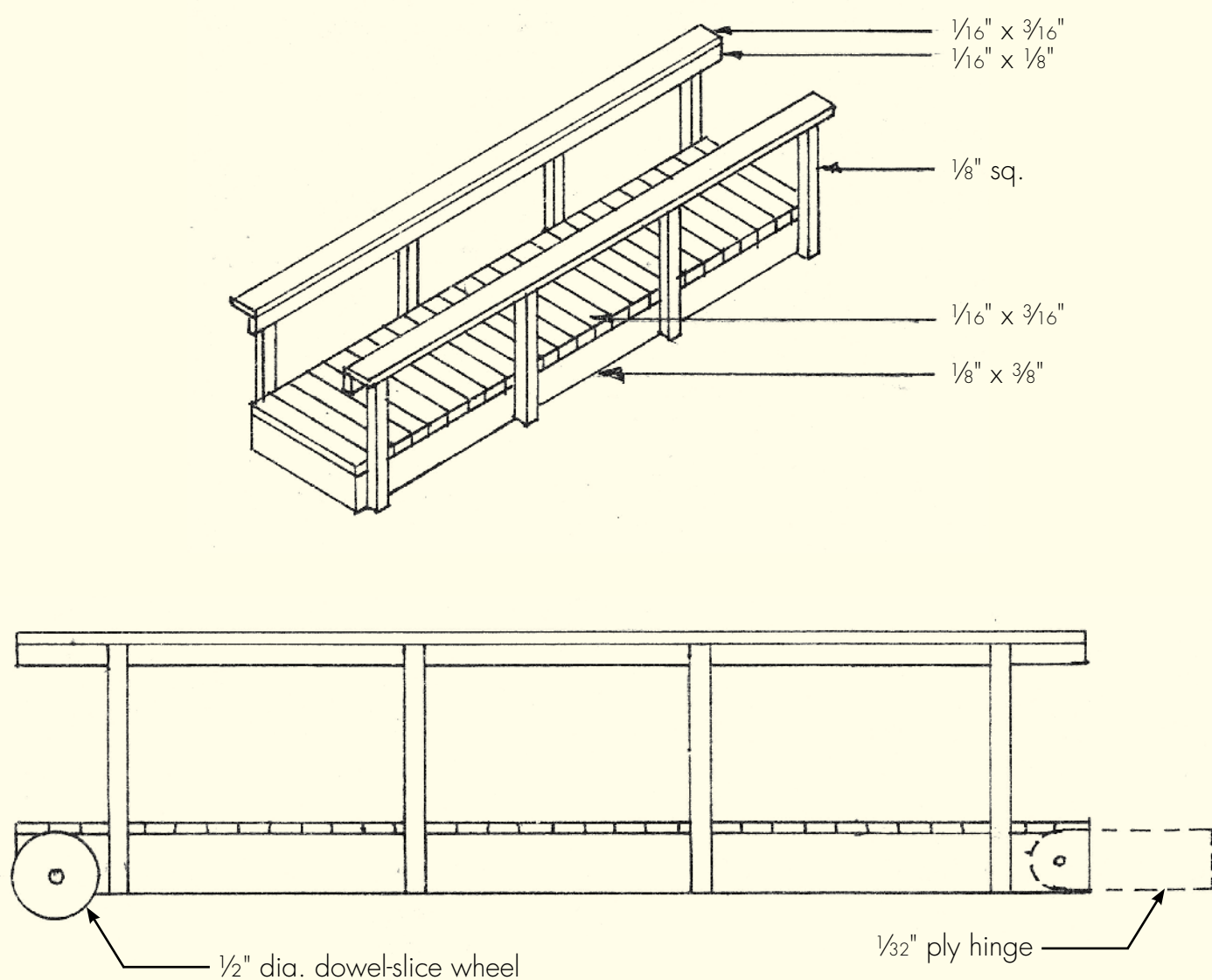


Build a 1:20.3-scale dock for a lobster boat

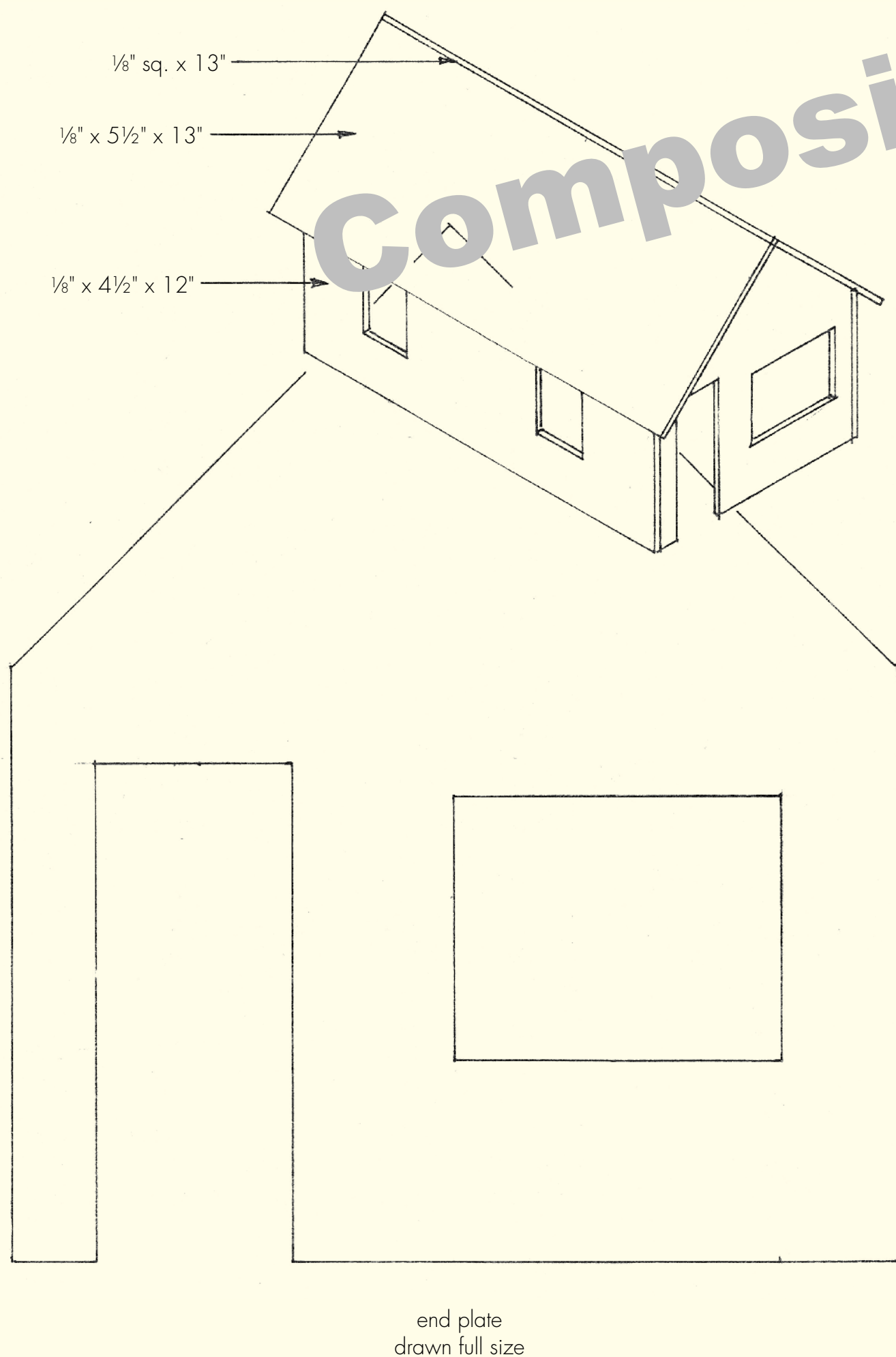
by Ted Stinson | Wiscasset, Maine

NOTE This will be the last pull-out plan set to appear in the print version of *Garden Railways* magazine. We will continue to publish the plans, but they will be available online only. You can find them at our web site: www.gardenrailways.com. While supplies last, previously published paper plans will continue to be available from Sidestreet Bannerworks.

Ramp Construction Detail



Building Substructure Detail



Constructing the dock

Refer to the plan. The drawing shows a side and front view. First, stain any wood to be used in the construction with a driftwood-colored stain. The dock shown is to be placed on a concrete paver set about 1" under the surface of the water. That way, the dock can be easily built to fit on a flat surface and it is removable.

Begin by cutting the $\frac{3}{4}''$ -square girders. Drill $\frac{1}{2}''$ -diameter holes in the girders to accept the $\frac{1}{2}''$ -diameter piers (pilings). Glue the piers in place. Cut, fit, and glue the $\frac{3}{16}'' \times \frac{5}{16}''$ diagonals in place on each set of girders. When the glue has set, drill pilot holes for the #18 x $\frac{1}{2}''$ escutcheon pins. Fit and glue the pins in place.

Now cut several $\frac{5}{16}'' \times \frac{3}{4}''$ joists. Set a pair of these on a flat surface and glue the girder/plier assemblies in place (upside down), with the joists located at the ends of each girder. With the end joists glued in place, you can add the intermediate joists.

By this time the whole things should be quite strong, so cut, fit, and glue in place, on each girder, the diagonals that run between the piers. When the glue has set, add the escutcheon pins. Turn the dock right side up and plank the deck with $\frac{3}{16}'' \times \frac{3}{4}''$ strips. Finally, add the $\frac{5}{16}'' \times \frac{5}{8}''$ rail along the front and sides of the dock.

The float and ramp

I would want the float and the lobster boat to sit on a concrete paver located just below the water's surface. You can build the float around a 1"-thick block of foam or wood. The ramp can be built around a $\frac{3}{8}''$ -thick piece of wood, $1\frac{1}{16}'' \times 6\frac{7}{16}''$ long. The dock should have a crane for unloading. Make one according to the drawing. It should be painted black and be glued in place.

The last detail is the building. I have shown the substructure for a typical building. Surface details, such as windows, doors, siding, and roofing are up to you. A restaurant would get top-of-the-line materials, while a wholesale fish dealer might settle for rough-sawn lumber siding and a tar-paper roof.

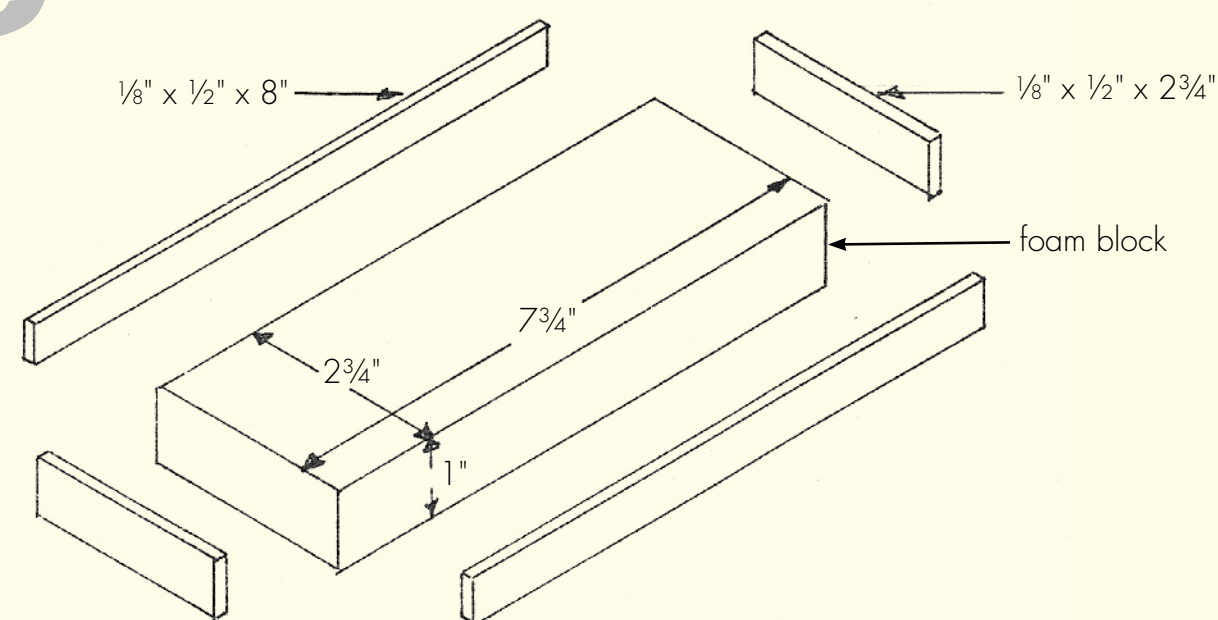
Add whatever details you wish—a stock of old traps, barrels of bait, picnic tables, trash barrels (made from 55-gallon drums), and, of course, some lobstermen. It is not the sort of model I'd want to leave out in the weather, so make it moveable. You're done.

This sheet is a supplement to the October 2006 issue of *Garden Railways* magazine. While supplies last, extra copies of these drawings can be had by sending \$1.50 per set (\$2.00 foreign) to: Sidestreet Bannerworks, PO Box 460222, Denver CO 80246 USA. A complete list of available plans can be found at www.sidestreet.info, or send a stamped, self-addressed envelope to the above address.

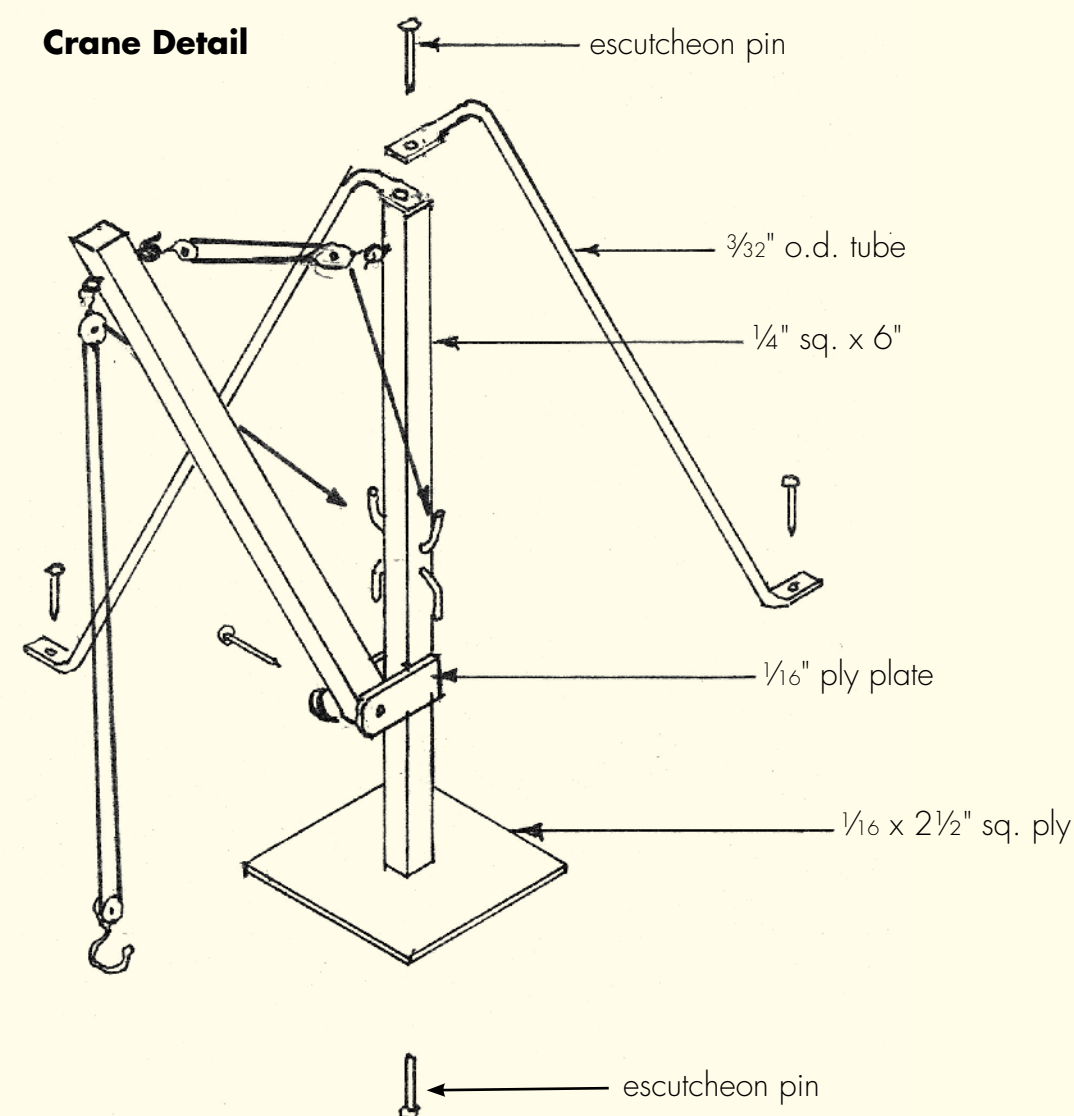
Please note: Since this project can mostly be done with a table saw, no kit is being offered. If you'd like to contact Northeast Narrow Gauge, the company's address is PO Box 191, Wiscasset ME 04578. Web site: www.nemodel.com

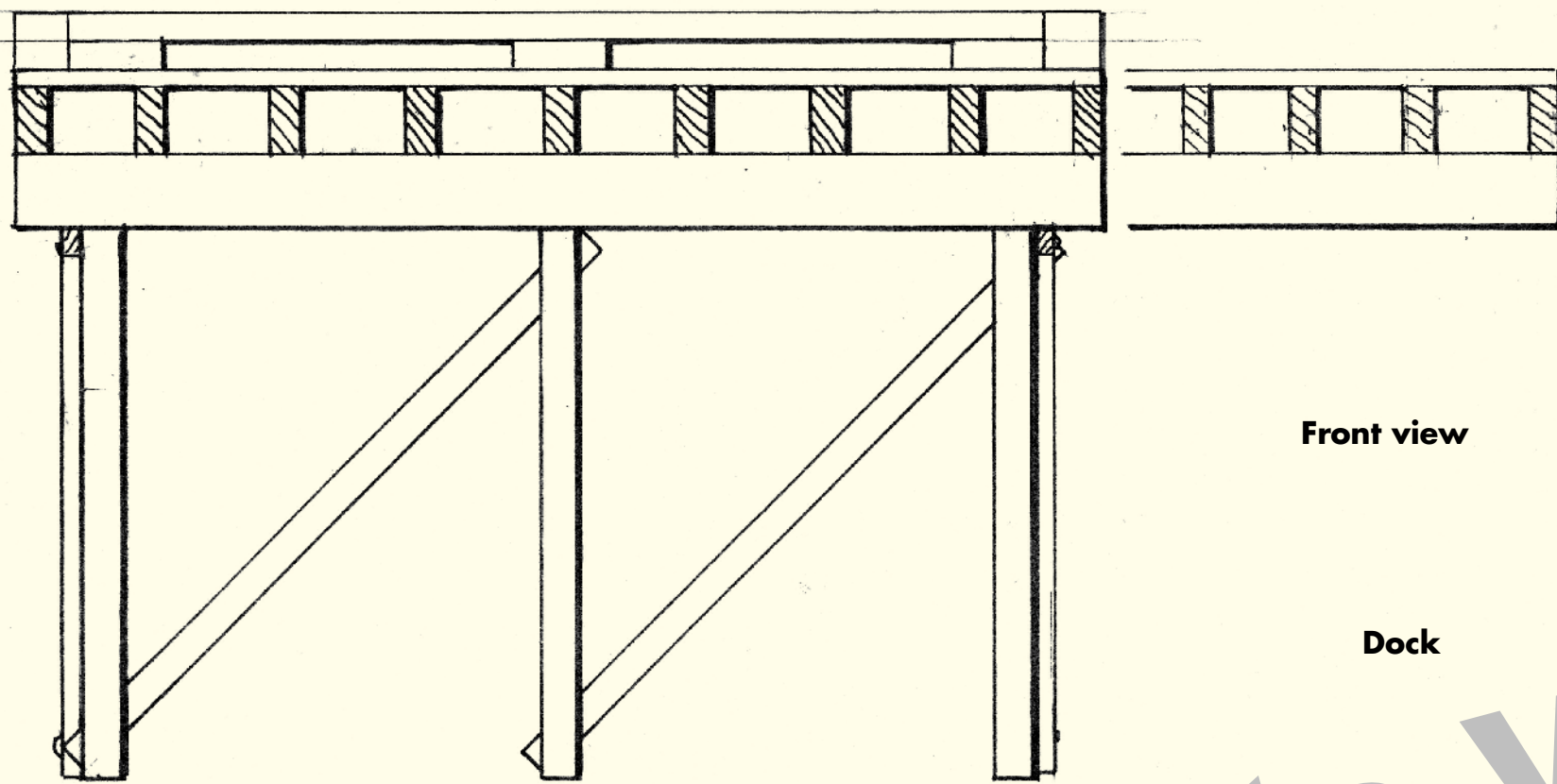
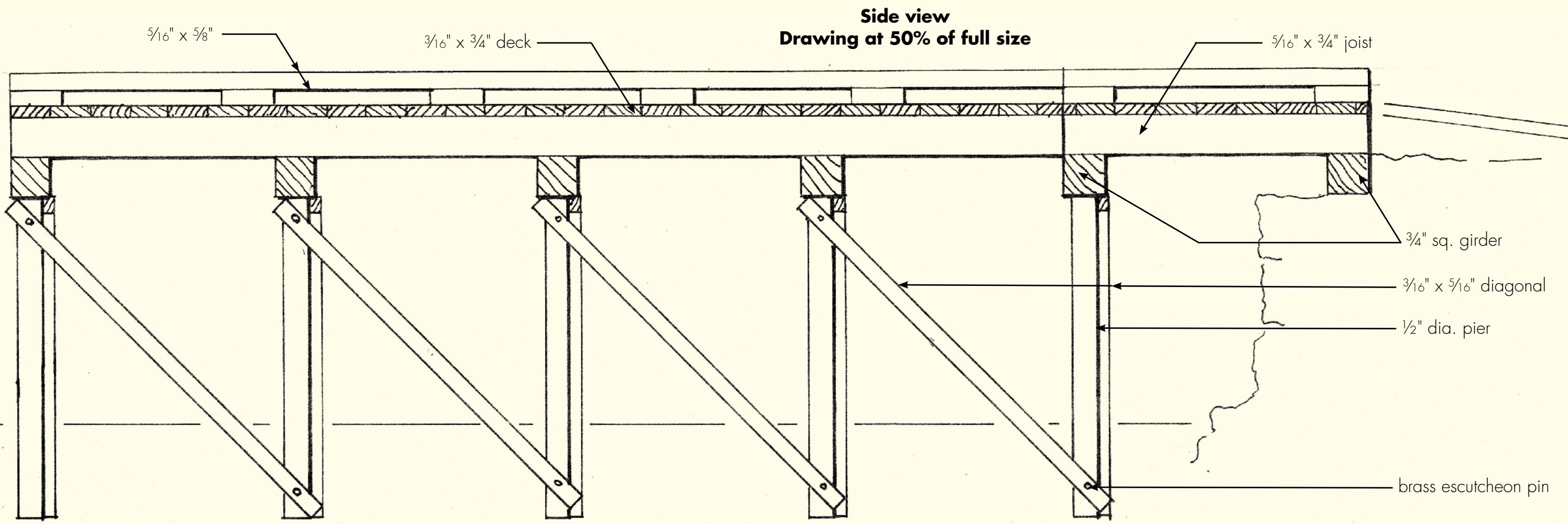
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Construction Detail



Crane Detail



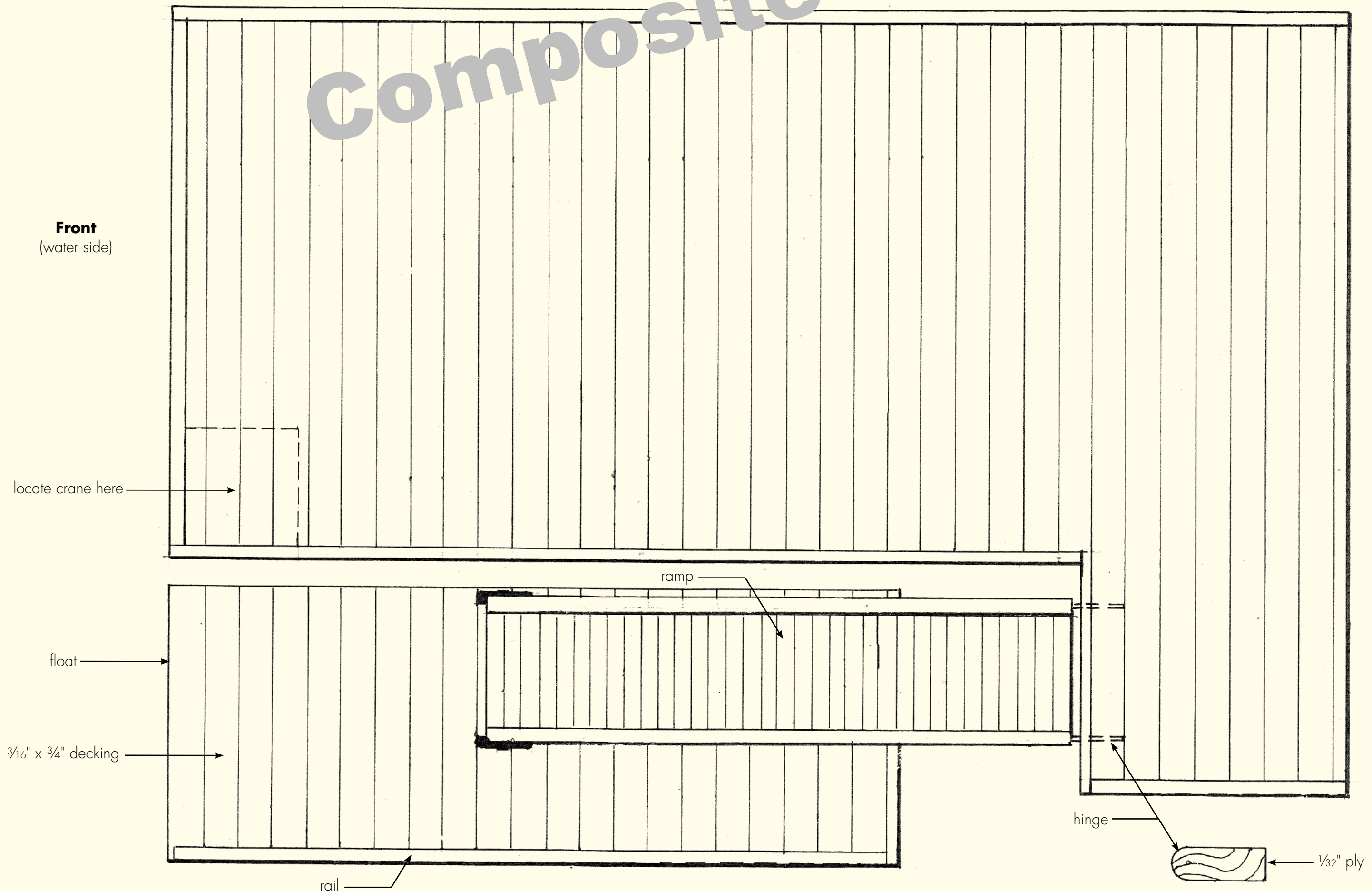


Dock

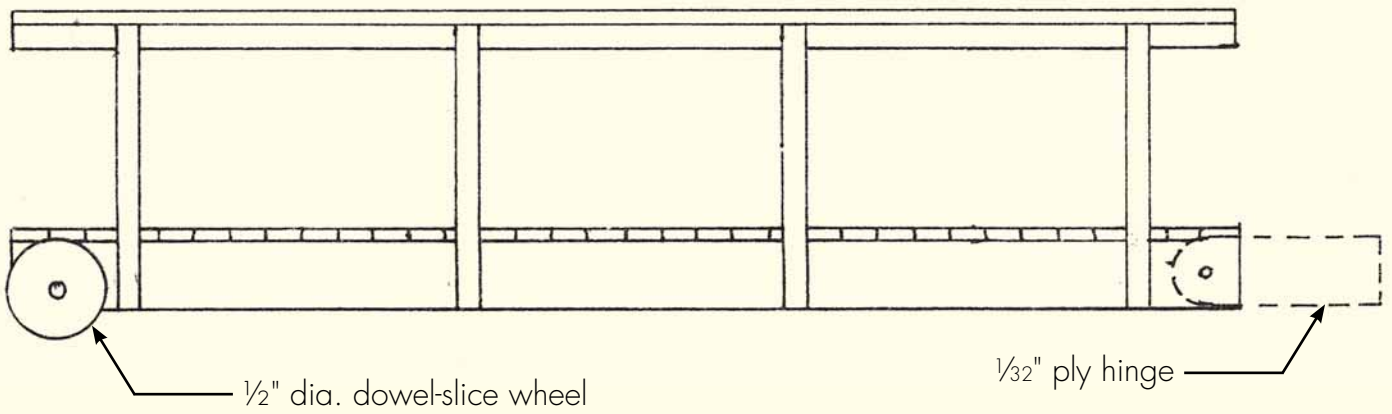
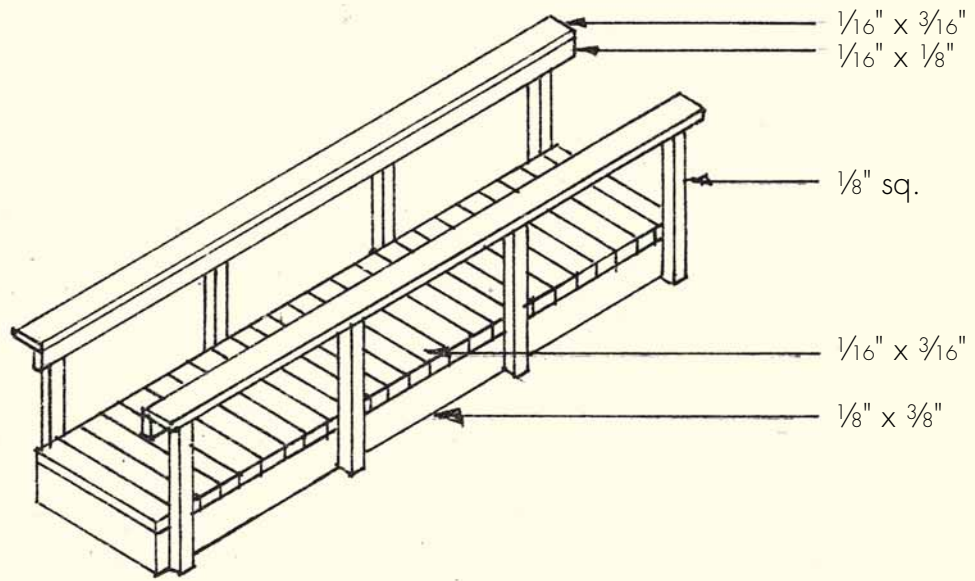
Are you working in a different scale?

- If you are working in 1:32 scale, reduce these drawings to 63%.
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- 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 ($\frac{7}{8}$ " scale), enlarge these drawings to 148%.

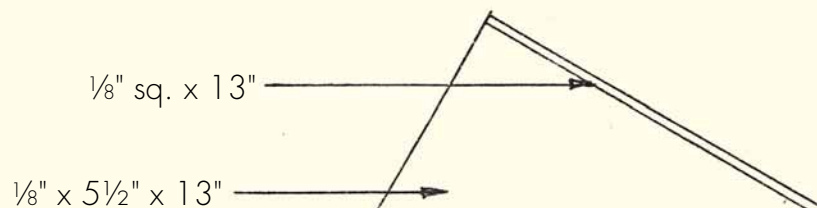
Top view
Drawing at 50% of full size



Ramp Construction Detail



Building Substructure Detail



Build a 1:20.3-scale dock for a lobster boat

by Ted Stinson | Wiscasset, Maine

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Lobstering became a profitable industry in the 20th century and whole docks were built to handle the trade. Viscasset Harbor in Maine has at least one dock that services the boats of the lobstering industry.

The dock presented here is based on the town dock in Wiscasset Harbor. I have made it a bit smaller than the original to better fit the typical garden railway. Here in Maine there is a 10-foot tide, so a float is required for the boats to turn, requires a ramp that leads from the float to the fixed dock. In the corner of the dock nearest the float is a crane for to load and unload the boats. Though the dock in Wiscasset does not have a building on it, most docks used by lobstermen have a building of structure. This may serve a number of purposes, including an outdoor eatery (featuring lobster, shrimp, clams, etc.), a market, or a wholesale fish and lobster dealer, just to name a few.

Constructing the dock

Refer to the plan. The drawing shows a side and front view. First, stain any wood to be used in the construction with a dark colored stain. The dock shown is to be placed on a concrete paver set about 1" under the surface of the water. The dock can be easily built to fit on a flat surface and it is removable.

Begin by cutting the 3/4"-square girders. Drill 1/2"-diameter holes in the girders to accept the 1/2"-diameter piers. Cut, fit, and glue the 3/16" x 5/16" diagonals in place on each set of girders. When the glue has set, add the #18 x 1/2" escutcheon pins. Fit and glue the pins in place.

Now cut several 5/16" x 3/4" joists. Set a pair of these on a flat surface and glue the girder/pier assemblies in place with the joists located at the ends of each girder. With the end joists glued in place, you can add the intermediate joists.

By this time the whole things should be quite strong, so cut, fit, and glue in place, on each girder, the diagonals between the piers. When the glue has set, add the escutcheon pins. Turn the dock right side up and plank the deck with the 5/16" x 5/8" rail along the front and sides of the dock.

The float and ramp

I would want the float and the lobster boat to sit on a concrete paver located just below the water's surface. You can use a block of foam or wood. The ramp can be built around a 3/8"-thick piece of wood, 1 7/16" x 6 7/16" wide. It should have a crane for unloading. Make one according to the drawing. It should be painted black and be glued in place.

The last detail is the building. I have shown the substructure for a typical building. Surface details, such as siding, and roofing are up to you. A restaurant would get top-of-the-line materials, while a wholesale fish dealer would use rough-sawn lumber siding and a tar-paper roof.

Add whatever details you wish—a stock of old traps, barrels of bait, picnic tables, trash barrels (made from 5-gallon cans), and, of course, some lobstermen. It is not the sort of model I'd want to leave out in the weather, so make it realistic.

* * *

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Please note: Since this project can mostly be done with a table saw, no kit is being offered. If you'd like to contact Narrow Gauge, the company's address is PO Box 191, Wiscasset ME 04578. Web site: www.nemodel.com

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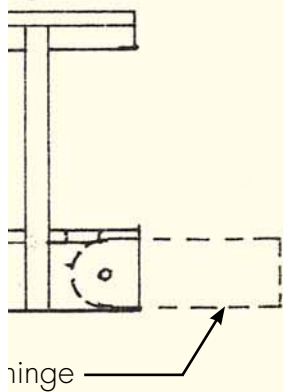
Float Construction Detail

6" x 3/16"
6" x 1/8"

sq.

6" x 3/16"

" x 3/8"



Plan set #77-C

but plan set to appear in the print version of *Garden* will continue to publish the plans, but they will be available on our web site: www.gardenrailways.com. While supplies last, they will continue to be available from Sidestreet Bannerworks.

uilt to handle the trade. Virtually every harbor.

made it a bit smaller than the prototype to save space required for the boats to tie up to. This, in the lock nearest the float is a crane, used to load and unload docks used by lobstermen have some sort of ring lobster, shrimp, clams, etc.), a retail fish

is used in the construction with a driftwood-like surface of the water. That way, the dock

accept the 1/2"-diameter piers (pilings). Glue the girders. When the glue has set, drill pilot holes

in the girder/pier assemblies in place (upside down), then you can add the intermediate joists.

Next, on each girder, the diagonals that run from side to side up and plank the deck with 3/16" x 3/4"

above the water's surface. You can build the float out of a piece of wood, 1 7/16" x 6 7/16" long. The dock should be painted black and be glued in place.

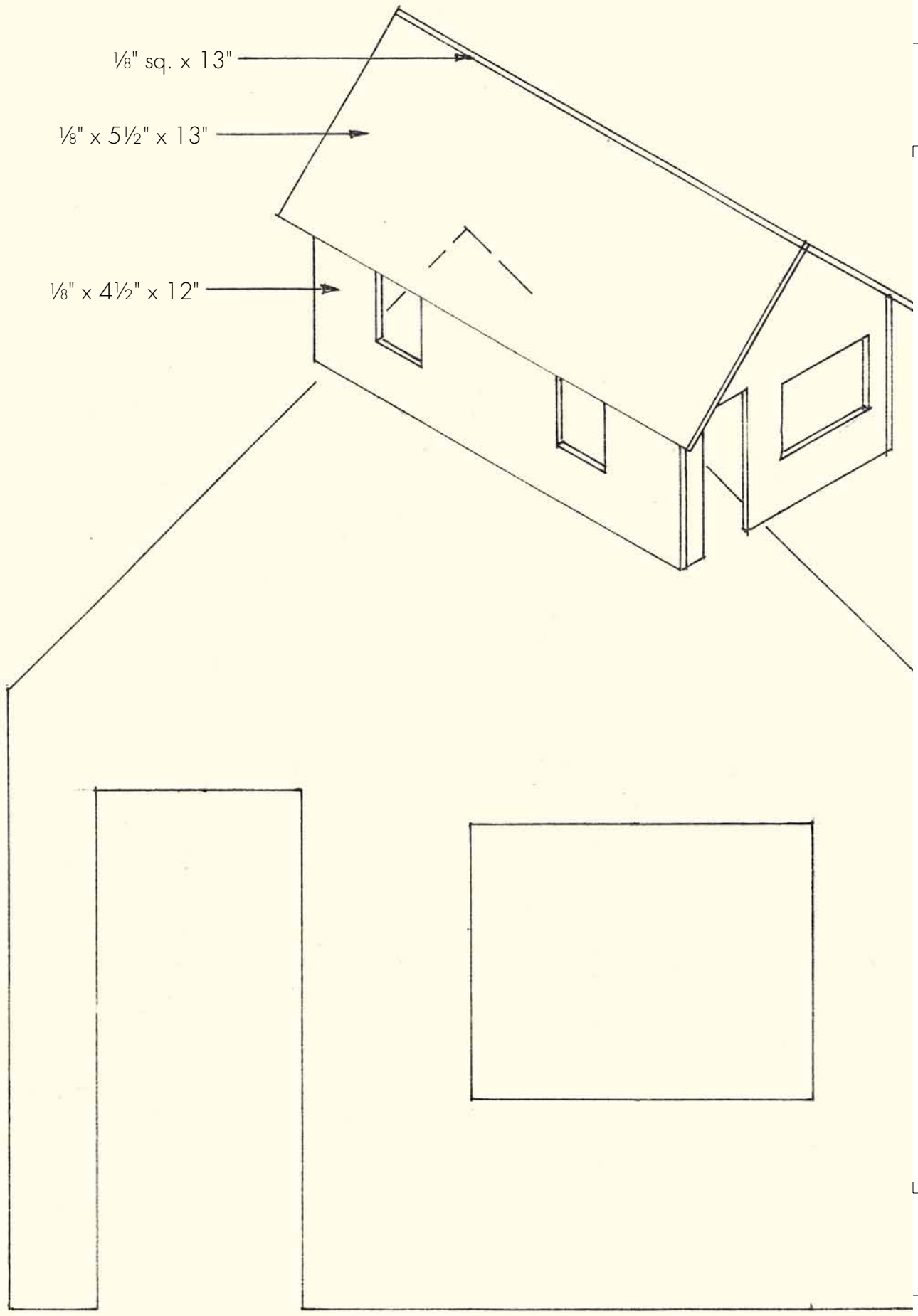
Finally, surface details, such as windows, doors, etc., while a wholesale fish dealer might settle for

plastic trash barrels (made from 55-gallon drums), but to handle the weather, so make it moveable. You're

While supplies last, extra copies of these drawings, PO Box 460222, Denver CO 80246 USA. A stamped, self-addressed envelope to the above

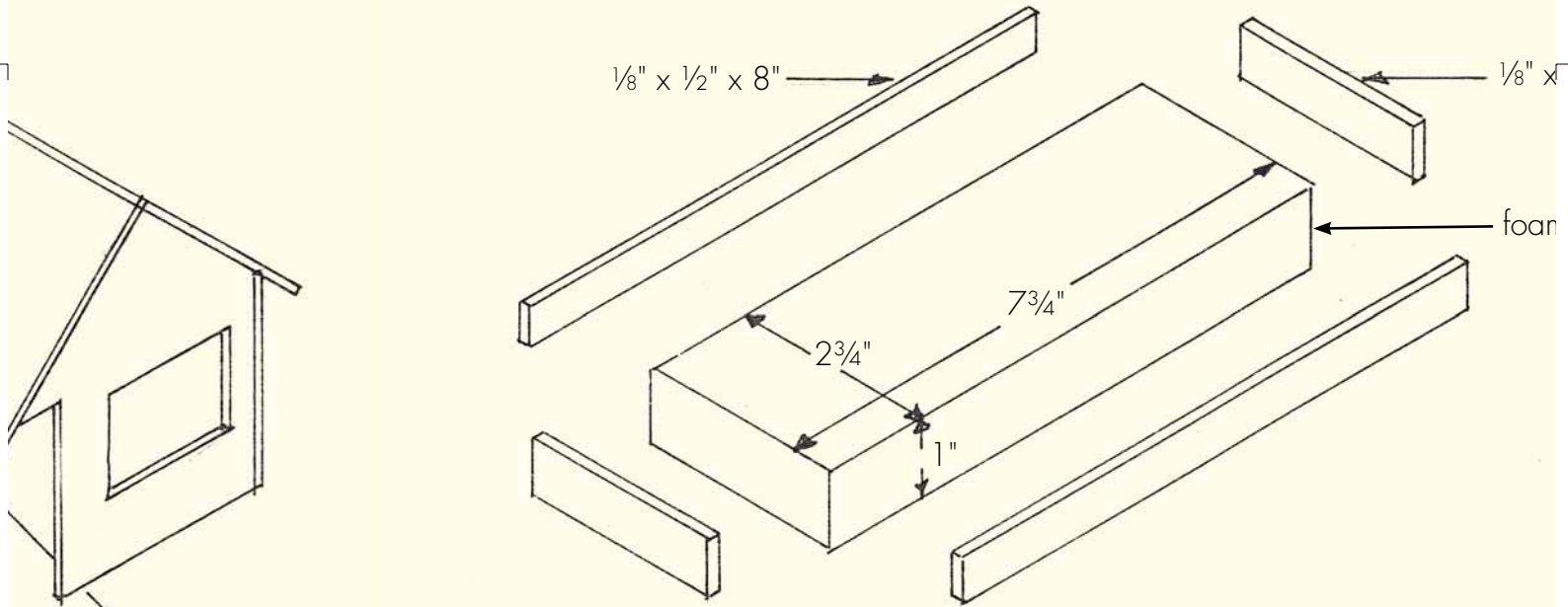
is being offered. If you'd like to contact Northeast Model Rail, visit www.nemodel.com

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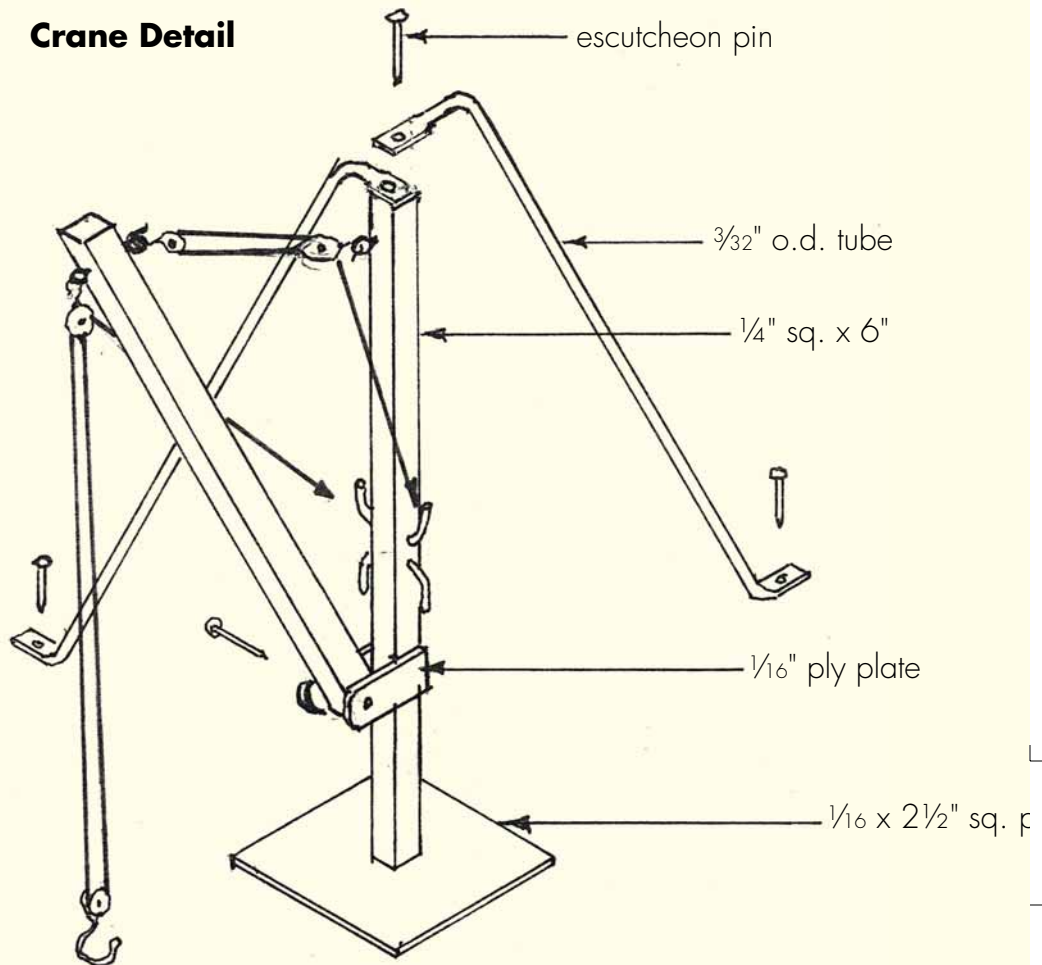


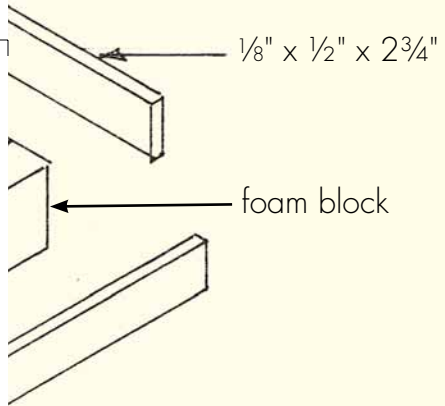
end plate
drawn full size

Float Construction Detail



Crane Detail





in

2" o.d. tube

1/4" sq. x 6"

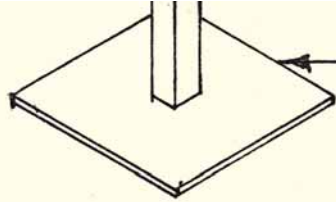
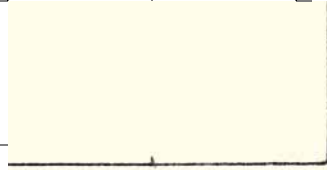


1/16" ply plate

1/16 x 2 1/2" sq. ply



end plate
drawn full size



1/16 x 2 1/2" sq. p



escutcheon pin

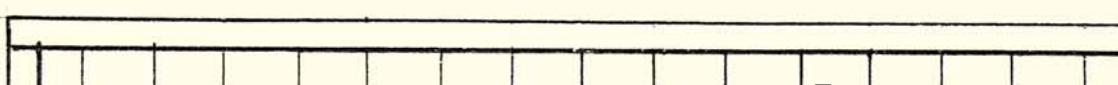
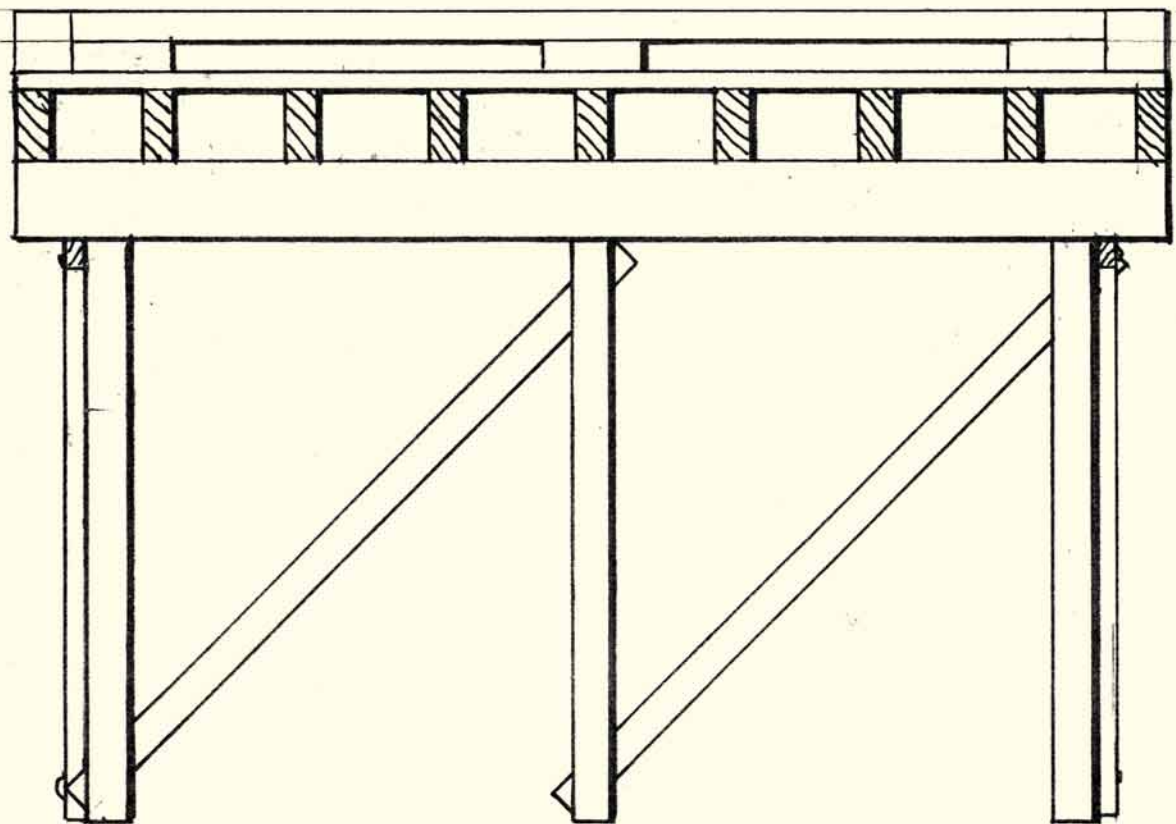
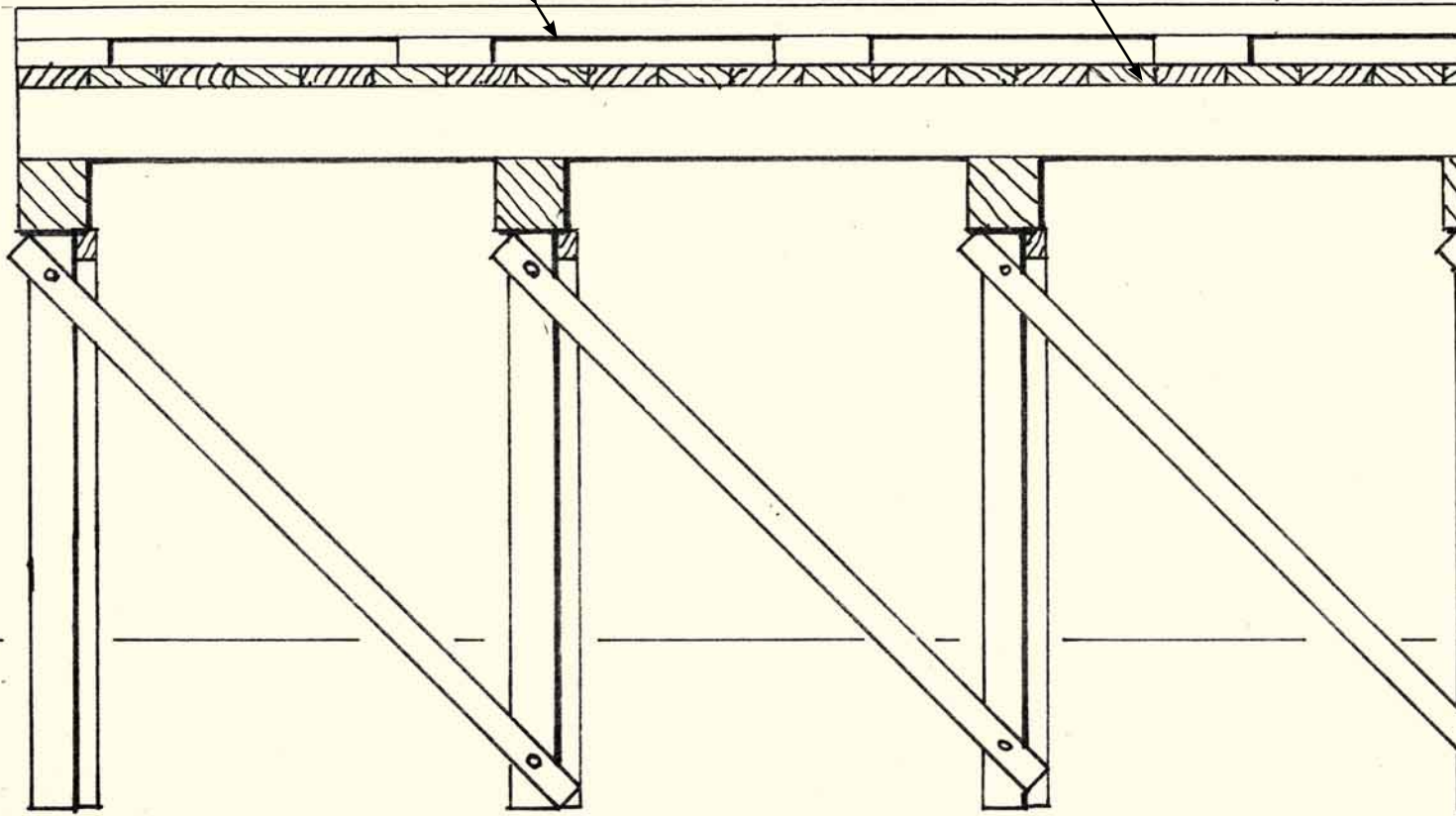
1/16 x 2 1/2" sq. ply

n pin

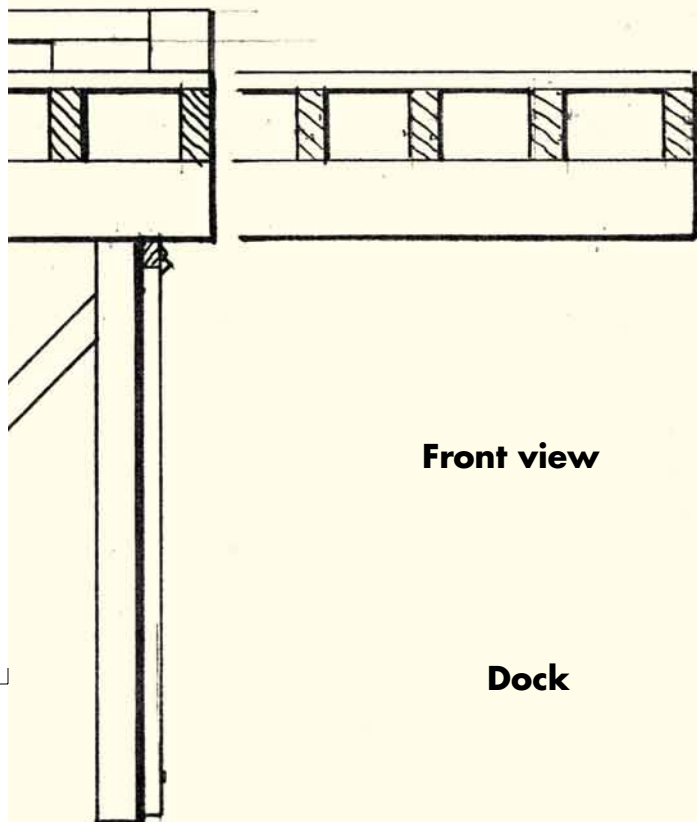
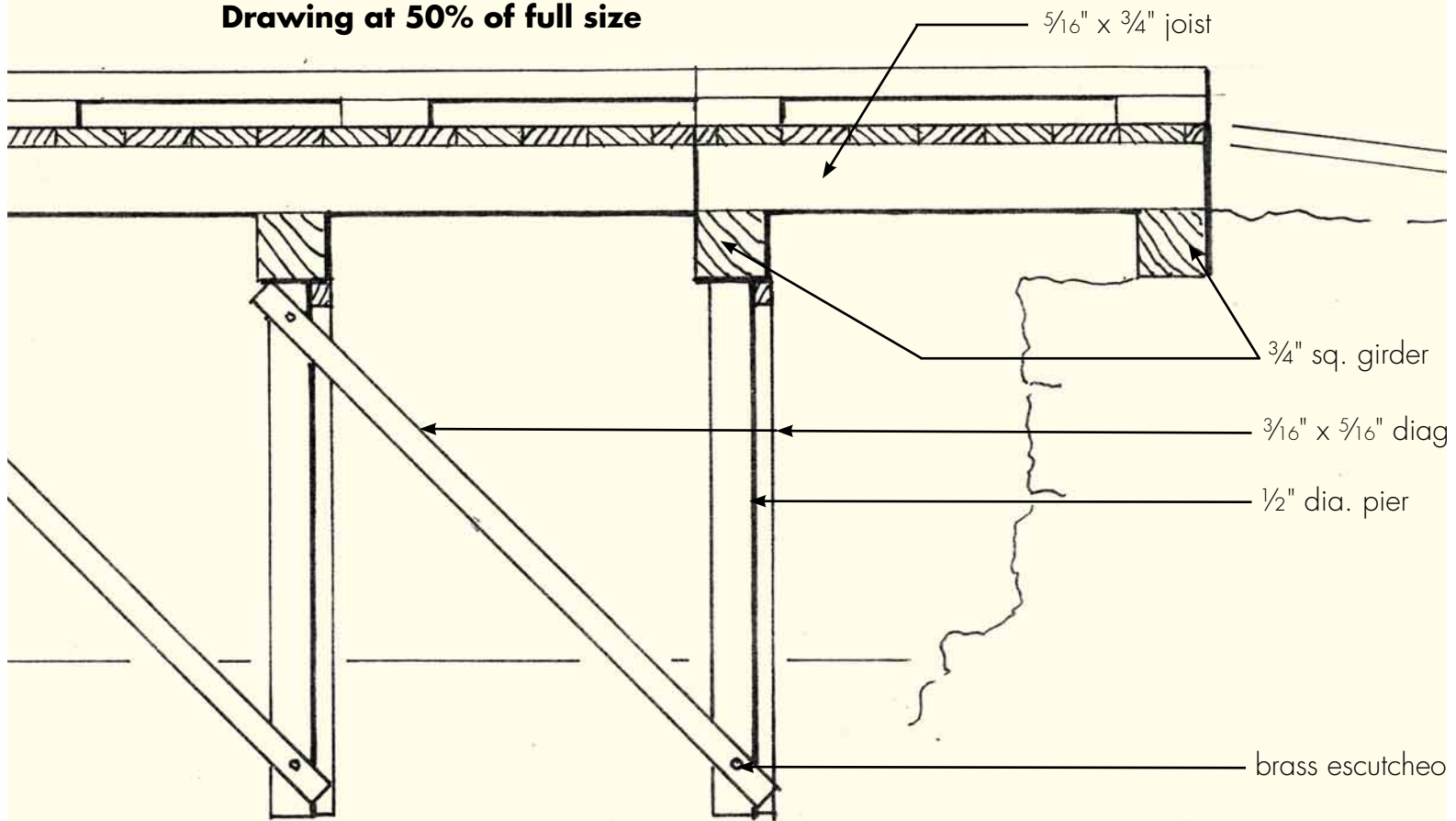
5/16" x 5/8"

3/16" x 3/4" deck

Dr



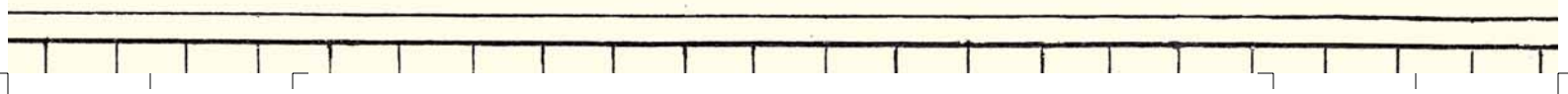
Side view
Drawing at 50% of full size



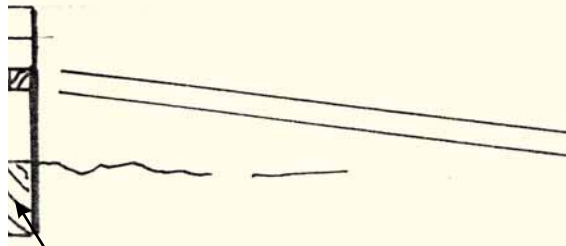
Are you working in a different scale?

- If you are working in 1:32 scale, reduce these drawings to 63%
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- 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 110%
- If you are working in 1:13.7 (7/8") scale, enlarge these drawings to 140%

Top view
Drawing at 50% of full size



dist



3/4" sq. girder

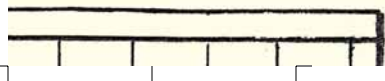
3/16" x 5/16" diagonal

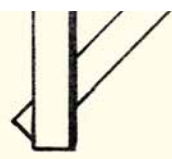
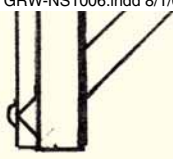
1/2" dia. pier

brass escutcheon pin

scale?

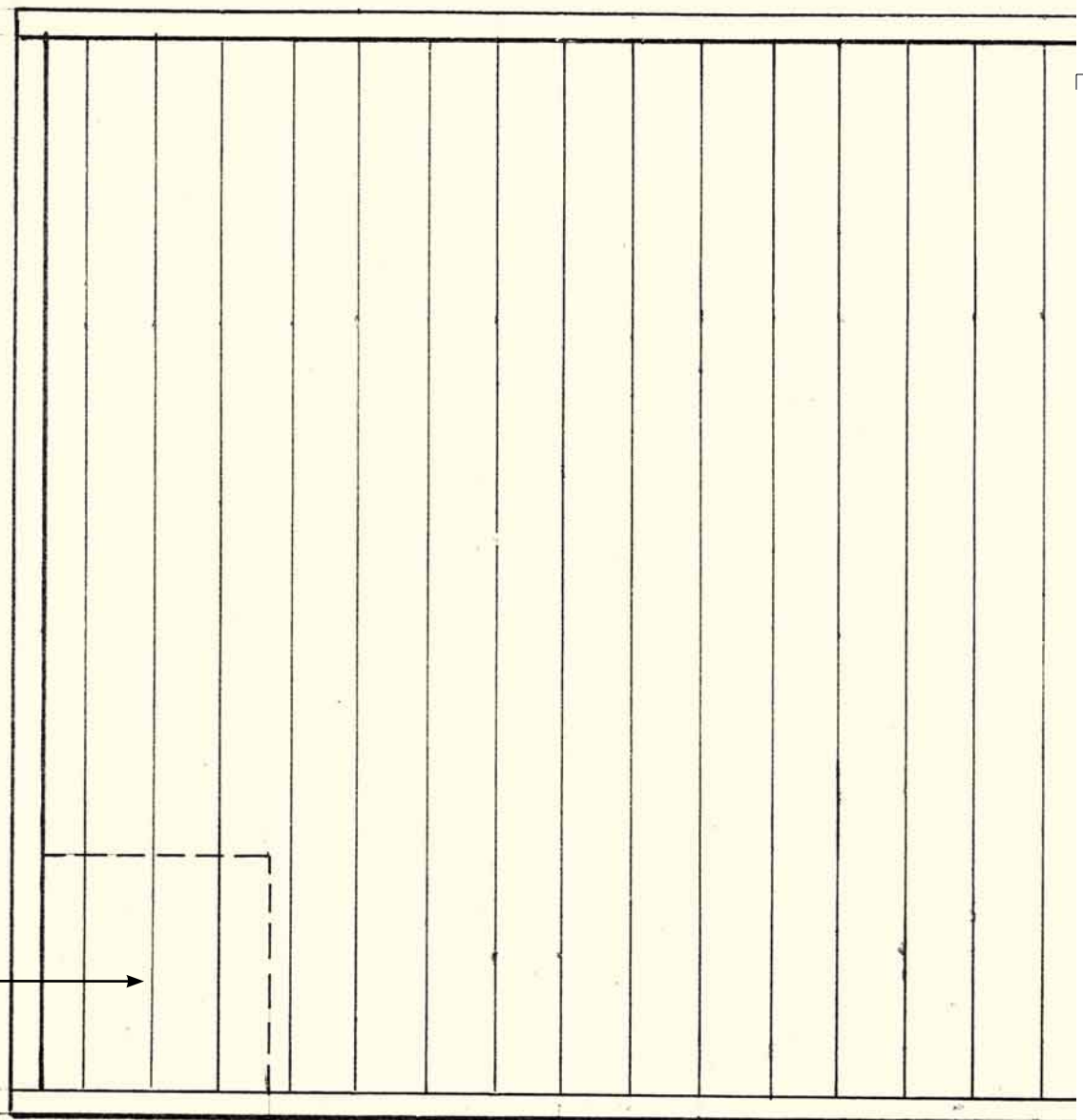
- duce these drawings to 63%.
- duce these drawings to 70%.
- duce these drawings to 88%.
- reduce these drawings to 90%.
- enlarge these drawings to 107%.
- scale, enlarge these drawings to 148%.





Front
(water side)

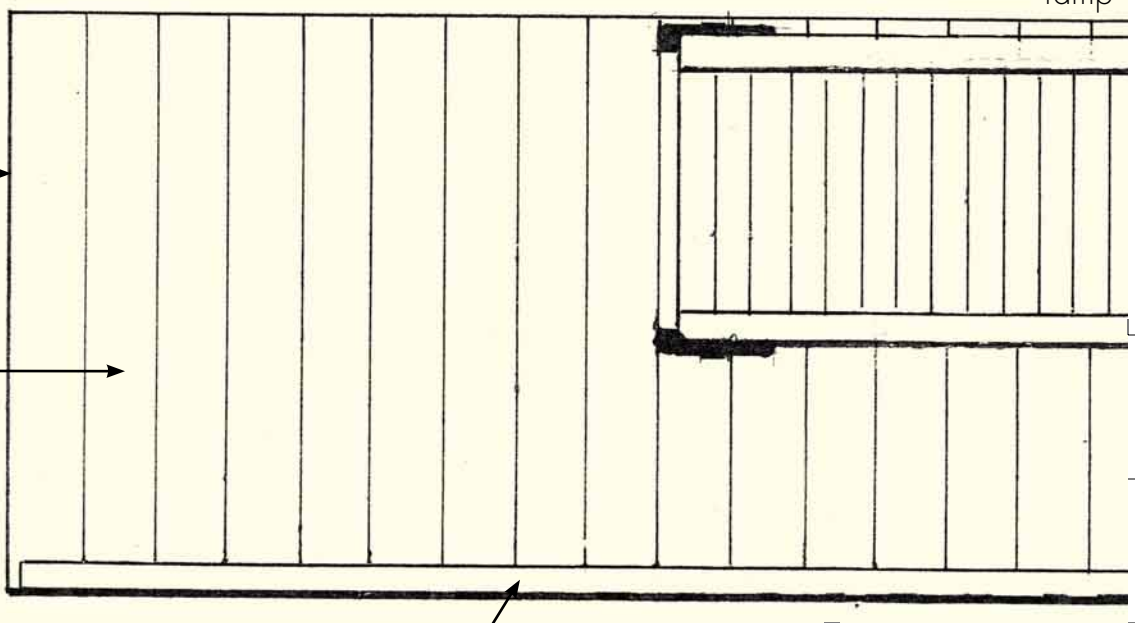
locate crane here →



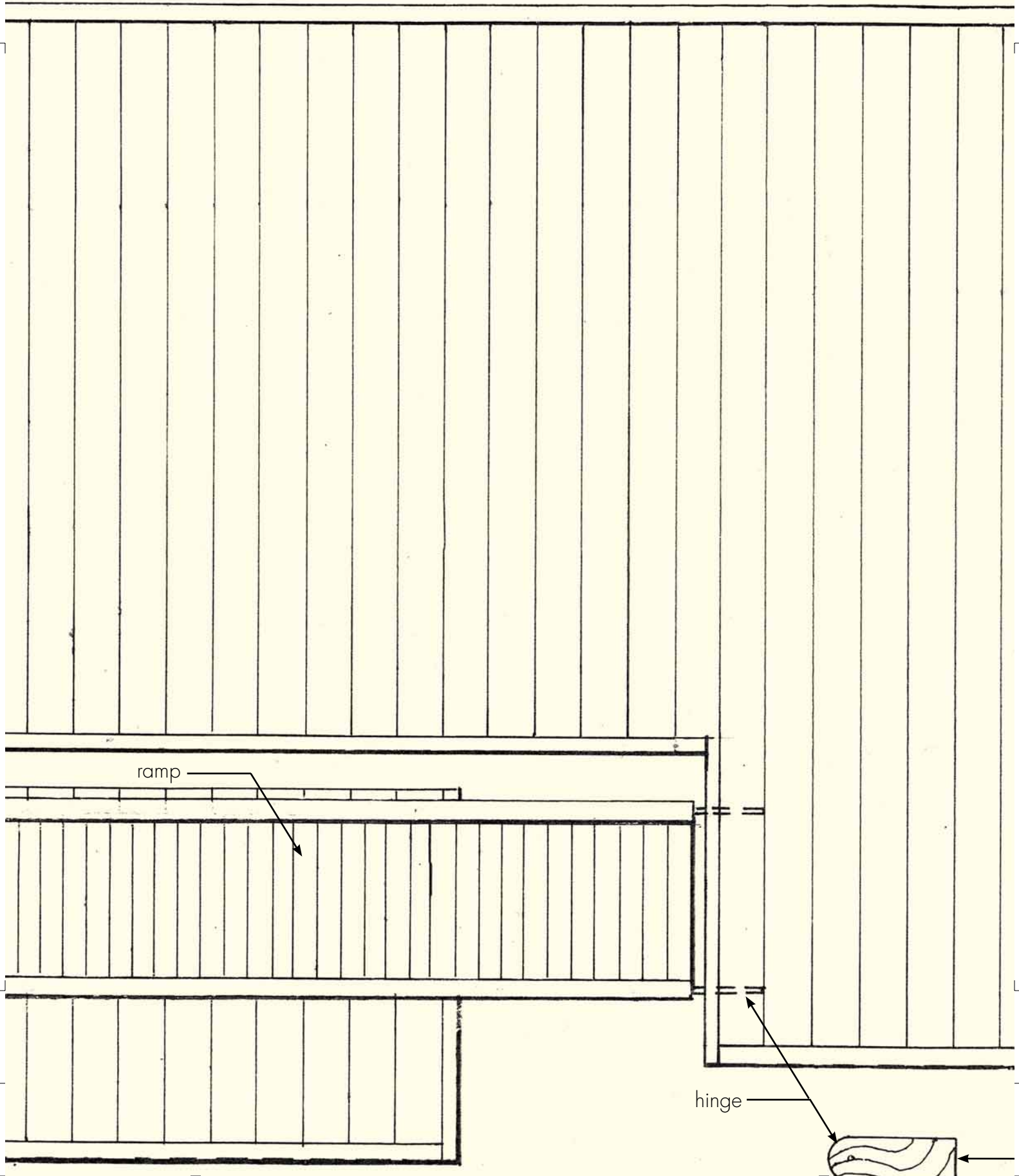
ramp -

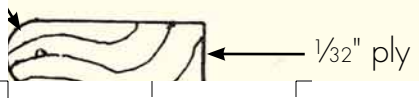
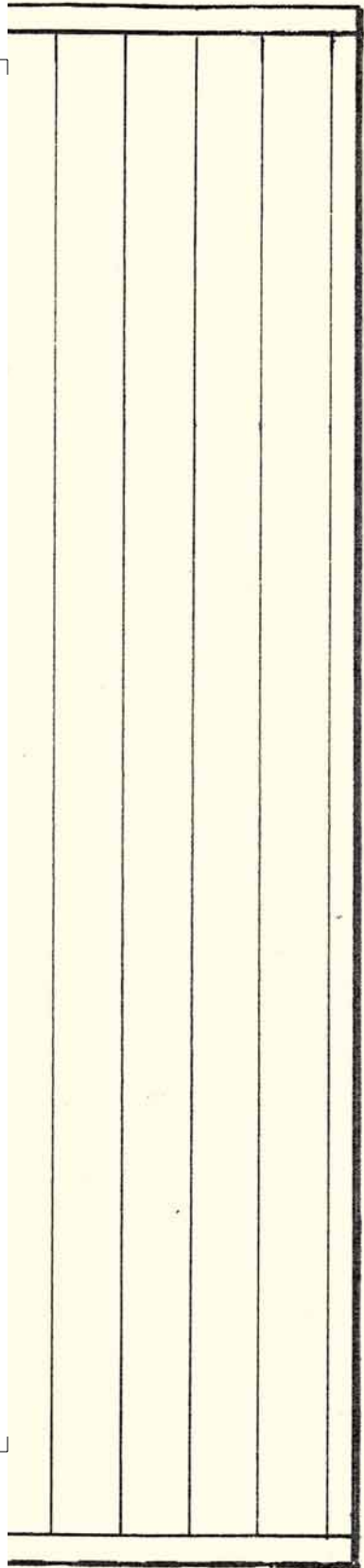
float →

$\frac{3}{16}$ " x $\frac{3}{4}$ " decking →

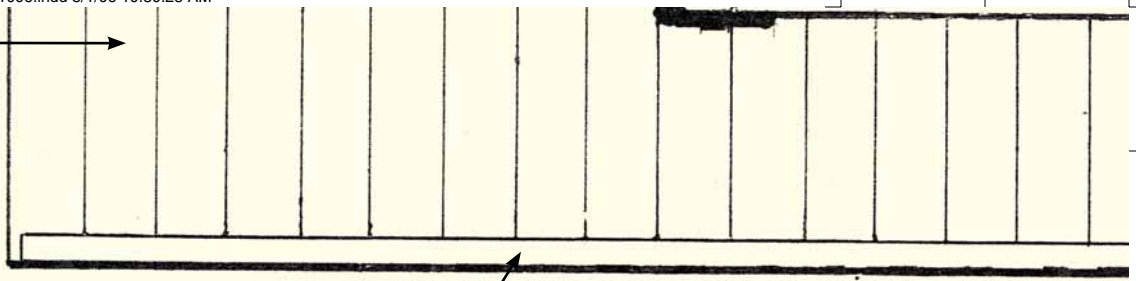
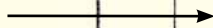


Top view
Drawing at 50% of full size

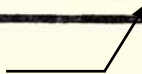


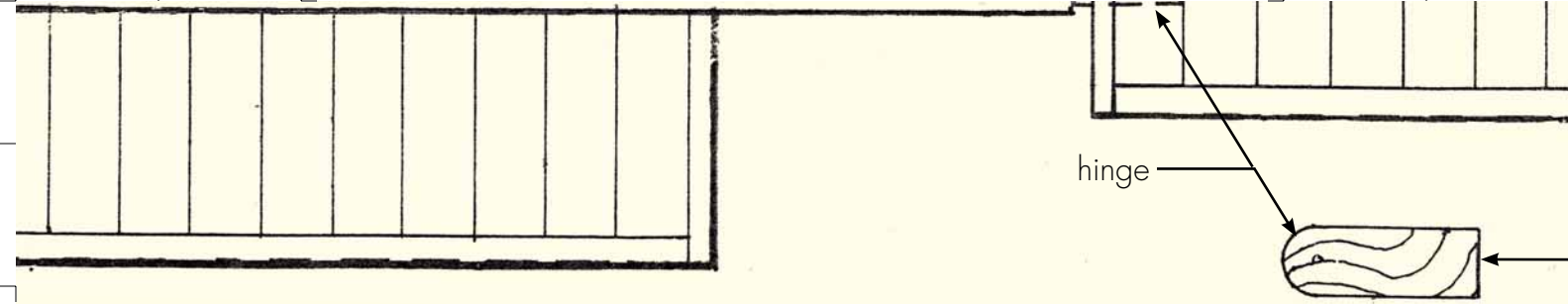


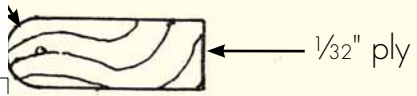
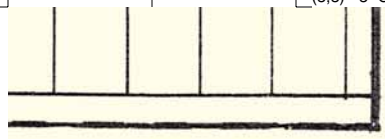
$\frac{3}{16}$ " x $\frac{3}{4}$ " decking



rail







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