

CHIEF'S SHOP PLAN OF THE WEEK

SIMPLE WOODWORKING: READING BENCH



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. Be sure to read ALL of the project steps before you start.

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 Parts Diagram page, which is the next to 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.



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WHAT YOU'LL NEED



LUMBER

- 1 - 1 x 3 x 4
- 1 - 1 x 6 x 2
- 2 - 2 x 4 x 8
- 3 - 2 x 12 x 8
- 1 - 1/4 x 2 x 2 sheet of plywood
- 1 - 3/4 x 2 x 4 sheet of plywood

(availability will vary)

HARDWARE/SUPPLIES

- 2 1/2" pocket hole screws
- 2 1/2" wood screws
- 1 1/2" brads
- 1 1/4" pocket hole screws
- 3/4" brads
- wood glue

TOOLS

- table saw
- miter saw
- jig saw
- pneumatic nailer/hammer
- drill/driver
- Kreg Pocket Hole Jig
- clamps
- square
- compass



PARTS

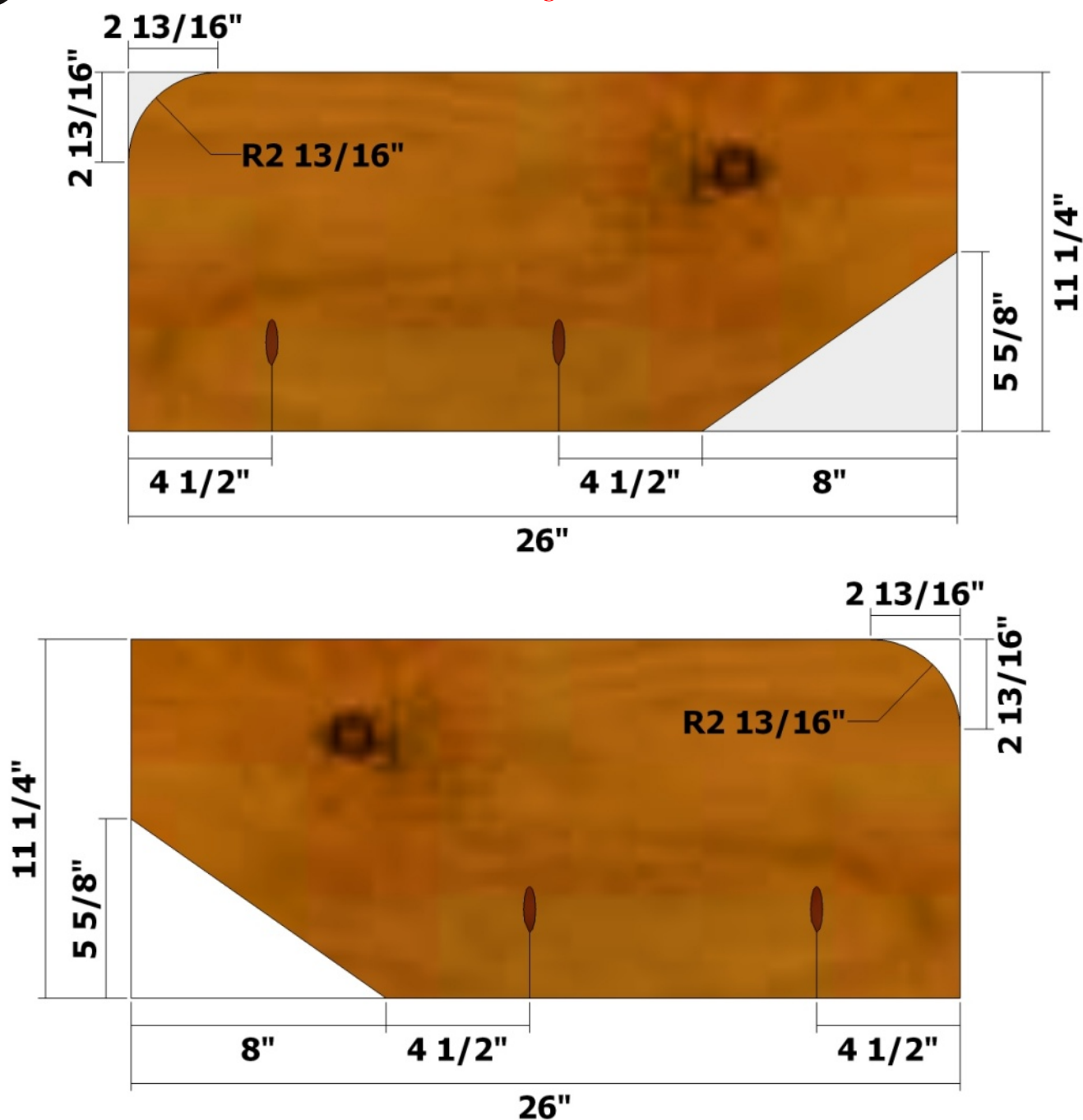


- Short Legs (2) - 1 1/2 x 11 1/4 x 26
- Long Legs (2) - 1 1/2 x 11 1/4 x 36
- Rails (2) - 1 1/2 x 3 1/2 x 48
- Stretcher (1) - 1 1/2 x 3 1/2 x 18
- Seats (2) - 1 1/2 x 11 1/4 x 48
- Back Supports (3) - 1 1/2 x 3 1/2 x 17
- Back Rails (2) - 3/4 x 2 1/2 x 21 3/4
- Back (1) - 3/4 x 20 3/16 x 48
- Shelf Brackets (2) - 3/4 x 4 x 8
- Shelf Bottom (1) - 3/4 x 3/4 x 16 1/2
- Shelf Face (1) - 1/4 x 8 x 18

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.

LAYOUT

Short Legs



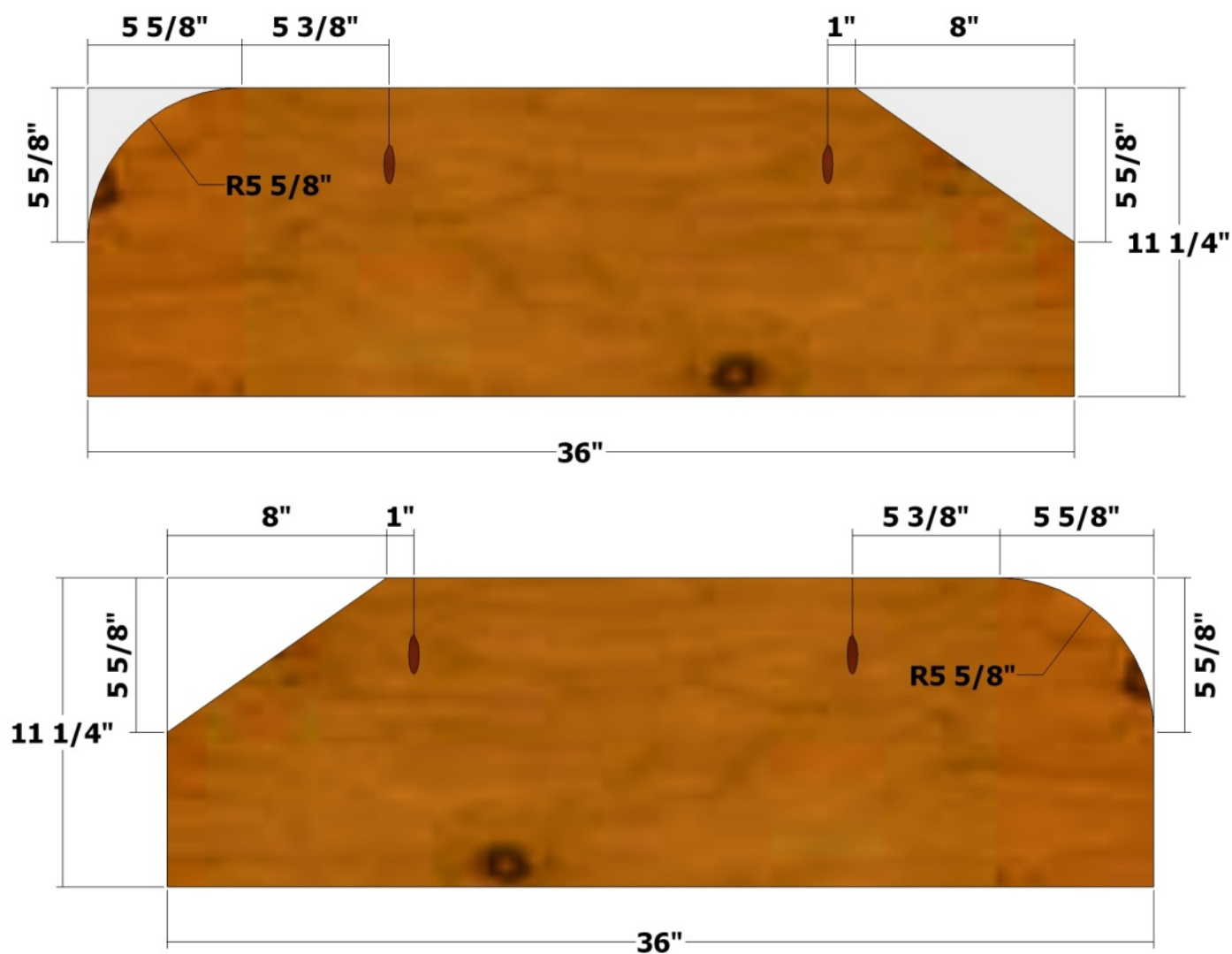
NOTE

Use the layouts as guides for measuring, marking, cutting and drilling pocket holes in the **Short Legs**. Create one of each.

Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock.

LAYOUT

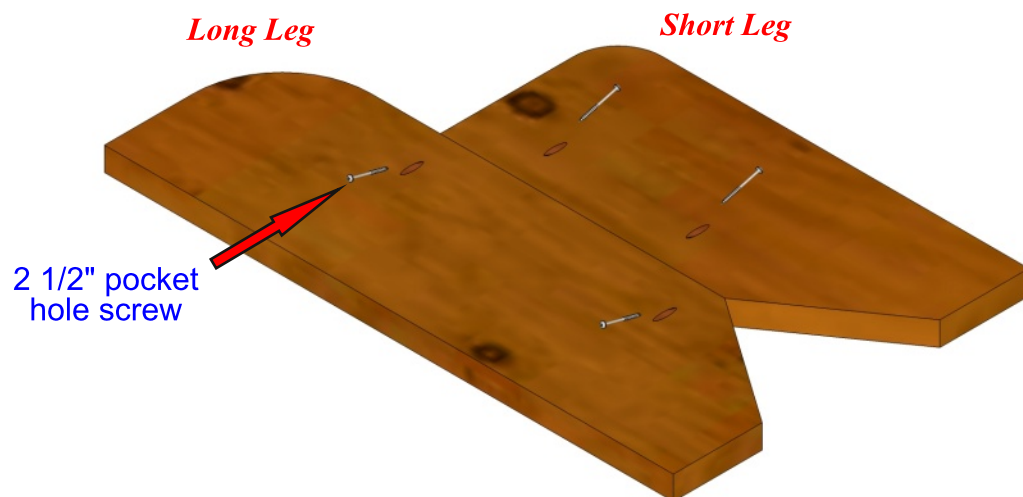
Long Legs



NOTE

Use the layouts as guides for measuring, marking, cutting and drilling pocket holes in the **Short Legs**. Create one of each.

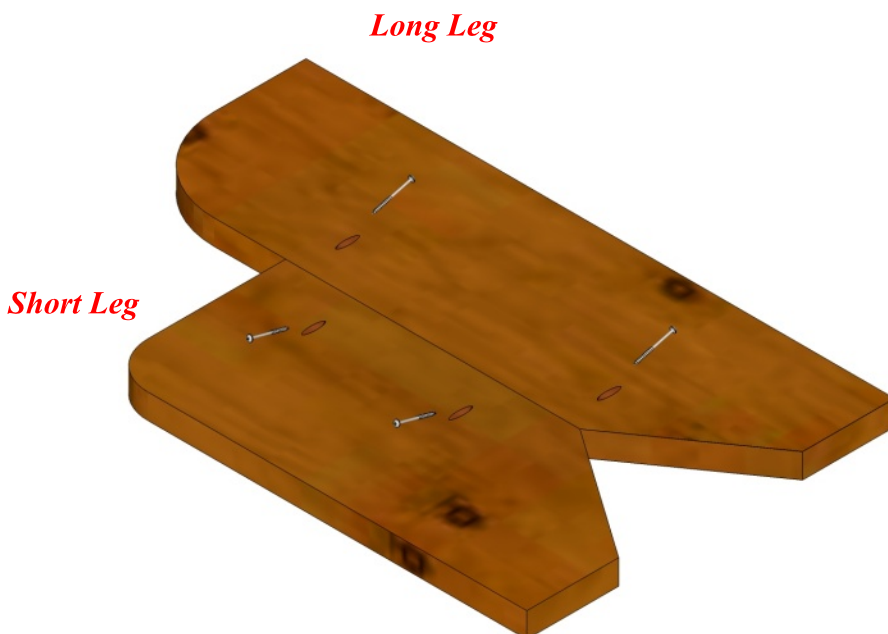
Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock.



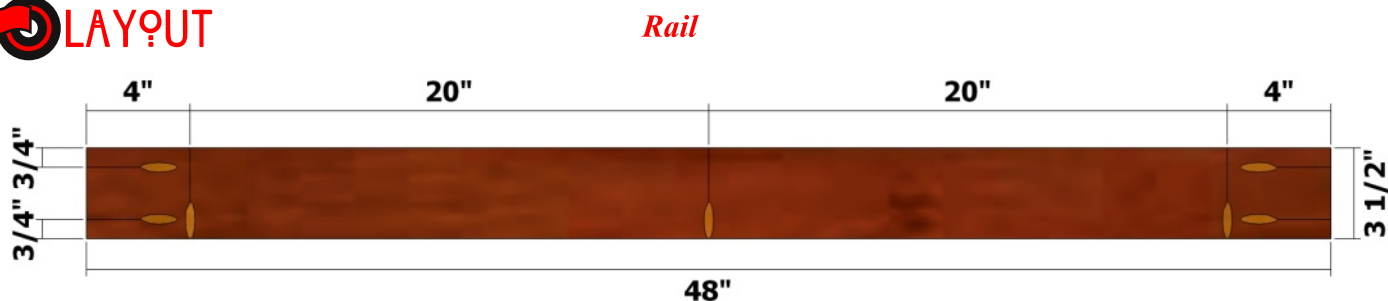
NOTE

Position the **Long Legs** and **Short Legs** as shown, and attach using glue and 2 1/2-inch pocket hole screws.

Make sure that the bottom of the **Legs** are flush with each other. before attaching.



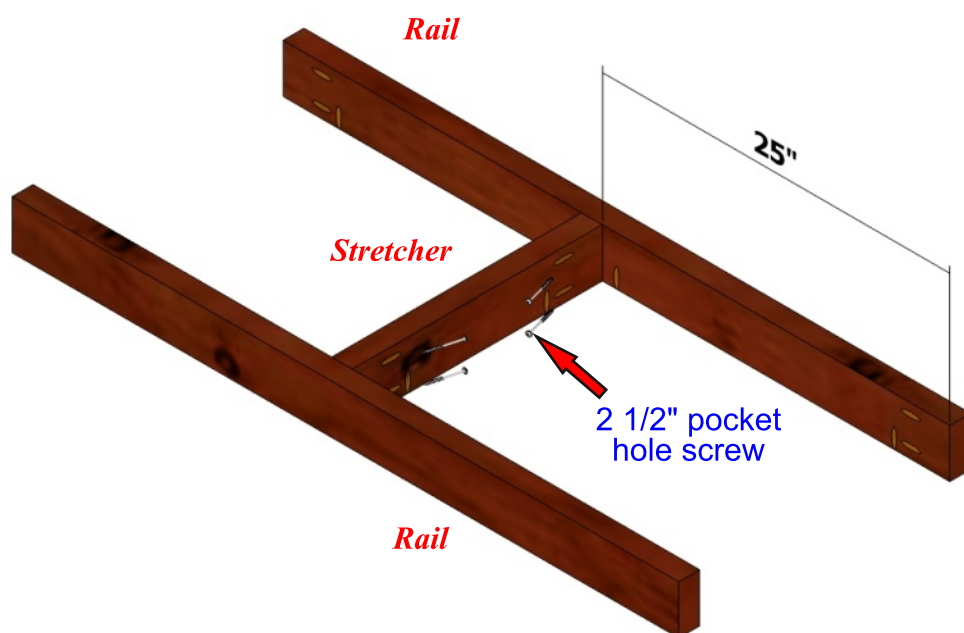
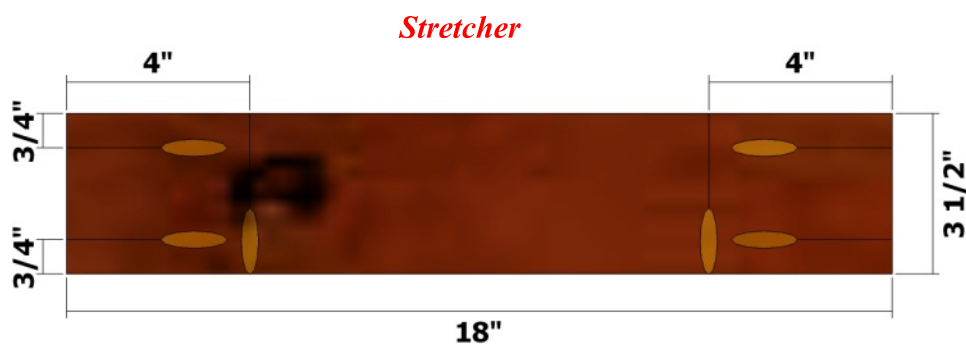
LAYOUT



NOTE

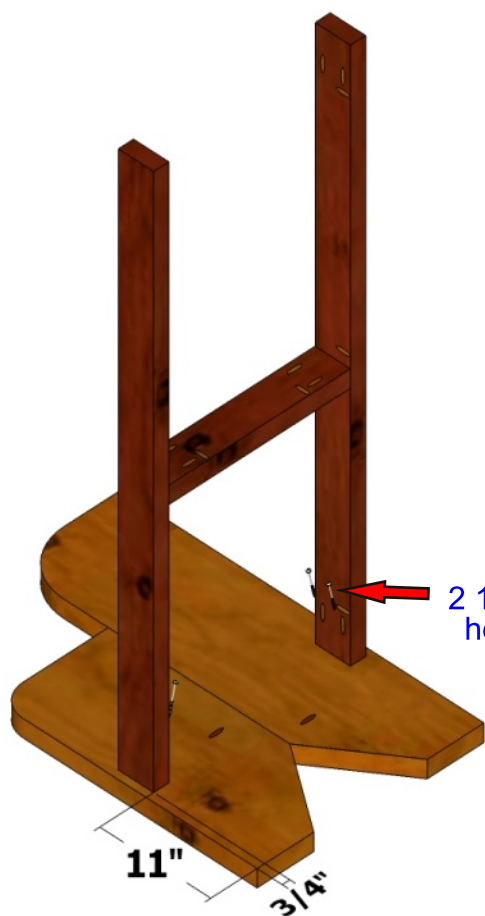
Use the layouts as guides for measuring, marking, cutting, and drilling pocket holes in the **Rails** and **Stretcher**.

Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock.



NOTE

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



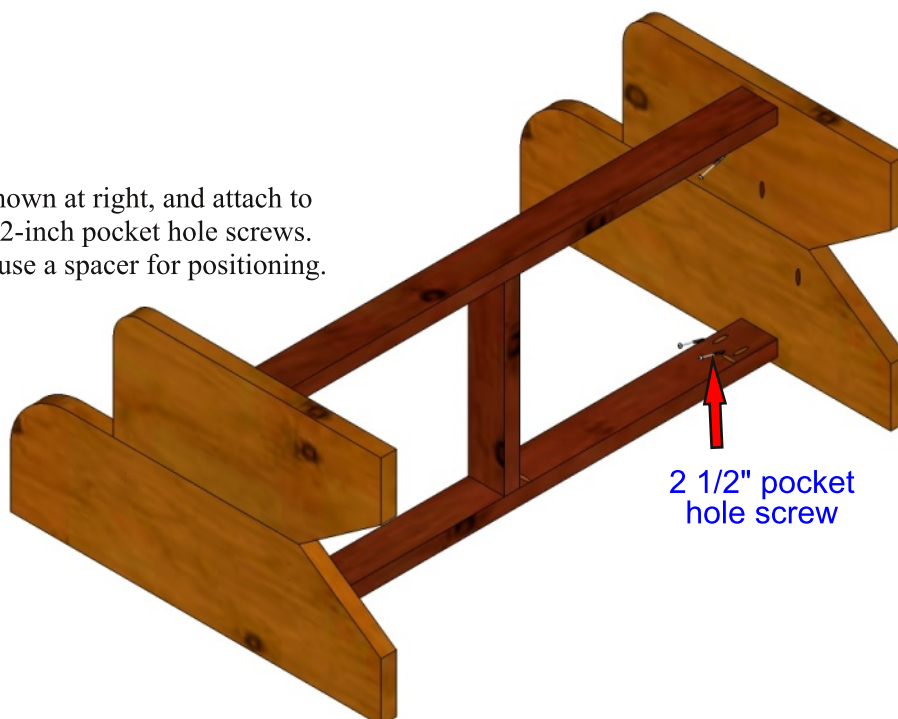
NOTE

Position the **Rail/Stile Assembly** as shown at left, and attach to the **Leg Assembly** using glue and 2 1/2-inch pocket hole screws. Clamp the assemblies in place using a right angle clamp when driving the screws.

2 1/2" pocket
hole screw

NOTE

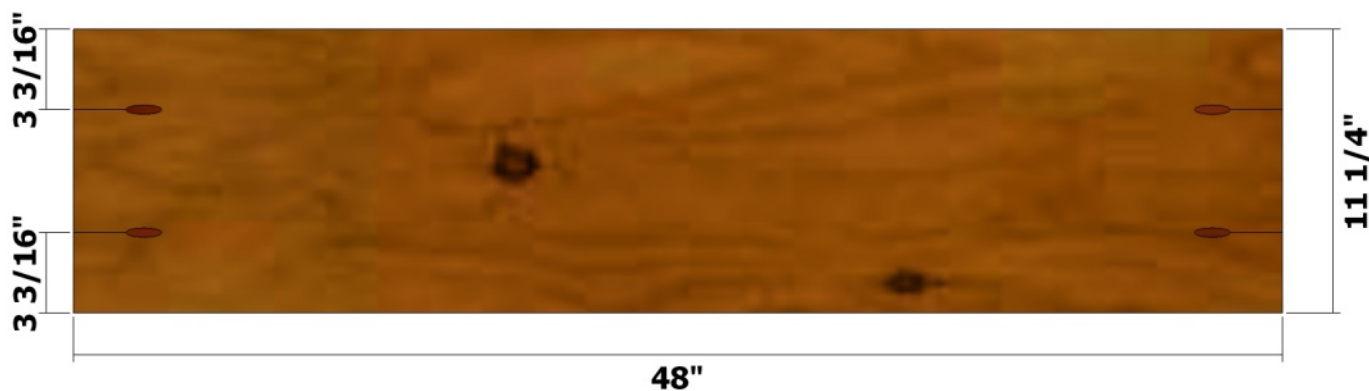
Position the **Rail/Stile Assembly** as shown at right, and attach to the **Leg Assembly** using glue and 2 1/2-inch pocket hole screws. Clamp the assemblies in place and/or use a spacer for positioning.



2 1/2" pocket
hole screw

LAYOUT

Seat

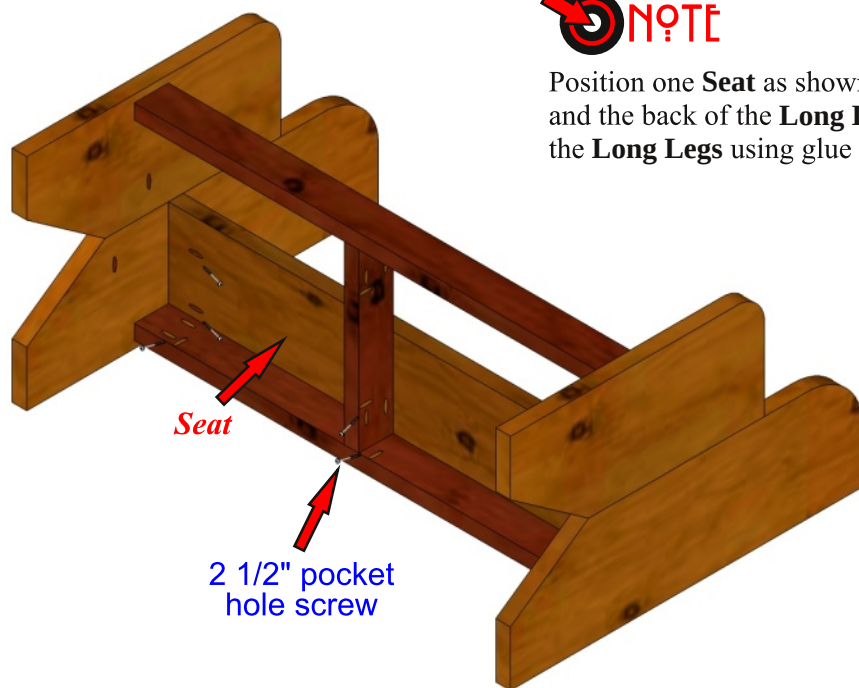


NOTE

Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Seats**. Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock.

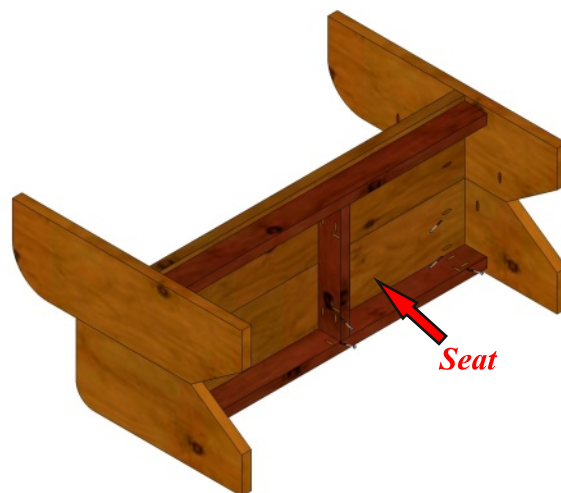
NOTE

Position one **Seat** as shown at left (flush against the **Rail/Stile Assembly** and the back of the **Long Legs**). Attach to the **Rail/Stile Assembly** and the **Long Legs** using glue and 2 1/2-inch pocket hole screws.



NOTE

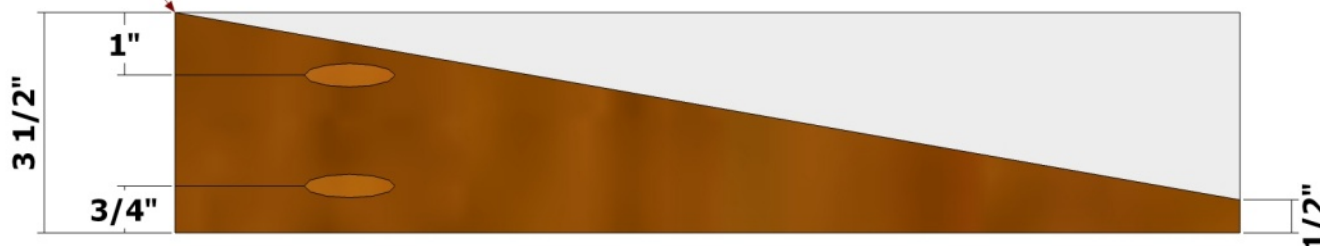
Position the remaining **Seat** as shown at right (flush against the **Rail/Stile Assembly** and the front of the **Short Legs**), and attach to the **Rail/Stile Assembly** and the **Short Legs** using glue and 2 1/2-inch pocket hole screws.



LAYOUT

10 degrees

Back Support



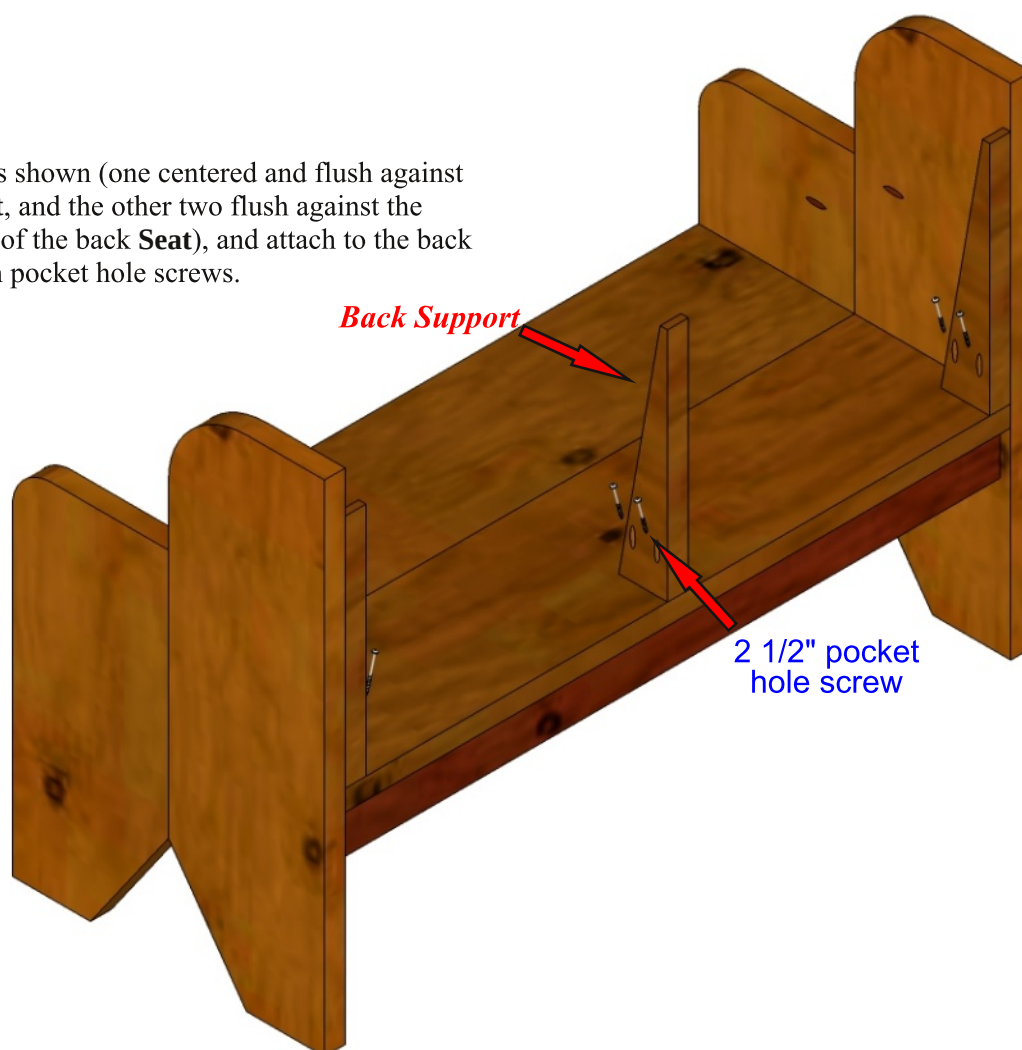
NOTE

Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Back Supports**.

Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock.

NOTE

Position the **Back Supports** as shown (one centered and flush against the back edge of the back **Seat**, and the other two flush against the **Long Legs** and the back edge of the back **Seat**), and attach to the back **Seat** using glue and 2 1/2-inch pocket hole screws.



LAYOUT



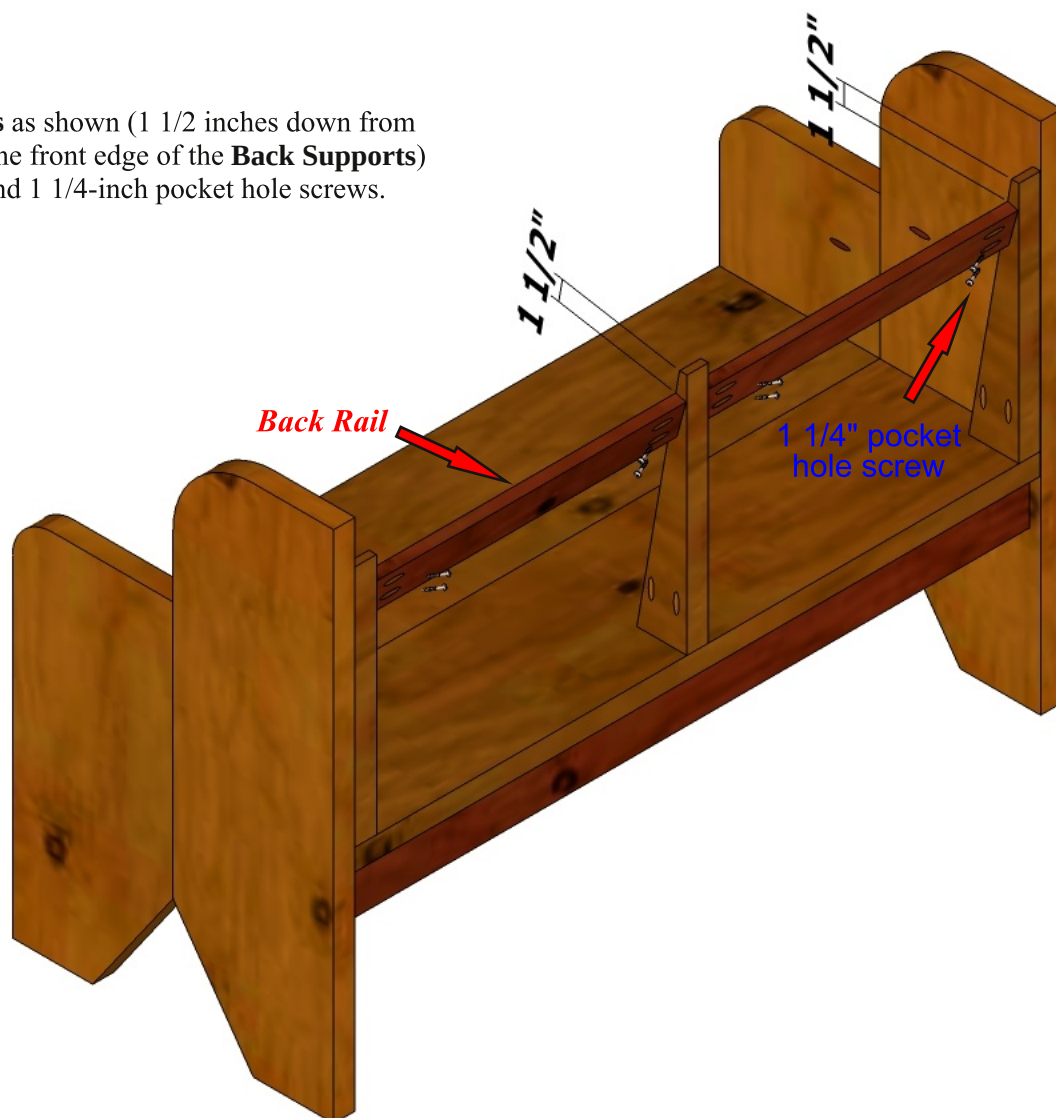
NOTE

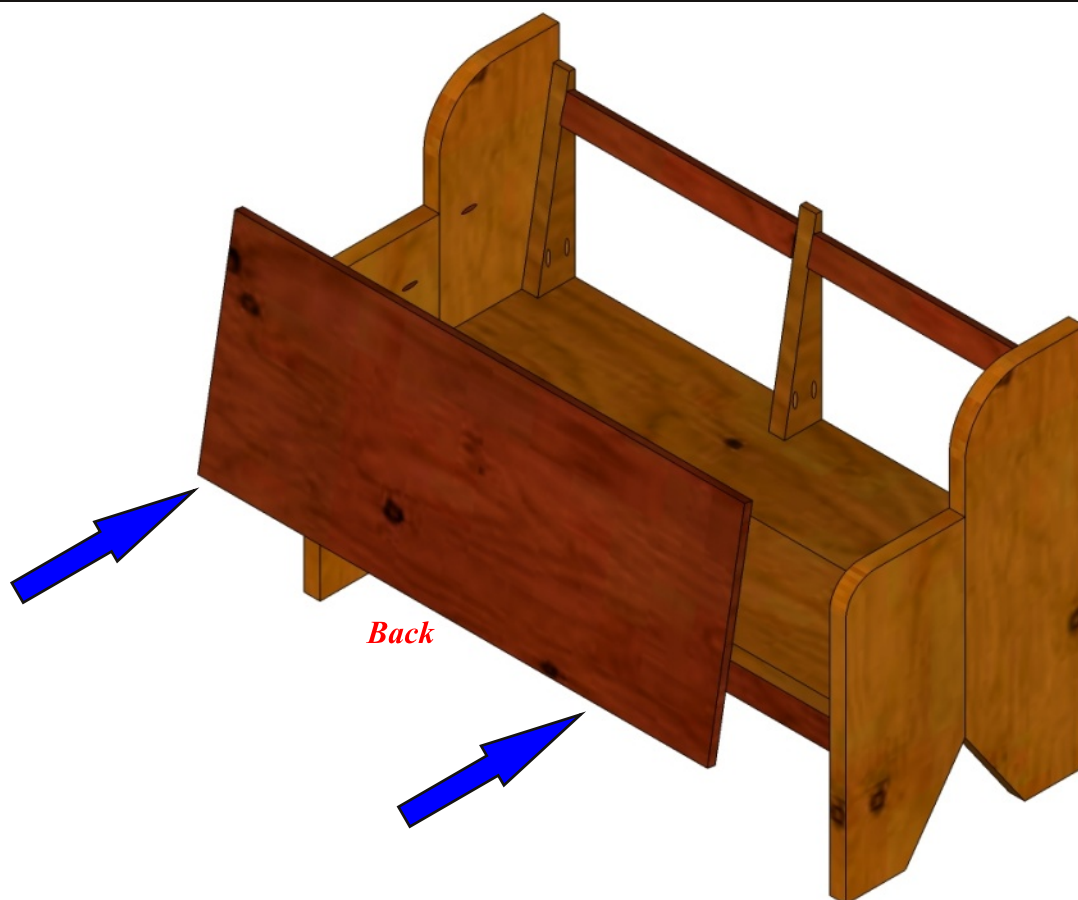
Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Back Rails**.

Be sure to set your pocket hole jig and drill bit for $\frac{3}{4}$ -inch stock.

NOTE

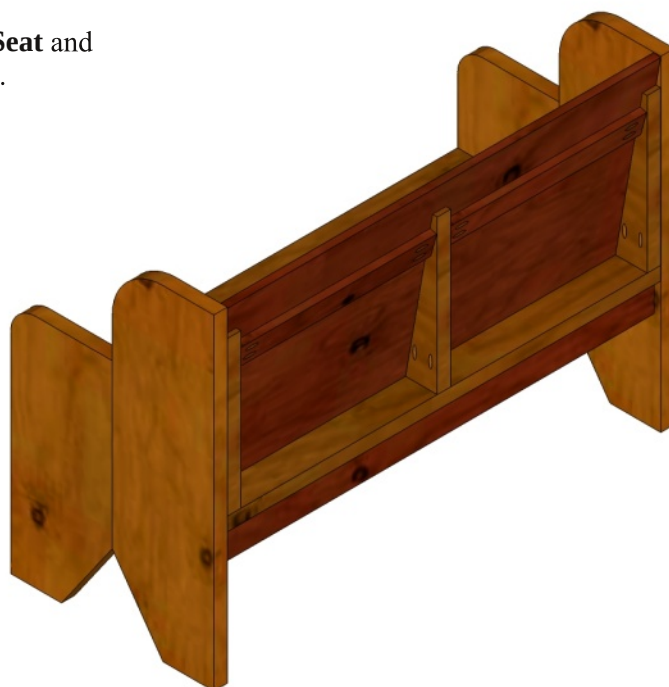
Position the **Back Rails** as shown ($1 \frac{1}{2}$ inches down from the top and flush with the front edge of the **Back Supports**) and attach using glue and $1 \frac{1}{4}$ -inch pocket hole screws.



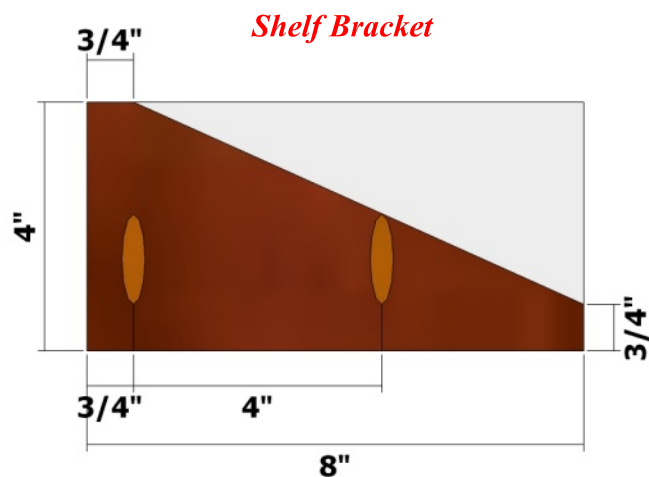


 NOTE

Position the **Back** flush against the **Back Supports** and the **Seat** and attach to the **Back Supports** using glue and 1 1/2-inch brads.



LAYOUT

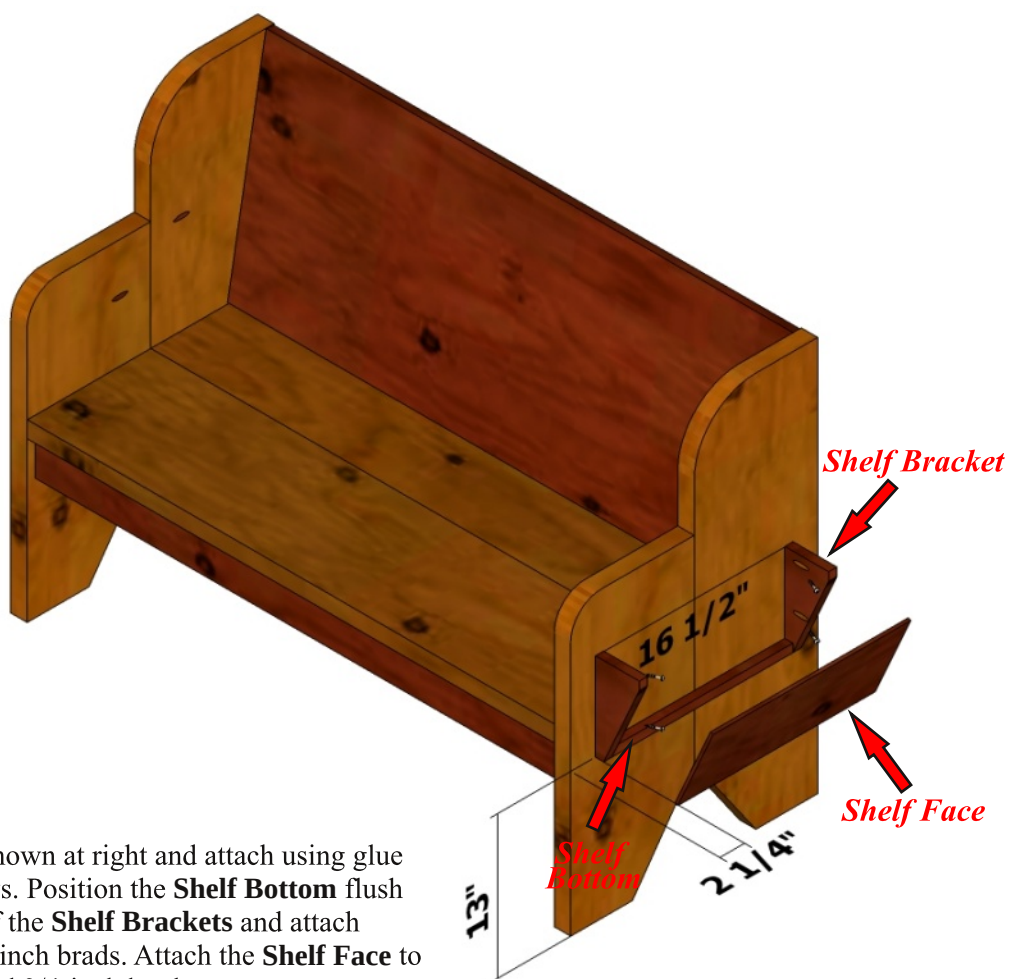


NOTE

Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Shelf Bracket**.

Be sure to set your pocket hole jig and drill bit for 3/4-inch stock.

Rip the **Shelf Bottom** from the 1 x 6 **BEFORE** ripping the the stock for the **Shelf Brackets**.

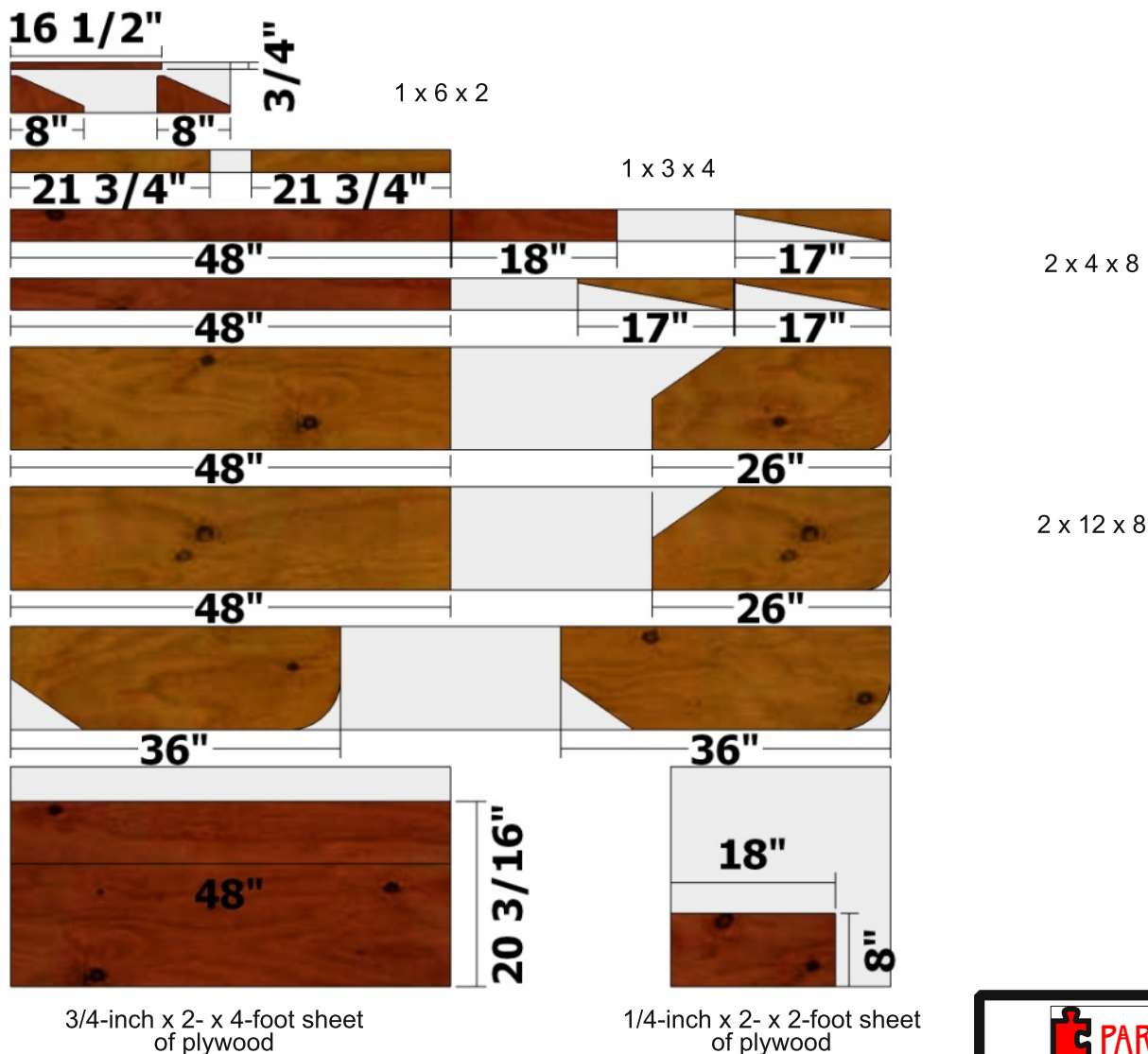


NOTE

Position the **Shelf Brackets** as shown at right and attach using glue and 1 1/4-inch pocket hole screws. Position the **Shelf Bottom** flush against the inside bottom edge of the **Shelf Brackets** and attach to the **Legs** using glue and 1 1/2-inch brads. Attach the **Shelf Face** to the **Shelf Brackets** using glue and 3/4-inch brads.



CUTTING DIAGRAM



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!



Short Legs (2) - 1 1/2 x 11 1/4 x 26
Long Legs (2) - 1 1/2 x 11 1/4 x 36
Rails (2) - 1 1/2 x 3 1/2 x 48
Stretcher (1) - 1 1/2 x 3 1/2 x 18
Seats (2) - 1 1/2 x 11 1/4 x 48
Back Supports (3) - 1 1/2 x 3 1/2 x 17
Back Rails (2) - 3/4 x 2 1/2 x 21 3/4
Back (1) - 3/4 x 20 3/16 x 48
Shelf Brackets (2) - 3/4 x 4 x 8
Shelf Bottom (1) - 3/4 x 3/4 x 16 1/2
Shelf Face (1) - 1/4 x 8 x 18

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