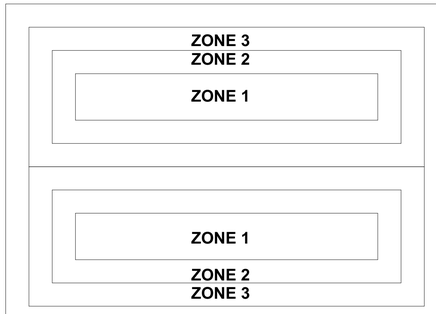


ZONE 1 +/- 19.74
ZONE 2 +/- 29.98
ZONE 3 +/- 41.75

**WIND PRESSURE - COMPONENTS & CLADDING**

| 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 : 50'**
**BUILDING LENGTH : 89'**
**EAVE HEIGHT : 14'**
**POLE SPACING : 12'**
**ROOF PITCH : 3:12**
**WALLS : OPEN**
**FLOOR : CONCRETE**
**ROOF METAL : 29 GA.**
**SIDE METAL : NONE**
**POST SIZE : 8"X8"**
**POST FOOTING SIZE : 24"X48"**
**CONCRETE : 3,000 PSI**

| WIND EXPOSURE CATEGORY | | |
|---|---|---|
| **X 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' | 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** |

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APPROVED TBW
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DATE: MARCH 2023

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

POLE BARN A - 50 X 89
ABT TRUSSES

CHRIST CENTRAL MINISTRIES (50X89)
217 SW DYAL AVENUE, LAKE CITY, FL 32024

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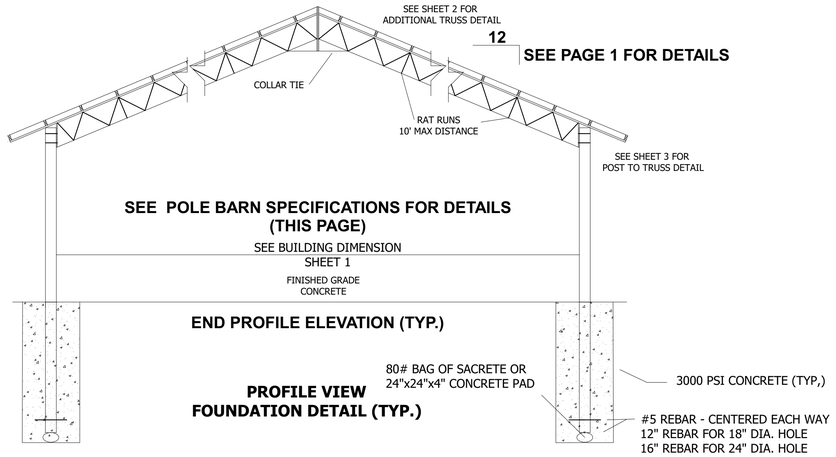
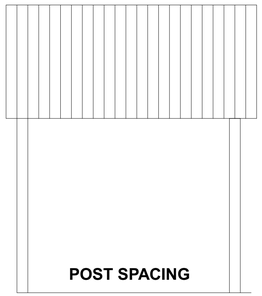
1

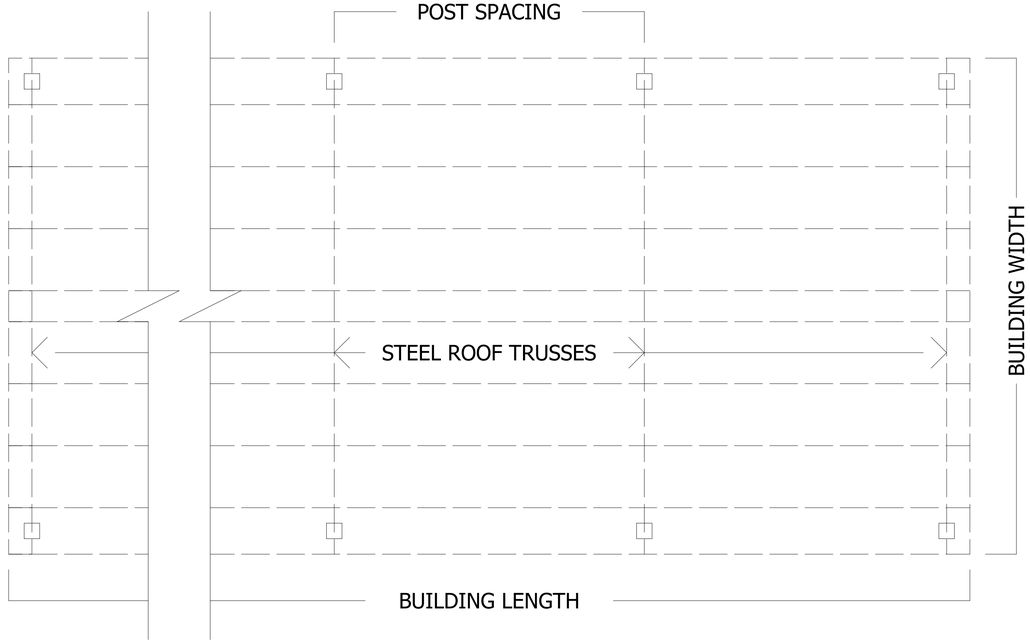



**END PROFILE ELEVATION (TYP.)**

**PROFILE VIEW**
**FOUNDATION DETAIL (TYP.)**




**PROFILE VIEW**
**SIDE ELEVATION (TYP.)**
**SEE POLE BARN SPECTIFICATIONS FOR DETAILS**
**(PG 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

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Phone 850.973.7864
COA No.: 27216 www.madisonenginjneer.com

POLE BARN A - 50 X 89
ABT TRUSSES

# CHRIST CENTRAL MINISTRIES (50X89)

217 SW DYAL AVENUE, LAKE CITY, FL 32024

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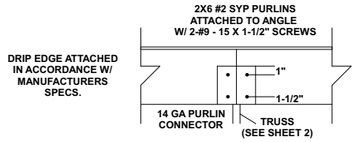
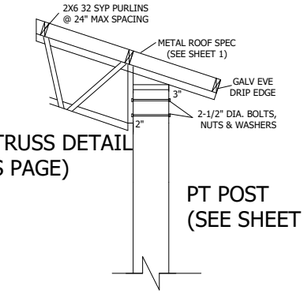
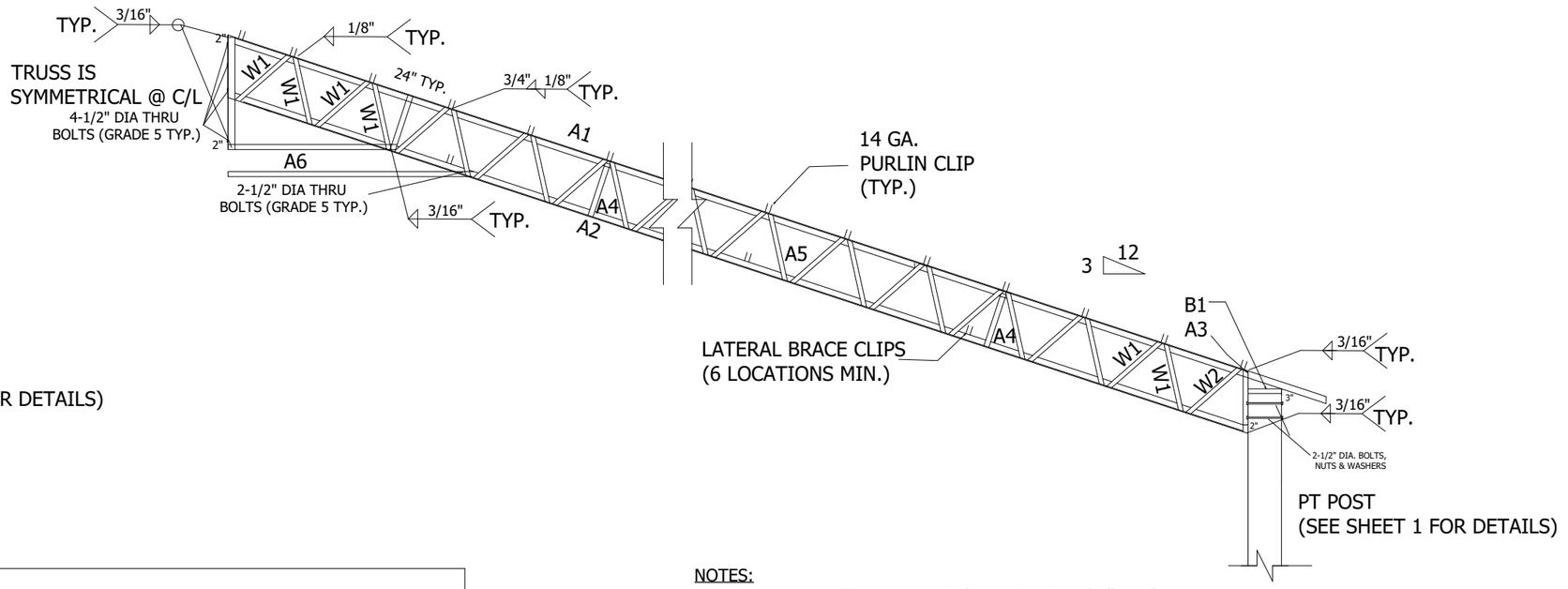
**2**




**PURLIN CONNECTION DETAILS**




POST TO TRUSS
DETAIL




**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:
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2. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY & PERMANENT CONSTRUCTION BRACING.
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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 3/8* | 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 3 X 2 X 3/16 | ASTM 572 |
| W1 | WEB | L 1-1/4 X 1-1/2 X 3/16 | ASTM 572 |
| W2 | WEB | L 1-1/4 X 1-1/2 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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POLE BARN A - 50X89
ABT TRUSSES

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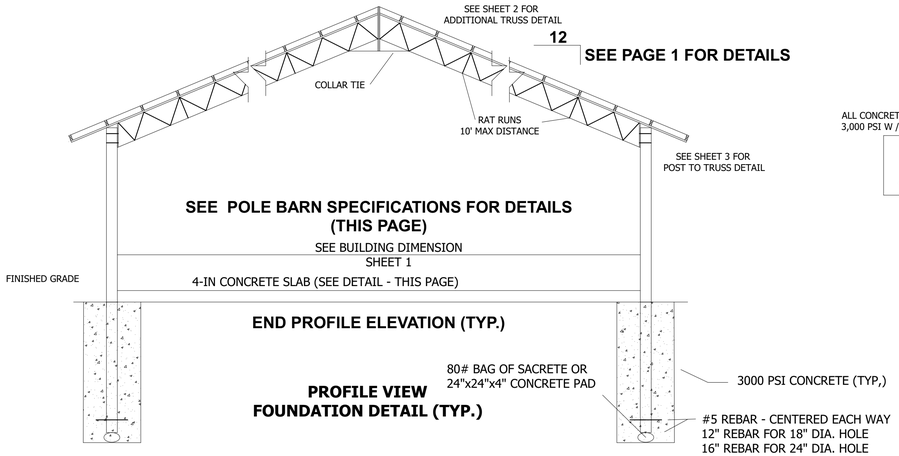


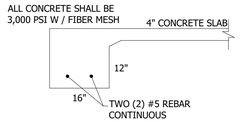


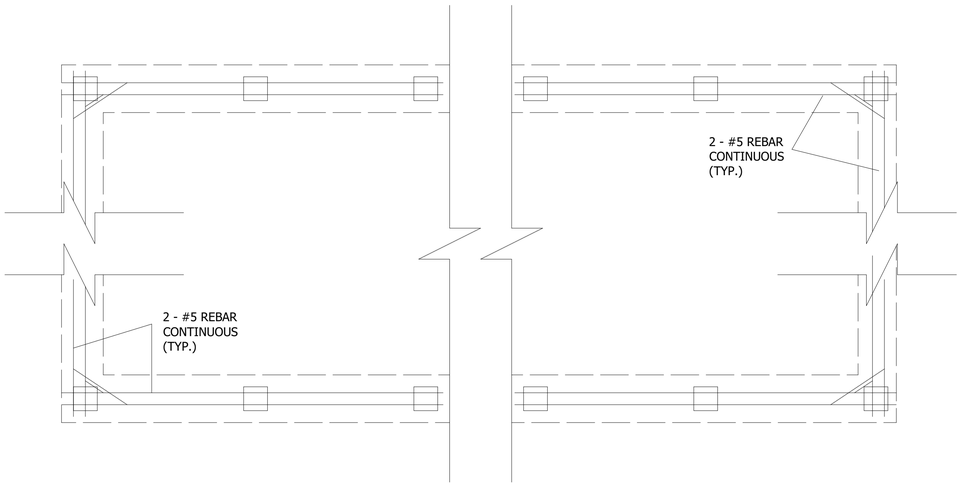


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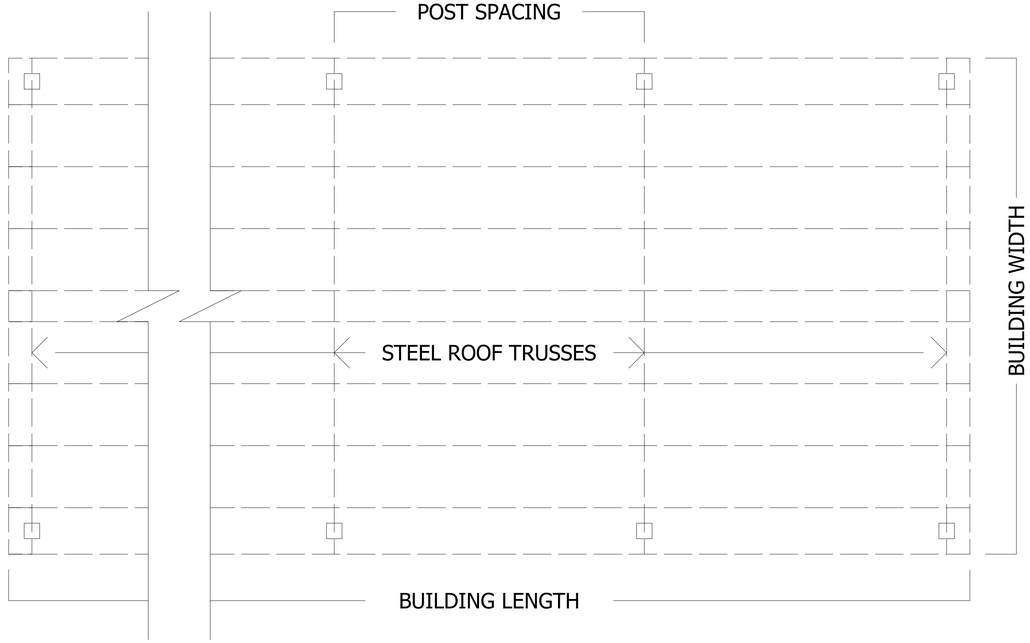
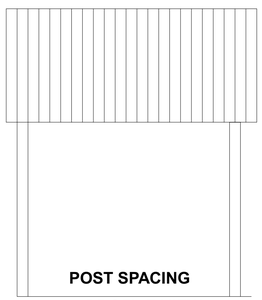



**BARN PLAN VIEW (TYP.)**




**PROFILE VIEW**
**SIDE ELEVATION (TYP.)**
**SEE POLE BARN SPECTIFICATIONS FOR DETAILS**
**(PG 1)**

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COLUMBIA COUNTY

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POLE BARN A - 50 X 89
USA BAR KITS

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