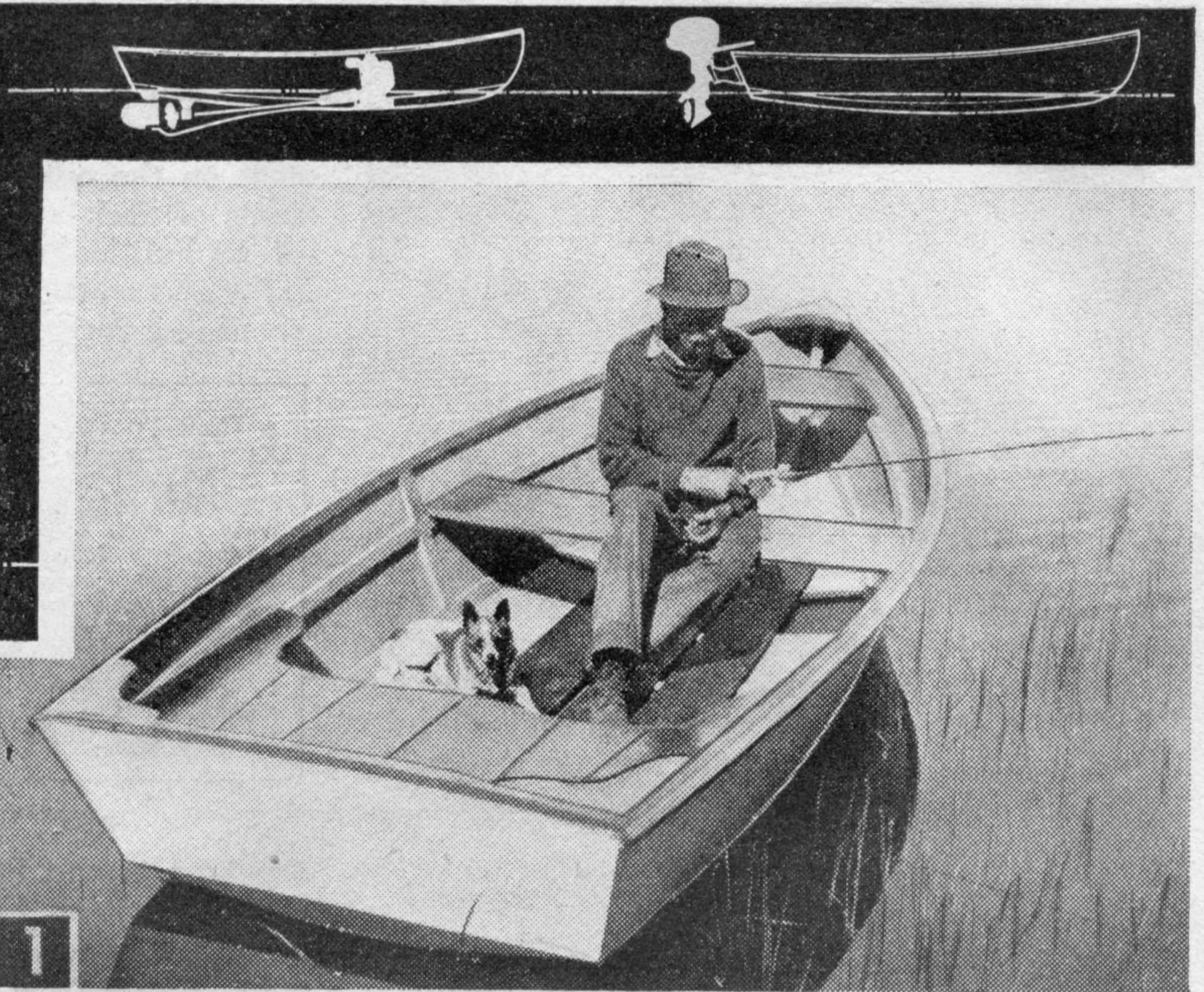


Craft Print  
Project No. 64

Its design is versatile enough to permit the use of inboards, outboards or sails as power, but Sea Skiff is first and foremost a fisher.



# SEA SKIFF

By WILLIAM D. JACKSON  
Naval Architect

Designed for the man who likes to fish, this sturdy craft can be rowed, powered by an outboard or by an inboard, or driven by the wind

**S**EA SKIFF is quickly built over forms for construction of one or for several boats. It is planked with waterproof plywood and will retain its leakproof qualities even if left to dry in the sun for long periods. An ingenious method of framing makes for a sturdy boat and provides a hull that will give many years of trouble-free service.

The general design presents a sturdy skiff that may be used on any waters anywhere. The boat may be rowed, powered with air-cooled inboard motors or outboard engines, or rigged for sailing. As a sailer it is dry, light, and fast in a good breeze.

Start construction by obtaining the materials listed in the Materials List. Then saw the form (Fig. 2) to shape and mount it on 2 x 4 legs at a convenient working height. To construct the mould frames, stem and transom (Figs. 3 and 4) accurately, draw full-size paper patterns of these parts, lay your material upon outlines, mark and cut to shape, reassemble on the pattern and fasten. The transom is cut from  $\frac{3}{4}$ -in. plywood with a  $\frac{3}{4}$  x 3-in. frame, fastened with #8 x  $1\frac{1}{2}$  fh screws, inserted from the aft side of the transom.

Saw the mould frames from 1x6; fasten at chine joints with  $\frac{3}{8}$ -in. plywood gussets. If these moulds are to be used several times, glue and screwfasten the gussets, afterward attaching cross pieces to prevent misalignment. The stem is sawed to shape as shown in Fig. 3.

## STATEMENT OF USES

**USES:** Seaworthy craft for use on any waters anywhere, for boat liveries as well as for personal use.

**TYPE:** Skiff.

**LENGTH:** 13 ft. 9 in. to outside stem.

**BEAM:** 60 in.

**SEATING CAPACITY:** Five passengers.

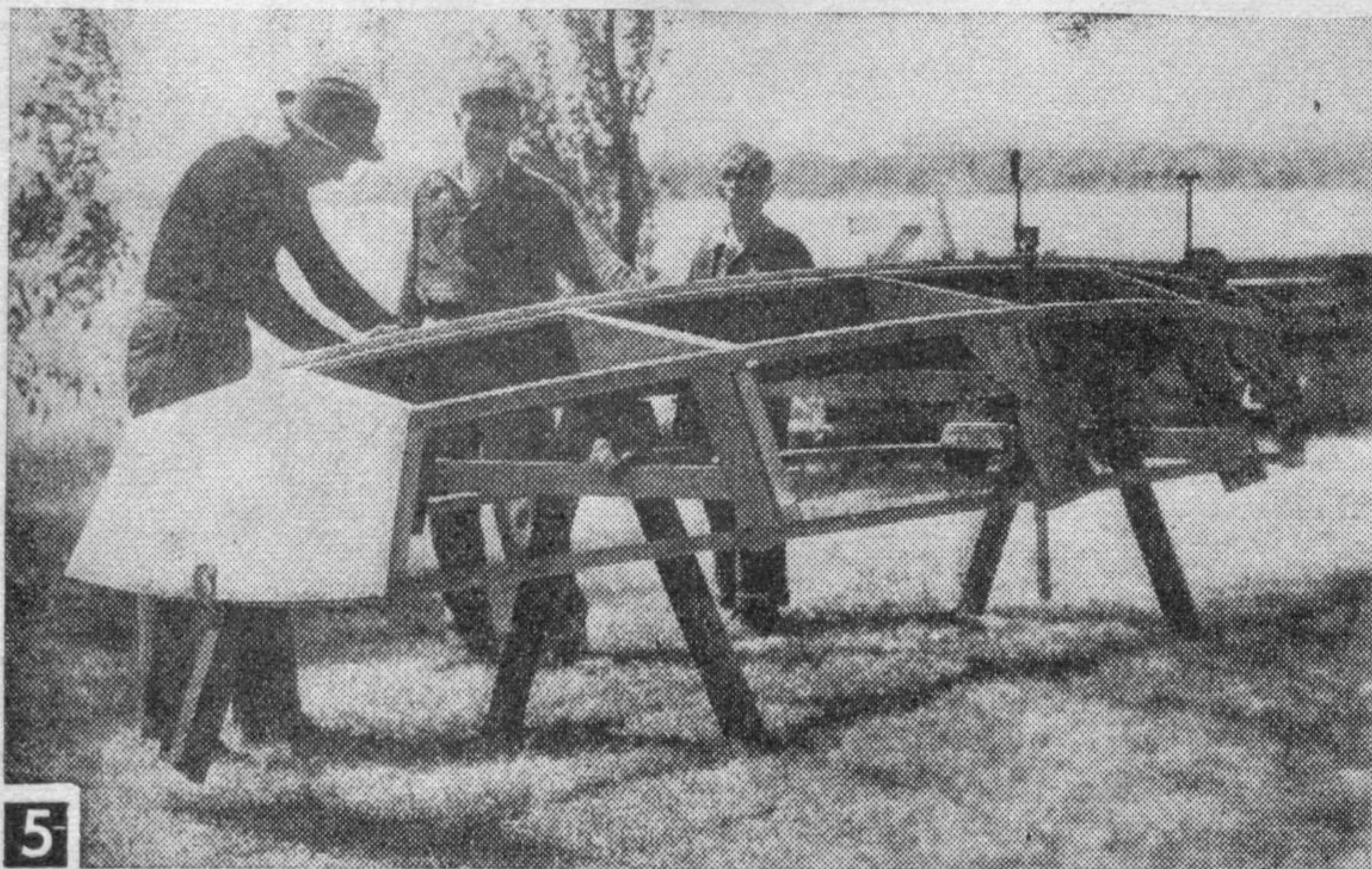
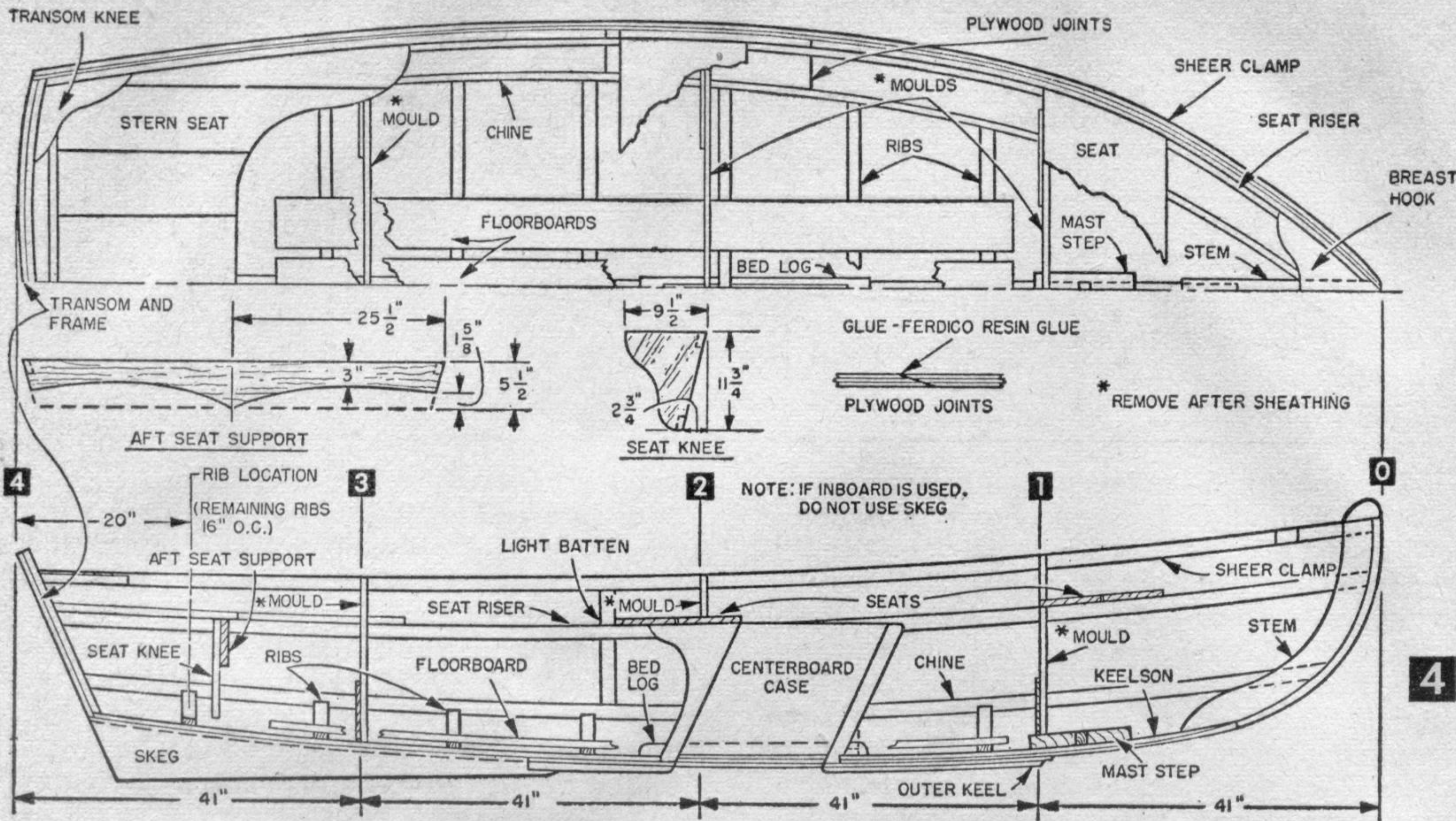
**POWER:** Oars, outboard, air-cooled inboard, or sail.

Now mount the transom, mould frames and stem on the form and hold in place by bracing. With everything secured, spring a light batten over the framework and mark correct beveling so that plywood will lie evenly and fair at all points.

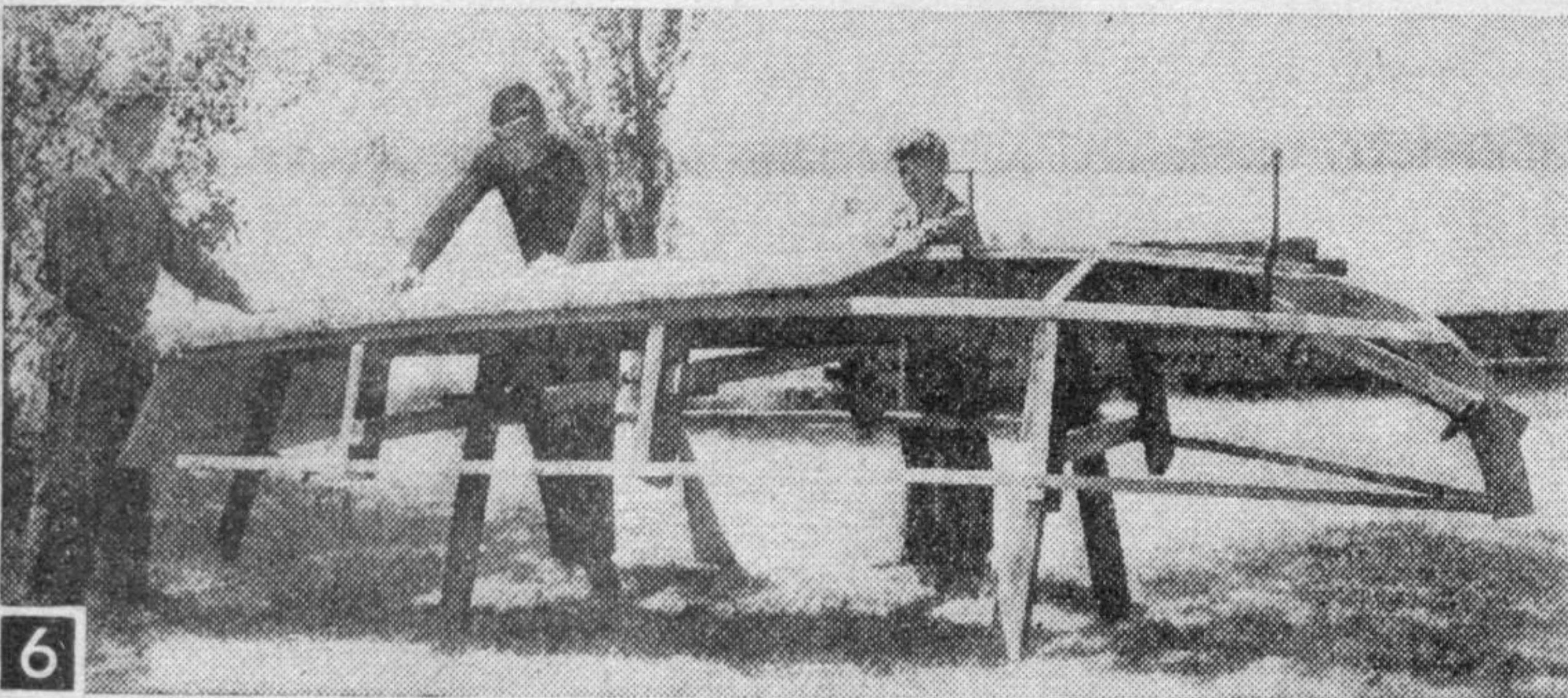
With all parts beveled, cut notches for clamps, chines and keel in all parts. Spring the keel in place and attach to transom, frames and stem notches with two #10 x 2-in. fh screws at each joint. Be careful not to attach any members to the moulds, as the hull is later to be lifted clear of the form and moulds when planked.

Now secure the chines. Fasten both chines simultaneously to prevent wringing framework out of shape. Use one #10 x 2-in. fh screw at transom joints, bevel the ends to fit the stem and fasten in the same way. If the chines have a tendency to slip off the mould-frame notches, hold temporarily with small angle irons screwed to moulds and chines (see detail, Fig. 2). When hull is planked, simply remove the screws and lift the hull clear. Continue by attaching clamps in





5 The completed framework.



6 Covering the frame with plywood.

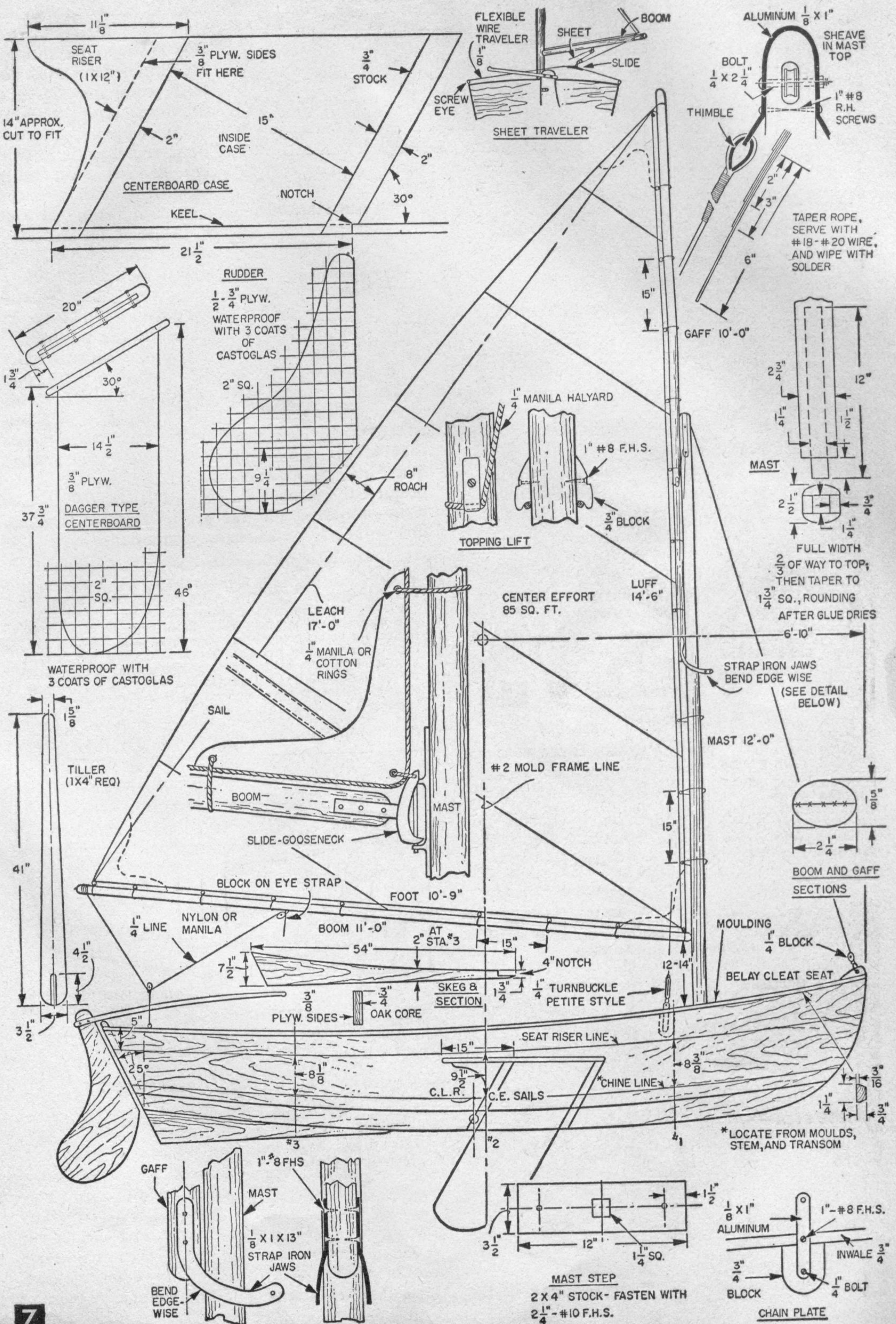
risers with #8 x 1 3/4-in. fh screws. Cut the breast hook and transom knees to fit and fasten with #10 x 2-in. fh screws. Fasten mouldings in place with #8 x 1 3/4-in. fh screws spaced about 8 in. apart. Screwfasten floor boards of 3/8-in. plywood or 5/8 x 6-in. boards. Smooth hull and apply one or two coats of sealer. Follow with two coats each of white primer and paint or enamel. If you cover bottom with fiber glass (materials and instructions for application of this material are available from Herter's Inc., Waseca, Minnesota), complete freedom from worm damage is possible in salt water and strength is greatly increased in either salt or fresh water.

For use of *Sea Skiff* as a sailboat, see Fig. 7 for complete details. An air-cooled inboard, such as the 1 3/4 hp Reo Trollabout Inboard Marine Engine (Williams Marine Co.) or a 3.6 hp Clinton engine, may be mounted off center or on the center line of the boat.

With an off-center installation, the centerboard used in sailing can be left intact and you can use sail also. You may prefer to mount your engine on center, however, and forego sailing equipment. If you mount inboard on

a galv. shingle nail inserted, clinched on the inside. A little Weldwood glue under each rib will ensure a rigid job.

Install seats as indicated, fastening them to the



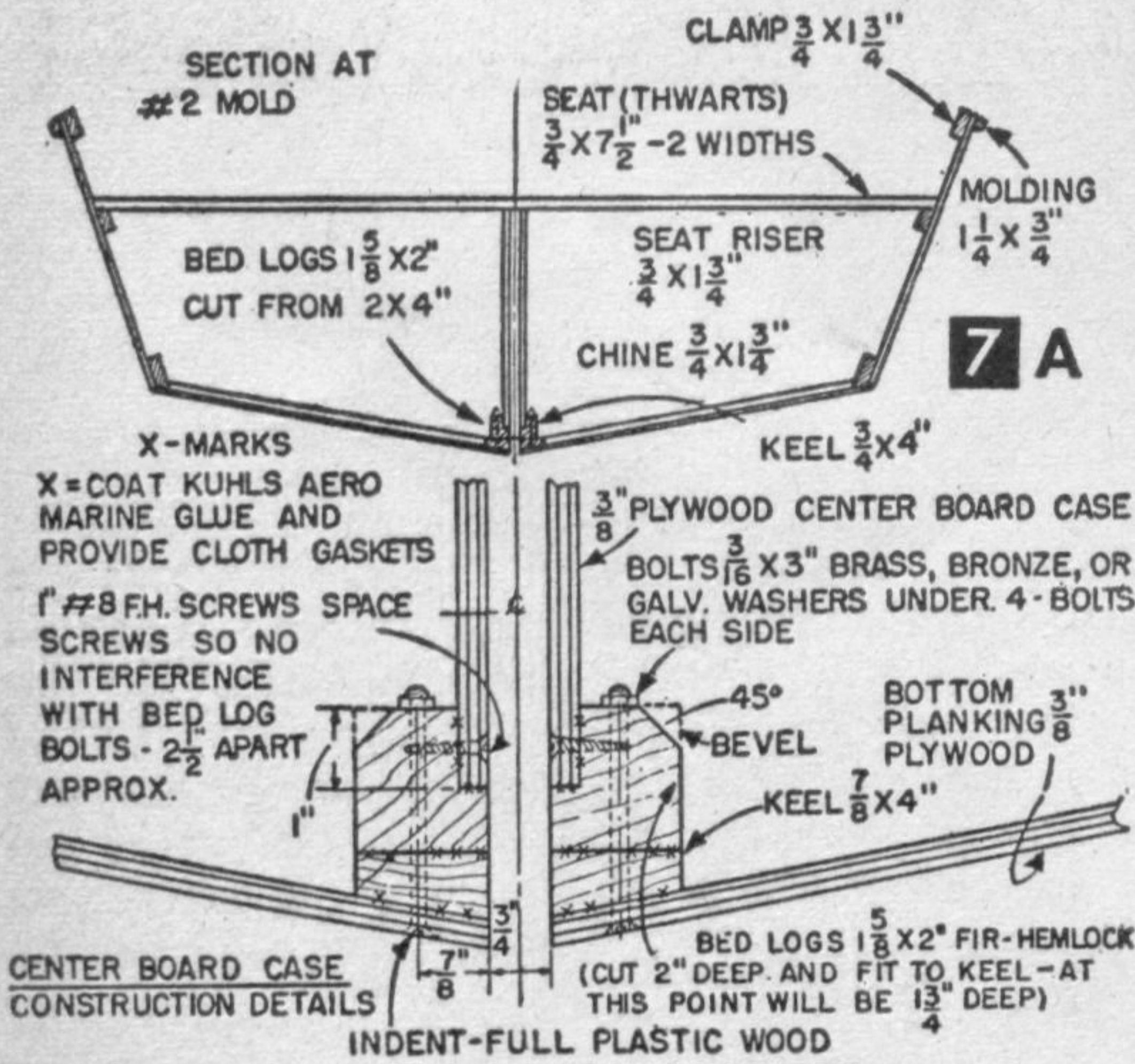
MATERIALS LIST—SEA SKIFF

No.	Size and Description	Use
<b>LUMBER REQUIRED</b>		
2	3/4 x 13/4" x 14 1/2'	clamps
2	3/4 x 13/4" x 14 1/2'	seat risers
2	3/4 x 13/4" x 14'	chines
2	7/8 x 4" x 12'	keelson
1	3/4 x 1 1/2 x 8'	outside keel
2	3/4 x 1 1/4" x 14 1/2'	moldings
6	1/2 x 1 1/4" x 4 1/2'	ribs
1	3/4 x 3" x 8'	transom frame
1	1 1/4 x 10" x 3'	breast hook and transom knees
1	2 x 8" x 4'	stem
1	1/2 x 1 1/2" x 4'	outside stem
3	3/4 x 8" x 12'	skeg
1	1 x 4" x 12'	seats
1	1 x 6" x 12'	aft seat support
1	2 x 10" x 12'	mold frames
		mold frames
		form
<b>PLYWOOD REQUIRED</b>		
4	3/8" x 4 x 8'	planking
1	3/4 x 24 x 48"	transom
	waste from 3/8" plywood or 5/8 x 6" boards	floor boards
<b>FASTENINGS</b>		
4 gross	1" fh screws	
6 dozen	1 1/2" fh screws	
3 dozen	1 3/4" fh screws	
3 dozen	#10 x 2" fh screws	
1 lb.	1 1/4" galv. shingle nails	
2	5/16 x 5" carriage bolts	
1 pt	Kuhls aviation glue	
1 lb	Weldwood resin glue	
	paint as needed	

center, move the amidships seat forward. The Reo Trollabout comes in kit form (about \$100 for fresh water installations, \$125 for salt water), with complete instructions for installing. For use of *Sea Skiff* with outboards, cut out transom as indicated in Fig. 8, or attach an outboard motor bracket (such as that made by the Hadley Mfg. Co., 2242 Smead Avenue, Toledo 6, Ohio), to the transom.

(Note: Possessing the advantages of great strength together with light weight, and more easily built than craft

that follow conventional rules of construction, *Sea Skiff*, as mentioned earlier, is easily mass produced. Moreover, a set of full-size paper patterns—required for one or 100 *Sea Skiffs*—lend themselves to rapid mass production.)



● Craft Print No. 64 in enlarged size for building *Sea Skiff* is available at \$1. SPECIAL QUANTITY DISCOUNT! If you order two or more craft prints (this or any other print), you may deduct 25¢ from the regular price of each print. Hence, for two prints, deduct 50¢; three prints, deduct 75¢, etc. Order by print number. To avoid possible loss of coin or currency in the mails, we suggest you remit by check or money order to Craft Print Dept. B58 (no C.O.D.'s or stamps), SCIENCE AND MECHANICS, 450 East Ohio Street, Chicago 11, Illinois. See coupon on page 192. Now available, our new illustrated catalog of "186 Do It Yourself Plans," 10¢. Please allow three to four weeks for delivery.

