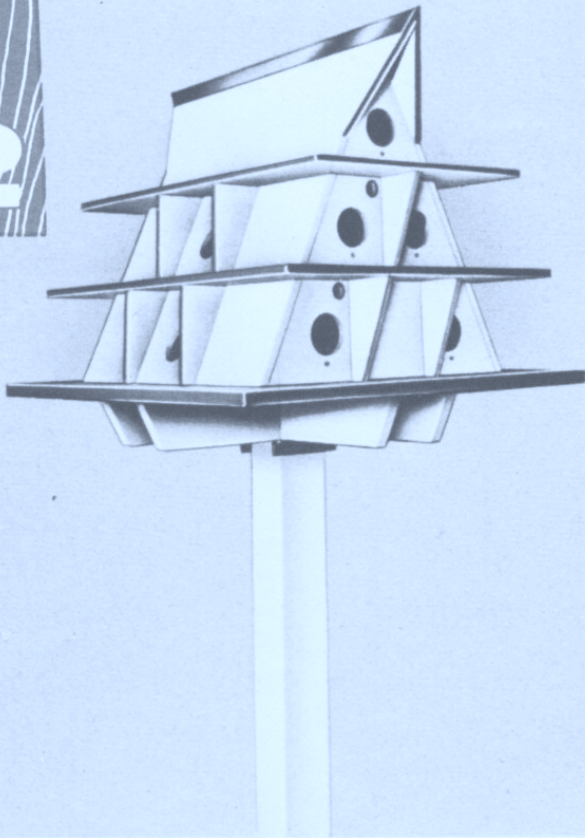


*Here is a set of
Project Plans
from*



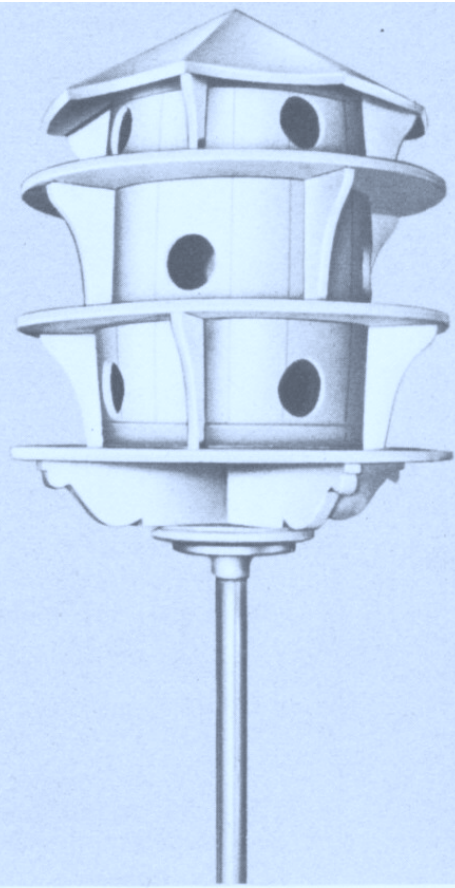
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(Photo No. 1)

STEEP GABLE DESIGN



(Photo No. 2)

NAIL KEG DESIGN

2 MARTIN HOUSE DESIGNS

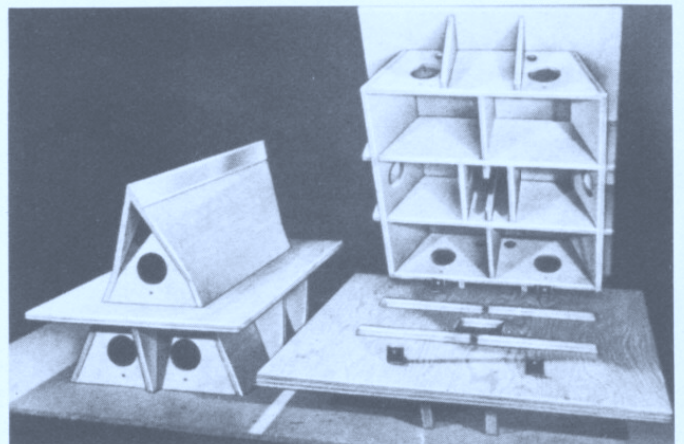
Plan now to build one of these martin houses to make your yard a haven for colorful martins this summer. Featured here are two types of martin house designs, one is a steep gable roof design, made in three sections and the other design is made from a standard nail keg. Either one will make a very interesting project that will add the charm of nature to your back yard.

A martin house is usually placed on a 4 x 4 pole about 14 to 20 feet high. It should be placed a few feet away from trees or buildings. A means for lowering the house should be provided for cleaning or storing for the winter months. If it cannot be stored, the entrance holes should be covered with building paper to keep out starlings or sparrows until the return of the martins the following year.

The entire gable design bird house is made of $\frac{1}{2}$ inch waterproof (exterior) pine plywood except for the base board which is $\frac{3}{4}$ inch thick. Cut all pieces to size as indicated on the drawing. The front and back ends are angle cut on the circular saw with the miter gage set at 67° . The division boards in the bottom and center sections are half lapped, see Fig. No. 1. To make the taper cuts on the side pieces (see drawing for widths), set the blade or arbor at 23° . Be sure to bore the entrance holes as well as the vent holes in the end and side piece before assembling the sections. The assembled sections are mounted one over the other and held together with #10-32 x

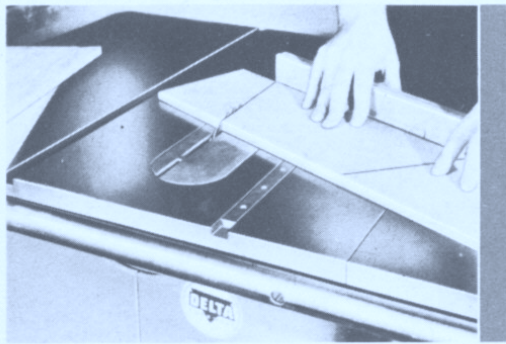
$\frac{3}{4}$ " flat head machine screws and 1 x 1 angle brackets (see Fig. No. 3 and Photo No. 3). The entire assembly rests on a support made of $\frac{3}{4}$ x 3 inch stock. This support is assembled with half lap joints and rests on 1 x 1 angle iron bolted to a 4 x 4 foot post, see Fig. Nos. 1 and 2.

Finish the project with a coat of wood preservative before applying two coats of white outside paint. Trim the platform edges, roof extension, platform supports, as well as the base supports with a green paint.



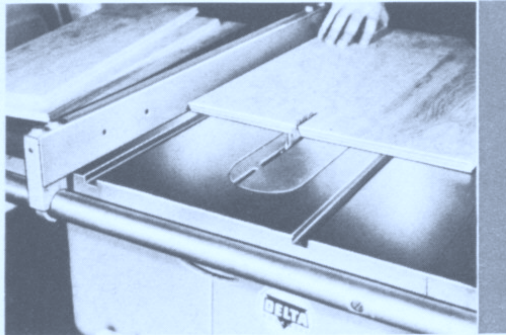
(Photo No. 3)

Here the top and center sections are shown removed from bottom section of the martin house. The bottom section is raised to show the angle brackets used for fastening the sections together. Note the narrow cleats nailed to the baseboard. These help hold the sections in place.



Mark off the lengths of the front and back end pieces using the dimensions given in the drawing (page 48). The pieces are cut on the circular saw with the miter gage set at 67° .

(Photo No. 4)



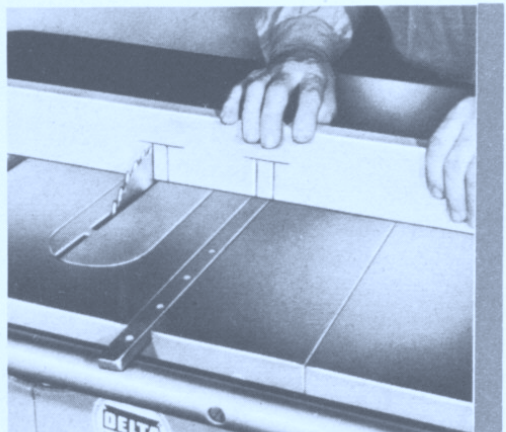
After cutting the stock to width, the sides are bevel cut on the circular saw with the blade tilted at 23° . The pieces for the bottom and center sections are $6\frac{7}{8}$ inches wide. The top section pieces are $11\frac{3}{4}$ inches wide.

(Photo No. 5)



Entrance holes for each compartment are made on the drill press with a barrel saw or with a $2\frac{1}{2}$ inch multi-spur bit as shown in photo to the left. Note the $\frac{3}{8}$ inch vent hole.

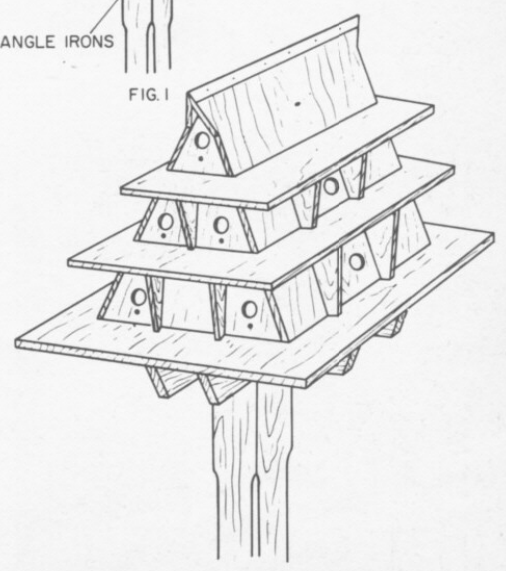
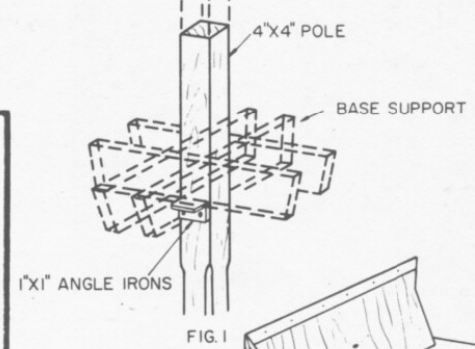
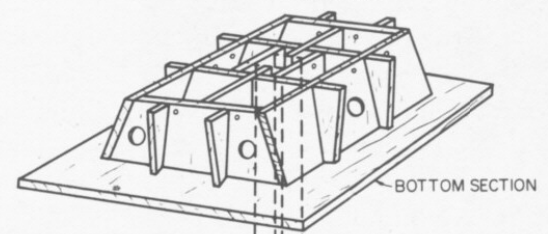
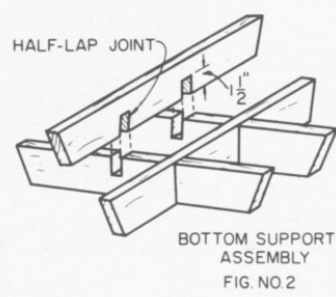
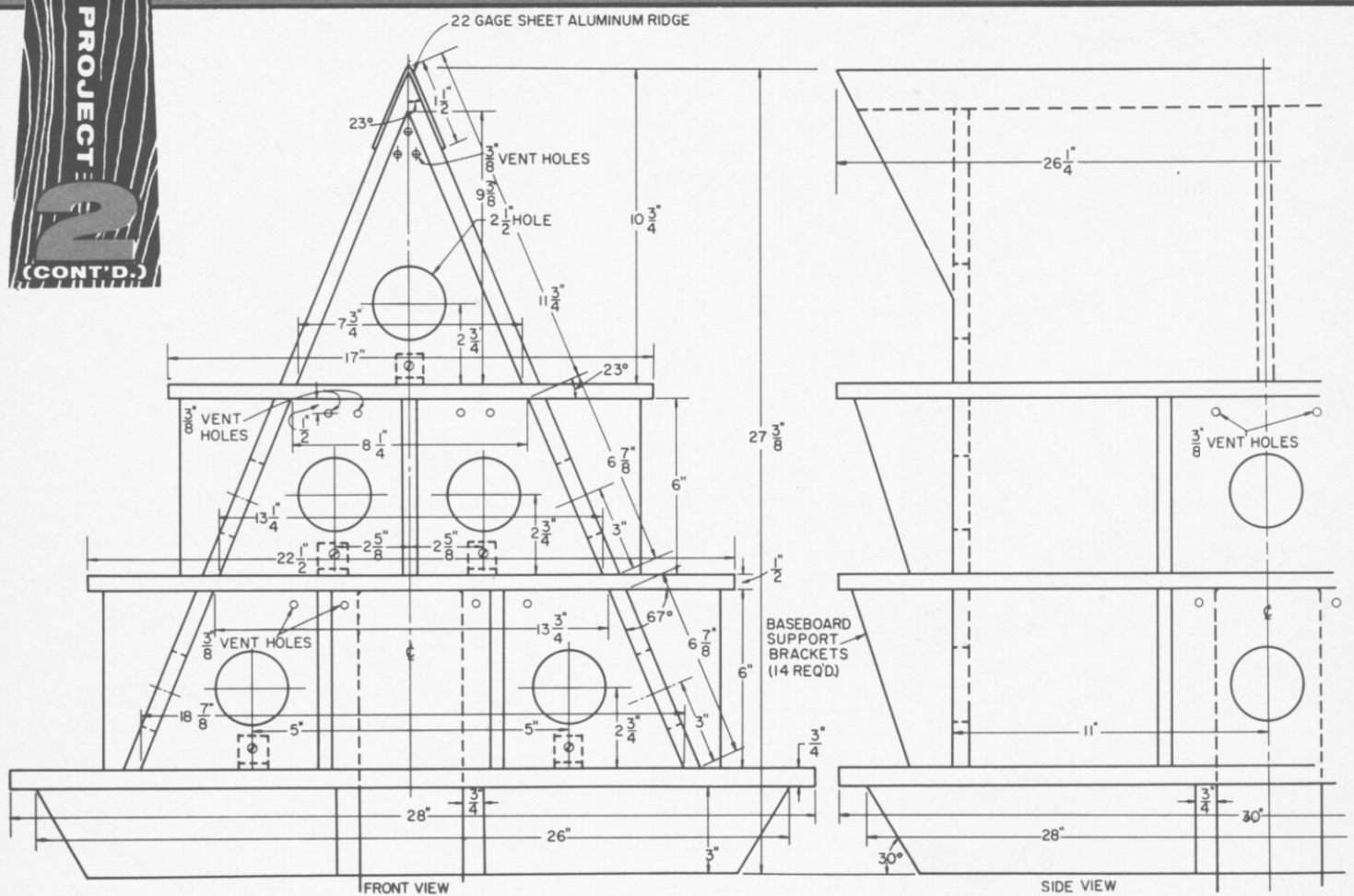
(Photo No. 6)



The crosspieces of the bird house support are assembled with half lap joints. These slots are made by making two passes on the circular saw and then finish cut on the band saw.

(Photo No. 7)

PROJECT 2
(CONT'D.)



BILL OF MATERIALS

(No. 1 Martin House)

No. of Pieces	Name	Size
2	Ends (Bottom Section)	1/2 x 6 x 18 7/8
2	Ends (Center Section)	1/2 x 6 x 13 1/4
2	Ends (Top Section)	1/2 x 9 3/8 x 7 3/4
4	Sides (Bottom & Center Section)	1/2 x 6 7/8 x 22
2	Sides (Top Section)	1/2 x 11 3/4 x 26 1/4
2	Crosspiece (Inside Bottom Section)	1/2 x 6 x 18 7/8
2	Crosspiece (Inside Bottom Section)	1/2 x 6 x 8 15/16
2	Crosspiece (Inside Bottom Section)	1/2 x 6 x 6 1/2
2	Crosspiece (Inside Center Section)	1/2 x 6 x 13 1/4
1	Crosspiece (Inside Center Section)	1/2 x 6 x 21
1	Crosspiece (Inside Top Section)	1/2 x 9 3/8 x 7 3/4
1	Base Board (Top Section)	1/2 x 17 x 26 1/4
1	Base Board (Center Section)	1/2 x 22 1/2 x 26 1/4
1	Base Board (Bottom Section)	3/4 x 23 1/2 x 26 1/4
14	Base Board Supports	1/2 x 3 1/2 x 6
4	Cross Brace House Supports	3/4 x 3 x 24 1/4
10	Angle Iron Brackets	1/8 x 1 x 1 x 4
2	Angle Iron Brackets With Nuts & Washers	1/8 x 1 x 1 x 4
20	Flat Head Machine Screws (Brass)	10-32 x 3/4
4	Lag Bolts	5/16 x 1 3/4
1	Sheet Metal Ridge (Aluminum)	22 gage 3 x 26 1/4
1	Post	4 x 4 x 15 or 20 feet