

**MAIN ROOF FRAMING PLAN**

**PAGODA ROOF FRAMING PLAN**

**A. FABRICATION AND ASSEMBLY**

- UNLESS OTHERWISE NOTED, BUILDING MATERIALS SPECIFIED ON THIS DRAWING ARE SUPPLIED BY AMISH COUNTRY GAZEBOS.
- WOOD MEMBERS ARE PRECUT PRIOR TO SHIPPING AND SOME BUILDING ELEMENTS MAY BE PRE-ASSEMBLED.
- BUILDING MATERIALS (LUMBER, FASTENERS, HARDWARE, ASSEMBLIES) ARE SHIPPED AS A COMPLETE PACKAGE TO THE SITE FOR FINAL ASSEMBLY.

**B. BUILDING CODES AND STANDARDS**

- THE 2015 INTERNATIONAL BUILDING CODE (IBC), INCLUDING ALL CODES AND SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION AND QUALITY CONTROL OF ALL WORK PERFORMED ON THE PROJECT.
- ADDITIONAL DESIGN STANDARDS FOR MATERIALS SHALL BE FOUND IN THE APPROPRIATE SECTIONS THAT FOLLOW.

**C. DESIGN LOADS**

1. ROOF DEAD LOAD	6 PSF
2. ROOF LIVE LOAD	20 PSF
3. SNOW LOAD	0
a. P <sub>s</sub> (GROUND SNOW)	20 PSF
b. I <sub>s</sub> (IMPORTANCE FACTOR)	1.0
c. C <sub>e</sub> (EXPOSURE FACTOR)	0.9
d. C <sub>t</sub> (THERMAL FACTOR)	1.2
e. P <sub>f</sub> (FLAT ROOF SNOW LOAD)	15.12 PSF
4. WIND LOADS	
a. WIND SPEED (V <sub>w</sub> )	115 MPH
b. RISK CATEGORY	II
c. EXPOSURE CATEGORY	B

**D. FOUNDATIONS**

- EXCAVATED SURFACES SHALL BE FREE OF ALL ORGANIC MATERIAL, TOP SOIL AND ANY OTHER FOREIGN MATERIAL.
- 3,500 PSI CONCRETE STRENGTH AT 28 DAYS.
- SOIL DESIGN ASSUMPTIONS:
  - ALL DRAINAGE VERTICAL FOUNDATION PRESSURE OF 2,000 PSF.
  - LATERAL BEARING PRESSURE OF 150 PSF/FT.
  - DESIGN ASSUMES NO HYDROSTATIC PRESSURE AND NO EXPANSIVE SOILS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS.
- REINFORCING SHALL BE SUPPORTED TO REMAIN IN PLACE FOR THE DURATION OF THE CONCRETE PLACEMENT.

**E. WOOD**

- DIMENSION LUMBER DESIGNED IN ACCORDANCE WITH 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) AND SUPPLEMENT.
- UNLESS NOTED OTHERWISE, DIMENSION LUMBER SHALL BE:
  - #1 SOUTHERN PINE
  - SURFACED FOR IMPROVED APPEARANCE AS FOLLOWS: 2X4: 1-3/8" X 2-3/8"; 2X6: 1-3/8" X 5-1/4"; 2X8: 1-3/8" X 7"; 2X10: 1-3/8" X 9"
  - UNLESS NOTED OTHERWISE, POSTS SHALL BE:
    - 5X5: 4-1/2" X 4-1/2" SOLID SAWN #2 SOUTHERN PINE
    - UNLESS NOTED OTHERWISE, LUMBER AND POSTS SHALL BE PRESURE TREATED AS FOLLOWS:
      - LUMBER SHALL BE TREATED WITH WATERBORNE PRESERVATIVES IN ACCORDANCE WITH ANNA STANDARD L1 TO THE REQUIREMENTS OF USE CATEGORY 3B (UC3B) OR GREATER.
      - ALL TREATED LUMBER SHALL BE KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT.

**PROVIDENCE ENGINEERING CORP.**  
10 EISENHOWER BLVD. - LANCASTER, PA 17603  
REG. JOB # 27004

**AMISH COUNTRY GAZEBOS**  
340 HOSTETTER ROAD  
MANHEIM, PA 17545  
1-800-700-1777 Ext.151

**20' OCTAGON VINYL GAZEBO PAGODA ROOF STYLE**

DATE	1/25/2021	SCALE	1/4" = 1'-0" U.N.O.
REVISIONS		P.N.	15 - 21
		SHEET NO.	1 OF 2

**ELEVATION**

**CROSS SECTION**

**RAFTER PLATE STIFFENER DETAIL**

**SECTION A**

**SECTION THRU PIER**

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		SHEET NO.	2 OF 2

OR APPROVED EQUAL

OR APPROVED EQUAL

**LENGTH OPTIONS**

6' BENCH

8' BENCH

**NOTES**

- ALL STL. MEMBERS COATED W/ ZINC RICH COATING THEN POLYESTER POWDER COATED.
- BENCH IS SHIPPED UNASSEMBLED.
- 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

**DuMor, inc.**  
P.O. Box 142 Mifflintown, PA 17059-0142

**BENCH**

SCALE	NONE	TITLE	BENCH
DATE DRAWN	7/27/03	REV.	
DRAWN BY	JRB	DRAWING NUMBER	160 SERIES
DATE REV.	3/29/07	REV. BY	AMH
		SHEET	1 OF 2

OR APPROVED EQUAL

**NOTE:**

- DURING ASSEMBLY PROCEDURE, DO NOT COMPLETELY TIGHTEN HARDWARE.
- THE ACTUAL PARTS WILL NOT BE NUMBERED; NUMBERS ONLY APPLY TO DRAWING.

**STEP 1:**

USE 2 - PCS. CAST IRON BENCH SUPPORT W/ BACK ( 1 )

1 - PC. 6" ALL STL WELDED SEAT SECTION ( 2 )

4 - PCS. 1/2" X 2 1/2" FLT. SKT. HD. CAP SCR. ( 3 )

ATTACH CAST IRON BENCH SUPPORT W/ BACK ( 1 ) TO 6" ALL STL WELDED SEAT ASSEMBLY ( 2 ) USING HARDWARE ( 3 ). TIGHTEN TO SNUG FIT.

**STEP 2:**

UPON COMPLETION OF BENCH ASSEMBLY SQUARE ALL COMPONENTS THEN TIGHTEN ALL HARDWARE.

**STEP 3:**

MOUNT AND ANCHOR AS SPECIFIED.

ITEM	QTY	PART NO.	DESCRIPTION
1	2	9-160-01-01	CAST IRON BENCH SUPPORT FOR BACKREST
2	1	0-160-00-02	6" STL SEAT
3	4	1-12-085	1/2" X 2 1/2" FLT SKT HD CAP SCR

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**BENCH ASSEMBLY**

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DATE DRAWN	7/27/03	REV.	
DRAWN BY	JRB	DRAWING NUMBER	160 SERIES
DATE REV.	3/29/07	REV. BY	AMH
		SHEET	2 OF 2

OR APPROVED EQUAL

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**SOMMERLIN**

**CONSTRUCTION DETAILS: SHEET 10**

Design By: R/LH  
Drawn By: R/LH  
Checked By: R/LH

Volz Project # 22074

06-28-21  
C39