

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 2023 8TH ED.
DESIGN LOADS PER ASCE 7-22
DESIGN SPEED - 120 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 (D-1): 45'
BUILDING LENGTH (D-2): 84'
EAVE HEIGHT (D-3): 16'
POLE SPACING: 12'
GABLE WIDTH LEAN TO (D-4): 16'
LENGTH OF LEAN TO (D-5): 84'
EAVE HEIGHT OF LEAN TO (D-6): 12'
ROOF PITCH: 4:12
ROOF RISE LEAN TO: 1:12
RIDGE HEIGHT : 23' - 06"
WALLS: ENCLOSED OTHERS
FLOOR: CONCRETE
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

WIND EXPOSURE CATEGORY

<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	<input type="checkbox"/> D
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MAIN BUILDING DIMENSIONS

D-1

BARN WIDTH (FT)	6"X6" POST	8"X8" POST
45	44' - 01"	43' - 08"

LEAN POST HEIGHT (D-6)

SIZE CIRCLED OR LESS OTHER

8'	10'	12'	14'	16'
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MAIN POST FOOTING SIZE

F-1 18" DIA. X 48" DEEP

F-2 24" DIA. X 48" DEEP

MAIN POST HEIGHT (D-3)

SIZE CIRCLED OR LESS OTHER

10'	12'	14'	16'	20'
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MAIN BLD ROOF PITCH

3/12 4:12 5/12 6/12

LEAN POST FOOTING SIZE

F-1 18" DIA. X 48" DEEP

F-2 24" DIA. X 48" DEEP

POST SPACING (FT)

<input type="checkbox"/> 8	<input type="checkbox"/> 10	<input checked="" type="checkbox"/> 12
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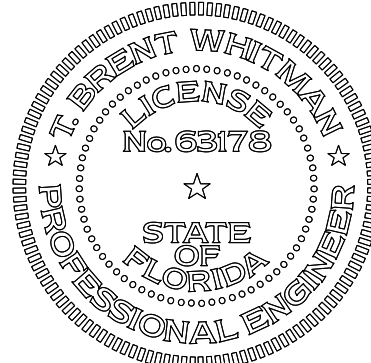
LEAN BUILDING DIMENSIONS

D-4

LEAN WIDTH (FT)	6"X6" POST	8"X8" POST
16	15'-6 1/2"	15'-6 1/2"

LEAN BLD ROOF PITCH (a)

1/12



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CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

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

POLE BARN - B - 45 X 84
ABT TRUSS

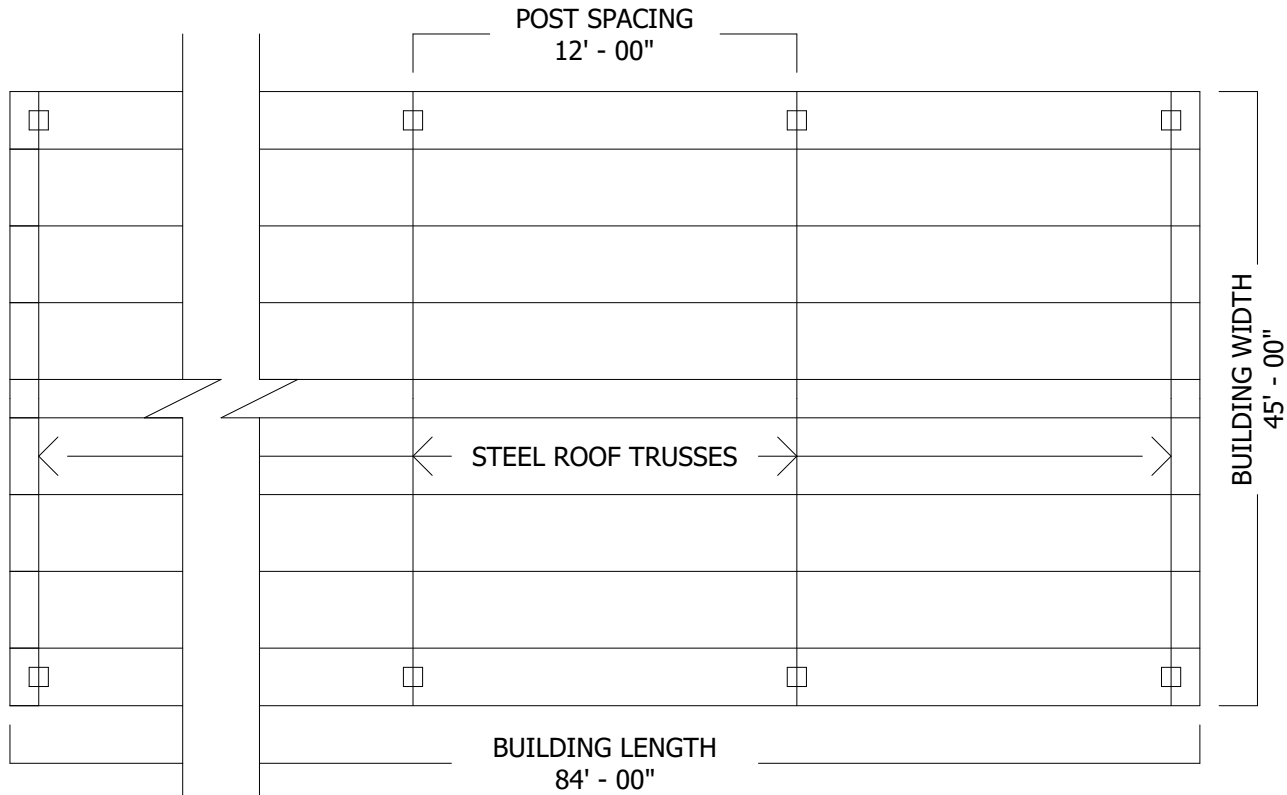
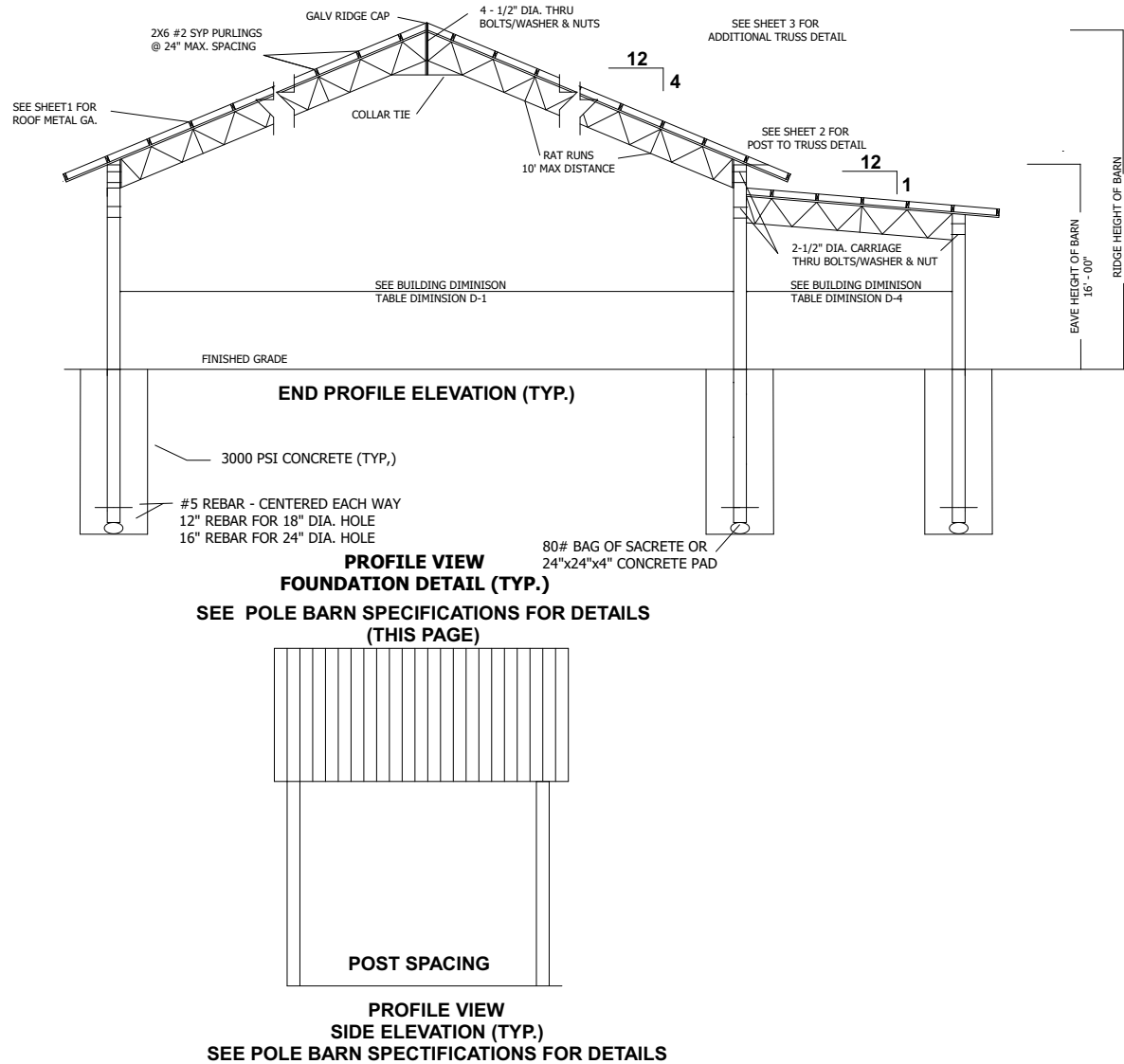
SYDASH CONSTRUCTION (45X84)

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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 DEMINSONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINSONS 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



POLE BARN - B - 45 X 84

ABT TRUSS

SYDASH CONSTRUCTION (45X84)

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SHEET NO.

2

MADISON ENGINEERING, LLC

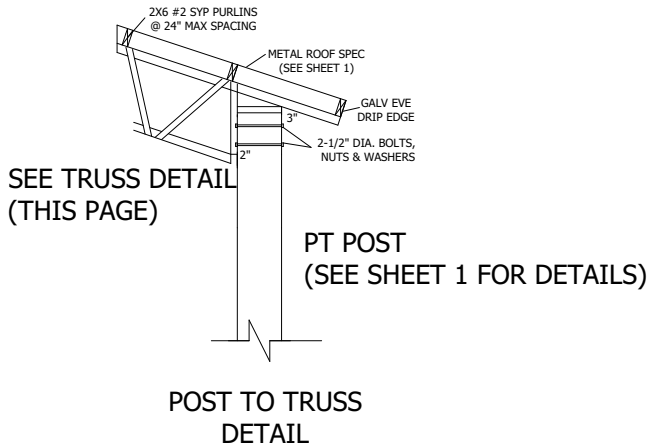
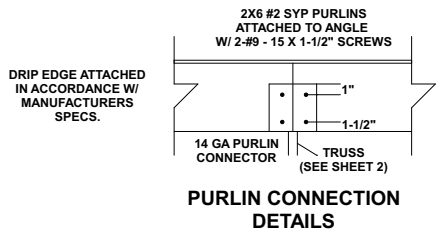
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

2869 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
COA No.: 27216 www.madisonengineer.com



DESIGNED TBW
DRAWN DVD
CHECKED TBW
APPROVED TBW
JOB NO.: 3524172
DATE: 19 JULY 2024

COLUMBIA COUNTY



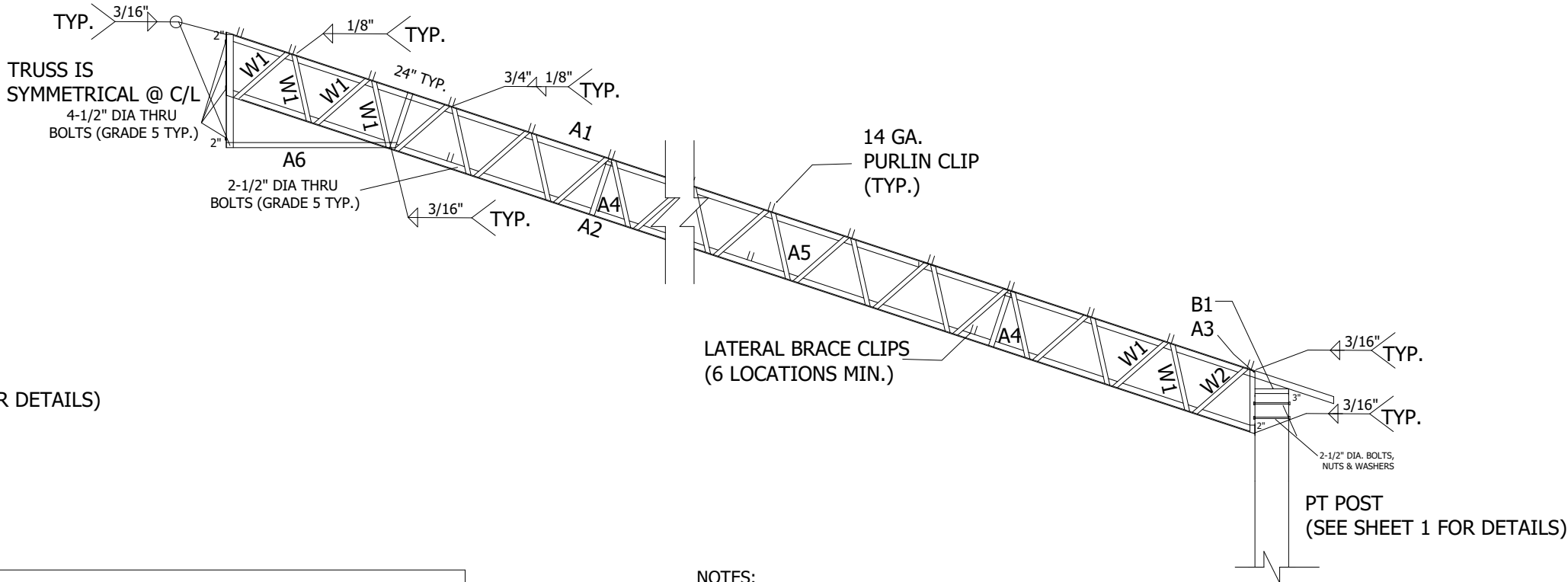
NOTES: TRUSS CROSS-SECTION

- 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.

BILL OF MATERIALS

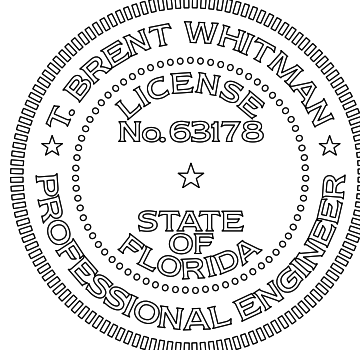
ITEM NO.	DESCRIPTION	MATERIAL (50 KSI)
A1	TOP CHORD	LL 2 X 2 X 3/16*
A2	BOTTOM CHORD	LL 2 X 2 X 3/16*
A3	VERTICAL CHORD	LL 2 X 2 X 3/16*
A4	VERTICAL CHORD	L 1 1/2 X 1 1/2 X 3/16
A5	TIE	L 2 X 2 X 3/16
A6	TIE	L 2 X 2 X 3/16
W1	WEB	L 1-1/4 X 1-1/4 X 3/16
W2	WEB	L 1-1/4 X 1-1/4 X 3/16
B1	BASE	LL 2 X 2 X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

NOTE: LL * DENOTES DOUBLE ANGELS



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 DEMINIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINIONS 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.



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BRENT WHITMAN, PE using
a Digital Signature and date.
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document are not considered
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Tomas B
Whitman
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10:27:01 -04'00'

DESIGNED	TBW
DRAWN	DVD
CHECKED	TBW
APPROVED	TBW
JOB NO.	35224172
DATE	19 JULY 2024

MADISON ENGINEERING, LLC
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ME

POLE BARN - B - 45 X 18
ABT TRUSS

SYDASH CONSTRUCTION (45X84)

421 SE ALFRED MARKHAM STREET LAKE CITY FL 32025

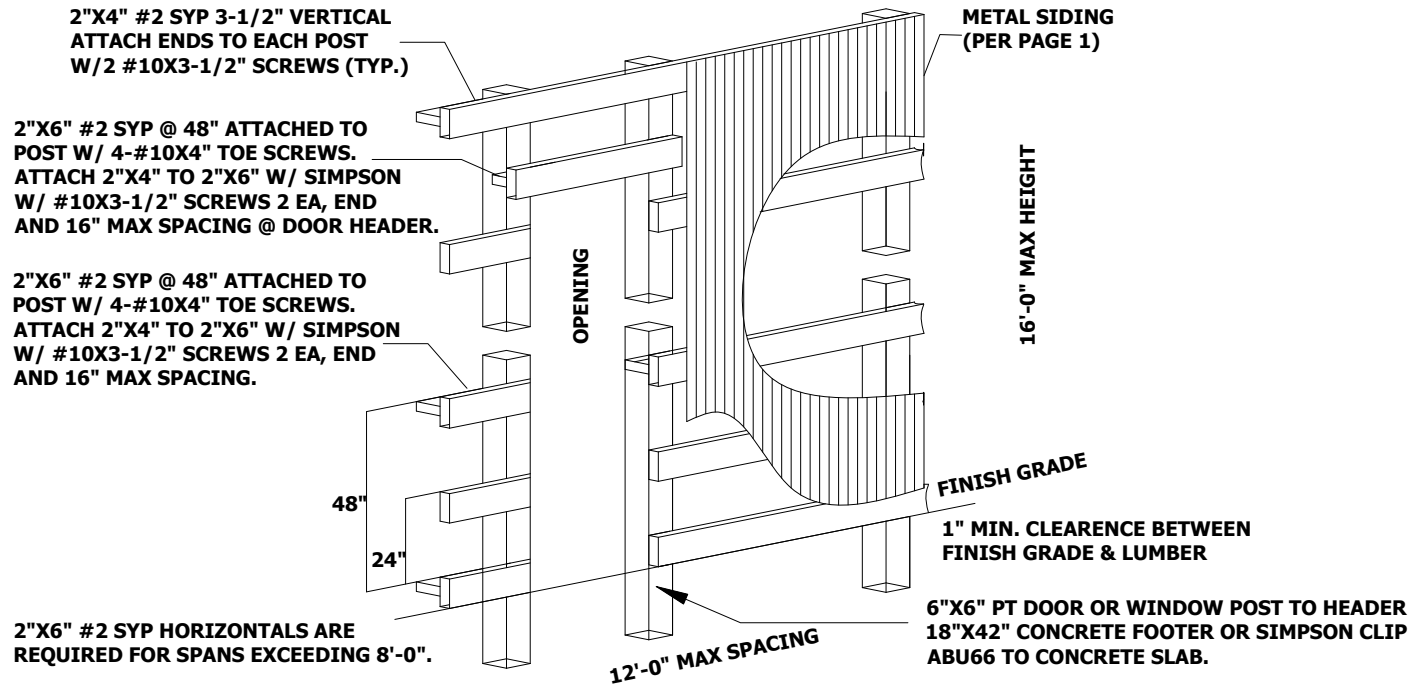
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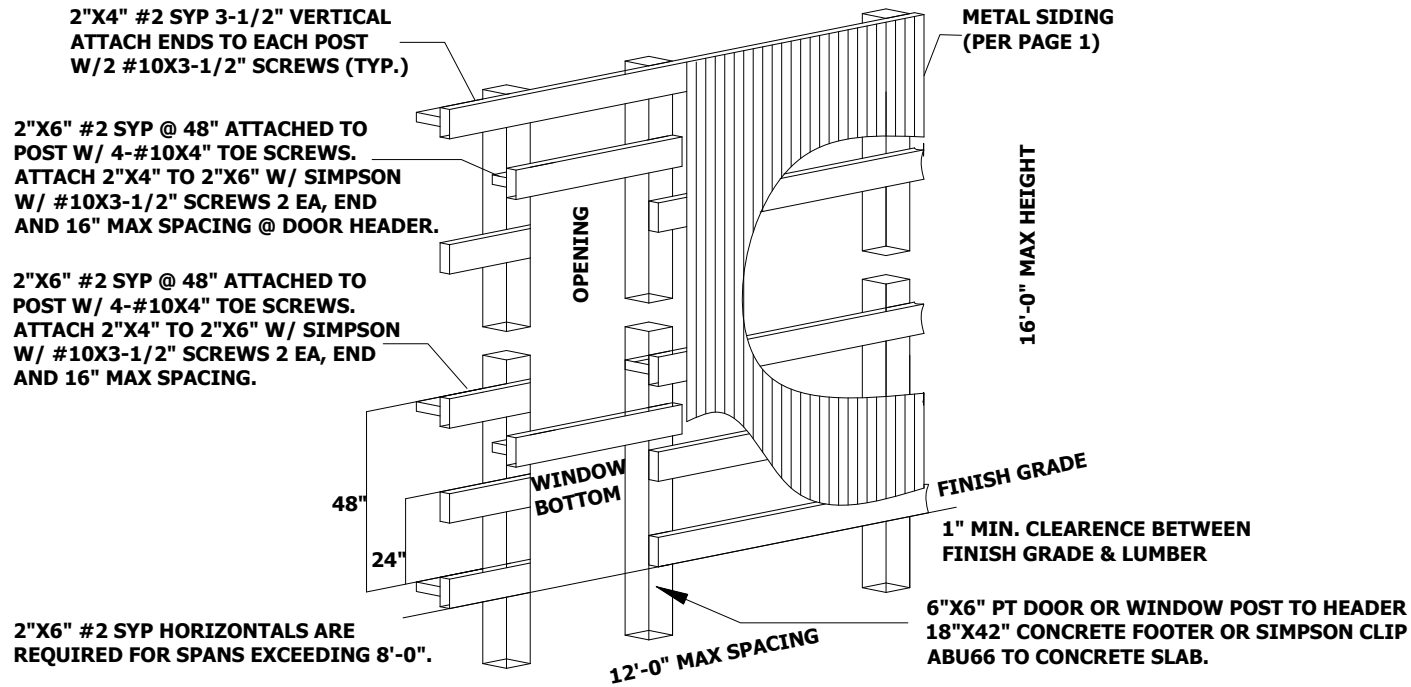
SHEET NO.

3



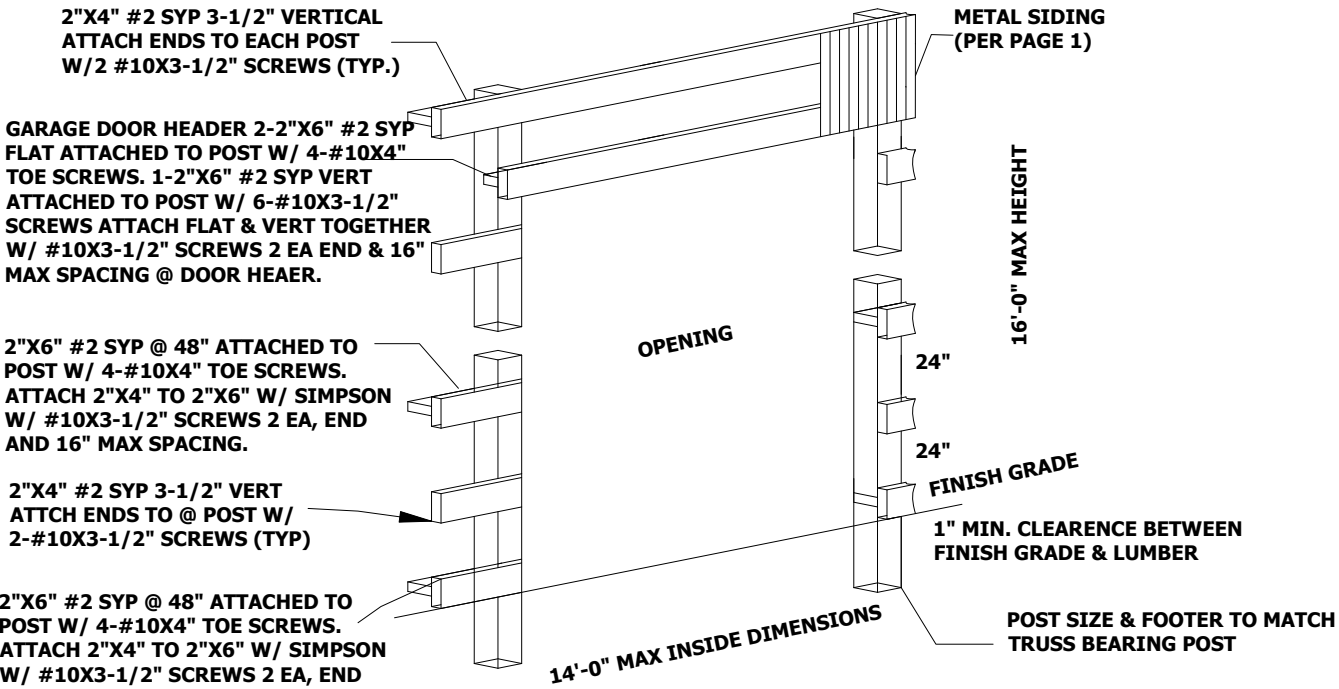
**MAIN DOOR OPENING
(TYP)**

* USE COATED SCREWS FOR EXTERIOR USE



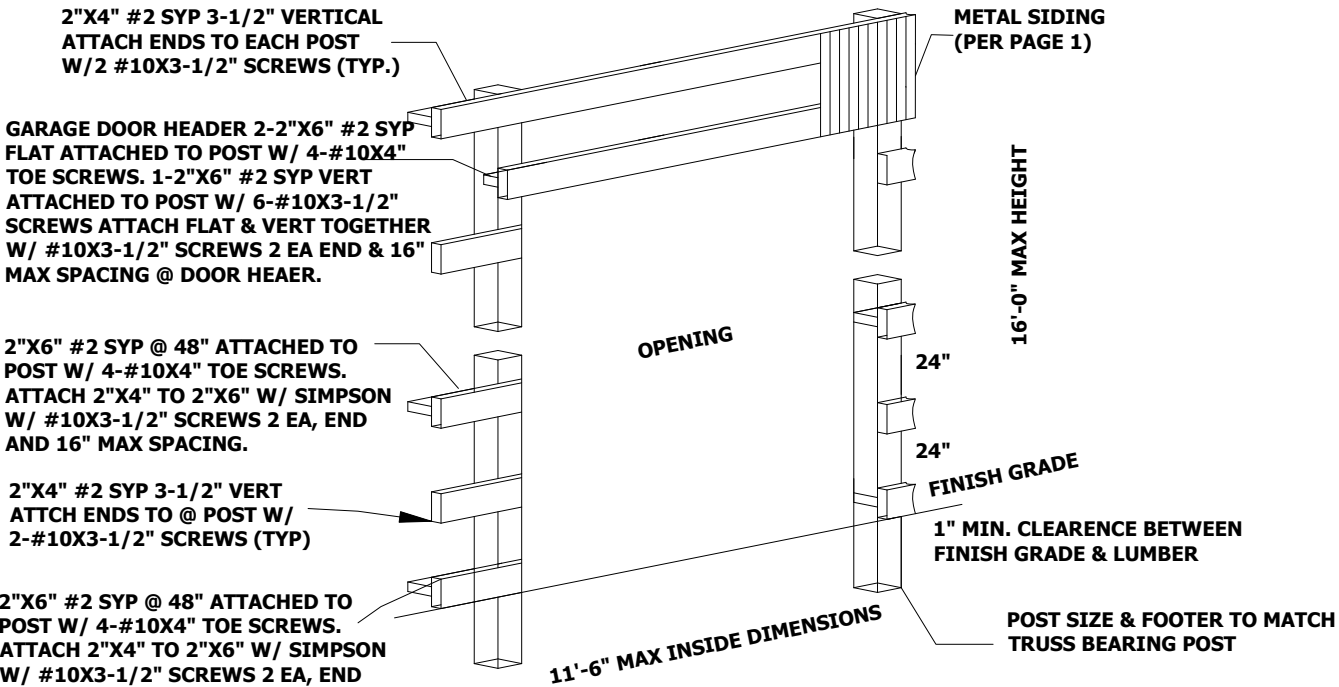
**WINDOW OPENING
(TYP)**

* USE COATED SCREWS FOR EXTERIOR USE



**GABLE END GARAGE
DOOR OPENING (TYP)**

* USE COATED SCREWS FOR EXTERIOR USE



**GARAGE DOOR OPENING
TRUSS BEARING WALL (TYP)**

* USE COATED SCREWS FOR EXTERIOR USE



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Tomas B Whitman
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10:27:22 -04'00'

LENGTH
84' - 00"

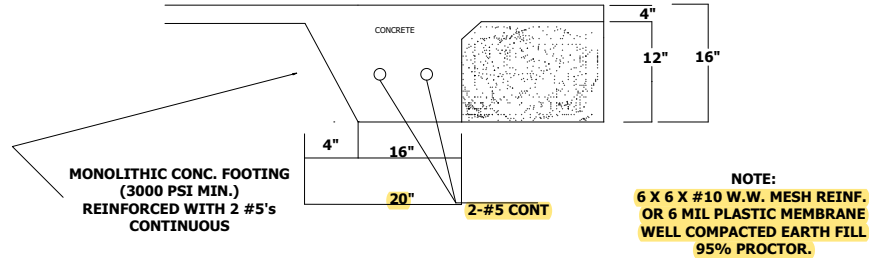
MAIN BUILDING
45'-00" X 84'-00"

4" CONC. SLAB
6 X 6 #10 W.W. MESH REINF.
FIBERMESH OPTIONAL
6 MIL PLASTIC MEMBRANE
WELL COMPACTED EARTH FILL
95% PROCTOR TREAT SOIL FOR TERMITES

LEAN TO
16'00" X 84'-00"

WIDTH
45' - 00"

WIDTH
16' - 00"



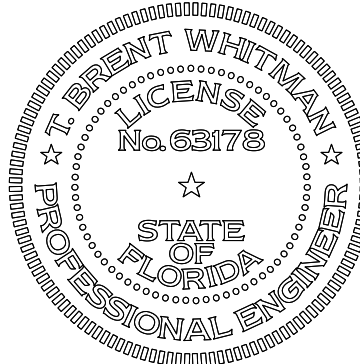
CONCRETE:
CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. COVER OVER REINFORCING STEEL FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARCH OR EXPOSED TO THE EARTH OR WEATHERAND 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 EARCH 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.

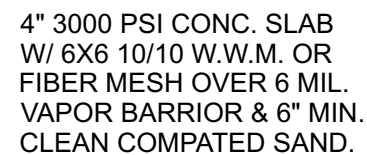
EXCEPTION:
WHERE BENDING IS NECESSARY TO ALIGN BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE NOT MORE THAN 1" OF THE HORIZONTAL DISPLACEMENT TO 6" OF VERTICAL BAR LENGTH.



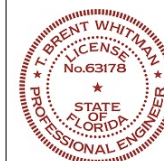
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DESIGNED	TBW	DRAWN	DVD	CHECKED	TBW	APPROVED	TBW	JOB NO. : 35224172	DATE: 19 JULY 2024
MADISON ENGINEERING, LLC CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING									 269 NE Ridge Loop Madison, Florida 32340 Phone 850.973.7864 COA No. : 27216 www.madisonengineer.com
SYDASH CONSTRUCTION (45X84)									
POLE BARN - B - 45 X 84 ABT TRUSSES									
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SHEET NO.									
5									



1. Control joints shall be field located by the contractor.
2. Control joints shall be located to limit the frequency and width of random cracks in the concrete slab.
3. Locate and install control joints in accordance with ACI 360R "Design of Slabs on Ground" and the details shown.
4. Maximum spacing of joints shall be per the table below.
5. Saw cuts should be made as soon as possible after hardening.
6. Keyed form to be removed before adjacent slab is poured.



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