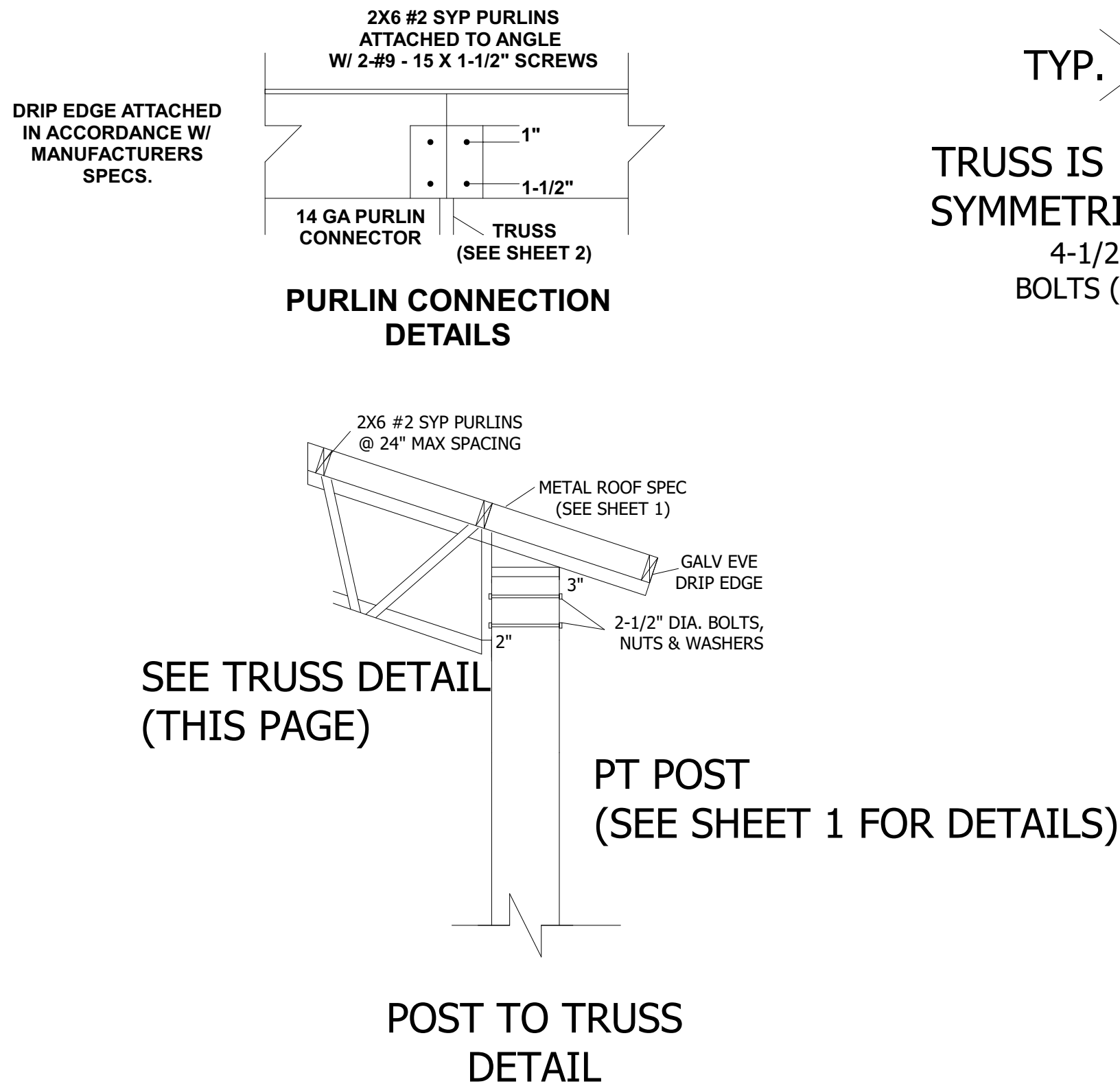
1. PURLINS SHALL BE 2X6 #2 SYP (MAX SPACE @2'-0" O.C.)
2. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY & PERMANENT CONSTRUCTION BRACING.
3. ALL DEMINSIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINSIONS ARE TO BE MODIFIED 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 ROOF SYSTEM 36904.1



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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" OC.
- 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 REGARD TO FABRICATION, HANDLING, AND INSTALLATION OF TRUSSES.

NOTES:

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5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
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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*
A2	BOTTOM CHORD	LL 2 X 2 X 3/16*
A3	VERTICAL CHORD	LL 2 X 2 X 3/16*
A4	VERTICAL CHORD	L 1 1/2 X 1 1/2 X 3/16
A5	TIE	L 2 X 2 X 3/16
A6	TIE	L 2 X 2 X 3/16
W1	WEB	L 1-1/4 X 1-1/4 X 3/16
W2	WEB	L 1-1/4 X 1-1/4 X 3/16
B1	BASE	LL 2 X 2 X 3/16*

NOTE: LL * DENOTES DOUBLE ANGELS



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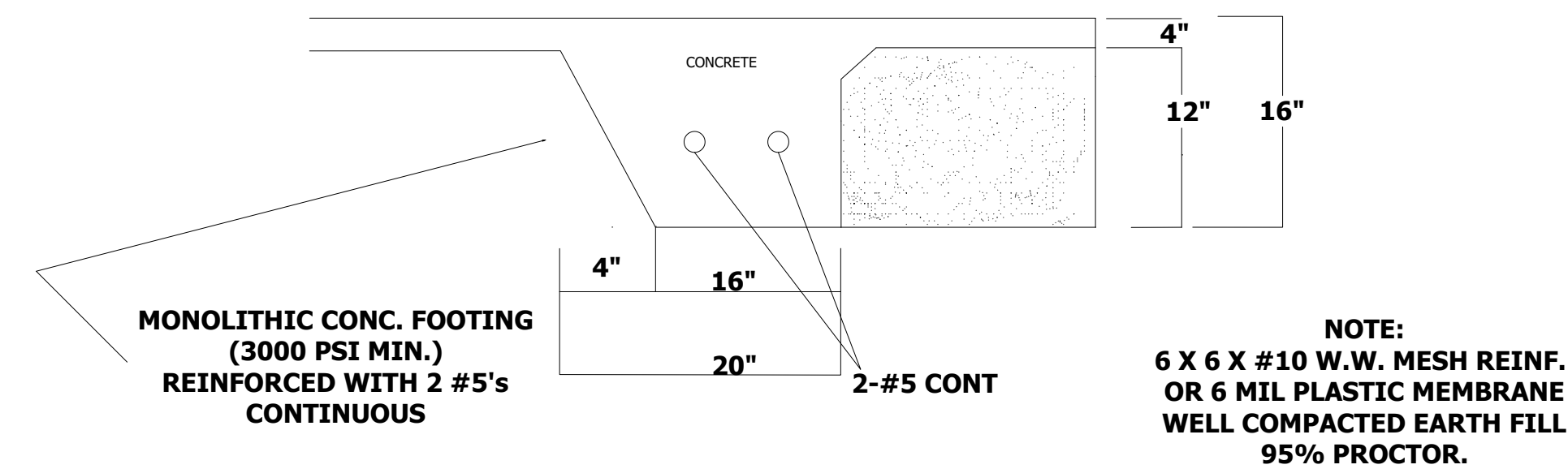
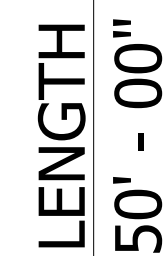
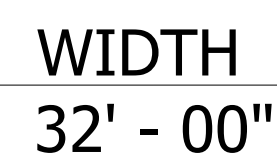
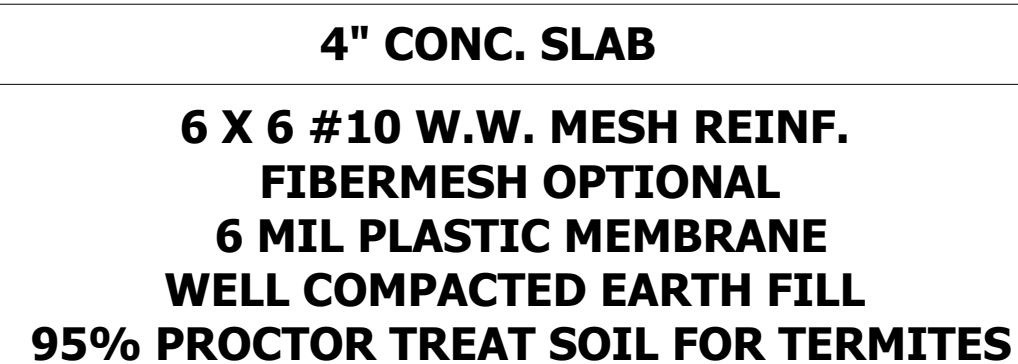
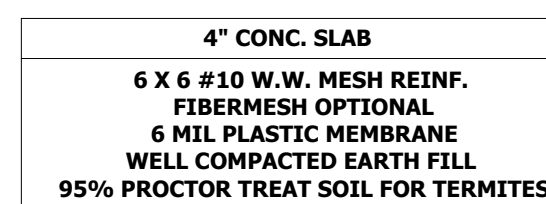
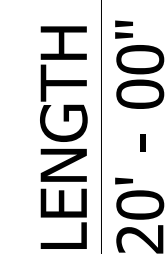
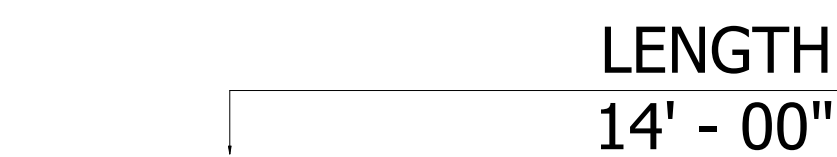
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POLE BARN - B - 32 X 50
ATT TRUSS

CARMEN FAVORITO (32X50)

170 SW JERICHO GLN, LAKE CITY, FL 32024



CONCRETE:

CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. COVER OVER REINFORCING STEEL FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2" ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4" FOR FINE GROUT OR 1/2" FOR COURSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER.

REINFORCING STEEL:

THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

GALVANIZATION:

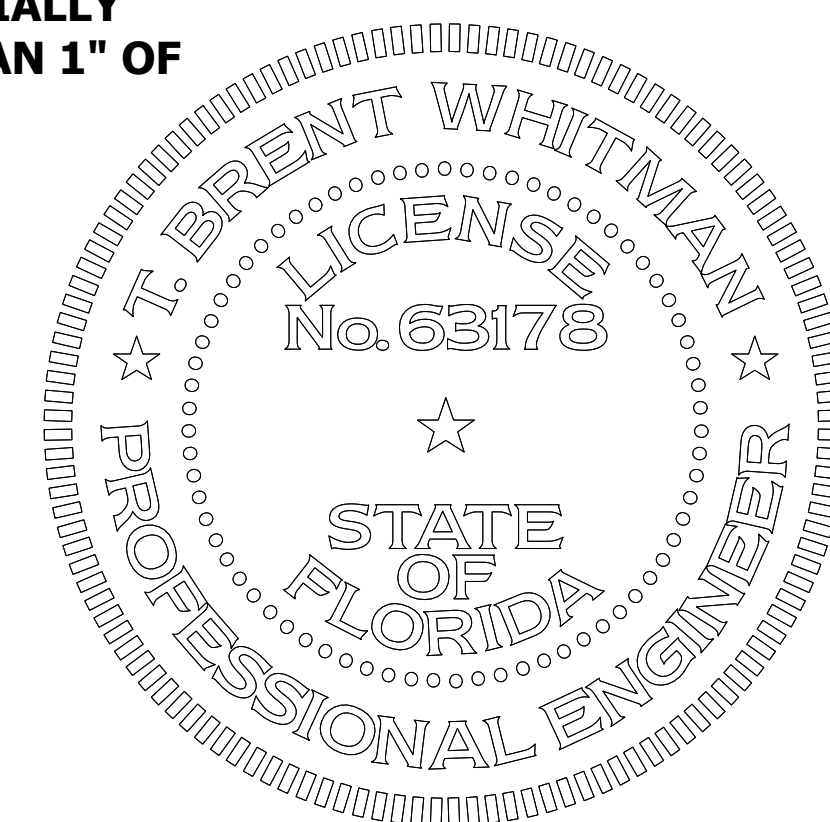
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE IN STAINLESS STEEL OR HOT DIPPED GALVANIZED.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- 1. ALL REINFORCEMENT IS BENT COLD**
- 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN 6-BAR DIAMETERS AND**
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.**

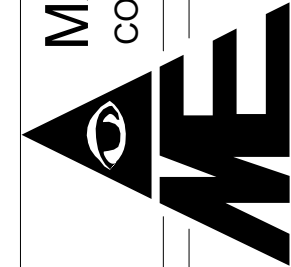
EXCEPTION:

WHERE BENDING IS NECESSARY TO ALIGN BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE NOT MORE THAN 1" OF THE HORIZONTAL DISPLACEMENT TO 6" OF VERTICAL BAR LENGTH.



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ABT TRUSSES

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