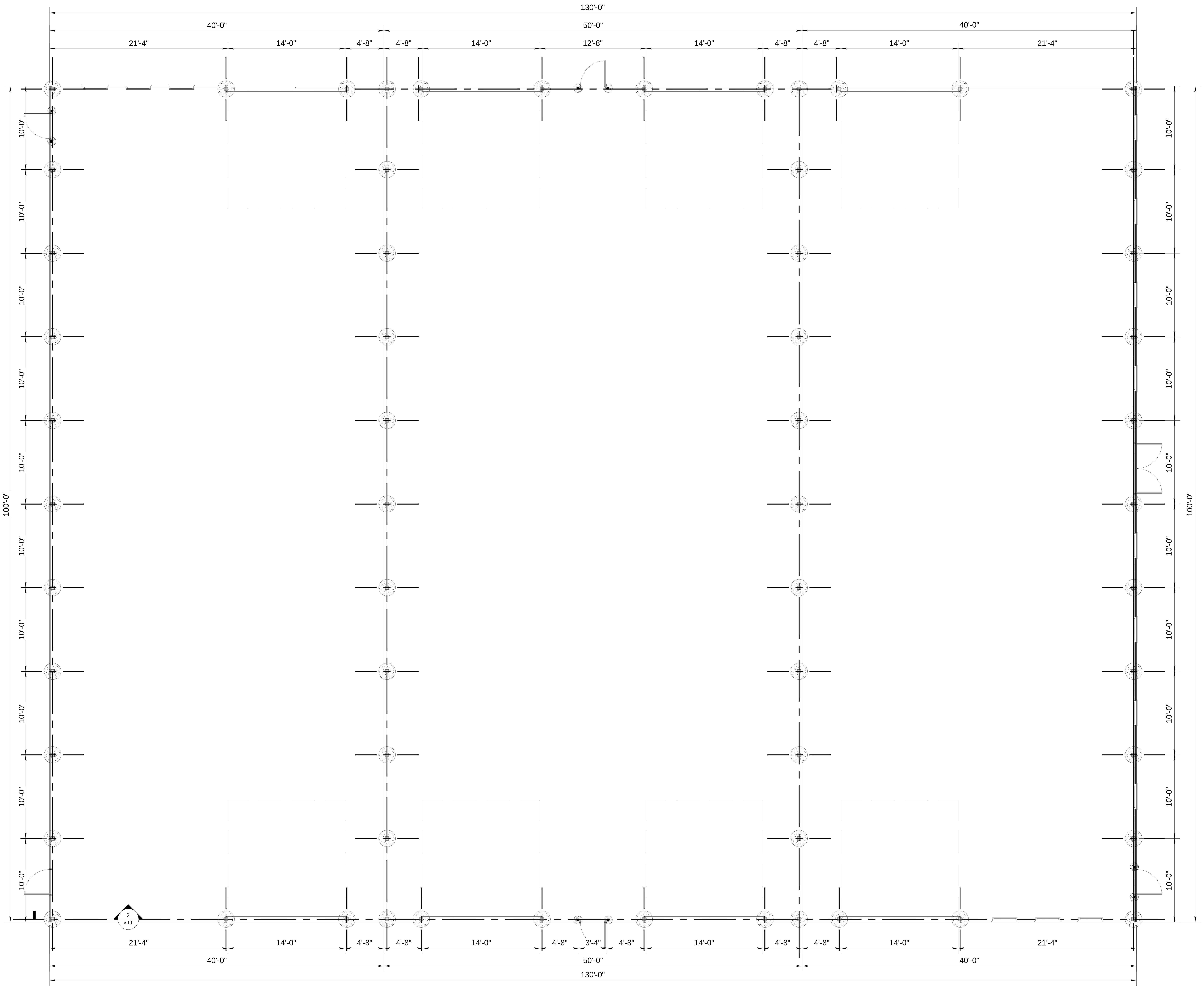

1 FLOOR PLAN
SCALE: 3/16" = 1'-0"

3/16" = 1'-0"   0' 5' 10' 20'

FLOOR PLAN

SCALE: 3/16" = 1'-0"

1. Construction bracing by contractor and shall meet truss manufacturer's recommendations and/or requirements.
2. Design is based on completed building with all structural elements in place.
3. Fabrication and welding per AISC and AWS.
4. Steel to be ASTM A36 minimum.
5. Concrete to be 3000 PSI minimum compressive strength.
6. Assumed soil bearing = 2000 PSF minimum.
7. Soil Friction Resistance to vertical load of 300 PSF is applied.
8. Contractor to verify dimensions before construction and/or ordering material.
9. Pressure treatment of wood to be in accordance with the requirements of AWPA standard C1 for the intended use category.
10. Fasteners installed with treated wood must be manufacturer recommended for use with the associated wood treatment.
11. Where Southern Yellow Pine (SYP) lumber is specified on this drawing, SPF, Doug Fir, or Hem-Fir are acceptable to use if the allowable design stress values meet or exceed that of SYP for the following:
    - Bending (Fb)
    - Tension (Ft) parallel to the grain
    - Compression (Fc) parallel to the grain

DESIGN CRITERIA - IBC 2018

1. Design loads per ASCE 7-10 & 7-16
2. Structural concrete - ACI 318
3. Code requirement for steel - AISC 360
4. Roof live load = 20 PSF
   Dead load = 6 PSF
5. Design wind speed = 150 MPH (3 sec. gust)
6. Building category II
7. Wind exposure category B
8. Importance Factor = 1.0
9. Ground snow load = 15 PSF

MATERIAL SPECS.

Truss	- See Spec Sheet
Concrete	- 3000 PSI Minimum
Rebar	- Grade 60 Minimum
Structural Steel	- ASTM A36 Minimum
Wood - Purlins	#2 SYP Minimum
Bracing	#2 SYP Minimum
Posts	#2 SYP Minimum
Other	#2 SYP Minimum (Unless noted)

DRAINAGE NOTE

1. Final grades must be sloped away from the building on all four sides.
2. There is to be no standing water within 15' of the building on all four sides.
3. There is to be one area of positive drainage away from the building provided with the final grade.

CONSTRUCTION NOTE:

1. 2x6 SYP Wall Girt @ 24" o.c.
2. 6" Concrete Monolithic Slab with 16"x12" 'Turned Down' Footer, and fiber reinforced concrete over 10 mil vapor barrier laid out on 4" free draining granulated gravel.
3. 12" x #4 rebar doweled into the 6x6 post to key into the 4" Concrete slab, typical for each post.
4. Pressure Treated 2x6 skirt continuous
5. Pour concrete around post (24" dia. on 6x6 posts). Concrete to be poured against undisturbed or firmly compacted earth. (Bagged Sakrete, or equivalent may be used. Must be mixed and placed wet.) Typical of all earth-embedded posts regardless of size.
6. ½" Galvanized lag screws x 5" long with 2" projected into concrete (2 faces of post), typical.
7. Compacted soil
8. 6x6 SYP PT Post with a 24"Ø (Min.) x 3'-0" (Min.) Concrete Footer, typical of all perimeter 6x6 Posts
9. 29 Ga. Metal Roof / Wall Panel unless noted otherwise.
10. Layout Posts 1½" from the edge of the turned down Concrete slab typical on each perimeter post.
11. Slope grade away from building.
12. (2) #4 x continuous rebar embedded 4" from bottom of footer @ 8" o.c.
13. N.A.
14. N.A.
15. 50' Steel Truss with 4:12 pitch @ 10'-0" o.c
16. (8)14'x14' Un-insulated Garage Door
17. 2x4 SYP PT Purlin @ 2'-0"± o.c.
18. 40' Steel Truss with 1:12 pitch @ 10'-0" o.c.
19. Ridge Cap
20. N.A.
21. Simpson-StrongTie Truss Anchor Model H2.5A
22. (2) 2x12 SYP PT Truss Supports
23. N.A.
24. N.A.
25. (8) 14'x14' Un-insulated Garage Door

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No.	REVISIONS	DATE	DRWN	CHKD	DESIGN	APPD

APPROVAL	
DRAWN	___
DESIGN	___
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APPROVED	___

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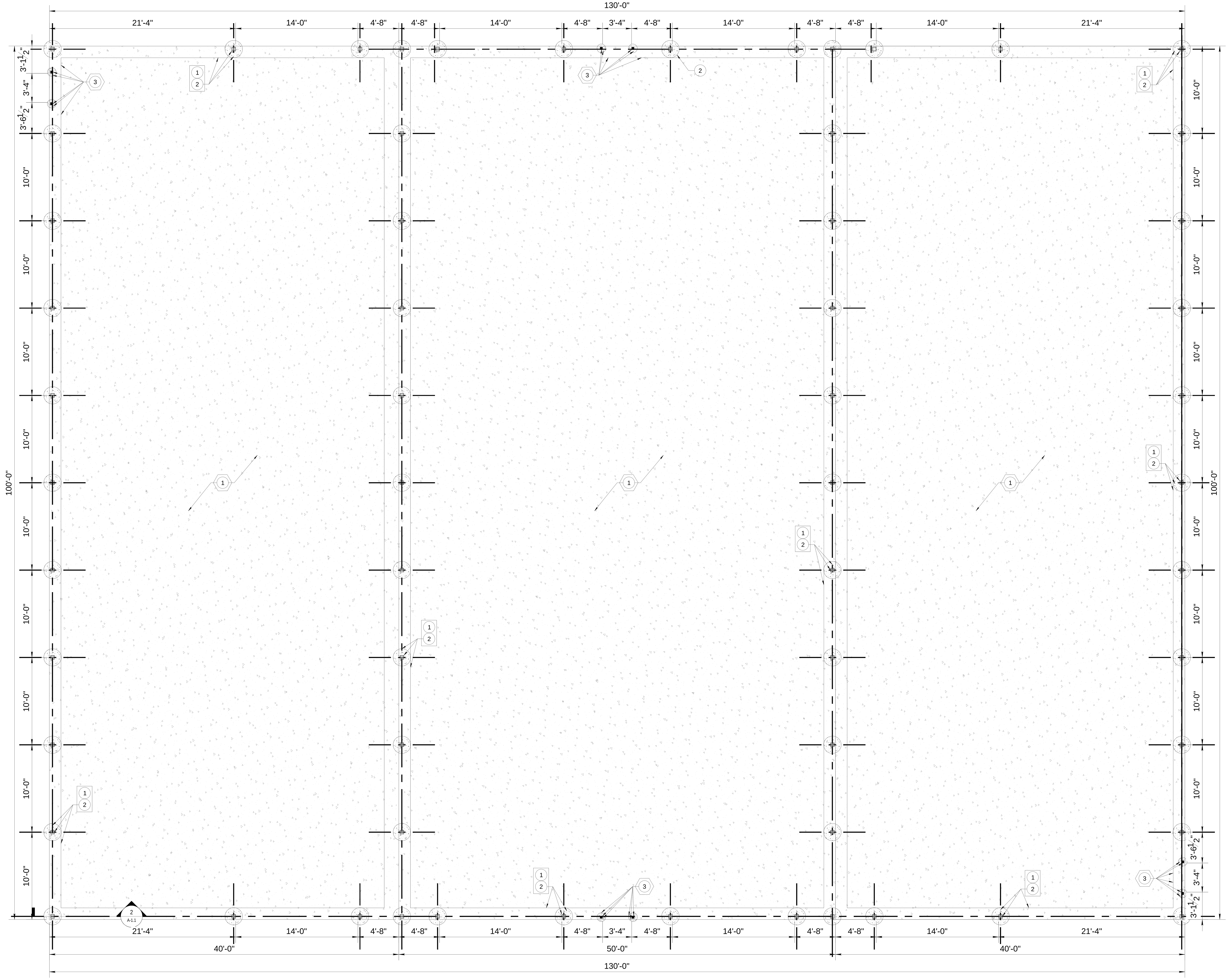
JUSTIN ROBINETTE
POLE BARN
301 CANAAN ROAD, MT PLEASANT, TN 38474

Floor Plan

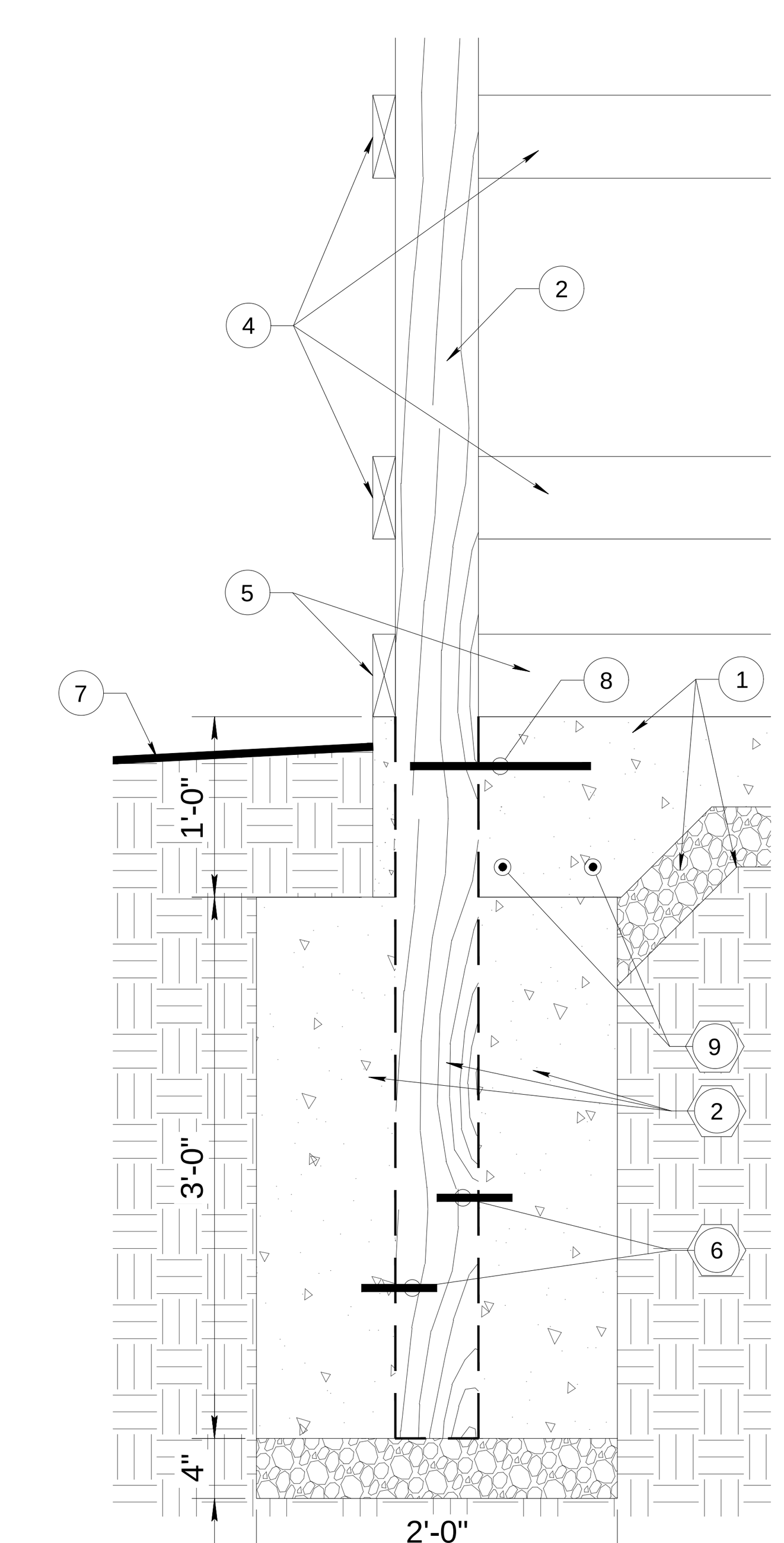
DWG. No.
A-1.0

SCALE: AS NOTED
CADFILE: Justin Robinette Pole Barn 11 - 12 - 2024
JOB No. 10 - 11 - 2023
REV.



1 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

3/16" = 1'-0"   0' 5' 10' 20'



2 TYP. FOUNDATION SECTION DETAIL
SCALE: 1" = 1'-0"

NOTES:

1. 6" Concrete Monolithic Slab with 16"x12" 'Turned Down' Footer, and fiber reinforced concrete over 10 mil vapor barrier laid out on 4" free draining granulated gravel.
2. Pour concrete around post (24" dia. on 6x6 posts). Concrete to be poured against undisturbed or firmly compacted earth. (Bagged Sakrete, or equivalent may be used. Must be mixed and placed wet.) Typical of all earth-embedded posts regardless of size.
3. Door framing to be anchored on (2) 4x4 SYP PT post columns with 12" dia. x 3'-0" concrete anchors with (2) ½"x6" rebar embedded at minimum 2" in two opposite faces of the post.
4. 2x6 SYP PT Wall Gurt @ 24" o.c.
5. Pressure Treated 2x6 pest skirt continuous
6. ½" Galvanized lag screws x 5" long with 2" projected into concrete (2 faces of post), typical.
7. Slope grade away from building.
8. 12" x #4 rebar doweled into the 6x6 post to key into the 4" Concrete slab, typical for each post.
9. (2) #4 x continuous rebar embedded 3" from bottom of footer @ 8" o.c.

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DESIGN	—
CHECKED	—
APPROVED	—

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JUSTIN ROBINETTE
POLE BARN
301 CANAAN ROAD, MT PLEASANT, TN 38474

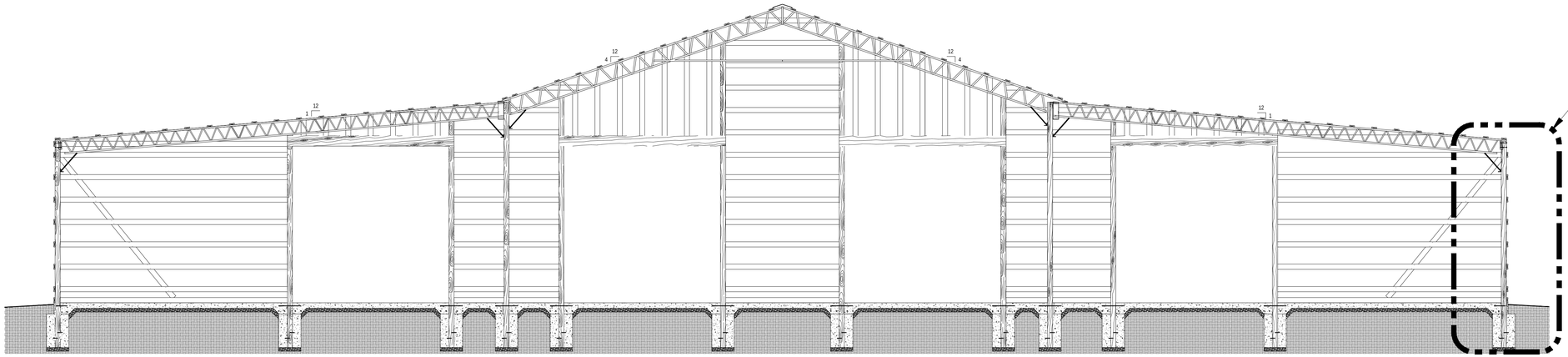
Foundation Plan

DWG. No.
A-1.1

SCALE: AS NOTED
CADFILE:
JOB No. 10 - 11 - 2023
REV.

FOUNDATION PLAN

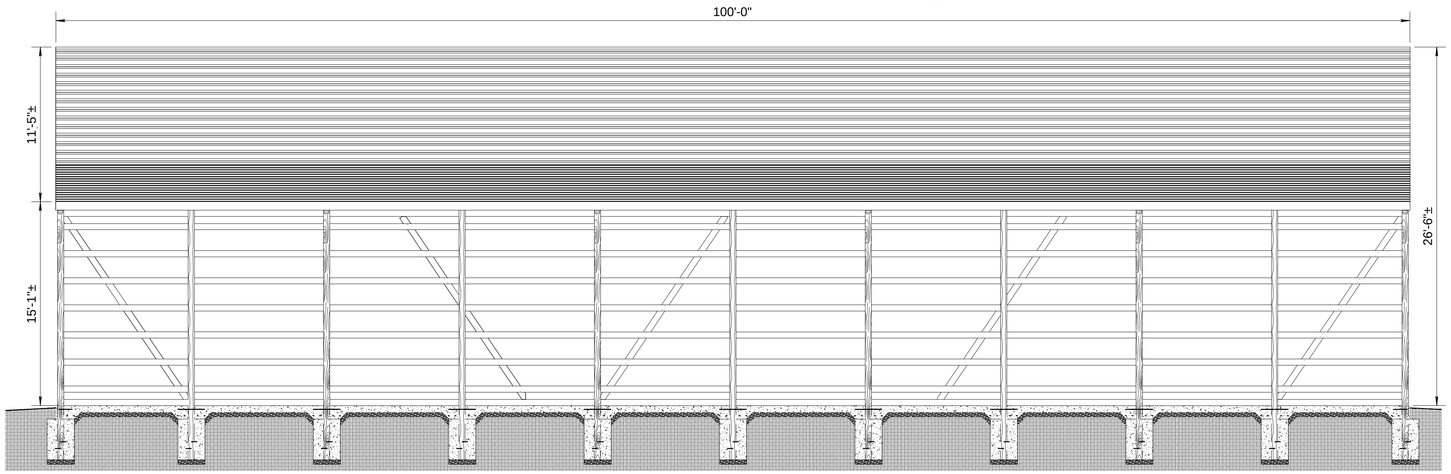
SCALE: 3/16" = 1'-0"



3
A-3.0

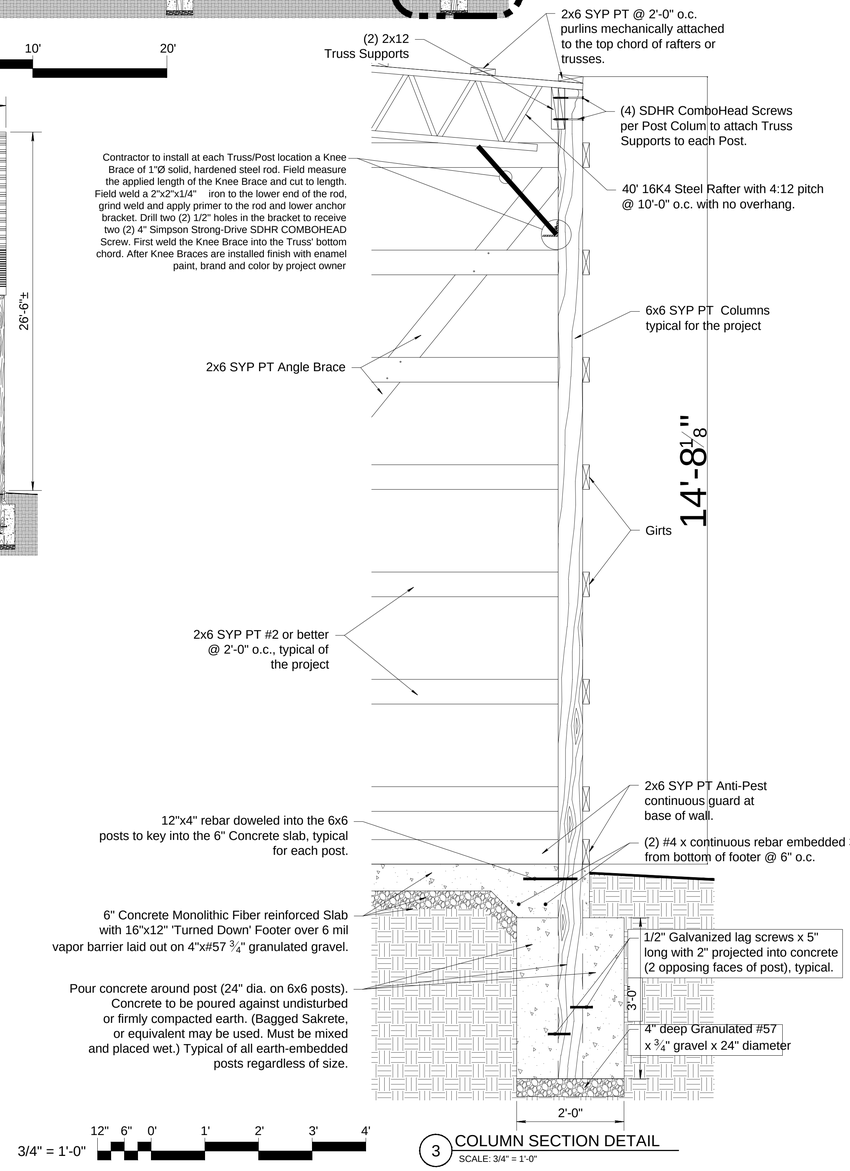
2 FRONT & REAR ELEVATIONS
SCALE: 3/16" = 1'-0"

3/16" = 1'-0" 0' 5' 10' 20'



1 RIGHT & LEFT ELEVATIONS
SCALE: 3/16" = 1'-0"

3/16" = 1'-0" 0' 5' 10' 20'



3/4" = 1'-0" 12" 6" 0' 1' 2' 3' 4'

3 COLUMN SECTION DETAIL
SCALE: 3/4" = 1'-0"

1. CONSTRUCTION BRACING BY CONTRACTOR AND SHALL MEET TRUSS MANUFACTURER'S RECOMMENDATIONS AND/OR REQUIREMENTS.
2. DESIGN IS BASED ON COMPLETED BUILDING WITH ALL STRUCTURAL ELEMENTS IN PLACE.
3. FABRICATION AND WELDING PER AISC AND AWS.
4. STEEL TO BE ASTM A36 MINIMUM.
5. CONCRETE TO BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH.
6. ASSUMED SOIL BEARING = 2000 PSF MINIMUM.
7. SOIL FRICTION RESISTANCE TO VERTICAL LOAD OF 300 PSF IS APPLIED.
8. CONTRACTOR TO VERIFY DIMENSIONS BEFORE CONSTRUCTION AND/OR ORDERING MATERIAL.
9. PRESSURE TREATMENT OF WOOD TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWPA STANDARD C1 FOR THEINTENDED USE CATEGORY.
10. FASTENERS INSTALLED WITH TREATED WOOD MUST BE MANUFACTURER RECOMMENDED FOR USE WITH THE ASSOCIATED WOOD TREATMENT.
11. WHERE SOUTHERN YELLOW PINE (SYP) LUMBER IS SPECIFIED ON THIS DRAWING, SPF, DOUG FIR, OR HEM-FIR ARE ACCEPTABLE TO USE IF THE ALLOWABLE DESIGN STRESS VALUES MEET OR EXCEED THAT OF SYP FOR THE FOLLOWING:
   - BENDING (FB)
   - TENSION (FT) PARALLEL TO THE GRAIN
   - COMPRESSION (FC) PARALLEL TO THE GRAIN

DESIGN CRITERIA - IBC 2012, 2015, & 2018

1. DESIGN LOADS PER ASCE 7-10 & 7-16
2. STRUCTURAL CONCRETE - ACI 318
3. CODE REQUIREMENT FOR STEEL - AISC 360
4. ROOF LIVE LOAD = 20 PSF
   DEAD LOAD = 6 PSF
5. DESIGN WIND SPEED = 115 MPH (3 SEC. GUST)
6. BUILDING CATEGORY II
7. WIND EXPOSURE CATEGORY B
8. IMPORTANCE FACTOR = 1.0
9. GROUND SNOW LOAD = 15 PSF

MATERIAL SPECS.

TRUSS	- SEE SPEC SHEET
CONCRETE	- 3000 PSI MINIMUM
REBAR	- GRADE 60 MINIMUM
STRUCTURAL STEEL	- ASTM A36 MINIMUM
WOOD - PURLINS	#2 SYP MINIMUM
BRACING	#2 SYP MINIMUM
POSTS	#2 SYP MINIMUM
OTHER	#2 SYP MINIMUM (UNLESS NOTED)

DRAINAGE NOTE

1. FINAL GRADES MUST BE SLOPED AWAY FROM THE BUILDING ON ALL FOUR SIDES.
2. THERE IS TO BE NO STANDING WITHIN 15' OF THE BUILDING ON ALL FOUR SIDES.
3. THERE IS TO BE ONE AREA OF POSITIVE DRAINAGE AWAY FROM THE BUILDING PROVIDED WITH THE FINAL GRADE.

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JUSTIN ROBINETTE
POLE BARN
301 CANAAN ROAD, MT PLEASANT, TN 38474

FRAMING INTERIOR ELEVATIONS

DWG. No.
A-3.0

SCALE: NOTED
CADFILE: ---
JOB No. 10 - 11 - 2023
REV.

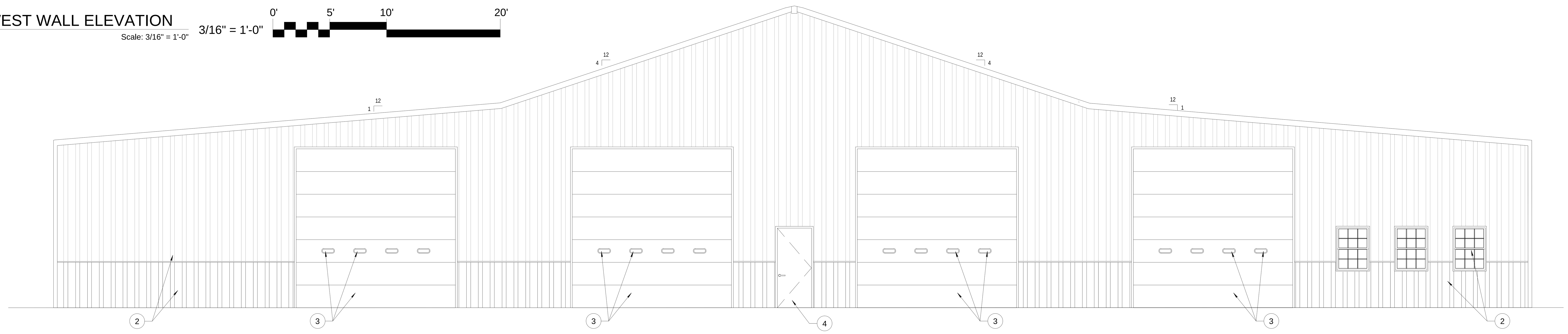
FRAMING INTERIOR ELEVATIONS

SCALE: AS NOTED

4 WEST WALL ELEVATION

Scale: 3/16" = 1'-0"

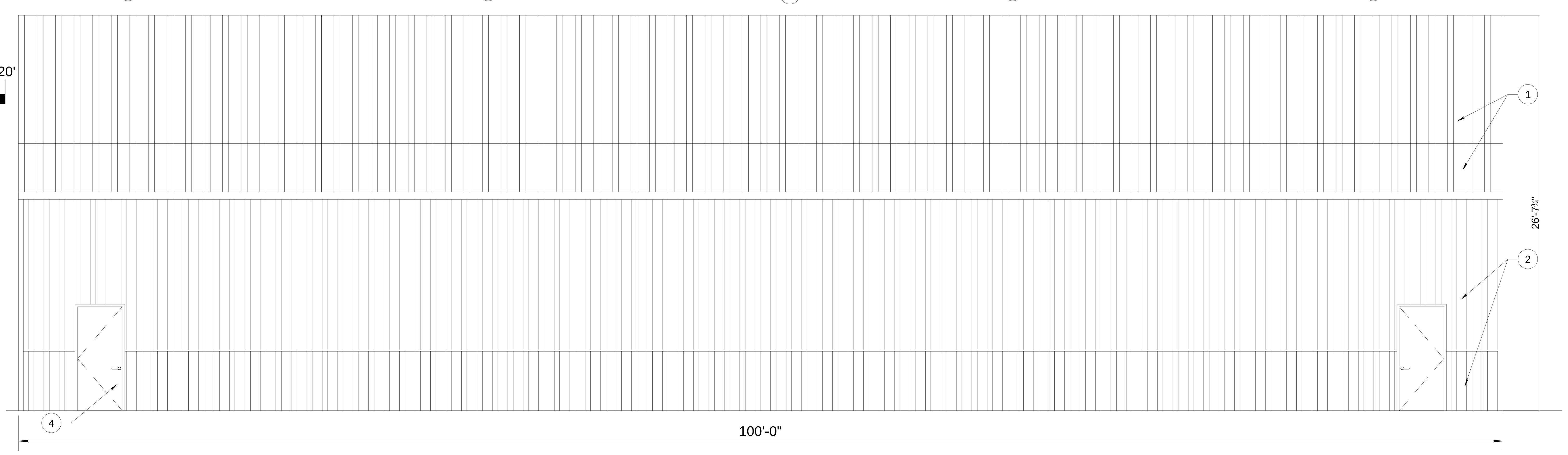
3/16" = 1'-0" (0' 5' 10' 20')



3 NORTH WALL ELEVATION

Scale: 3/16" = 1'-0"

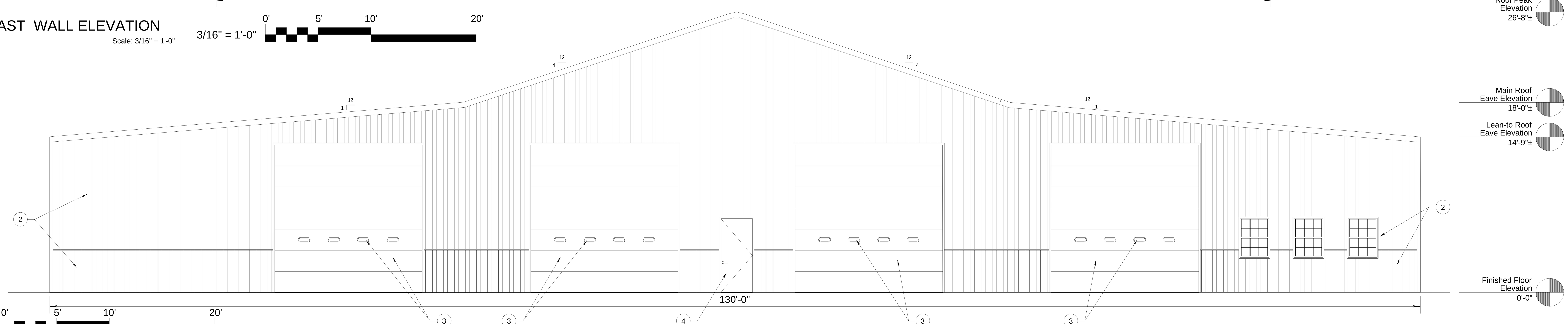
3/16" = 1'-0" (0' 5' 10' 20')



2 EAST WALL ELEVATION

Scale: 3/16" = 1'-0"

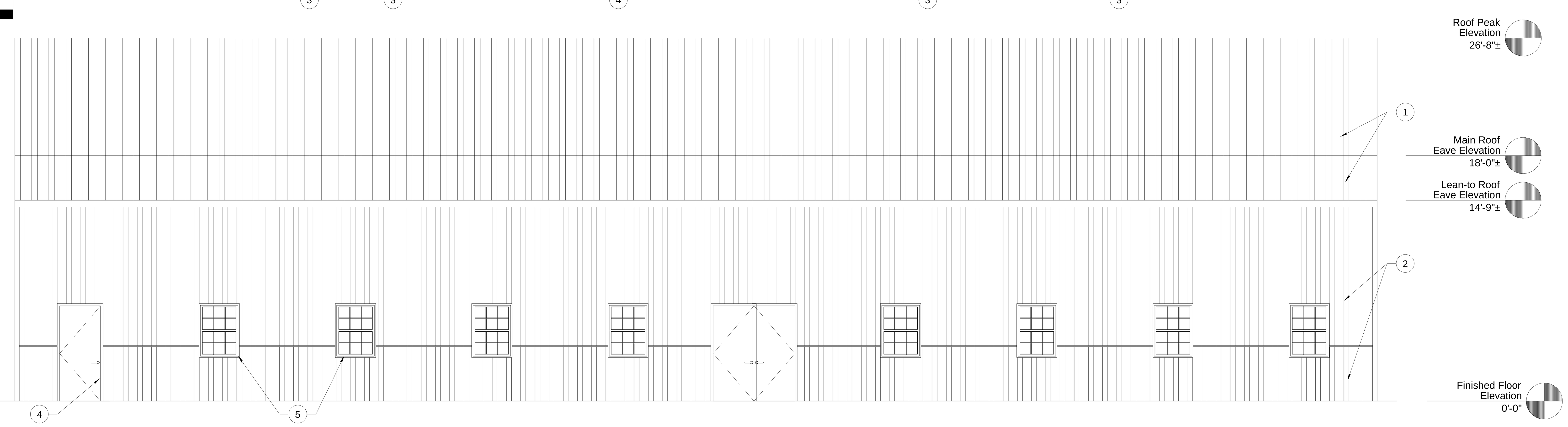
3/16" = 1'-0" (0' 5' 10' 20')



3/16" = 1'-0" (0' 5' 10' 20')

1 SOUTH WALL ELEVATION

Scale: 3/16" = 1'-0"



NOTES:

1. 29 GAUGE PRE-FINISHED STEEL ROOF PANEL 2' WIDE BY LENGTH, COLOR AND STYLE CHOICE BY OWNER.
2. 29 GAUGE PRE-FINISHED STEEL WALL PANEL 2' WIDE BY LENGTH, COLOR AND STYLE CHOICE BY OWNER.
3. 14'X14' GARAGE DOOR WITH NARROW GLASS WINDOWS @ 5' HEIGHT; DOOR LIFT STYLE, COLOR, AND INSULATION CHOICES BY OWNER.
4. $3^0 7^0$ STEEL DOOR
5. $3^0 4^0$ VINYL CLAD DOUBLE HUNG WINDOWS

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JUSTIN ROBINETTE
POLE BARN
301 CANAAN ROAD, MT PLEASANT, TN 38474

ELEVATIONS

DWG. No.

A-3.1

SCALE: AS NOTED

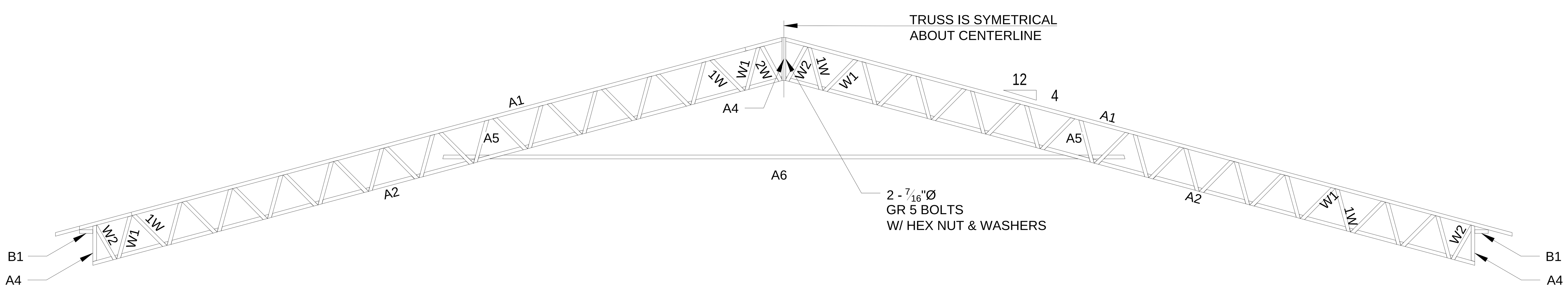
CADFILE: Justin Robinette Pole Barn 11 - 12 - 2024

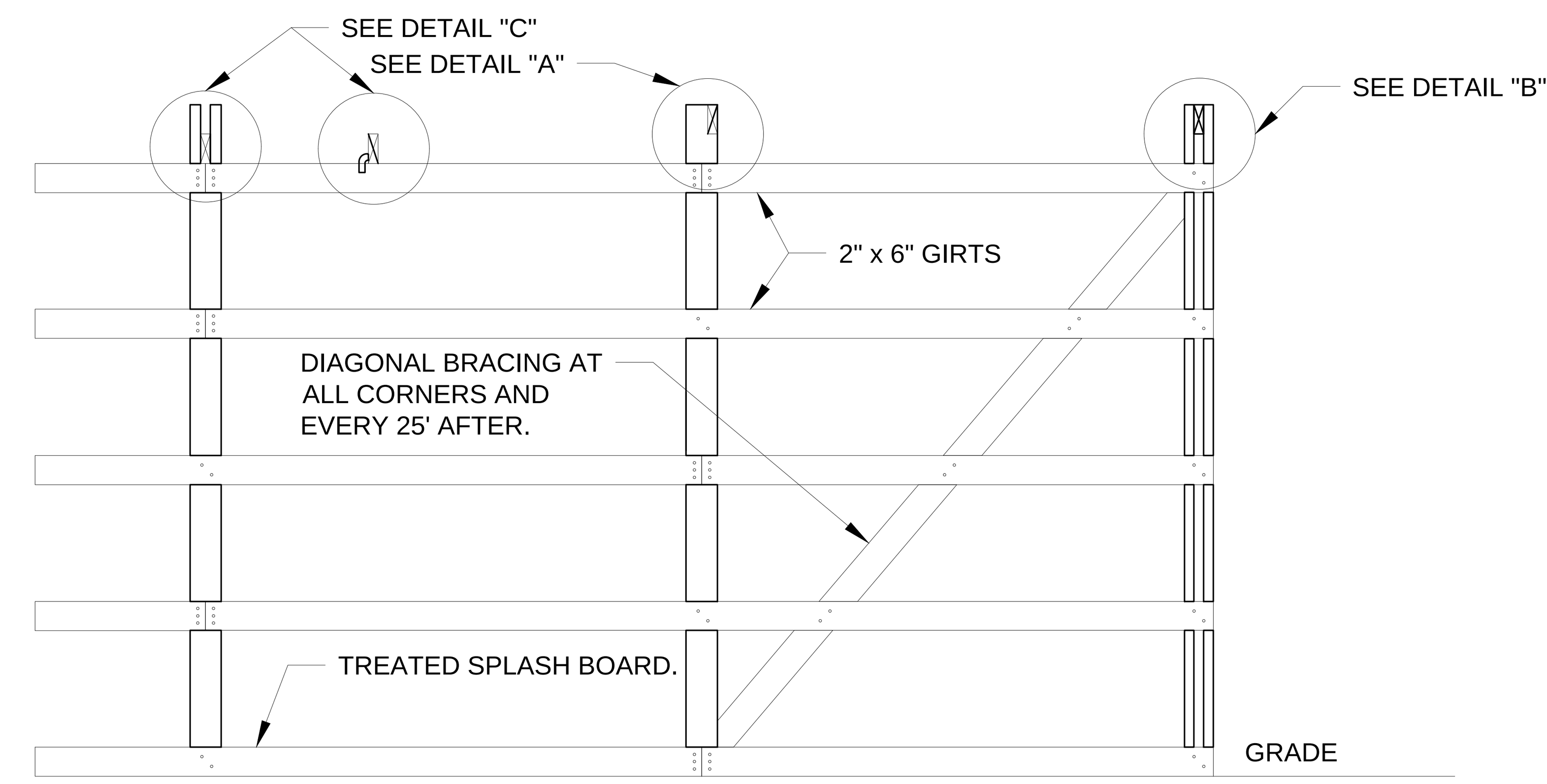
JOB No. 10 - 11 - 2023

REV.

ELEVATIONS

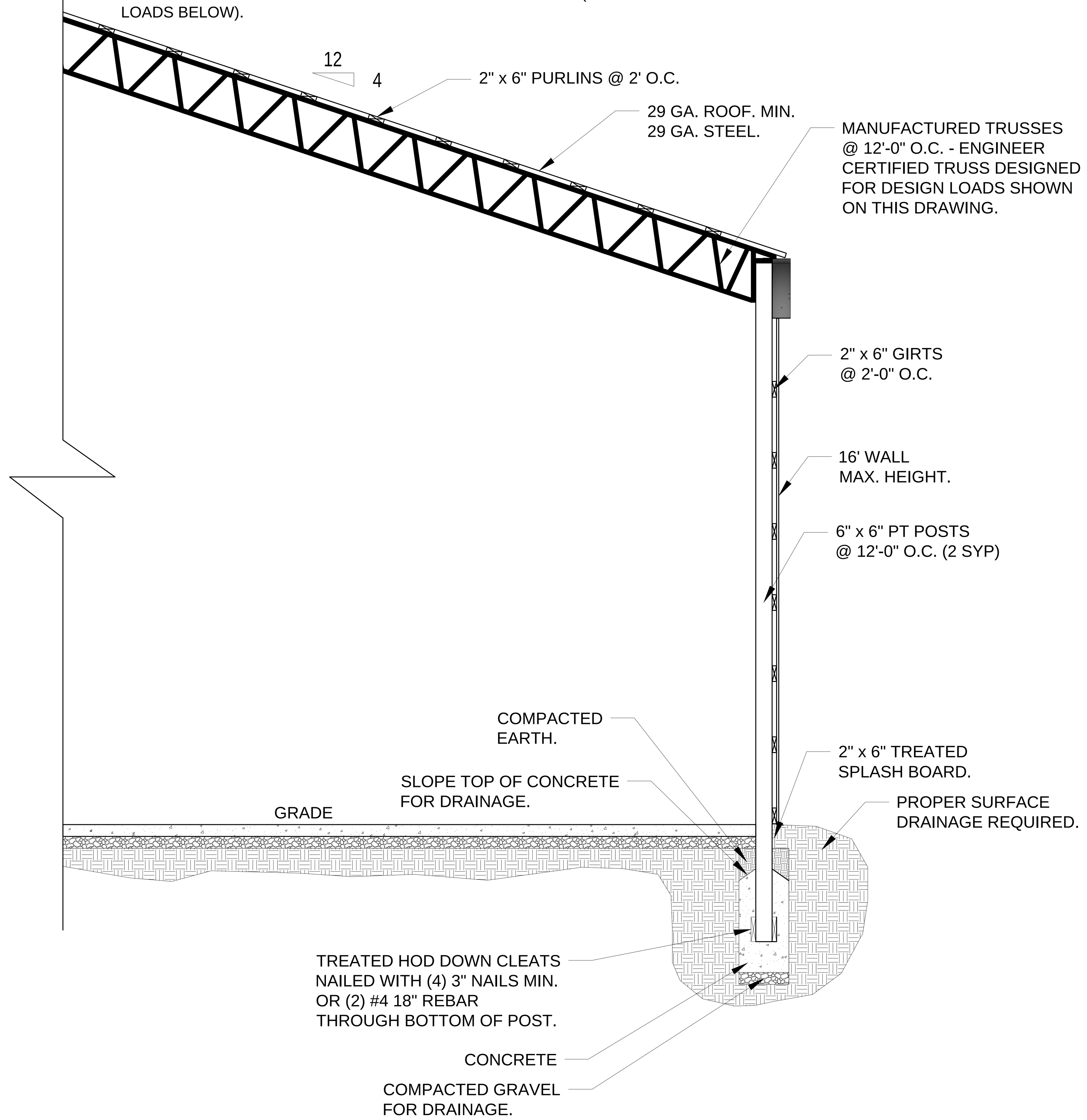
SCALE: 3/16" = 1'-0"

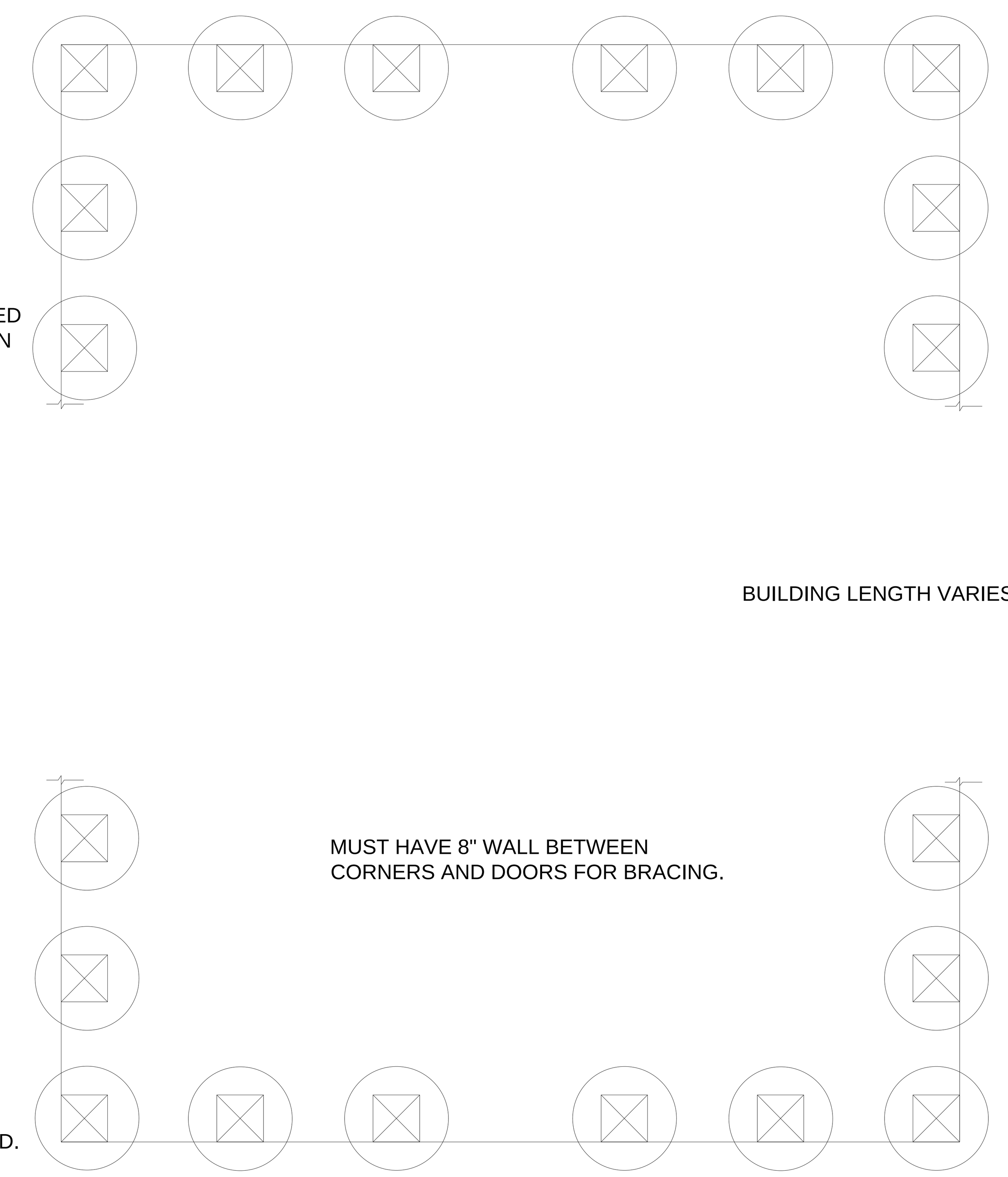


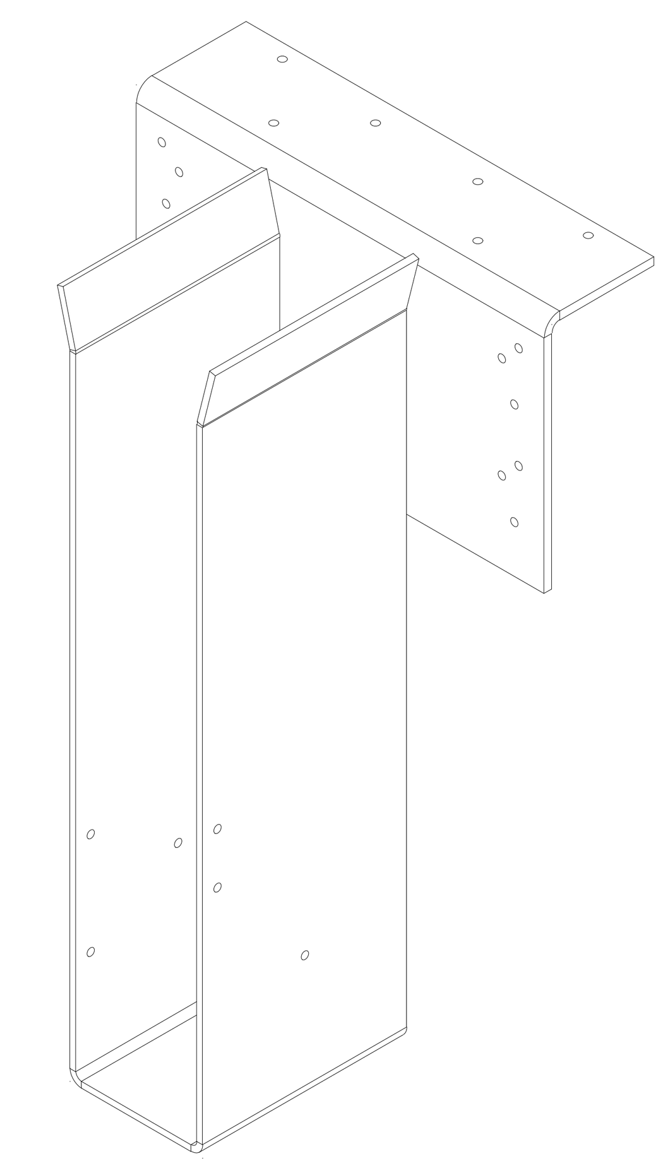


-- THIS DESIGN MAY ALSO BE USED FOR TRUSS LENGTHS SHORTER THAN 40 FEET WITH 4:12 ROOF SLOPE.

-- THIS DESIGN AND CONFIGURATION MAY BE USEDF FOR A 24 FT SPAN TRUSS TO PROVIDE A LARGER CAPACITY FOR SNOW LOAD (SEE SNOW LOADS BELOW).







- USE ALL SPECIFIED FASTENERS. VERIFY THAT THE HEADER CAN TAKE THE REQUIRED FASTENERS SPECIFIED IN THE TABLE.
- FOR ATTACHING TO MULTI-PLY HEADERS, REFER TO TECHNICAL BULLETIN TOP-FLANGE HANGER REDUCTIONS FOR MULTIPLE-PLY HEADERS (T-C-MPLYHEADR).
- FLATTEN EDGE OF HEADER TO MATCH TOP-FLANGE RADIUS.
- BEVEL-CUT THE CARRIED BEAM FOR SKEWED HANGERS.
- FOR HANGERS EXCEEDING THE JOIST HEIGHT BY MORE THAN 1/2", ALLOWABLE LOAD IS 50% OF THE TABLE LOAD.
- MAY BE USED FOR WELD-ON APPLICATIONS. MINIMUM REQUIRED WELD IS A 1/4" X 2 1/2" FILLET WELD AT EACH END OF THE TOP FLANGE; SEE GENERAL INSTRUCTIONS FOR THE INSTALLER, NOTE K, FOR WELD INFORMATION. WELD-ON APPLICATIONS PRODUCE MAXIMUM LOADS LISTED. FOR UPLIFT LOADS, REFER TO TECHNICAL BULLETIN TOP-FLANGE HANGERS WELDED TO STRUCTURAL STEEL MEMBERS (T-C-WELDUPLFT).
- MAY BE INSTALLED ON LEDGERS PROVIDED THE LEDGERS ARE MADE OF 4X SOLID SAWN OR 3 1/2" SCL SHOWN IN THE TABLE BELOW. THINNER LEDGERS MUST BE EVALUATED BY THE BUILDING DESIGNER.

1 HGLTV3.520 & HGLTV3.518X SIMPSON STRONG-TIE
HGLTV HEAVY TOP-FLANGE JOIST HANGER
SCALE: 3" = 1'-0"

NOTES: GIRTS 2' O.C. FOR POTENTIAL HOUSE / 3' O.C. ALLOWED FOR BARN OR SHOP ALL COLUMN PADS MUST BE FREE FROM STANDING WATER AT ALL TIMES. FINAL GRADES AROUND BARN MUST DRAIN STORMWATER AWAY FROM STRUCTURE ON ALL 4 SIDES.

NOTES:

1. PURLINS TO BE # 2 SYP, MINIMUM 2x6 AND SPACED AT A MAXIMUM 2'-0" O.C., UNLESS NOTED.
2. 12 FT TRUSS SPACING NOT ALLOWED FOR 30 PSF GROUND SNOW LOAD.
3. INCREASE IN ALLOWABLE STRESS FOR WIND LOADING HAS BEEN USED.
4. MEMBER DIMENSIONS ARE TO BE ADJUSTED FOR SHORTER TRUSS LENGTHS.
5. WEB CONFIGURATIONS AND PURLINS MAY VARY BUT MAINTAIN MAXIMUM 2'-0" SPACING.
6. CONTRACTOR RESPONSIBLE FOR TEMPORARY CONSTRUTION & PERMANENT BRACING.
7. FABRICATOR SHALL VERIFY DIMENSIONS BEFORE CUTTING AND/OR FABRICATING TRUSS.
8. FABRICATION AND WELDING PER AISC AND AWS.
9. DESIGN IS FOR TRUSS ONLY.

BILL OF MATERIALS

MARK	DESCRIPTION		LENGTH	NUMBER REQUIRED	MATERIAL
A1	TOP CHORD	L 1 1/2 x 1 1/2 x 3/16	21'-1"	2	A36
A2	BOTTOM CHORD	L 1 1/2 x 1 1/2 x 3/16	20'-6 1/4"	2	A36
A4	VERTICAL END	L 1 1/2 x 1 1/2 x 3/16	1'-5 1/2"	4	A36
A5	TIE	L 1 1/4 x 1 1/4 x 1/8	1'-10"	2	A36
A6	TIE	L 1 1/4 x 1 1/4 x 1/8	19'-2"	1	A36
W1	WEB	L 1 1/4 x 1 1/4 x 1/8	1'-7 3/4"	38	A36
W2	WEB	L 1 1/4 x 1 1/4 x 1/8	1'-5 1/2"	4	A36
B1	BASE	L 1 1/2 x 1 1/2 x 3/16	5 1/2"	2	A36

40' X 60' & 36' X 40' TRUSS PLANS

DESIGN LOADS

(APPLIED PER INTERNATIONAL BUILDING CODE (1BC) 2009)

TRUSS SPACING = 12' LIVE LOAD = 20 PSF DEAD LOAD = 2 PSF

TRUSS SPACING = 12' LIVE LOAD = 20 PSF DEAD LOAD = 6 PSF

TRUSS SPACING = 8' LIVE LOAD = 20 PSF DEAD LOAD = 10 PSF

WIND LOAD = 90 MPH (IBC 2009)

WIND LOAD = 115 MPH (IBC 2012)

SNOW LOADS = 15 PSF GROUND **SNOW LOAD** (FOR 40 FT TRUSS)

SNOW LOADS = 30 PSF GROUND **SNOW LOAD** (FOR 24 FT TRUSS)

(8' AND 10' TRUSS SPANS ONLY)

ENGINEER MUST APPROVE PAD, LOCATION OF PAD, AND DRAINAGE AROUND POLE BARN AFTER CONSTRUCTION. NO WATER IS TO DRAIN TOWARD FINISHED STRUCTURE.

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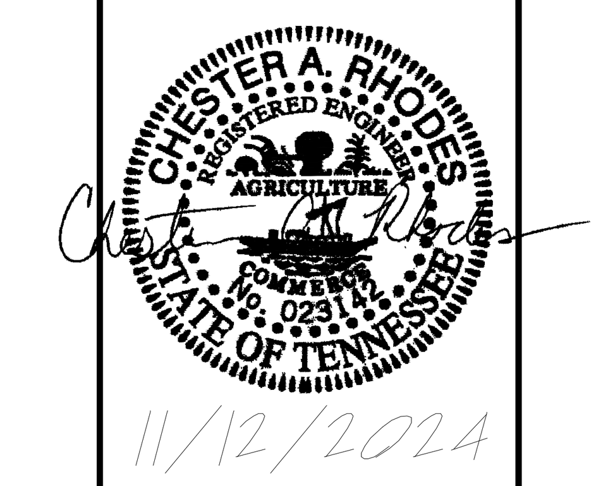

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POLE BARN
301 CANAAN ROAD, MT PLEASANT, TN 38474

TRUSS DETAILS

DWG. No.
A-3.2

SCALE: AS NOTED
CADFILE: Justin Robinette Pole Barn 11 - 12 - 2024
JOB No. 10 - 11 - 2023
REV.

TRUSS DETAILS SCALE: 3/8" = 1'-0"