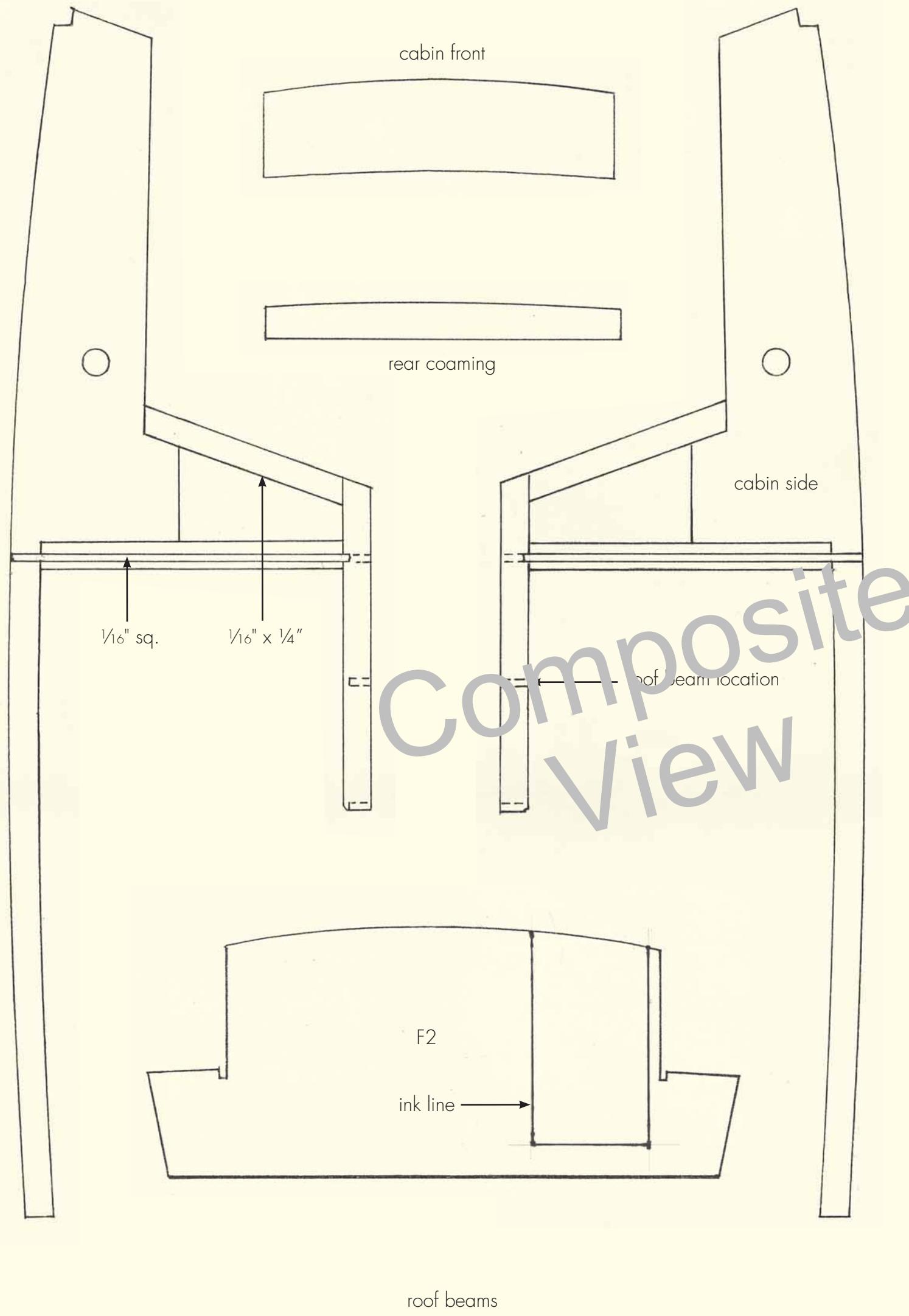
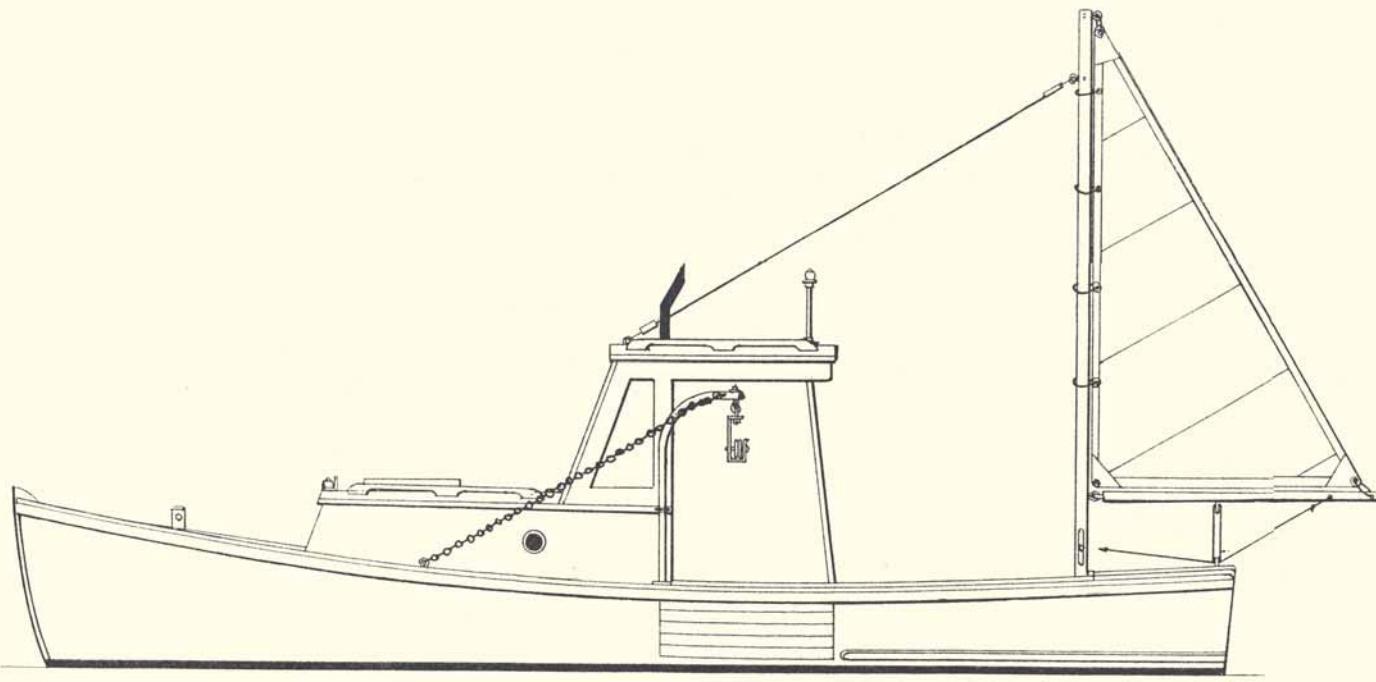
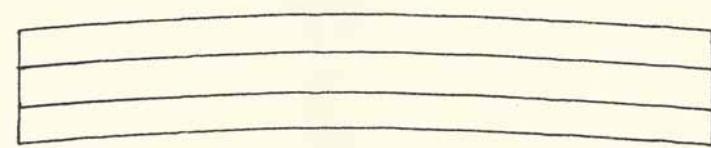


1:20.3-scale lobster boat (waterline model), part 1: basic boat

by Ted Stinson | Wiscasset, Maine



roof beams



Lobstering became a profitable industry in the 20th century, served by boats that evolved along with the industry. Before WWI and the availability of internal-combustion engines, lobsters were not considered a great delicacy and the industry was carried on from sailing sloops, such as the Friendship sloop. After WWI came cars, roads, and tourists, and lobsters became a valuable catch. Small, wooden boats with modified automobile engines became the standard vessel to serve the industry. This is such a lobster boat.

In the 1960s, two things happened that greatly influenced the industry. Fiberglass boats and the interstate highway system led to bigger markets, bigger boats, and bigger catches. Those excesses led to the present over-fished conditions.

Finding an example of an earlier, wooden boat for these plans was not easy. As it turned out, I found two, not in the water, of course, but still maintained with some care. Also, I decided that a waterline model made the most sense. I wanted a model that was next to a dock—possibly unloading its catch. I did not want to leave a model boat floating in a pond, exposed to rain and UV radiation. Maintenance of a full-size wooden boat is bad enough; maintenance of a model would be far worse. A simple, submerged support, such as a couple of bricks, will give you something to set the model on. Also, it is much easier to build a waterline model.

This will be a three-part series. This first part will let you build the basic boat, the second will show you how to detail it, and third will let you build a dock with a lobstering shack.

Construction

Refer to the plan. From a piece of $\frac{1}{8}$ " x 5" x 15" plywood, cut the base. Mark the location of F1 & F2. Using $\frac{1}{32}$ " thick, $\frac{3}{16}$ "-spaced scribed wood, surface the cockpit area shown on the plan. Use contact cement (such as used in gluing Formica to a shelf) for this. Stain this deck to your liking (we used Golden Oak) and apply two coats of clear lacquer to the deck. Now, using $\frac{1}{8}$ "-thick balsa, cut out the Stem, F1, F2, F3, and the Transom. Before gluing F2, F3, and the Transom in place, give them a couple of coats of clear lacquer, followed by flat white, water-base acrylic. Mark the ink-line door on F2 at this time. Now glue these items to the base.

Make up the motor box, which is a $\frac{3}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{2}$ " block, paint it white, and glue it in place. Now cut out two deck halves from $\frac{3}{32}$ "-thick balsa. Glue these together along the centerline. Fit and glue the deck in place on the Frame heads. Finally, add the $\frac{1}{8}$ " x $\frac{1}{4}$ " strips. These will need to be painted white prior to gluing them in place. Now, sand the edges of the hull fair in preparation for planking.

Use $\frac{1}{32}$ " plywood for planking. It is tough and waterproof. First, make a planking pattern using file-folder stock. Cut the plywood slightly oversize. When fitting the planking in place, try to get the edge of the planking flush with the top of the deck (sheer). You will find it much easier to remove excess plywood from the bottom rather than the deck surface. Remove any excess planking from the hull. Now glue a $\frac{1}{16}$ " x $\frac{1}{8}$ " strip at the bow (the gripe). Sand this smooth and fair with the hull.

Now cut out the Cabin parts from firm, $\frac{1}{16}$ " balsa. Protect the plan with wax paper. Make up the cabin sides and the windshield. Fit and glue the cabin sides in place first, followed by the cabin front and the rear coaming. The cabin roof should now be cut and fitted in place. Use file-folder material to make a pattern, then cut the roof from $\frac{1}{16}$ " x 4" balsa. Once the roof is done, fit and glue the windshield in place, followed by the roof beams. Make up the shelter roof but don't glue it in place yet.

Fill any irregularities in the deck with spackle and sand smooth with 220-grit sandpaper. Using basswood or pine, fit and glue the $\frac{1}{16}$ "-square toerail in place, followed by the $\frac{1}{16}$ " x $\frac{1}{8}$ " rub rail and the $\frac{1}{8}$ "-square spray rail. Now give any wood not already finished, two coats of clear lacquer. This should be followed by two brush coats of flat-white acrylic (the hull was white).

When dry, fit and glue the shelter roof in place and give it a similar finish treatment. At this point the deck should be brush-painted a color of your choice. Buff or light gray would be typical. The whole model can now be given a light dusting of clear lacquer to seal it and protect it from fingerprints, etc.

At this point the model is ready for detailing, which will be covered in the next installment.

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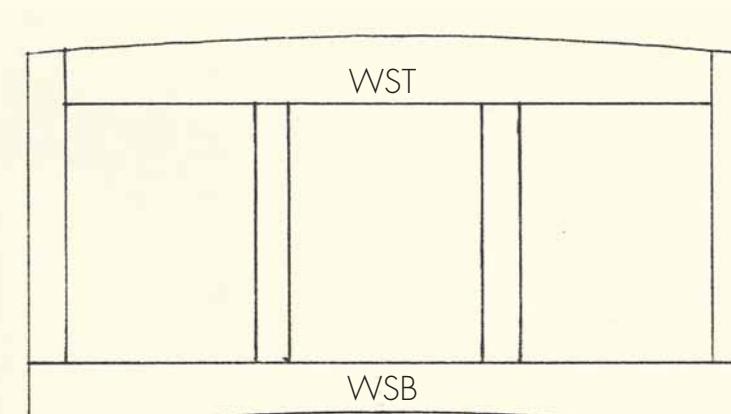
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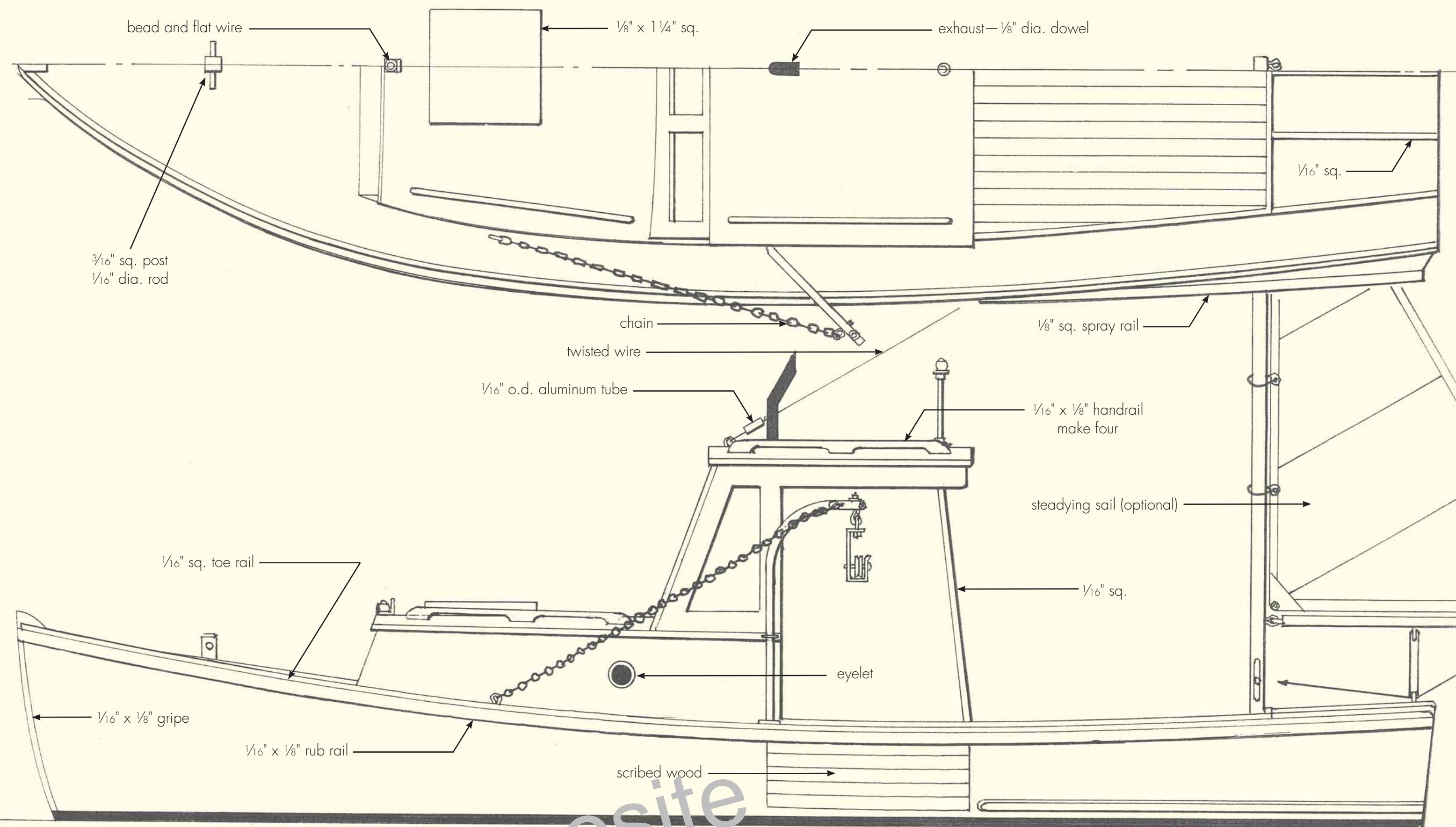
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Are you working in a different scale?

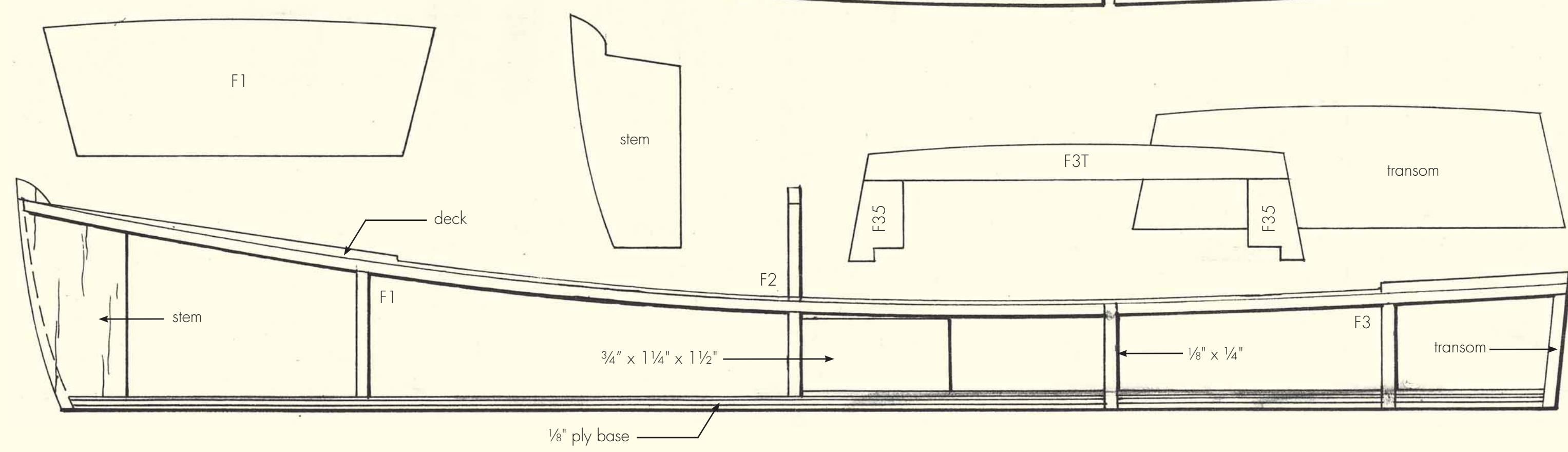
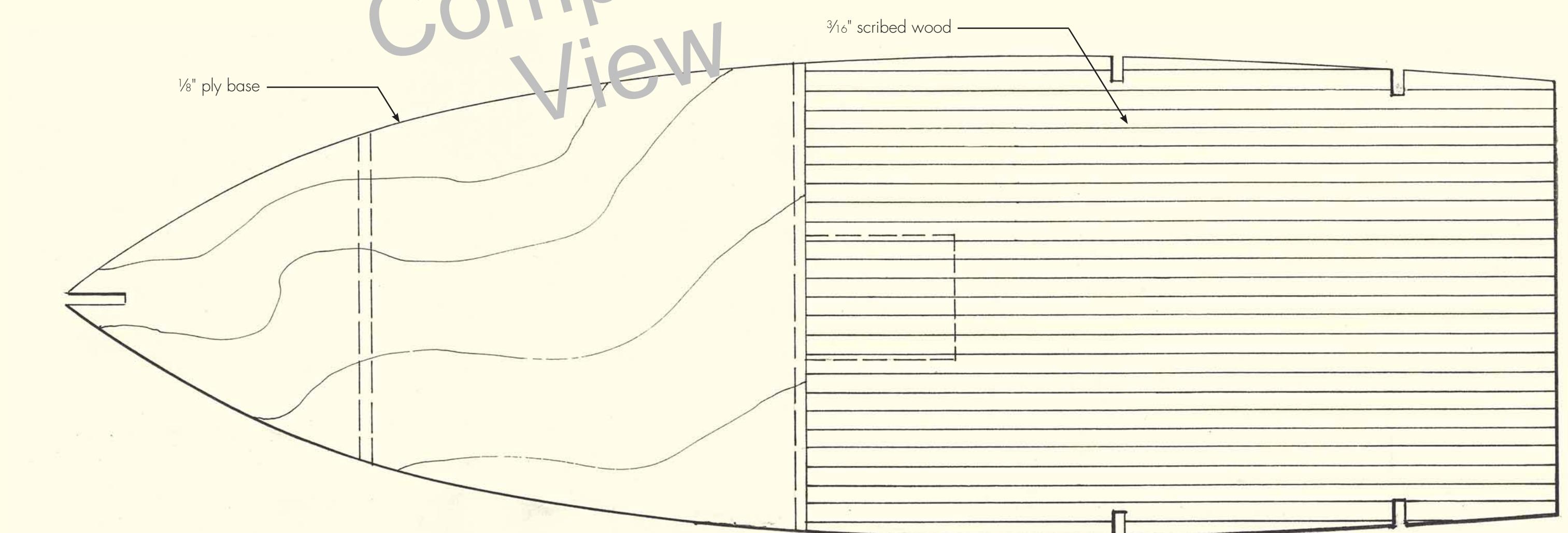
If you are working in 1:32 scale, reduce these drawings to 63%.
If you are working in 1:29 scale, reduce these drawings to 70%.
If you are working in 1:24 scale, reduce these drawings to 88%.
If you are working in 1:22.5 scale, reduce these drawings to 90%.
If you are working in 16mm scale, enlarge these drawings to 107%.
If you are working in 1:13.7 (7/8") scale, enlarge these drawings to 148%.

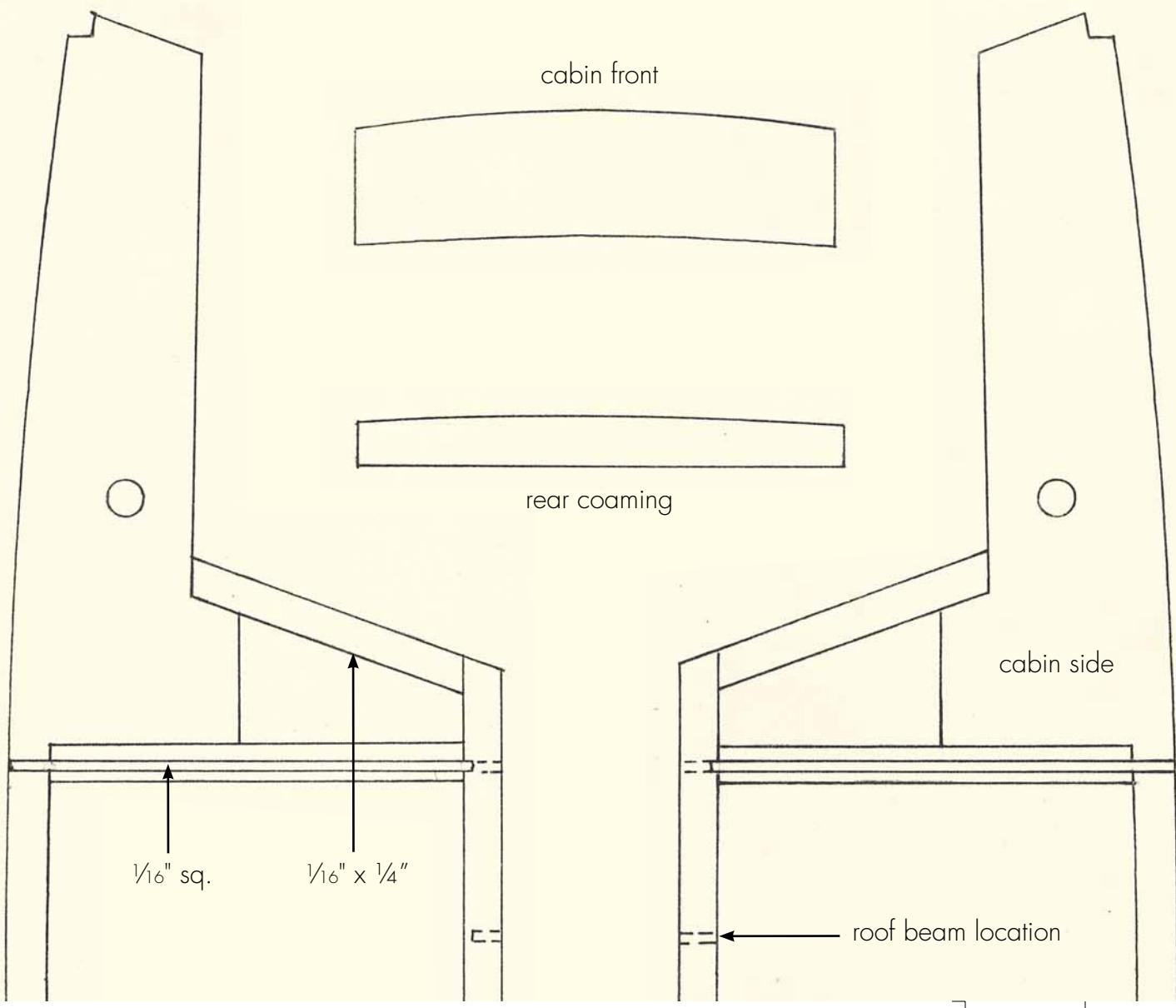
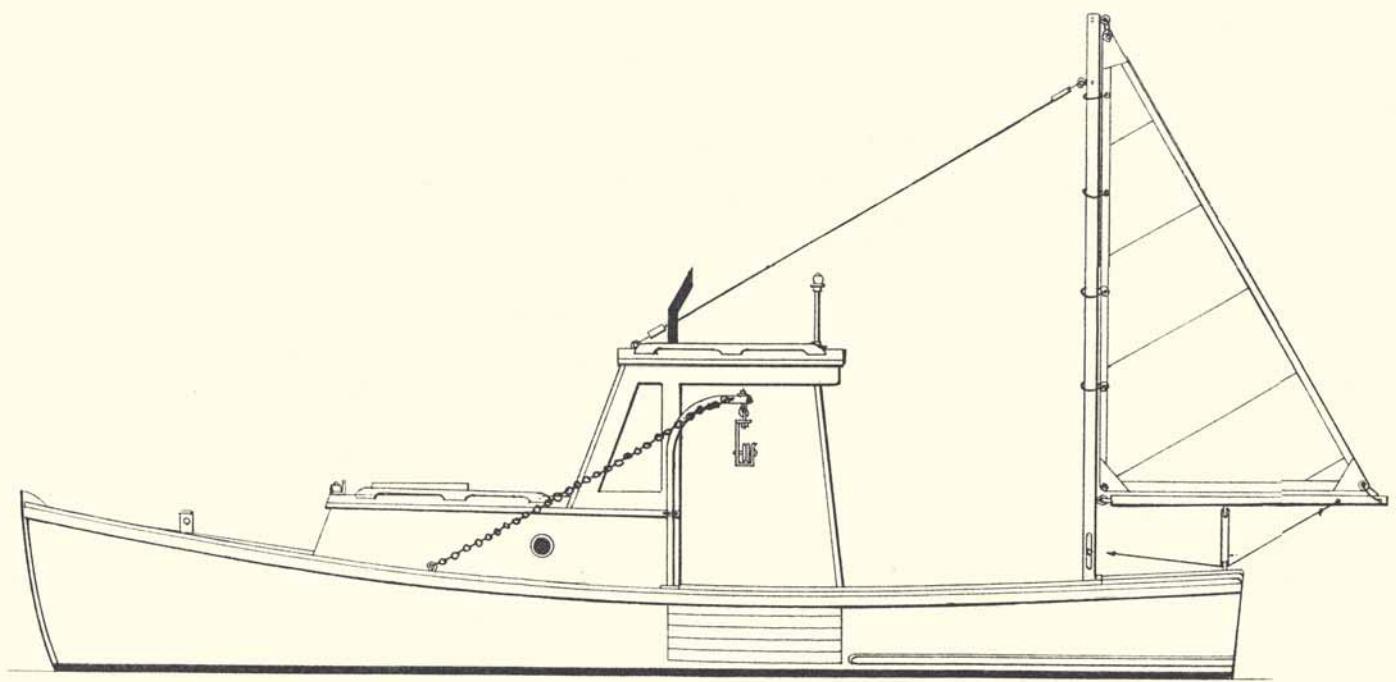


deck half



Composite
View





1:20.3-scale lobster boat (waterline model), part 1: basic boat

by Ted Stinson | Wiscasset, Maine



Lobstering became a profitable industry in the 20th century, served by boats that evolved along with the industry and the availability of internal-combustion engines, lobsters were not considered a great delicacy and the income from sailing sloops, such as the Friendship sloop. After WWI came cars, roads, and tourists, and lobsters became catch. Small, wooden boats with modified automobile engines became the standard vessel to serve the industry lobster boat.

In the 1960s, two things happened that greatly influenced the industry. Fiberglass boats and the interstate highway system opened up bigger markets, bigger boats, and bigger catches. Those excesses led to the present over-fished conditions.

Finding an example of an earlier, wooden boat for these plans was not easy. As it turned out, I found two, not in museums but still maintained with some care. Also, I decided that a waterline model made the most sense. I wanted a model boat that could dock—possibly unloading its catch. I did not want to leave a model boat floating in a pond, exposed to rain and UV radiation. Maintenance of a full-size wooden boat is bad enough; maintenance of a model would be far worse. A simple, submerged dock made of a couple of bricks, will give you something to set the model on. Also, it is much easier to build a waterline model.

This will be a three-part series. This first part will let you build the basic boat, the second will show you how to build a dock with a lobstering shack.

Construction

Refer to the plan. From a piece of $\frac{1}{8}$ " x 5" x 15" plywood, cut the base. Mark the location of F1 & F2. Using $\frac{1}{32}$ "-thick balsa wood, surface the cockpit area shown on the plan. Use contact cement (such as used in gluing Formica to a table top) and apply two coats of clear lacquer to the deck. Now, using $\frac{1}{8}$ "-thick balsa wood for the Stem, F1, F2, F3, and the Transom. Before gluing F2, F3, and the Transom in place, give them a couple of coats of clear lacquer by flat white, water-base acrylic. Mark the ink-line door on F2 at this time. Now glue these items to the base.

Make up the motor box, which is a $\frac{3}{4}$ " x $1\frac{1}{4}$ " x $1\frac{1}{2}$ " block, paint it white, and glue it in place. Now cut out the stern from $\frac{3}{32}$ "-thick balsa. Glue these together along the centerline. Fit and glue the deck in place on the Frame heads using $\frac{1}{8}$ " x $\frac{1}{4}$ " strips. These will need to be painted white prior to gluing them in place. Now, sand the edges of the

cabin side

location

Plan set #77-A

sic boat



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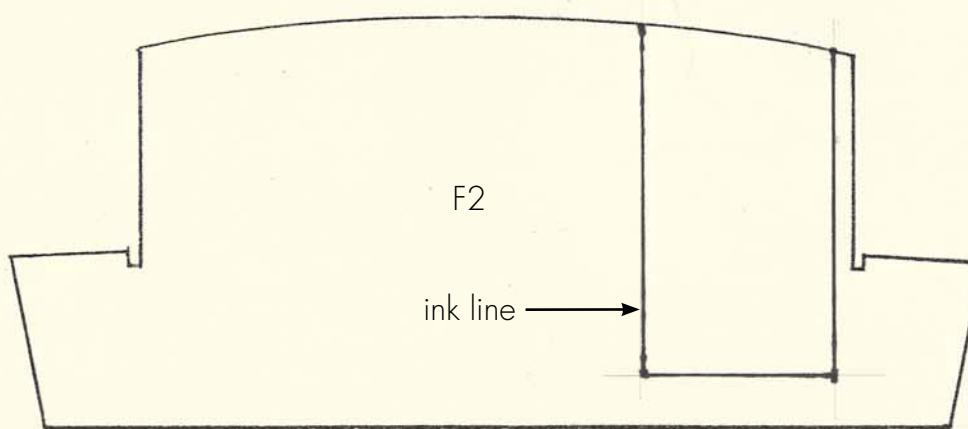
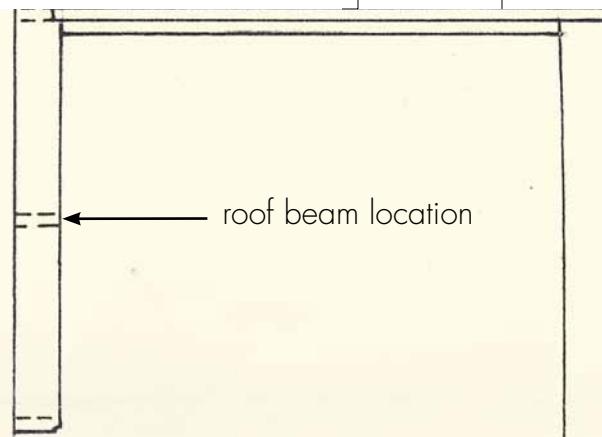
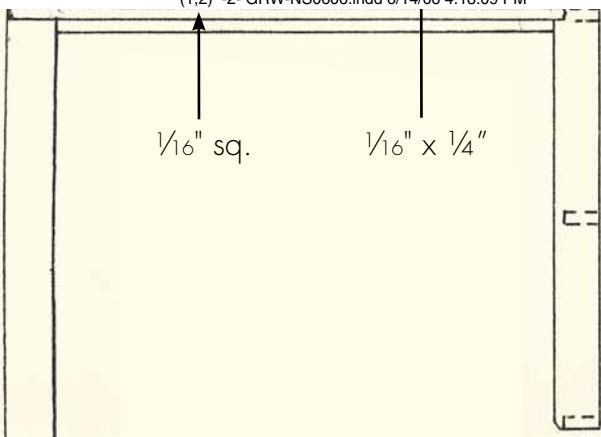
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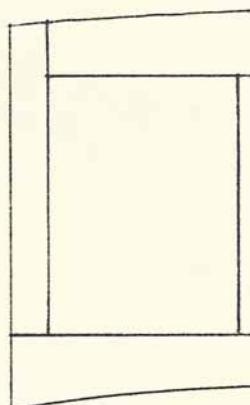
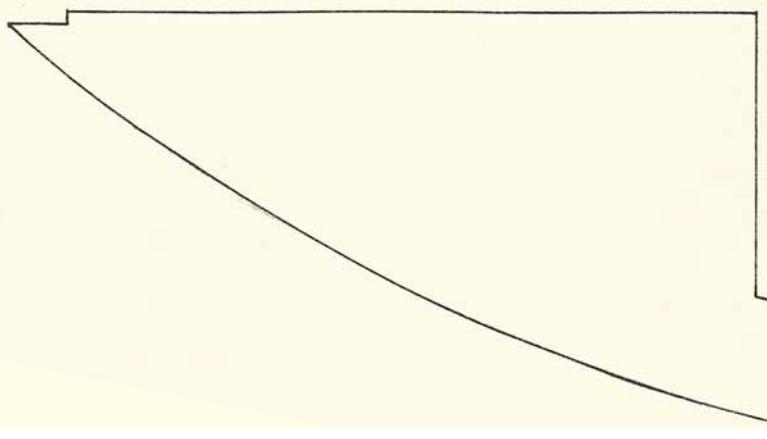
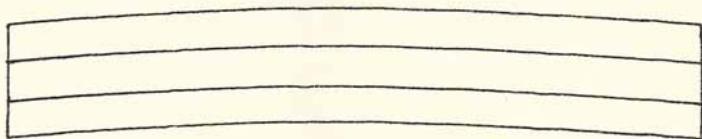
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Construction

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Make up the motor box, which is a $\frac{3}{4}$ " x $1\frac{1}{4}$ " x $1\frac{1}{2}$ " block, paint it white, and glue it in place. Now cut off from $\frac{3}{32}$ "-thick balsa. Glue these together along the centerline. Fit and glue the deck in place on the Frame head $\frac{1}{8}$ " x $\frac{1}{4}$ " strips. These will need to be painted white prior to gluing them in place. Now, sand the edges of the hull for planking.

Use $\frac{1}{32}$ " plywood for planking. It is tough and waterproof. First, make a planking pattern using file-folder wood slightly oversize. When fitting the planking in place, try to get the edge of the planking flush with the top of the hull. You will find it much easier to remove excess plywood from the bottom rather than the deck surface. Remove a strip at the bow (the gripe). Sand this smooth and fair with the hull.

Now cut out the Cabin parts from firm, $\frac{1}{16}$ " balsa. Protect the plan with wax paper. Make up the cabin shield. Fit and glue the cabin sides in place first, followed by the cabin front and the rear coaming. The cabin is cut and fitted in place. Use file-folder material to make a pattern, then cut the roof from $\frac{1}{16}$ " x 4" balsa. Once and glue the windshield in place, followed by the roof beams. Make up the shelter roof but don't glue it in place.

Fill any irregularities in the deck with spackle and sand smooth with 220-grit sandpaper. Using basswood cut the $\frac{1}{16}$ "-square toerail in place, followed by the $\frac{1}{16}$ " x $\frac{1}{8}$ " rub rail and the $\frac{1}{8}$ "-square spray rail. Now give any finished, two coats of clear lacquer. This should be followed by two brush coats of flat-white acrylic (the hull varnish).

When dry, fit and glue the shelter roof in place and give it a similar finish treatment. At this point the deck painted a color of your choice. Buff or light gray would be typical. The whole model can now be given a light lacquer to seal it and protect it from fingerprints, etc.

At this point the model is ready for detailing, which will be covered in the next installment.

* * *

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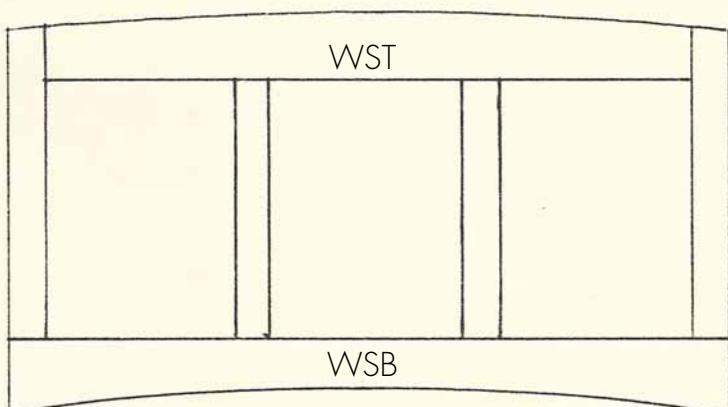
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Are you working in a different scale?

If you are working in 1:32 scale, reduce these drawings to 60%
 If you are working in 1:29 scale, reduce these drawings to 70%
 If you are working in 1:24 scale, reduce these drawings to 88%
 If you are working in 1:22.5 scale, reduce these drawings to 96%
 If you are working in 16mm scale, enlarge these drawings to 120%
 If you are working in 1:13.7 ($\frac{7}{8}$ ") scale, enlarge these drawings to 150%

windshield



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reduce these drawings to 63%.

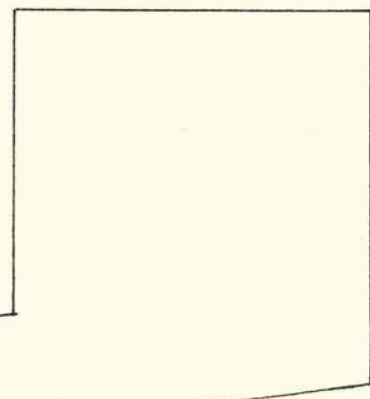
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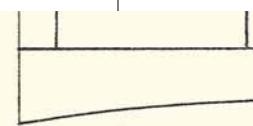
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e, enlarge these drawings to 107%.

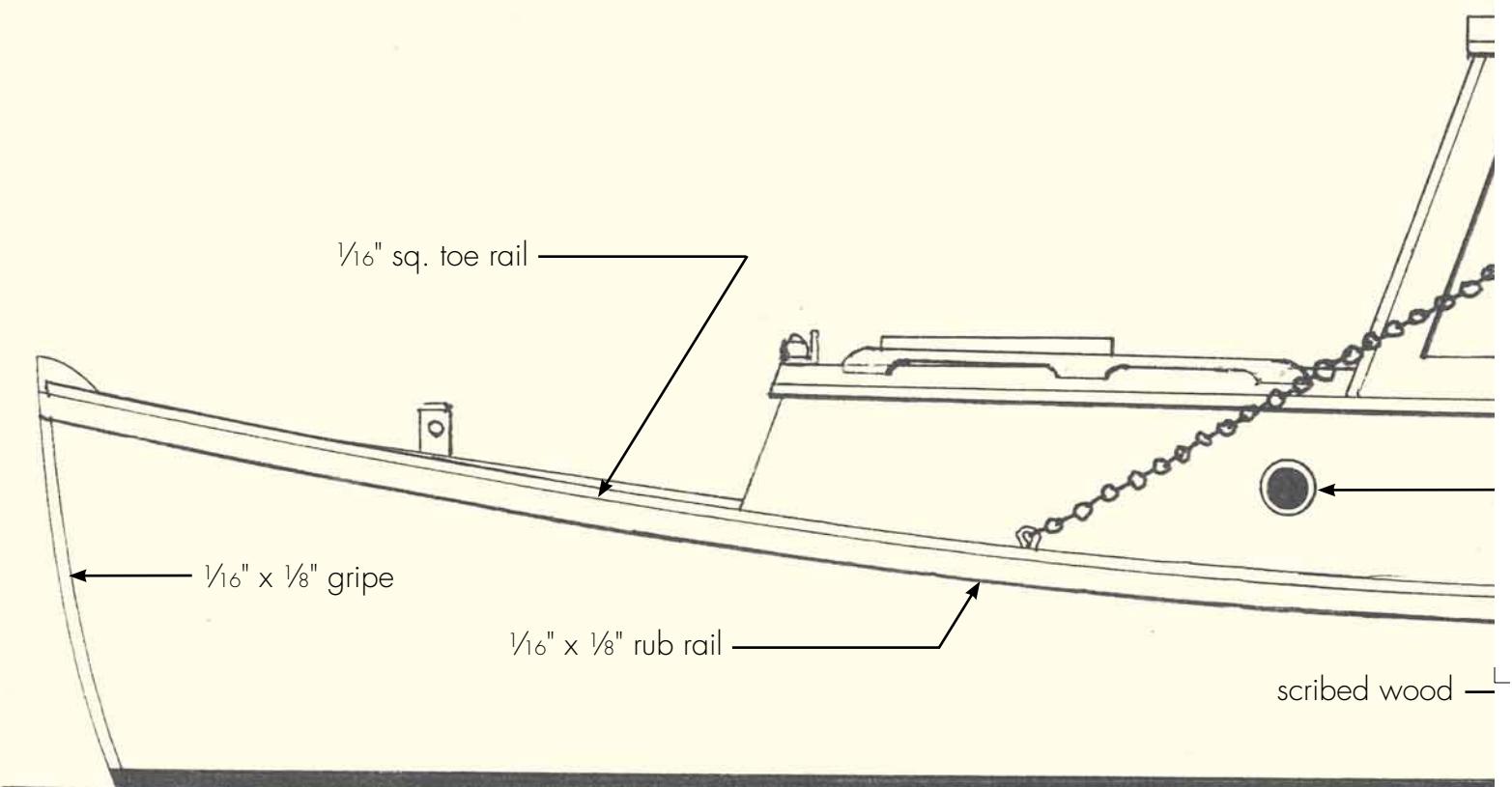
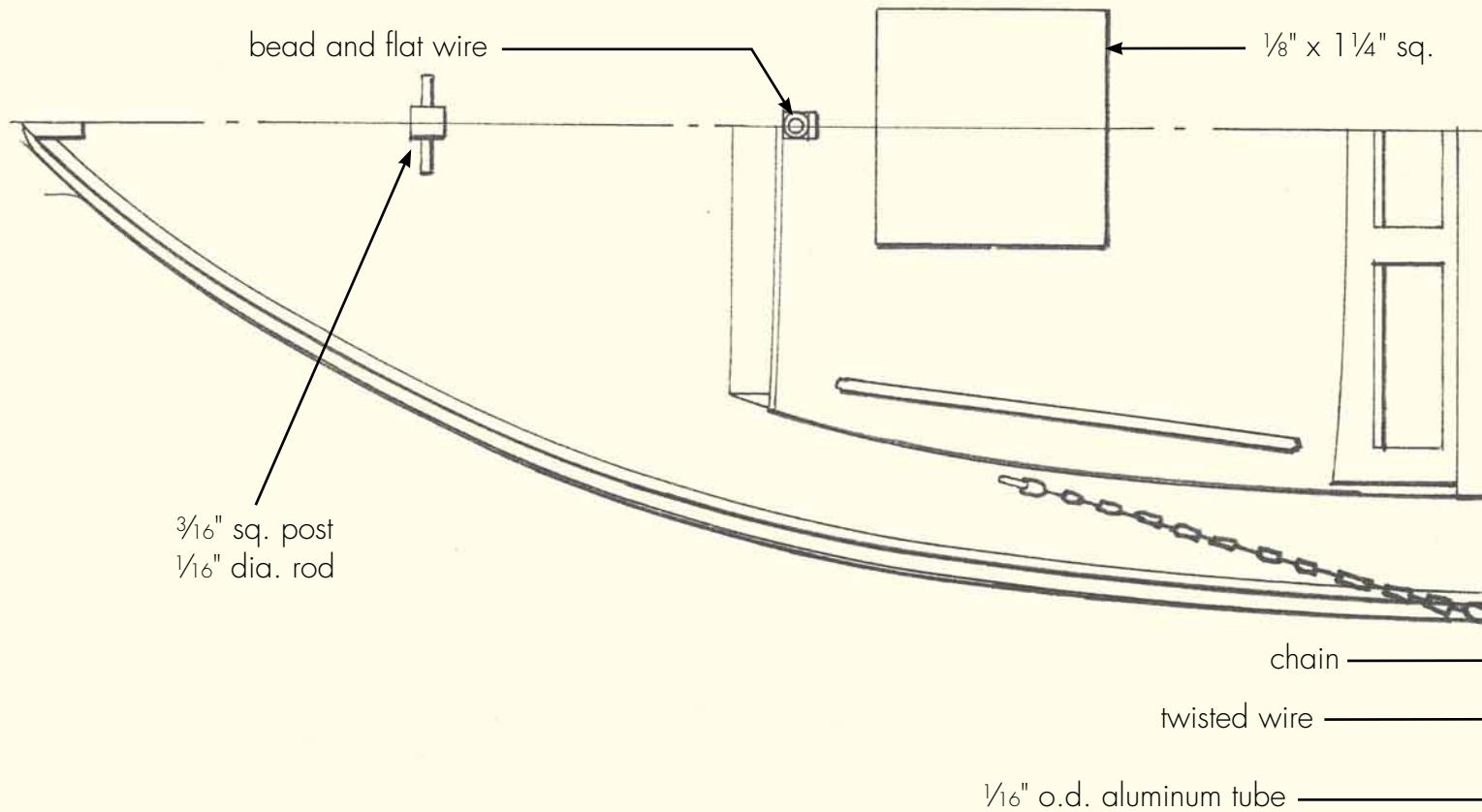
) scale, enlarge these drawings to 148%.

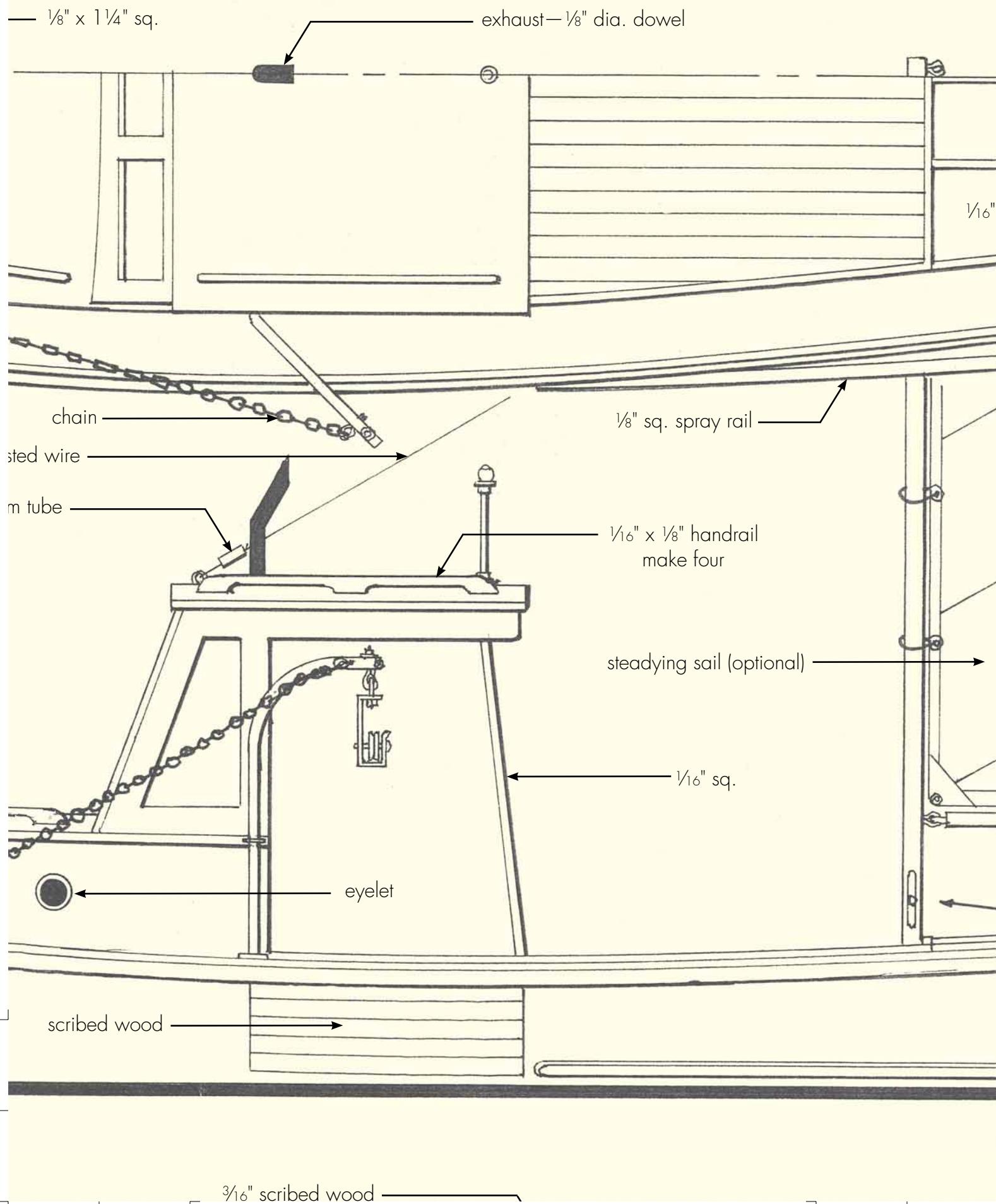


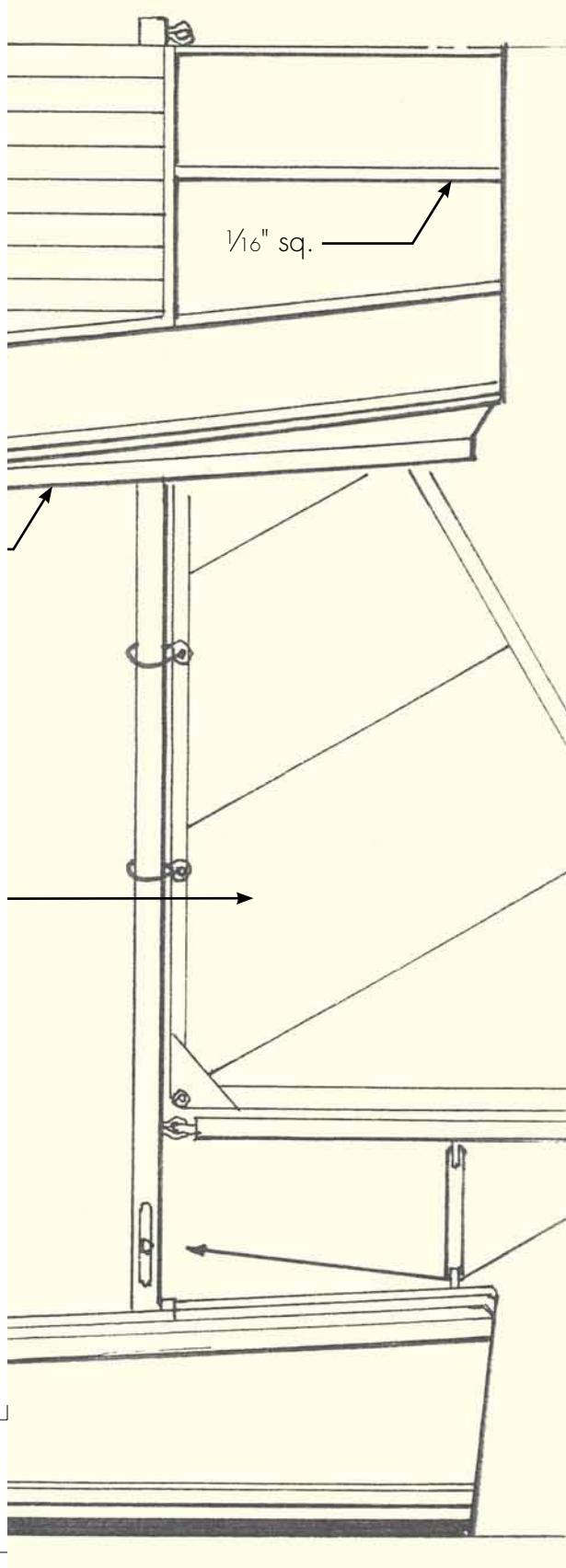


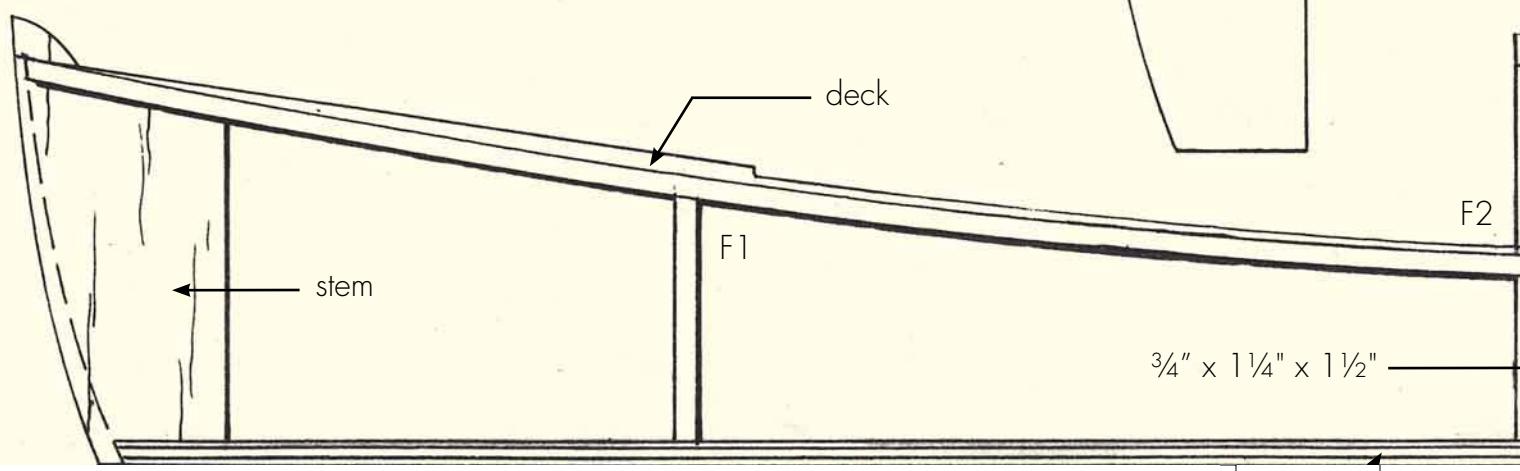
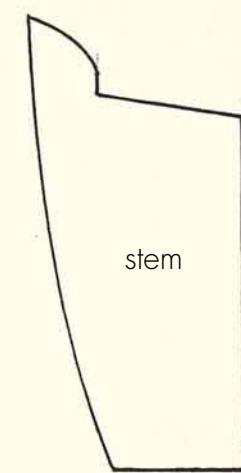
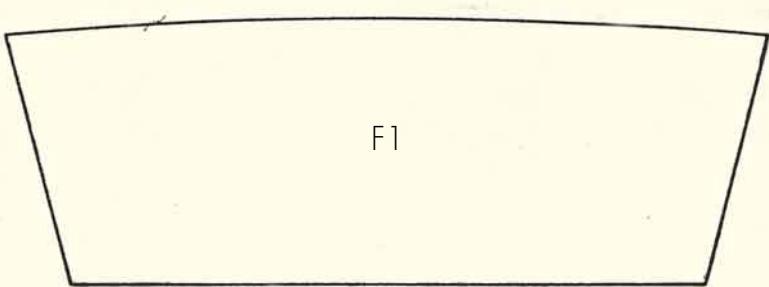
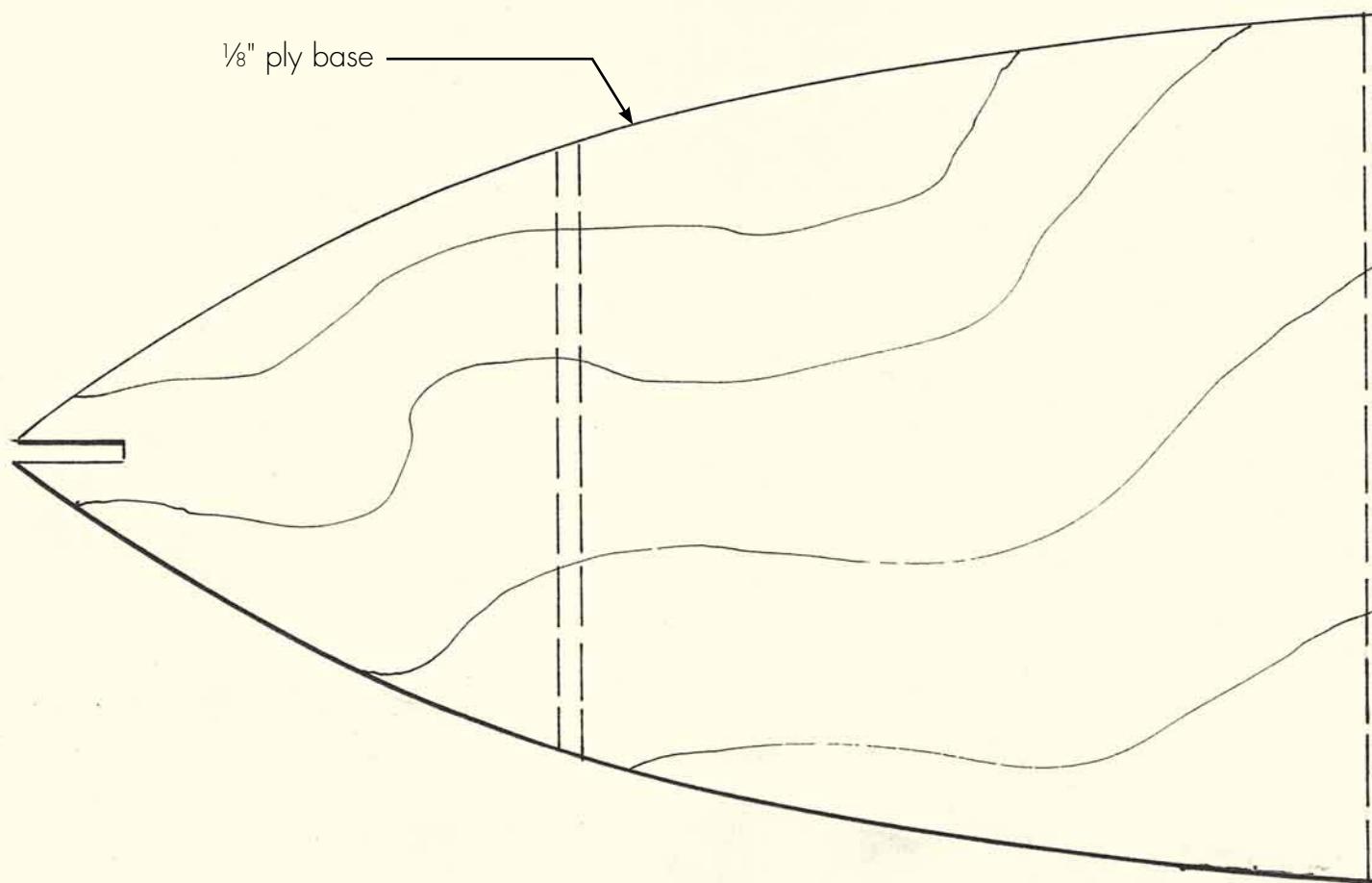
WSB

deck half

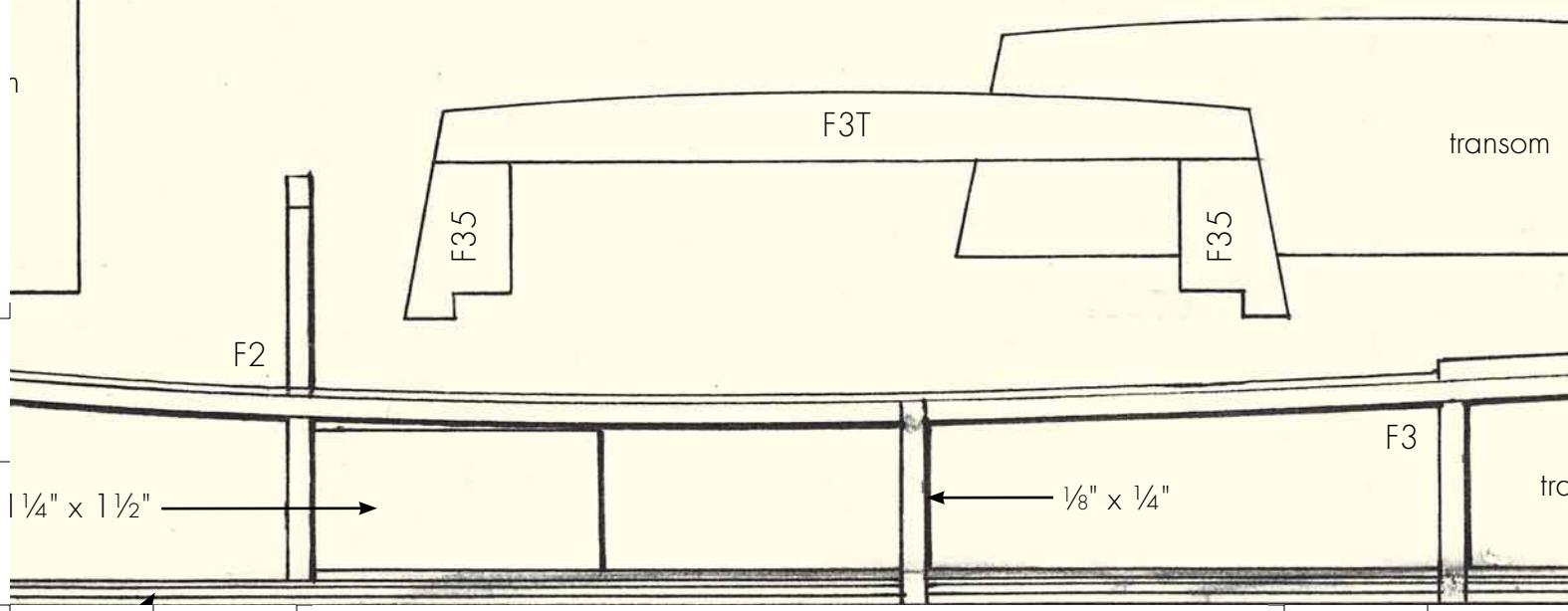
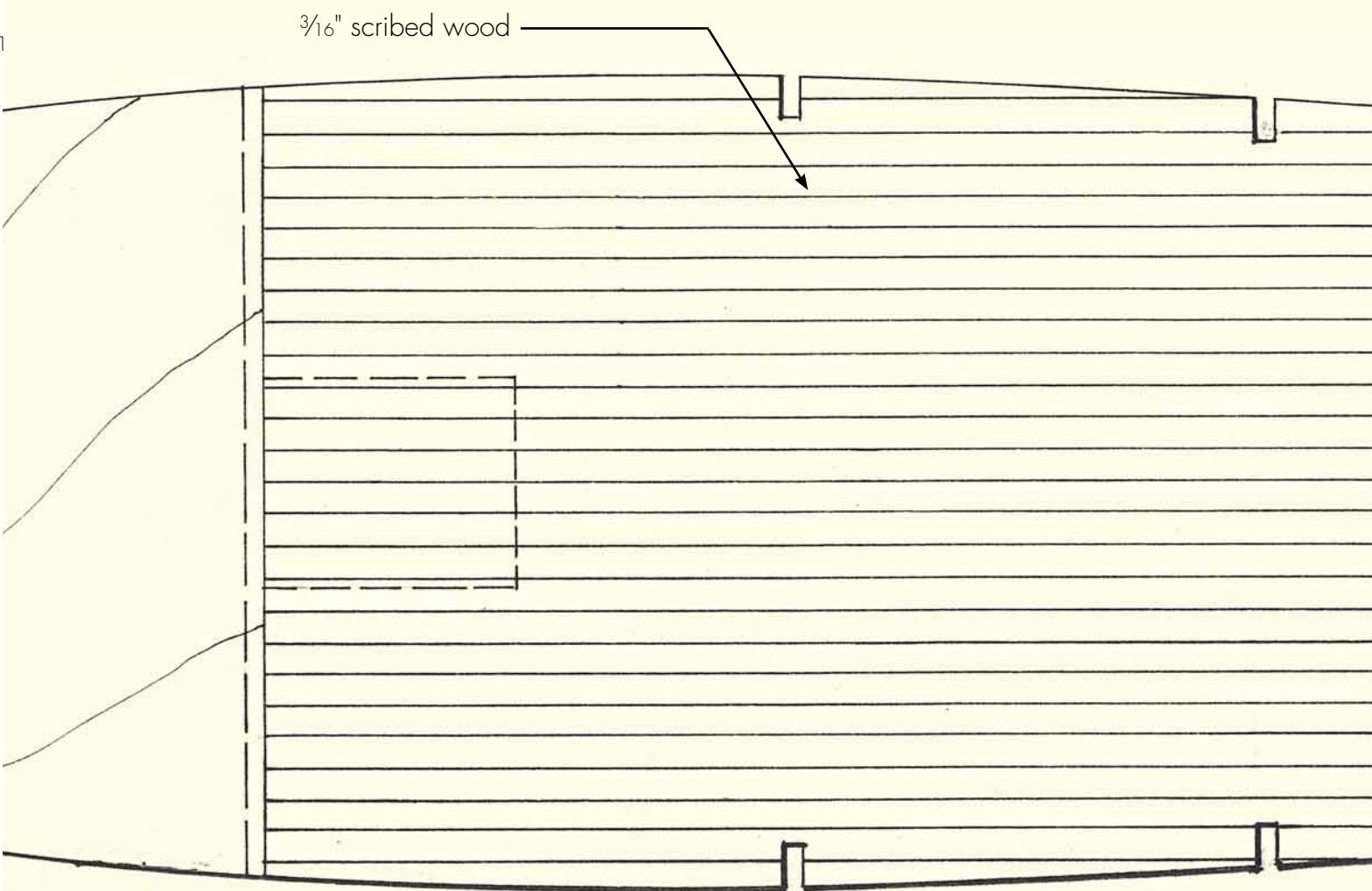


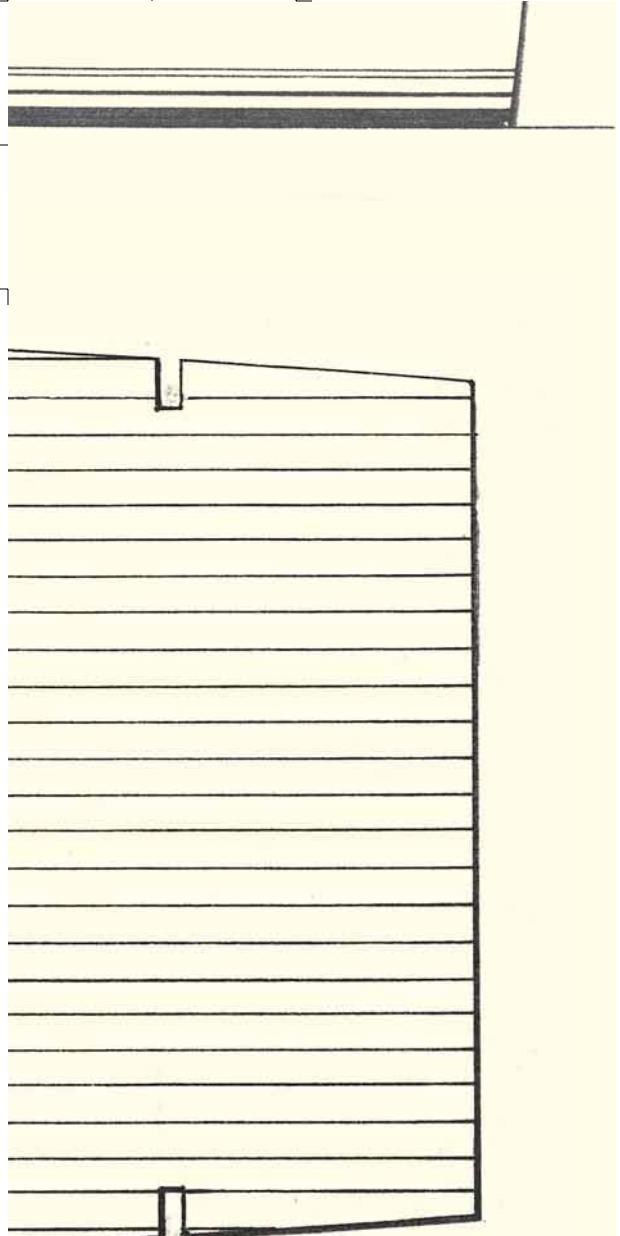




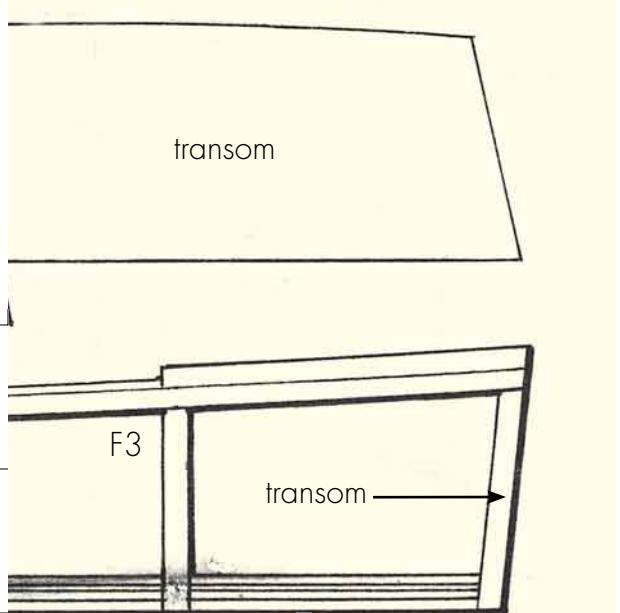


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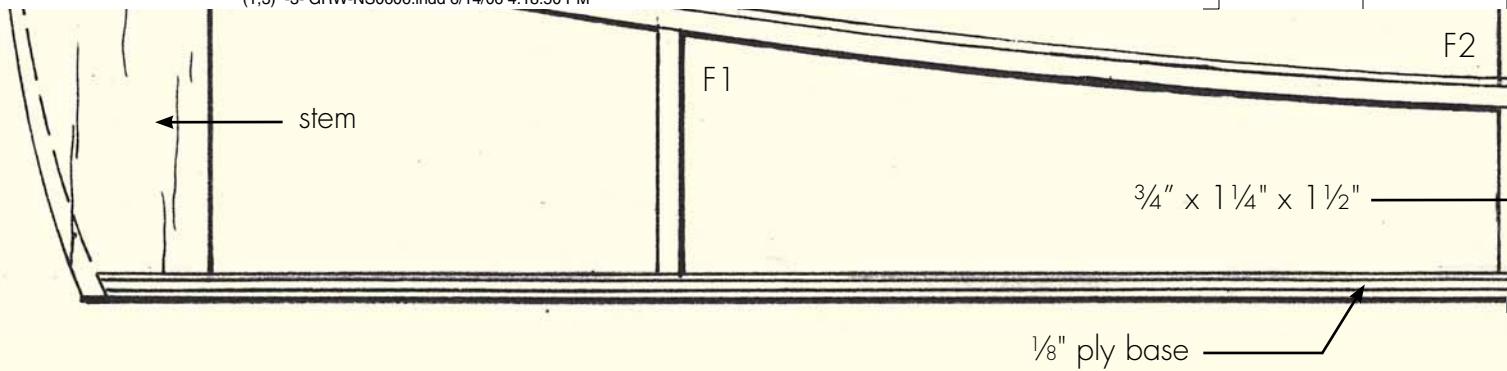


transom



F3

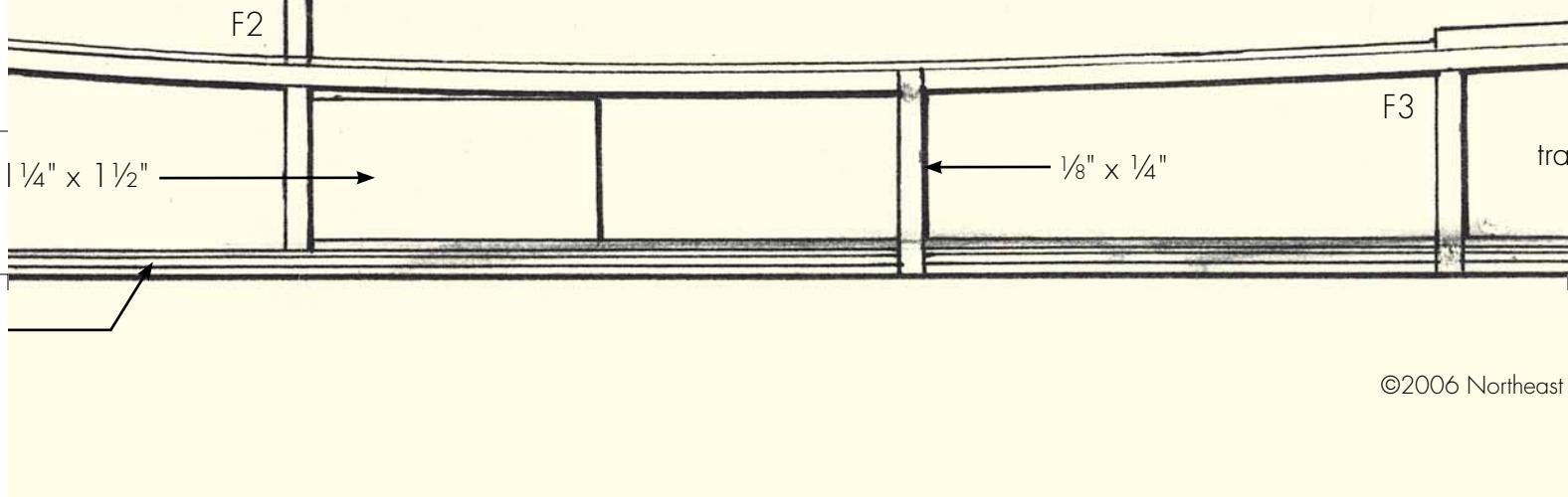
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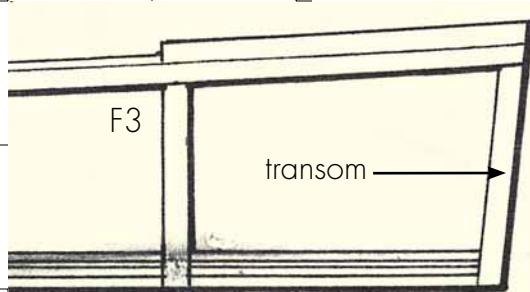
F2

F3

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