



Animal Ark

Plan No. 786

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This do-it-yourself animal ark project will keep little hands and big imaginations busy when it's too wet to go outside. A natural for rainy afternoons, the project features pairs of lions, giraffes, bears, pigs, cows, elephants, horses and camels that fit on a sturdy ark. And when the deluge is over, the whole menagerie is ready to go outside into the sunshine for outdoor fun.

The finished ark measures 27 inches long by 11 inches wide by 10 inches tall, and each animal measures approximately 4 inches long by 4 inches tall.

Bill of Material

Quantity	Size	Material	Item
1	2" x 12" x 28"	pine	A
1	1" x 6" x 84"	pine	B, C, D, E, F
4	1" x 12" x 12'	lumber of choice*	G, animals**
1 box	1 1/4"	finish nails	
1 bottle		wood glue	
1 bottle		mineral oil	

*We used fir, mahogany, pine and walnut.

**Quantity listed is enough for two of each animal.

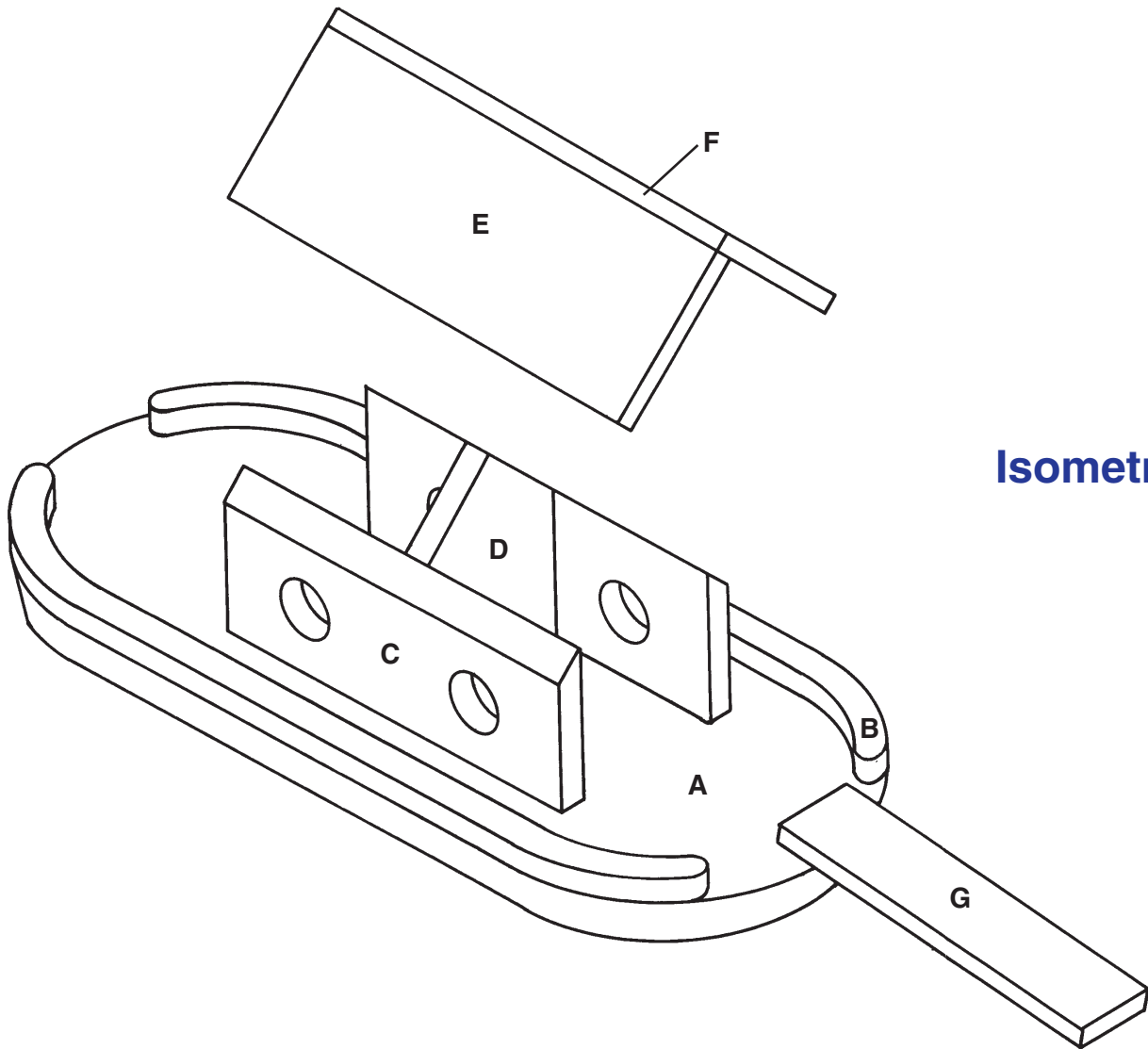
Cutting Schedule

Part	Qty	T	W	L	Material
A	1	1 1/2"	11"	27"	pine
B	2	3/4"	3 1/4"	25 7/8"	pine
C	2	3/4"	4 3/4"	12"	pine
D	1	3/4"	7 1/8"	4 3/4"	pine
E	1	3/4"	4 3/4"	14"	pine
F	1	3/4"	5 1/2"	14"	pine
G	1	3/4"	2 1/2"	12"	lumber of choice
animals	16	3/4"	see traceable patterns		lumber of choice

*Board D is made up of two boards edge-glued to achieve width
(see Figure 1)

NOTES

1. Read all instructions and check materials before beginning work.
2. Read manufacturer's instructions before operating equipment.
3. **Always** wear safety glasses.
4. Use wood glue and 1 1/4" finish nails on all joints.



Isometric

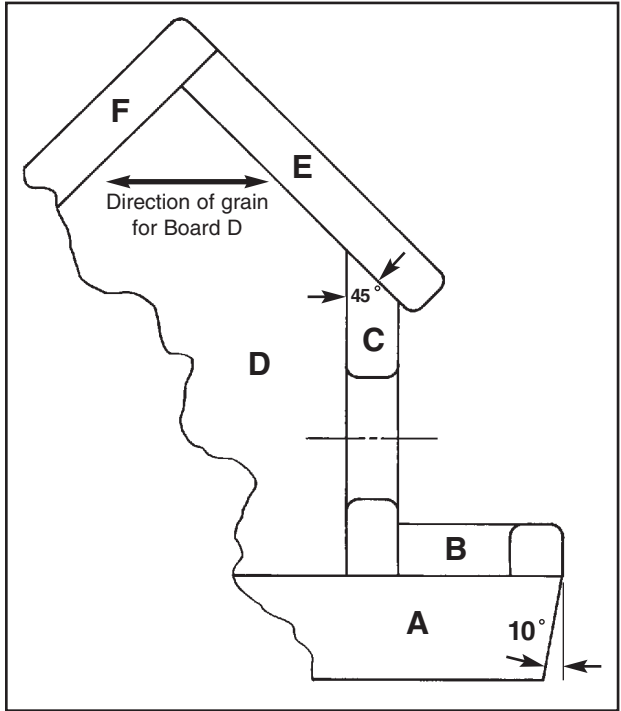


Figure 1
Ark Cross Section

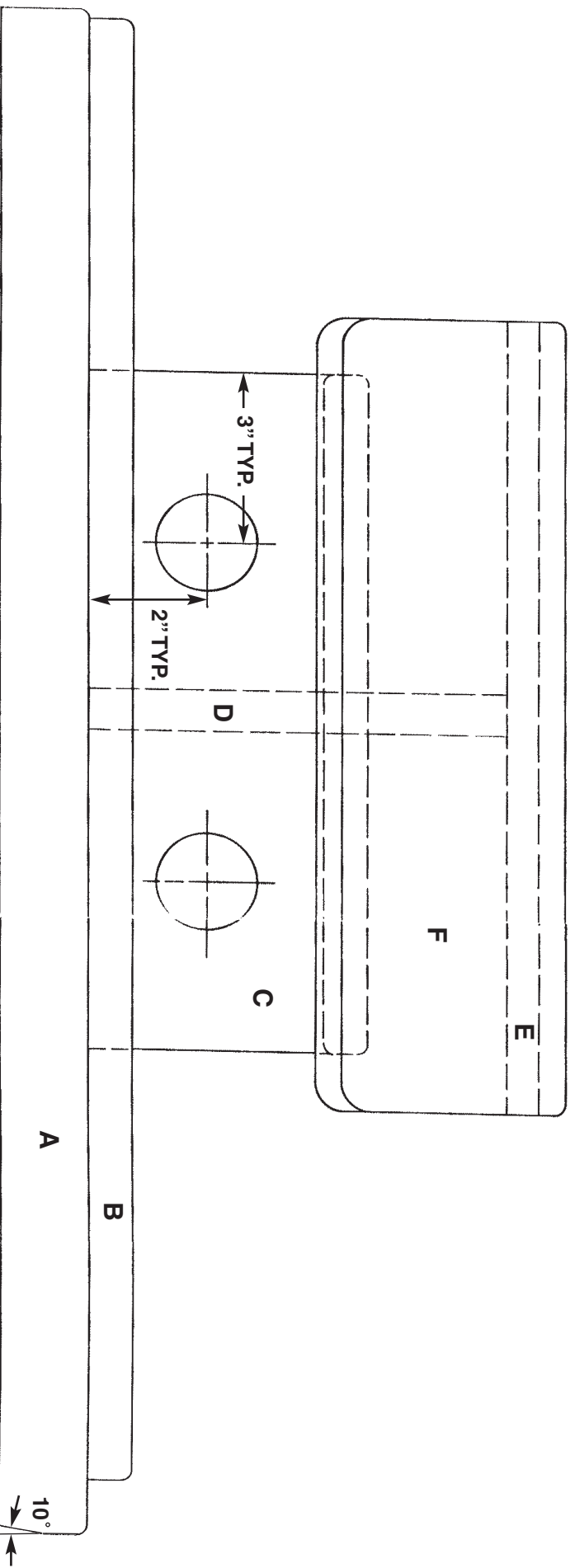
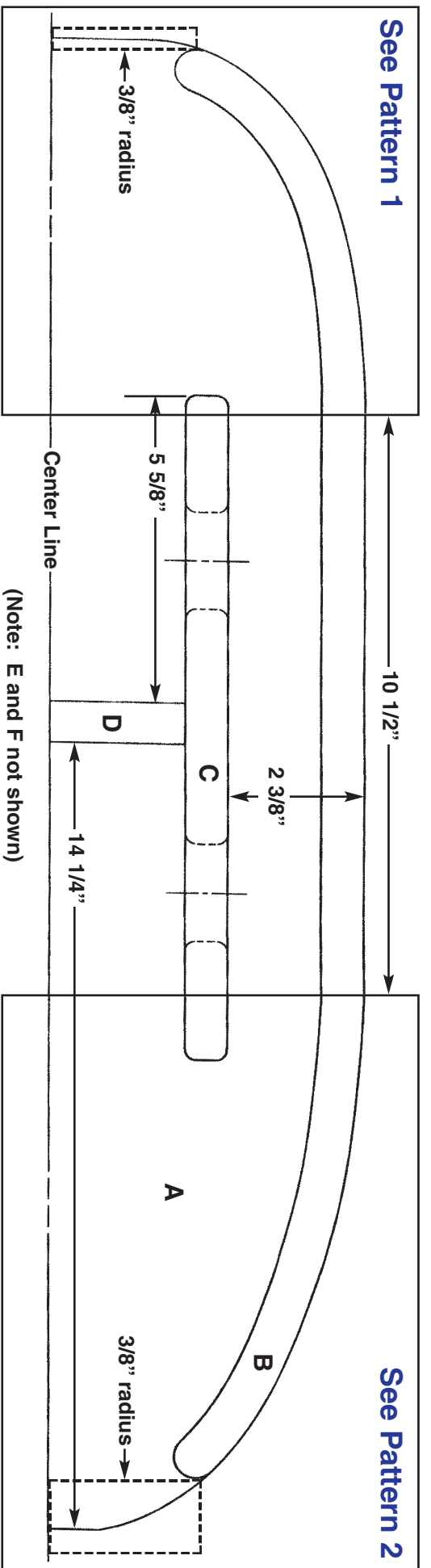
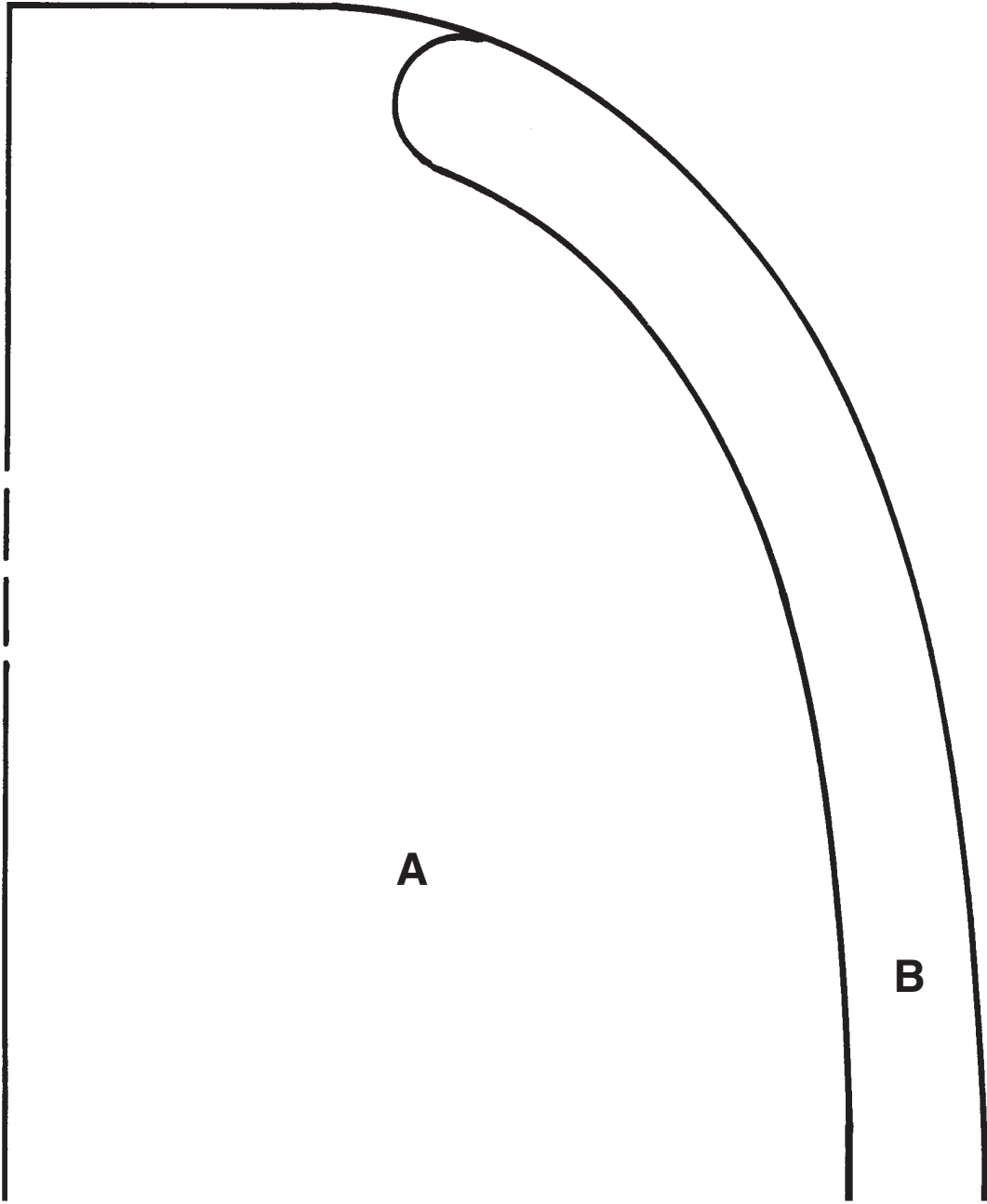
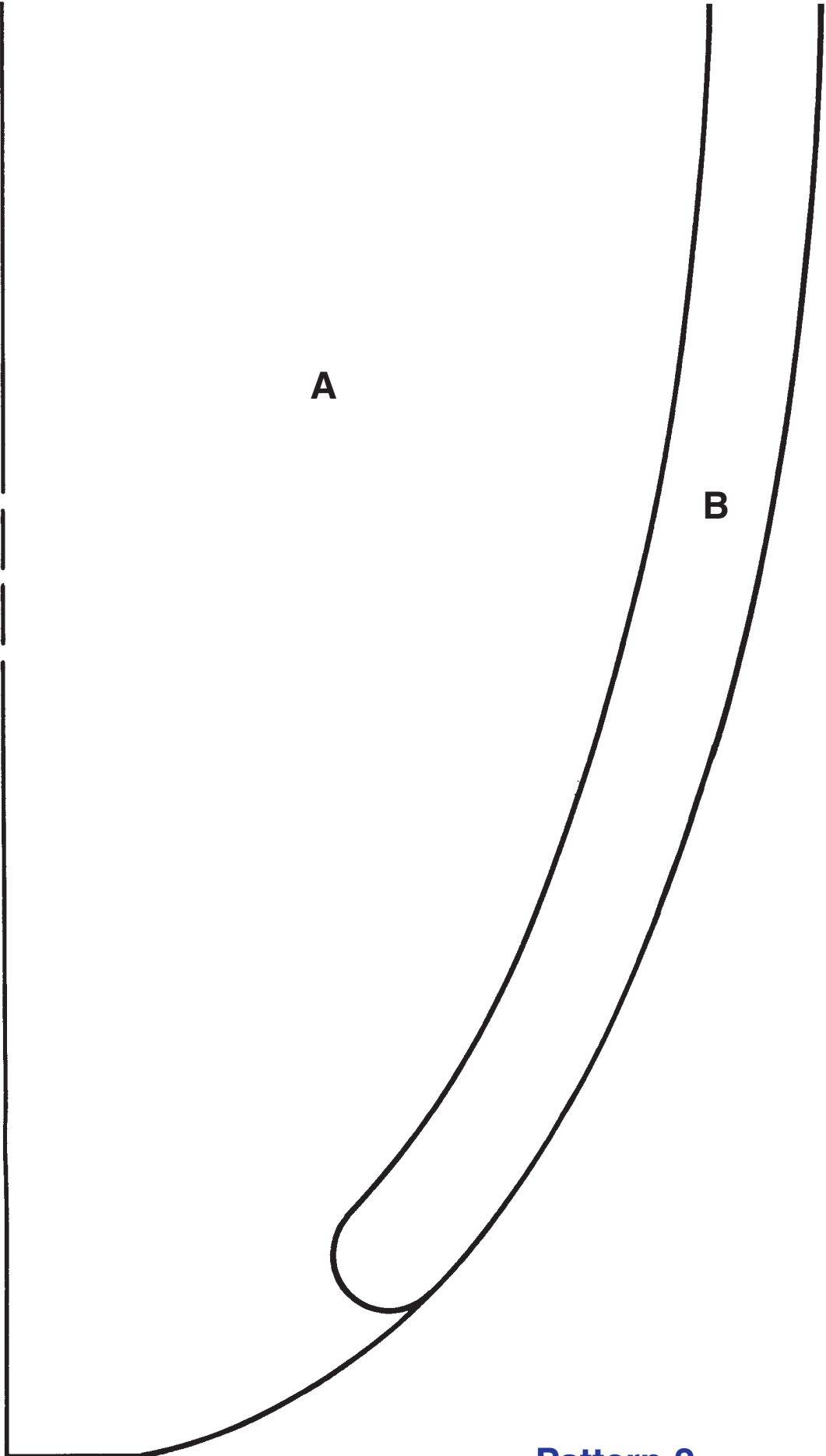


Figure 2
Ark Construction Diagram



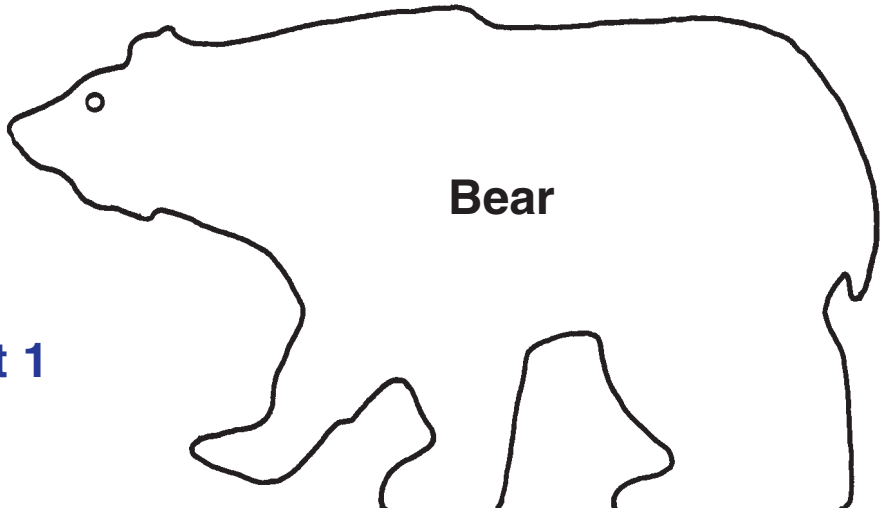
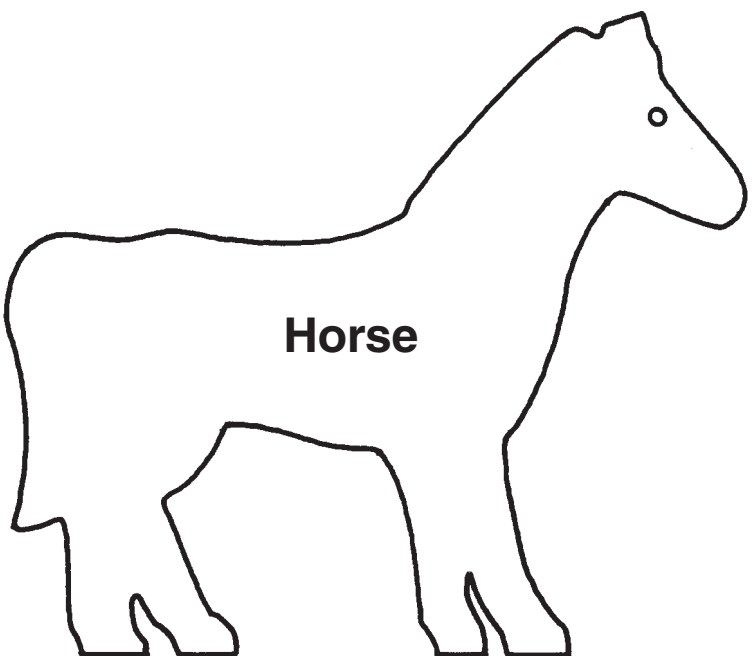
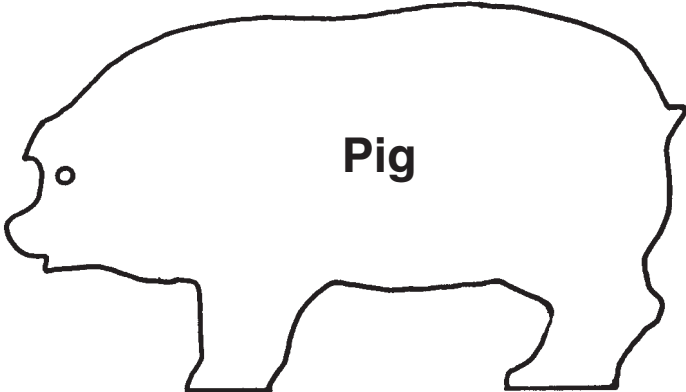
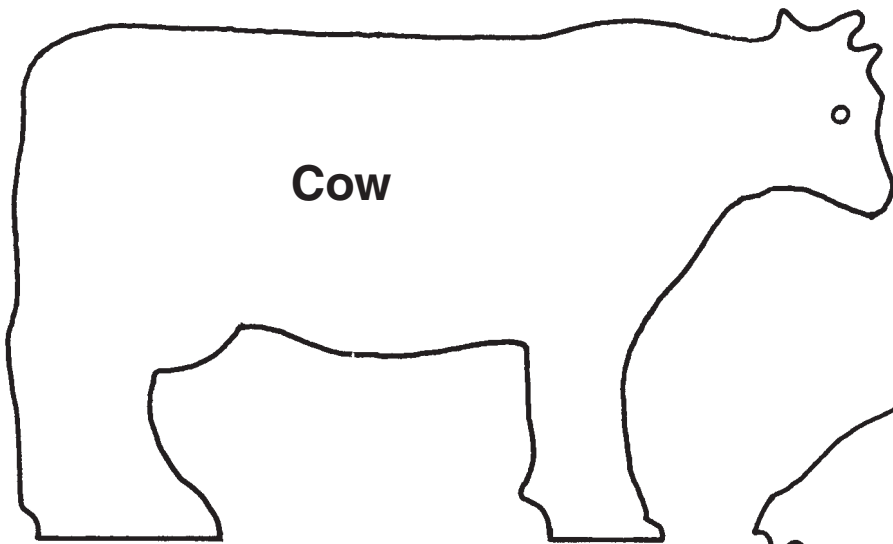
Pattern 1

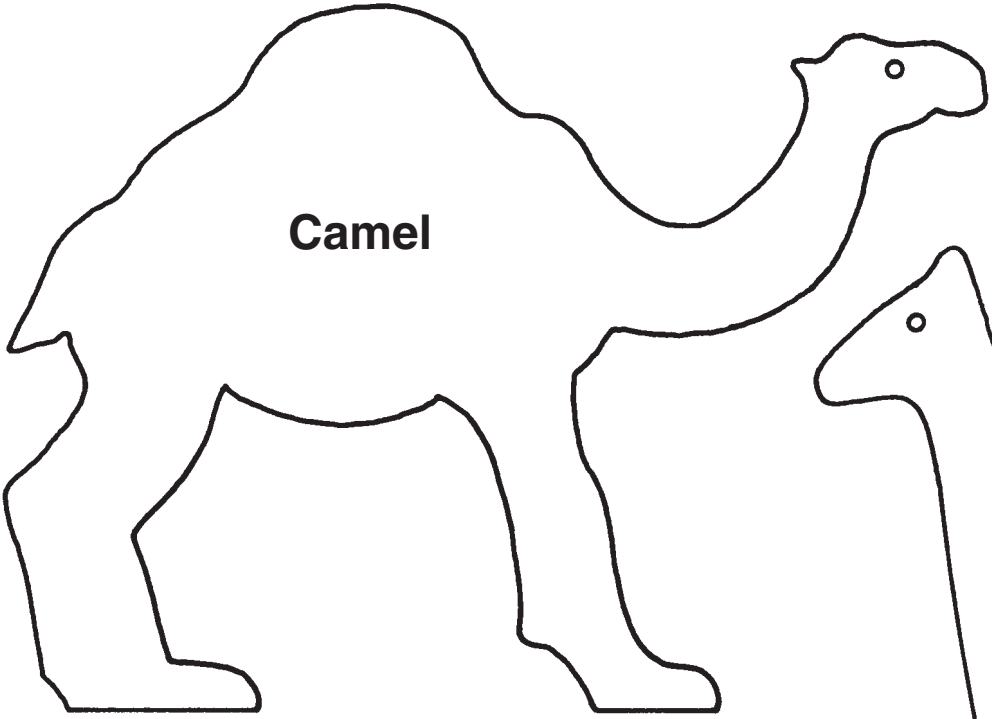


A

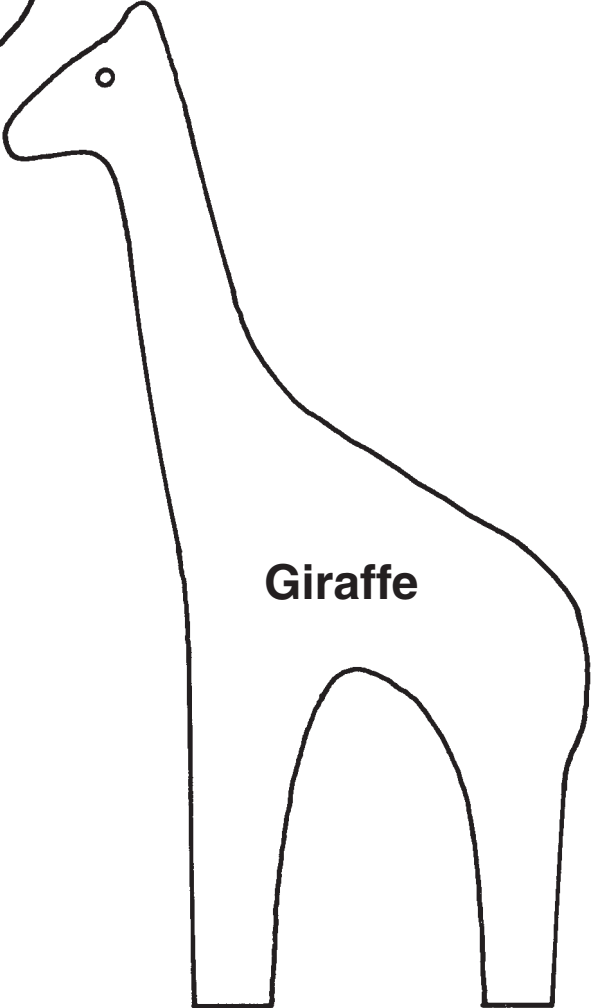
B

Pattern 2

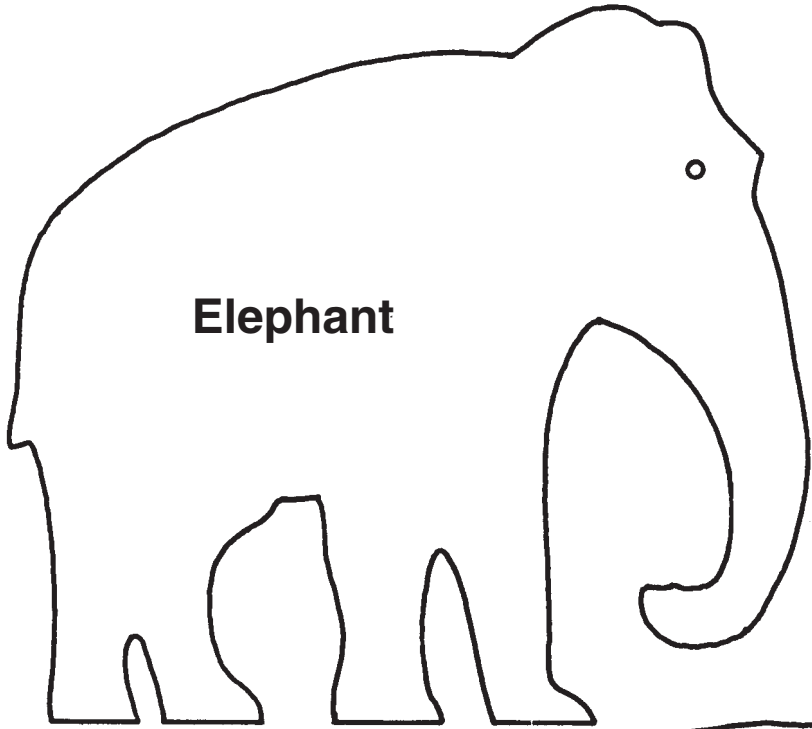




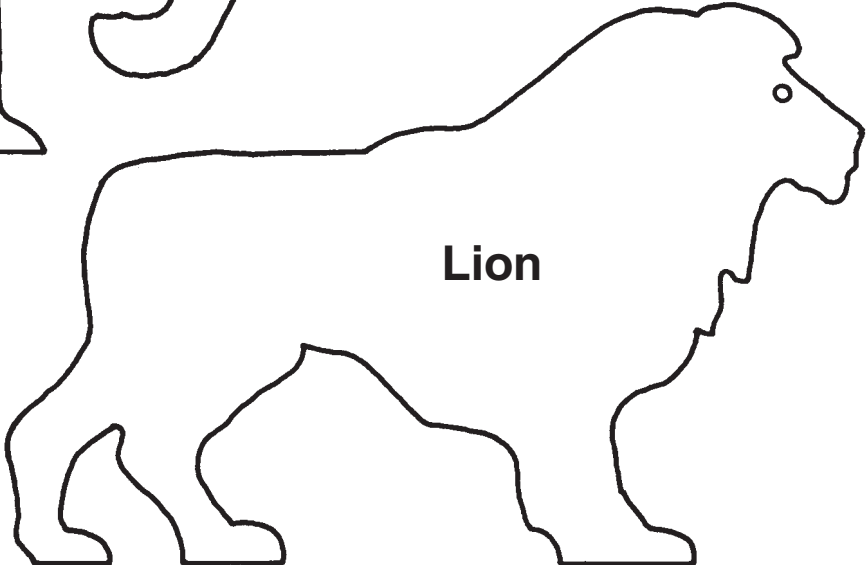
Camel



Giraffe



Elephant



Lion

Assembly Instructions

Page One

Read all instructions before beginning any work. Cut all material to sizes shown in cutting schedule.

1. Cut out all parts. Refer to Cutting Schedule, Isometric, Figures 1 and 2 and Patterns 1 and 2. Note that ark base (A) is cut out with a 10° bevel around the edges and deckhouse sides (C) have a 45° bevel on the top edge.
2. Place rails (B) in position on base (A). Make a mark at either end of both boards (B) and remove from board (A). Route a $3/8$ " radius between the marks at either end of board (A). Refer to Figure 2.
3. Attach rails (B) to base (A) using glue and 1 $1/4$ " finish nails. Refer to Isometric, Figures 1 and 2 and Patterns 1 and 2.
4. Drill two 1 $3/4$ " portholes in deckhouse sides (C). Refer to Figure 2.
5. Attach roof board (E) to roof board (F) using glue and 1 $1/4$ " finish nails. Refer to Isometric and Figure 1.
6. Route a $3/8$ " radius on all all exposed (when assembled) edges of boards (B), (C), (E), (F) and (G).
7. Attach deckhouse sides (C) to deckhouse divider (D) using glue and 1 $1/4$ " finish nails. Refer to Isometric and Figure 2.
8. Attach deckhouse (C, D) to base (A) using glue. Refer to Isometric and Figure 2.
9. Attach deckhouse roof (F, E) to deckhouse (C, D) using glue and 1 $1/4$ " finish nails. Refer to Isometric and Figure 2.
10. Fill all nail holes and sand completed ark.
11. Trace, cut out and sand animals. Drill $1/16$ " diameter by $1/16$ " deep holes for the animals' eyes. Refer to Animal Pattern Sheets 1 and 2.
12. Apply nontoxic mineral oil finish to ark and animals.