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CHIEF'S SHOP

Plan of the Week

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CHIEF'S SHOP PLAN OF THE WEEK



SIMPLE WOODWORKING: BASIC WORKBENCH



ABOUT THESE PLANS

On this first page you will see above the project complete. On the last page you'll find the finished outer dimensions.

To the right is a list of the Lumber, Hardware/Supplies, and Tools you will need to complete this project. A measuring tape and pencil are not included because that should be pretty standard and self explanatory.

Below What You'll Need is the Parts list. This also is included on the Cutting Diagram page, which is the last page of this plan document.

Throughout these plans you'll find the icons below:



LAYOUT

This indicates a diagram detailing the dimensions of a project part and/or the placement for pocket holes, screws, nails, etc.



NOTE

Notes are the instructions for a particular step/section of the project.



TAKE CARE!

This indicates when to pay close attention to the diagrams, take precautions for safety, etc.

WHAT YOU'LL NEED



LUMBER

3 - 1 x 2 x 8
4 - 2 x 4 x 8
1 - 2 x 6 x 8
1 sheet of plywood
3/4 x 48 x 96

(availability will vary)

HARDWARE/SUPPLIES

2 1/2" pocket hole screws
#16 x 1 1/2" brads
#16 x 1 1/4" brads
wood glue

TOOLS

circular saw
w/Kreg Rip-Cut
miter saw
jig saw
drill/driver
power sander
pneumatic nailer/hammer
Kreg pocket hole jig
& drill bit
clamps, compass

PARTS

Legs (4) - 1 1/2 x 3 1/2 x 27 1/2
End Rails (4) - 1 1/2 x 3 1/2 x 13 3/4
Feet (2) - 1 1/2 x 5 1/2 x 24
Side Rails (4) - 1 1/2 x 3 1/2 x 40 1/4
Stretchers (2) - 1 1/2 x 3 1/2 x 16 1/4
Top (2) - 3/4 x 24 x 48
Top End Trim (2) - 3/4 x 1 1/2 x 24
Top Side Trim (2) - 3/4 x 1 1/2 x 49 1/2
Shelf (1) - 3/4 x 19 1/4 x 40 1/4
Shelf Trim (2) - 3/4 x 1 1/2 x 40 1/4

All parts are listed in actual dimensions. Refer to the Cutting Diagram on the last page of this plan as a guide for determining the specific board from which to cut the parts.

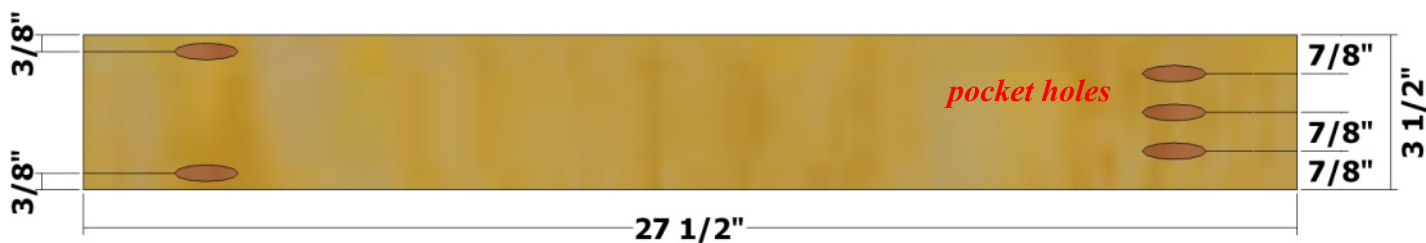
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LAYOUT

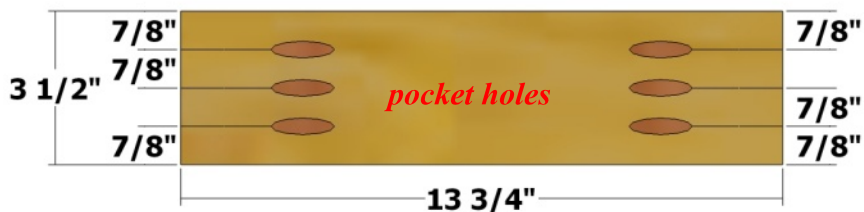
Leg



NOTE

Use the layouts as guides for measuring, marking, cutting, and drilling pocket holes in the **Legs** and **End Rails**. Set your pocket hole jig and drill bit for 1 1/2-inch stock.

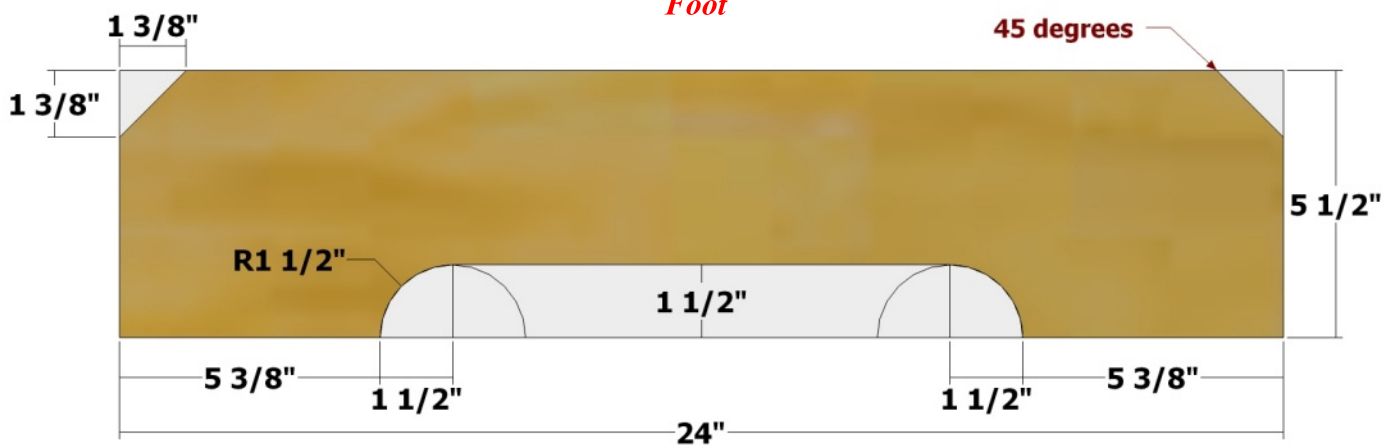
End Rail



LAYOUT

Foot

45 degrees

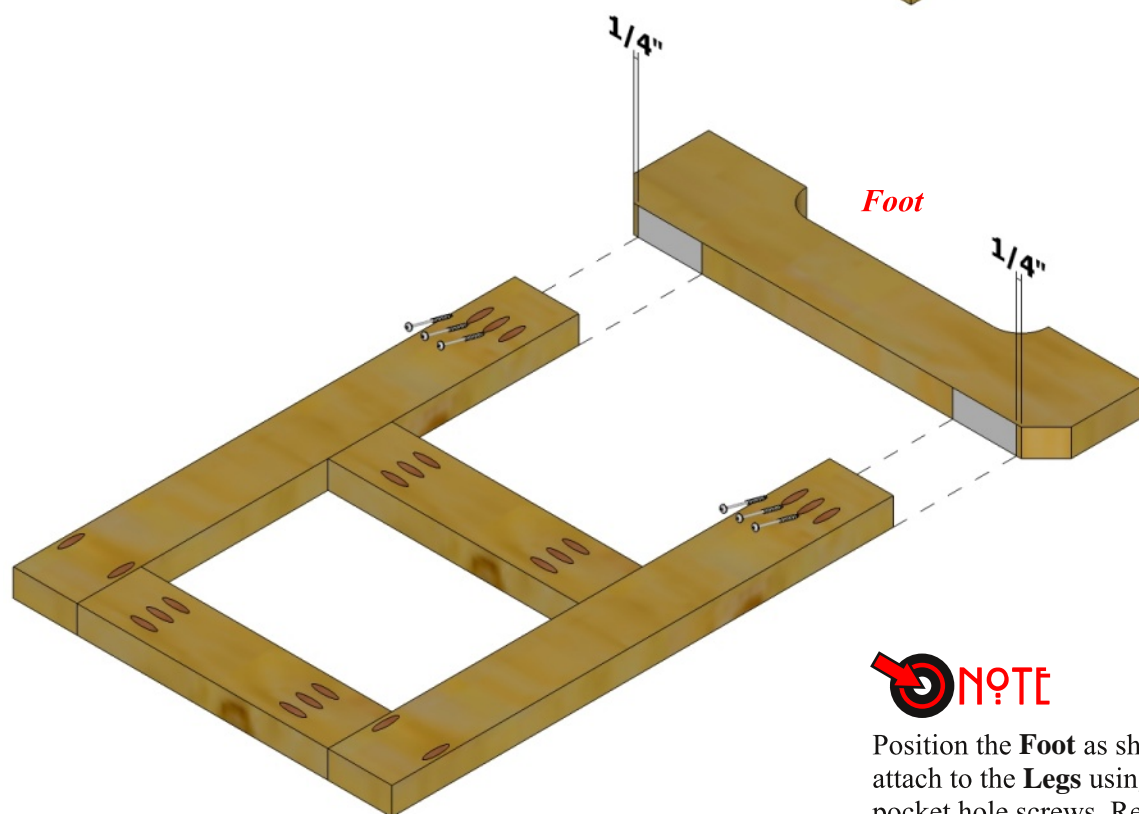
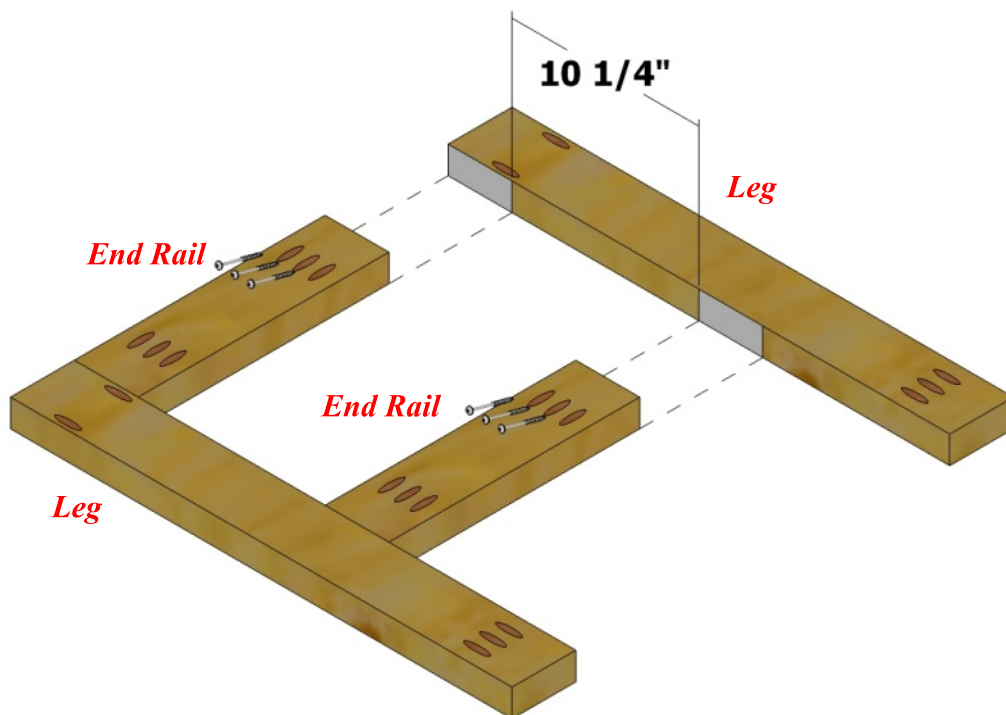


NOTE

Use the layout as a guide for measuring, marking, and cutting the **Feet**.



Position the **End Rails** as shown at right and attach to the **Side Rails** using glue and 2 1/2-inch pocket hole screws. Make two assemblies.



Position the **Foot** as shown above left and attach to the **Legs** using glue and 2 1/2-inch pocket hole screws. Repeat for the second assembly.

LAYOUT



NOTE

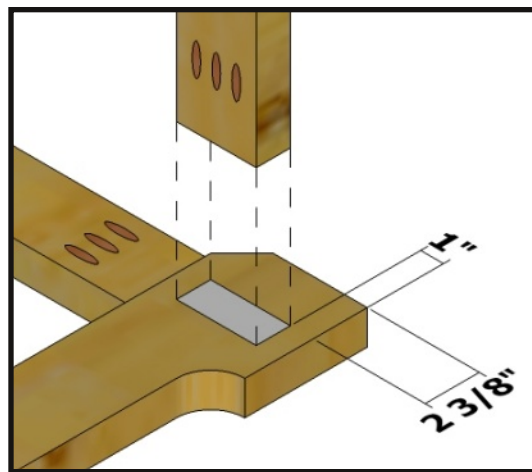
Use the layouts as guides for measuring, marking, cutting, and drilling pocket holes in the **Side Rails**. Set your pocket hole jig and drill bit for 1 1/2-inch stock. Create two of the above version, and two of the below version.

Side Rail (bottom)



Side Rail (top)

Side Rail (bottom)



NOTE

Position the **Side Rails** as shown at left and above and attach using glue and 2 1/2-inch pocket hole screws. Clamping the parts in place (using a right angle clamp) will help.



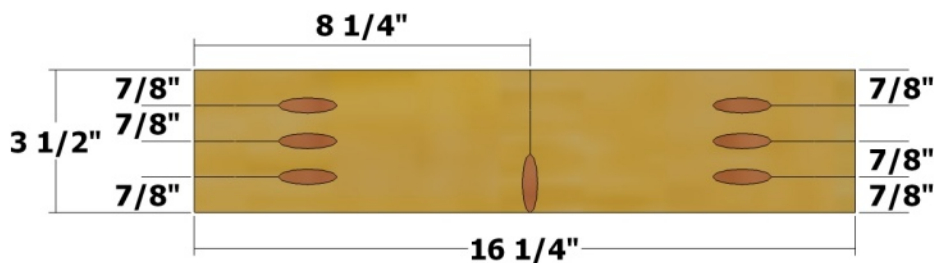
NOTE

Attach the remaining **Side Rails** (using glue and 2 1/2-inch pocket hole screws) to create an assembly as shown at left. Position the other **End Assembly** as shown at right and attach using glue and 2 1/2-inch pocket hole screws.



LAYOUT

Stretcher (top)



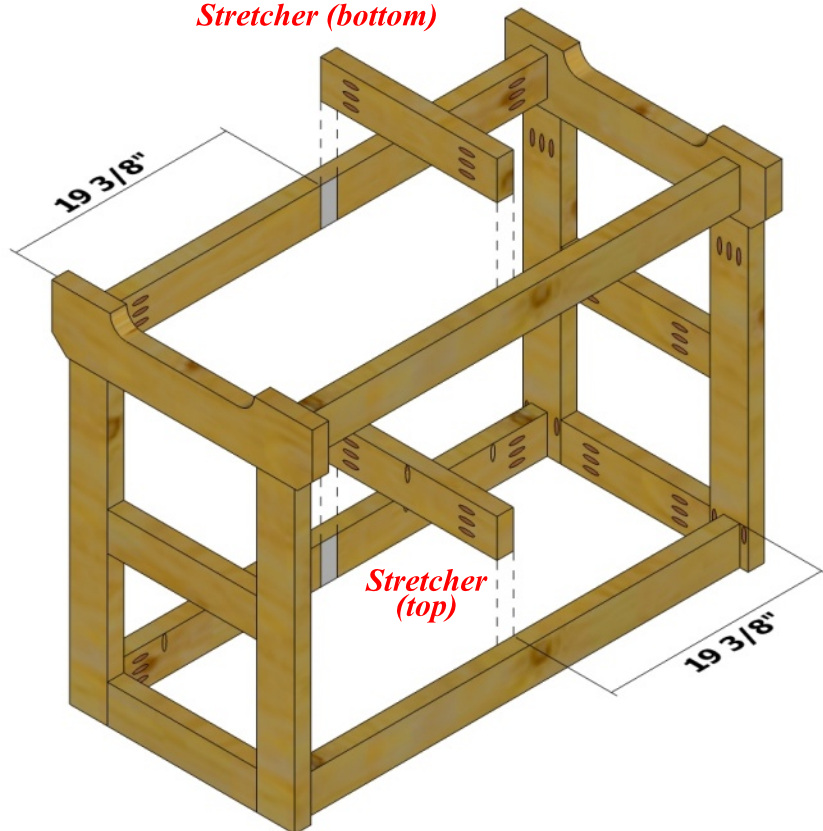
NOTE

Use the layouts as guides for measuring, marking, cutting, and drilling pocket holes in the **Stretchers**. Set your pocket hole jig and drill bit for 1 1/2-inch stock. Create one of each version.

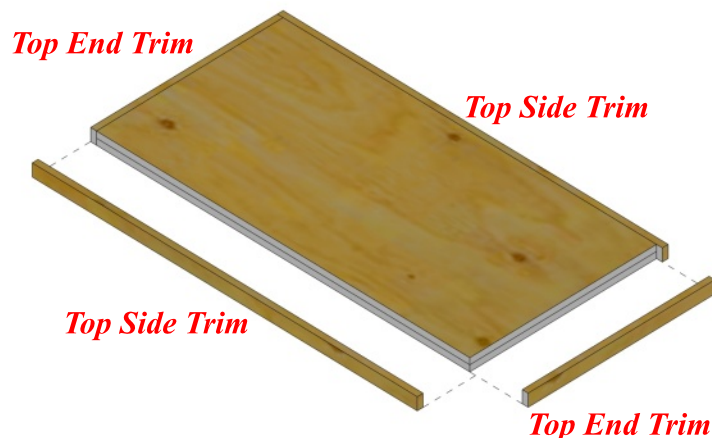
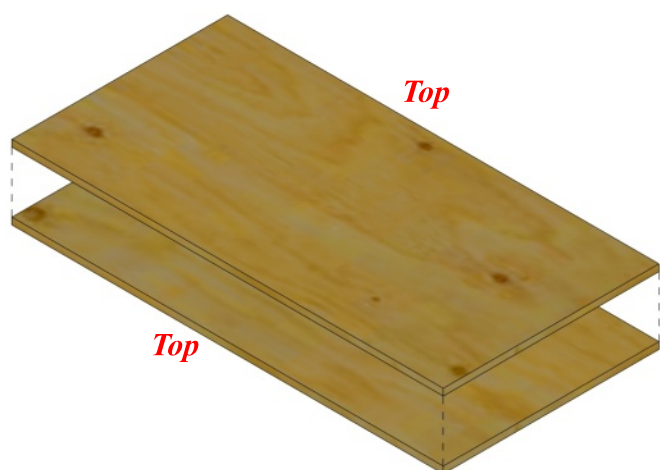
Stretcher (bottom)



Stretcher (bottom)



Position the **Stretchers** as shown at left and attach to the **Side Rails** using glue and 2 1/2-inch pocket hole screws.

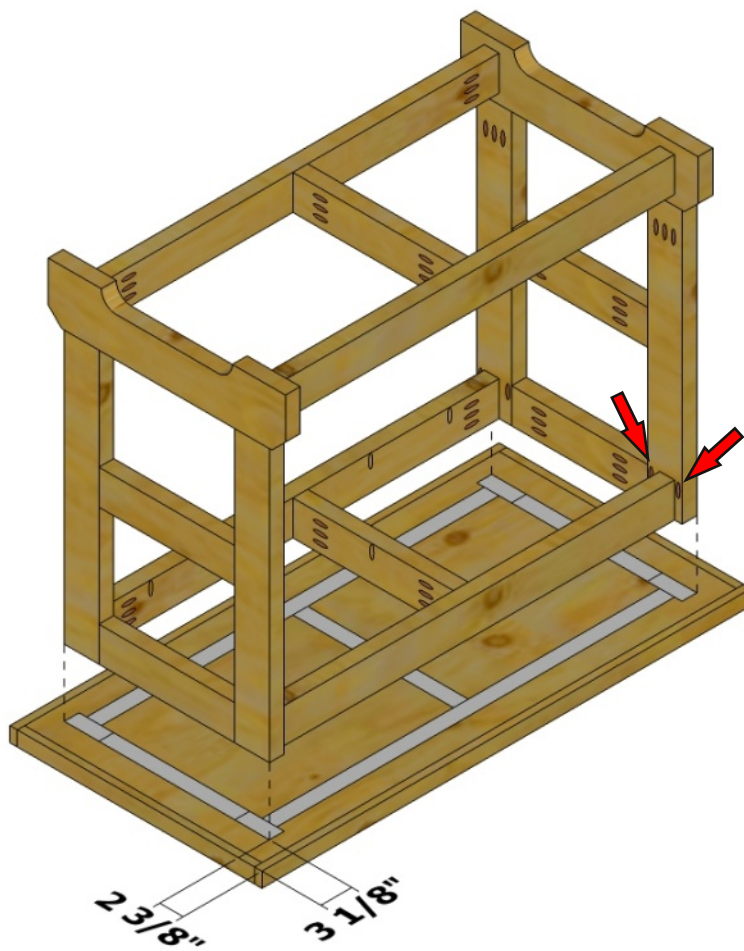


Apply glue to one face of each of the **Top** parts, position those faces against each other with the edges and ends flush, clamp in place (beginning at the center of each edge and end) and drive 1 1/4-inch brads through one face. Mark this face to be placed down. Allow the glue to set, then attach the **Top End Trim** and **Top Side Trim** to the **Top** using 1 1/2-inch brads. Cross nail (driving nails through the **Top Side Trim** and into the **Top End Trim**) at the corners.

NOTE

Place the **Top Assembly** on a work surface with the "down" side facing up. Position the **Base Assembly** as shown at right (notice the measurements at the corner) and attach using 2 1/2-inch pocket hole screws **ONLY** (this will allow you to replace the top later if needed).

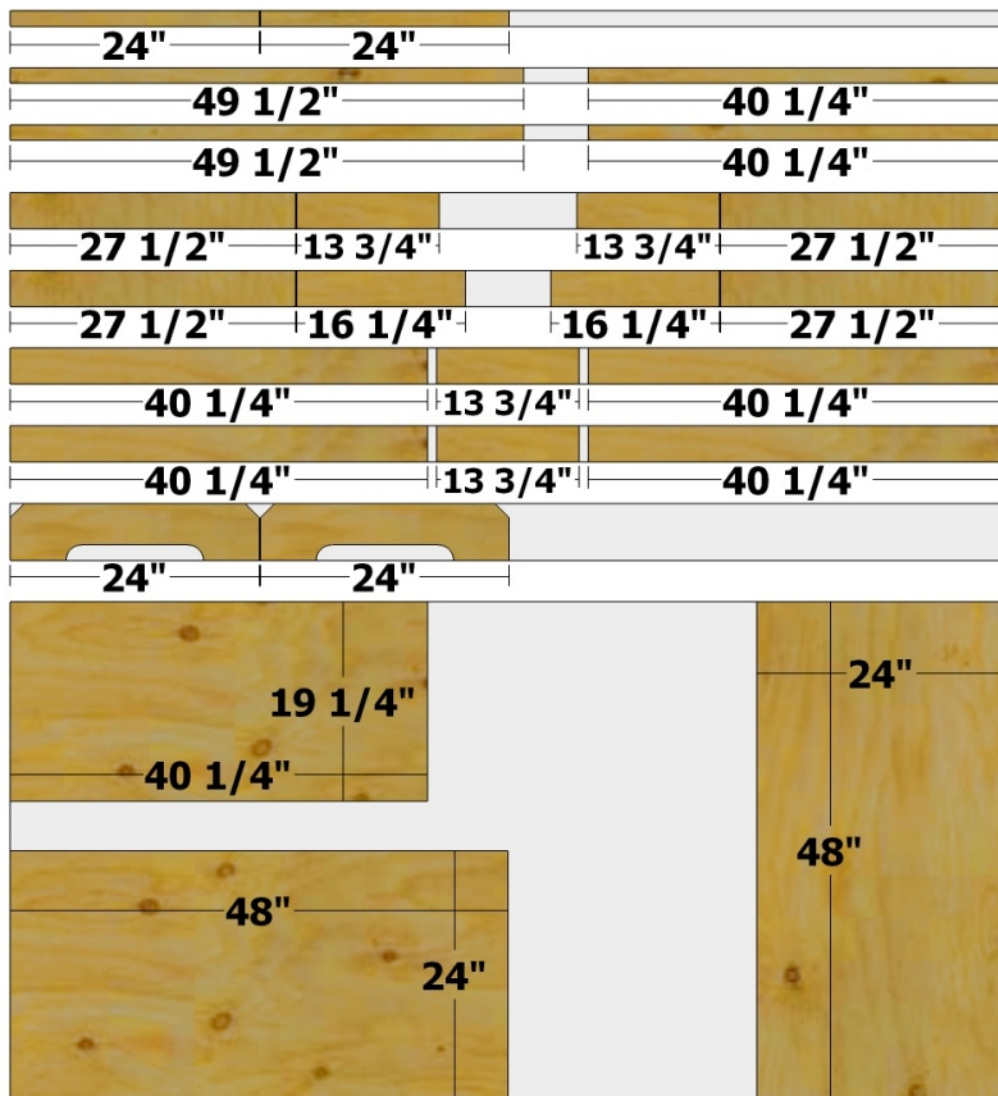
Drive the screws through the two pocket holes in the **Legs** (see red arrows) and into the **Top**, the **Stretcher** and into the **Top**, and the **Side Rails** and into the **Top**.



NOTE

Position the **Shelf** flush with the edges of the bottom **Side Rails** as shown above left, and attach to the **Side Rails** and **Stretcher** using glue and 1 1/2-inch brads. Position the **Shelf Trim** (one on each side of the **Shelf**) flush with the edge of the **Shelf** and attach to the **Shelf** and **Side Rails** using glue and 1 1/2-inch brads.

K CUTTING DIAGRAM



1 x 2 x 8

2 x 4 x 8

2 x 6 x 8

3/4 x 48 x 96

TAKE CARE!

Follow **ALL SAFETY GUIDELINES AND RECOMMENDATIONS** provided by the manufacturers of your tools, and any chemicals such as glue and finishes you use in this project. **YOU** are responsible for your safety, so use common sense when working in the shop!

PARTS

- Legs (4) - 1 1/2 x 3 1/2 x 27 1/2
- End Rails (4) - 1 1/2 x 3 1/2 x 13 3/4
- Feet (2) - 1 1/2 x 5 1/2 x 24
- Side Rails (4) - 1 1/2 x 3 1/2 x 40 1/4
- Stretchers (2) - 1 1/2 x 3 1/2 x 16 1/4
- Top (2) - 3/4 x 24 x 48
- Top End Trim (2) - 3/4 x 1 1/2 x 24
- Top Side Trim (2) - 3/4 x 1 1/2 x 49 1/2
- Shelf (1) - 3/4 x 19 1/4 x 40 1/4
- Shelf Trim (2) - 3/4 x 1 1/2 x 40 1/4

All parts are listed in actual dimensions. Refer to the Cutting Diagram on the last page of this plan as a guide for determining the specific board from which to cut the parts.

