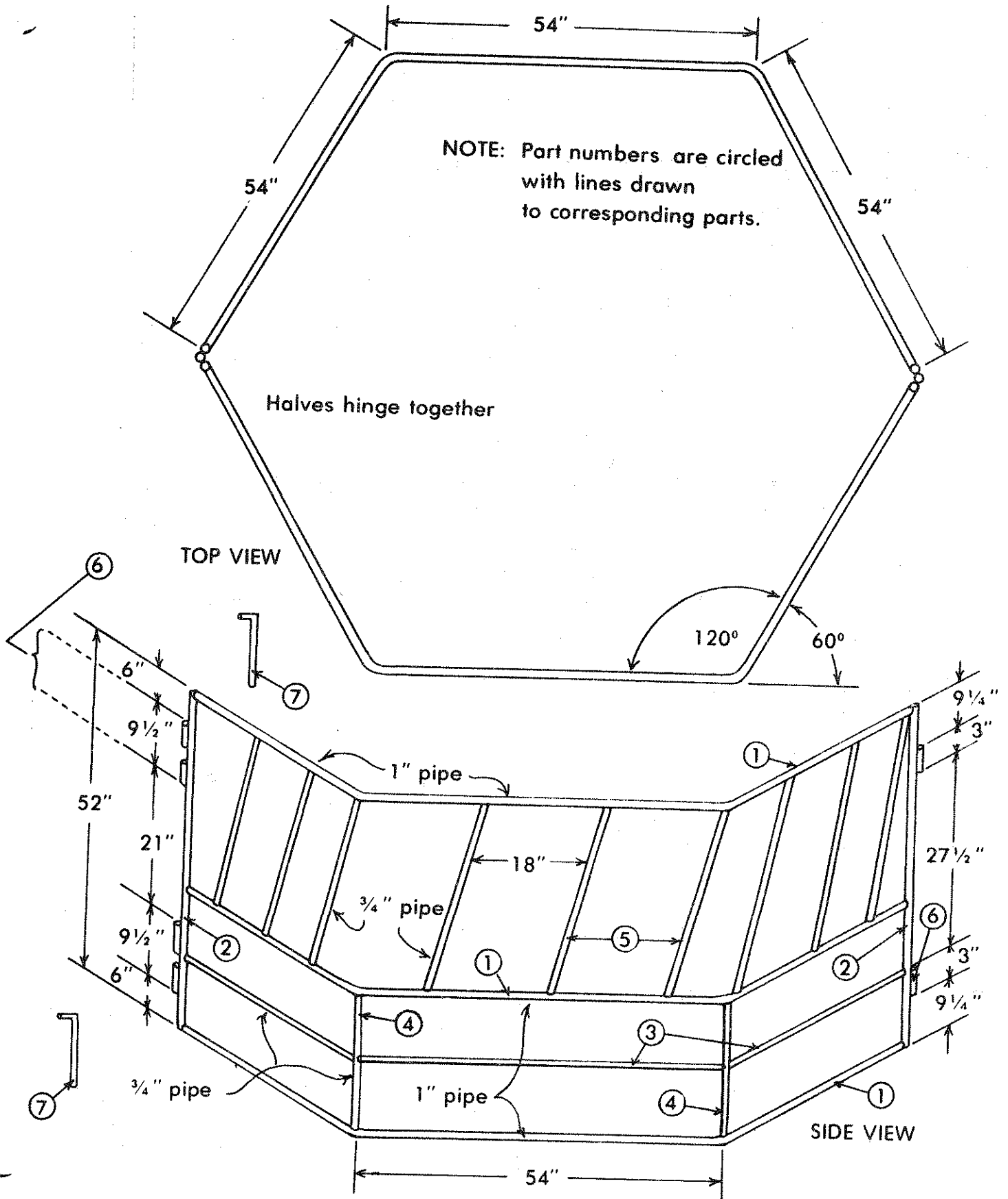


AG-310-P

Hexagon Hay Feeder



HEXAGON HAY FEEDER

by

Glen Shinn

&

LeRoy Hope

BILL OF MATERIALS

Part No.	No. of Pieces	Description	Length	Name
1	6	1" pipe	13'6" (162")	Frame crossmembers
2	4	1" pipe	4'4" (52")	Frame uprights
3	6	3/4" pipe	4'5 1/4" (53 1/4")	Short crossmembers
4	4	3/4" pipe	1'7 1/2" (19 1/2")	Short uprights
5	18	3/4" pipe	2'9" (33")	Z-Bars
6	12	3/4" pipe	3" (3")	Hinges
7	4	5/8" rod	1'0" (12")	Hinge rods

CONSTRUCTION PROCEDURE

- STEP 1. Using Part No. 1, make a 60° bend 54" from each end. The bends may be made by using a hydraulic bender. Complete all 6 members so they will match.
- STEP 2. Tack weld top and bottom members (Part No. 1) to the frame uprights (Part No. 2) as shown in the side view. The middle member should be located approximately 22" above the bottom pipe depending on size and type of cattle. Tack weld short uprights (Part No. 4) at each bend.
- STEP 3. Tack weld short crossmembers (Part No. 3) on centerline between the bottom pipe and the middle member.
- STEP 4. Tack weld the Z-bars (Part No. 5) on approximately 18" centers. You may want to add one more Z-bar to reduce the openings to approximately 16".
- STEP 5. Complete all welds.
- STEP 6. Construct second side using steps 2-5.
- STEP 7. Tack weld hinge assembly as shown (Part No. 6 & 7). Complete welds.
- STEP 8. Clean all welds. Apply a good primer and color coat of paint.

AVAILABLE FROM: Instructional Materials Laboratory
10 Industrial Education Building
University of Missouri-Columbia
Columbia, Missouri 65201