

ZONE 3

ZONE 2

ZONE 1

ZONE 1

ZONE 2

ZONE 3

WIND PRESSURE - COMPONENTS & CLADDING

WIND EXPOSURE CATEGORY

☒ X

☐ B

☐ C

☐ D

LEAN BUILDING DIMENSIONS

D-5

LEAN WIDTH (FT)	6"X6" POST	10"X10" POST
24	23'-6"	22'-8"
22	21'-6"	20'-8"
20	19'-6"	18'-8"
18	17'-1"	16'-8"
16	15'-1"	14'-8"
14	13'-1"	12'-8"
☒ 12	☒ 11'-6 ^{1/2"}	10'-8"
10	9'-1"	8'-8"
8	7'-1"	6'-8"

ULTIMATE & NOMINAL WIND SPEEDS

ULTIMATE	NOMINAL
120	93
☒ 130	☒ 101
140	108
150	116
155	120
160	124

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 : 12'

BUILDING LENGTH : 62'

EAVE HEIGHT : 12'

POLE SPACING : 6@10' & 1@12"

ROOF PITCH : 1:12

WALLS : OPEN

FLOOR : DIRT

ROOF METAL : 29 GA.

SIDE METAL : NONE

POST SIZE : 6"X6" PT

FOOTING SIZE : 18"X48"

CONCRETE : 3,000 PSI

LEAN POST HEIGHT (D-6)

SIZE CIRCLED OR LESS

OTHER

10'	☒ 12'	14'	16'	
-----	---	-----	-----	--

POST SPACING D-2 (FT)

☐ 8	☒ 10	☒ 12
----------------------------	--	--

POST SIZE

☒ 6"X6"	☐ 8"X8"	☐ 12"X12"
---	--------------------------------	----------------------------------

POST FOOTING SIZE

F-1	☒ 18" DIA. X 48" DEEP
F-2	32" DIA. X 48" DEEP

ROOF PITCH

☒ 1:12	4/14	5/12	6/12
--	------	------	------

METAL ROOF

☒ 26 GA	29 GA
---	-------

Columbia County Building Department

Plans Reviewed for Code Compliance

State of Florida

T. BRENT WHITMAN

LICENSE No. 63178

05 MARCH 2024

STATE OF FLORIDA

PROFESSIONAL ENGINEER

TOMAS B WHITMAN

2024.11.13

11:27:27 -05'00'

DESIGNED TBW
DRAWN DVD
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

POLE BARN B - 12 X 62 LT
ABT TRUSSES

ANITA NAPIER (12X62)

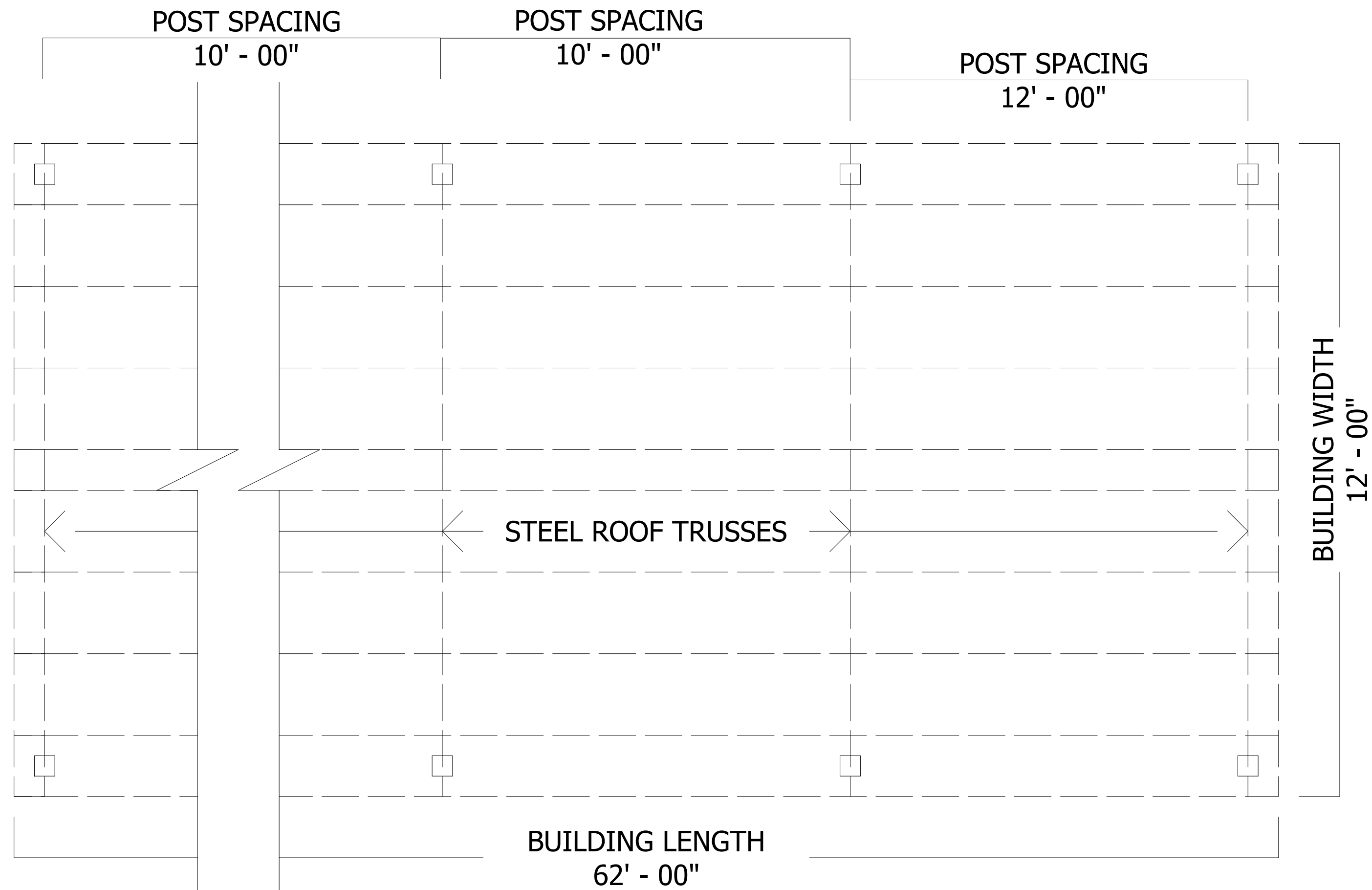
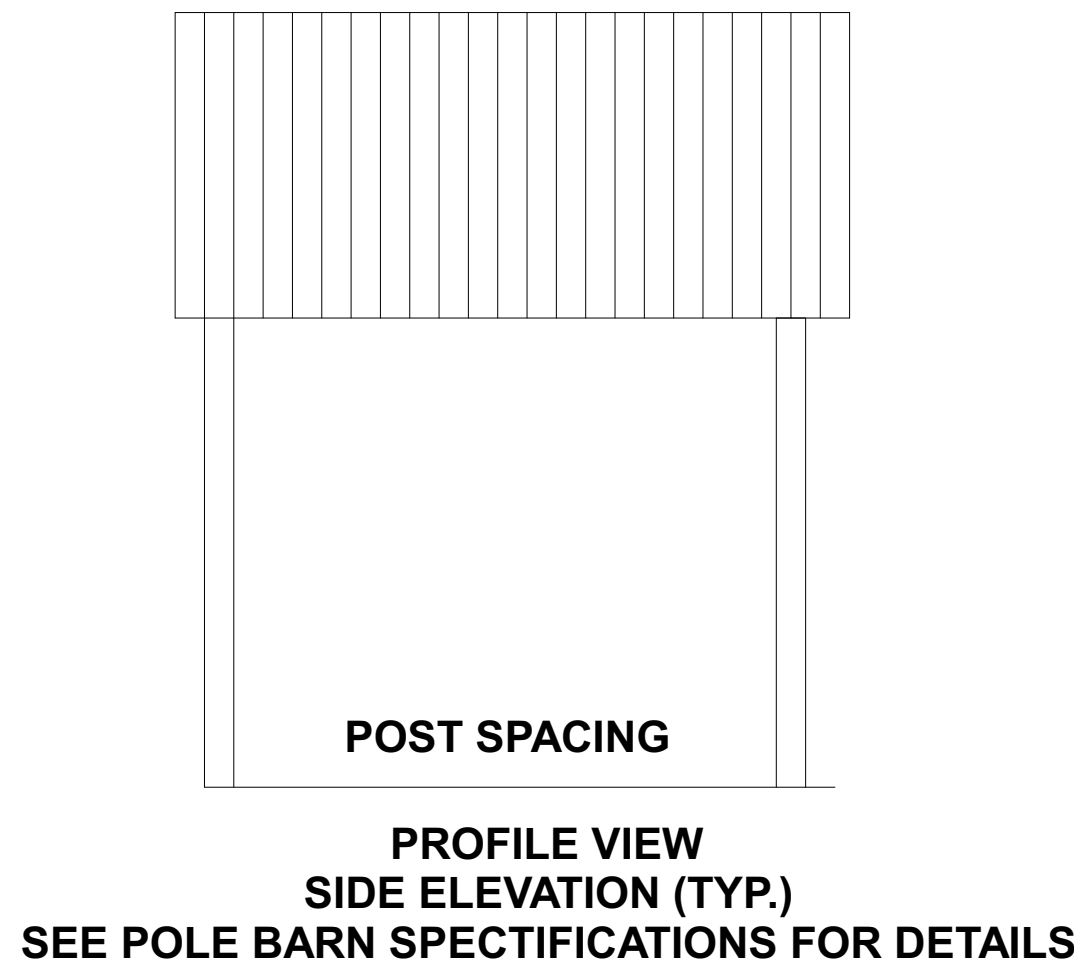
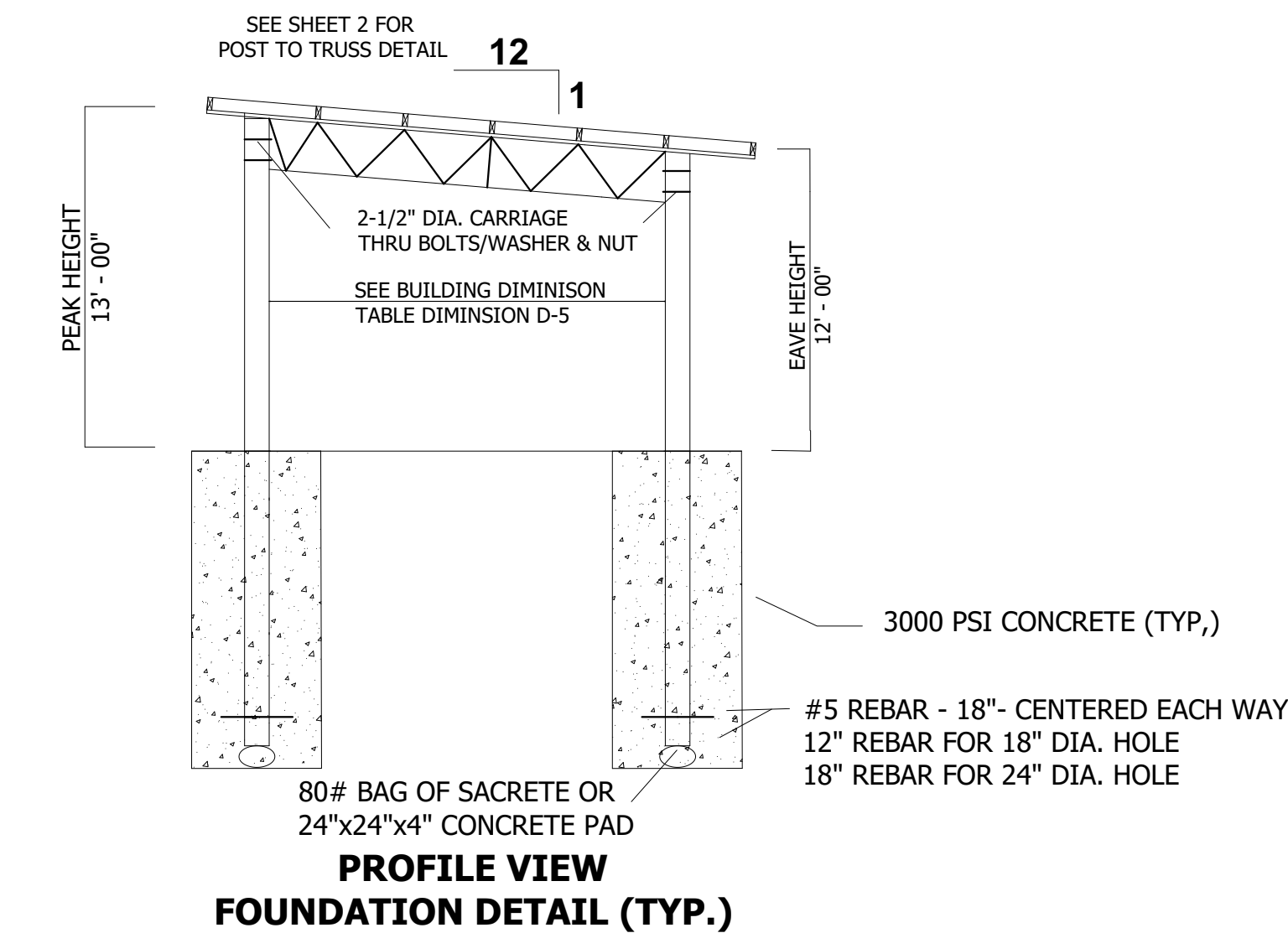
© COPYRIGHT 2024 ME

VALID ONLY WITH DATED ORIGINAL SIGNATURE AND INK OR EMBOSSED SEAL

T. BRENT WHITMAN, P.E.
FL. P.E. REG. NO. 63178

SHEET NO.

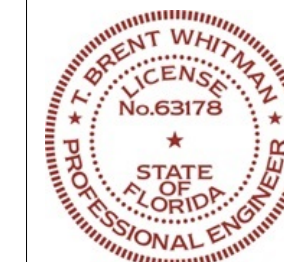
1



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



Thomas B. Whitman, PE
MADISON ENGINEERING
This has been electronically signed and
sealed by TOMAS B. WHITMAN, PE
using a Digital signature and date.
Printed copies of this document are not
considered signed and sealed and the
signature must be verified on an
electronic device.

**TOMAS B
WHITMAN**
2024.11.13
11:27:43 -05'00'

MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

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

POLE BARN B - 12 X 62 LT
ABT TRUSSES

ANITA NAPIER (12X62)

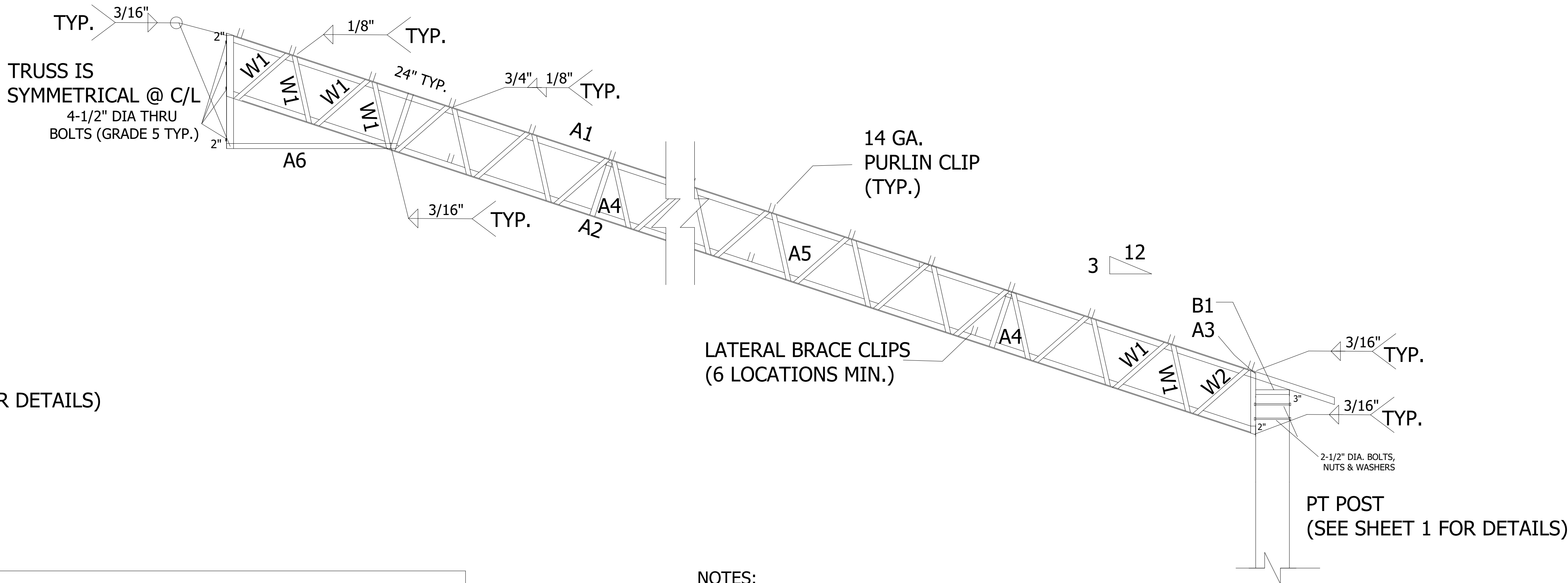
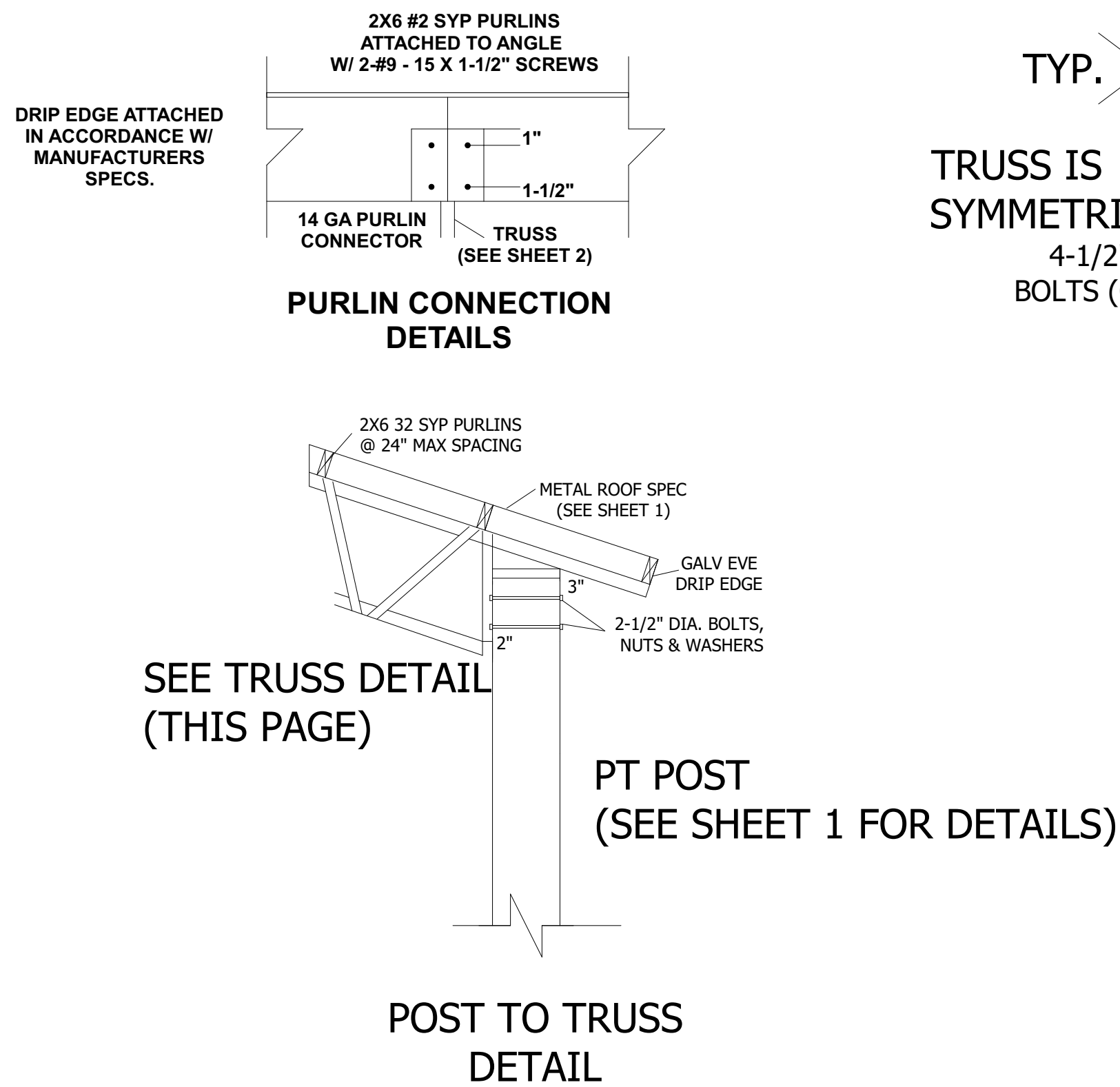
© COPYRIGHT 2024 ME

VALID: ONLY WITH DATED
ORIGINAL SIGNATURE AND
INK OR EMBOSSED SEAL

T. BRENT WHITMAN, P.E.
FL P.E. REG. NO. 63178

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.

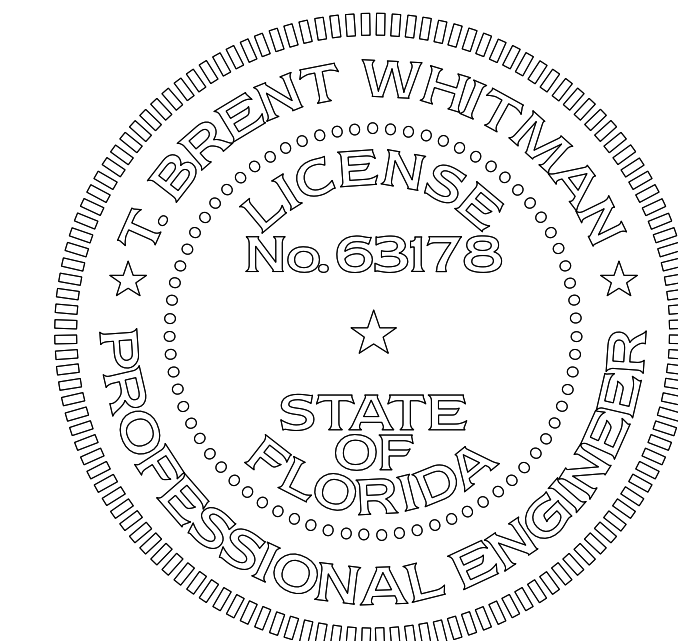
NOTES:

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*
A2	BOTTOM CHORD	LL 2 X 2 X 3/16*
A3	VERTICAL CHORD	LL 3 X 2 X 3/8*
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 3 X 2 X 3/16
W1	WEB	L 1-1/4 X 1-1/2 X 3/16
W2	WEB	L 1-1/4 X 1-1/2 X 3/16
B1	BASE	LL 2 X 2 X 3/16*

NOTE: LL * DENOTES DOUBLE ANGELS



Tomas B. Whitman, PE
MADISON ENGINEERING
This has been electronically signed and sealed by TOMAS B. WHITMAN, PE
using a Digital signature and date.
Printed copies of this document are not considered signed and sealed and the signature must be verified on an electronic device.

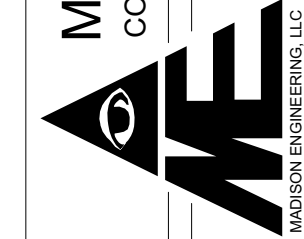
TOMAS B
WHITMAN
2024.11.13
11:27:56 -05'00'

POLE BARN B - 12' X 62' LT
APT TRUSSES

ANITA NAPIER (12X62)

360 SW GRASSLAND WAY, LAKE CITY, FL 32024P

MADISON ENGINEERING, LLC
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING



269 NE Ridge Loop
Madison, Florida 32340
Phone: 904.680.0000
Fax: 904.680.0001
COA No. - 27216 www.madisonengineer.com

DESIGNED TBW
DRAWN DVD
CHECKED TBW
APPROVED TBW
JOB NO.: 35224203
DATE: 13 NOVEMBER 2024

COLUMBIA COUNTY

© COPYRIGHT 2024 ME

VALID ONLY WITH DATED
ORIGINAL SIGNATURE AND
INK OR EMBOSSED SEAL

T. BRENT WHITMAN, P.E.
FL. P.E. REG. NO. 63178

SHEET NO.

3