

CHIEF'S SHOP PLAN OF THE WEEK



SIMPLE WOODWORKING: 2X4 BENCH



WHAT YOU'LL NEED



LUMBER

5 - 2 x 4 x 8

(availability will vary)

HARDWARE/SUPPLIES

2 1/2" pocket hole screws

wood glue

paint/stain/polyurethane

TOOLS

miter saw

drill/driver

power sander

Kreg pocket hole jig

& drill bit

clamps

square

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.

PARTS

End Rails (2) - 1 1/2 x 3 1/2 x 15

Side Rails (2) - 1 1/2 x 3 1/2 x 40 1/2

Stretcher (1) - 1 1/2 x 3 1/2 x 12

Legs (4) - 1 1/2 x 3 1/2 x 14

Seat Slats (5) - 1 1/2 x 3 1/2 x 47 1/2

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.

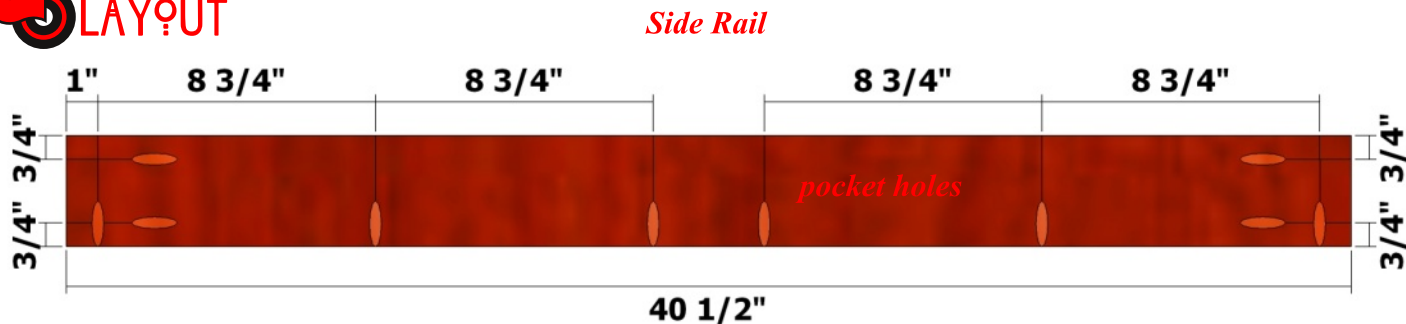


MORE PLANS

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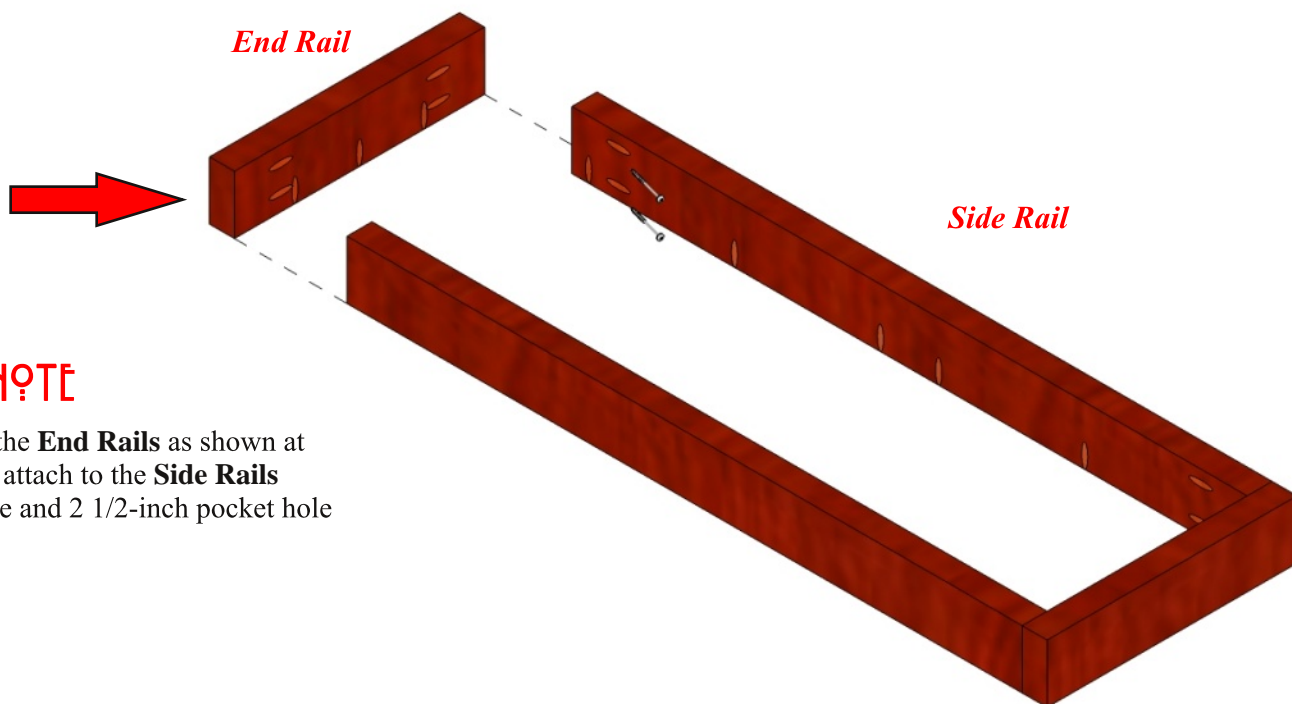
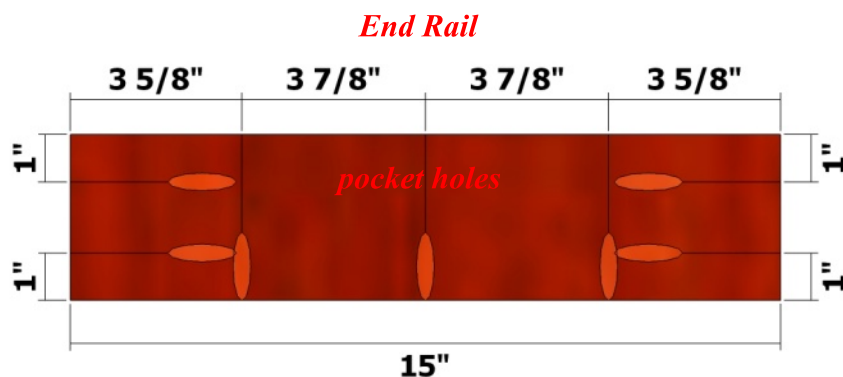
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LAYOUT



NOTE

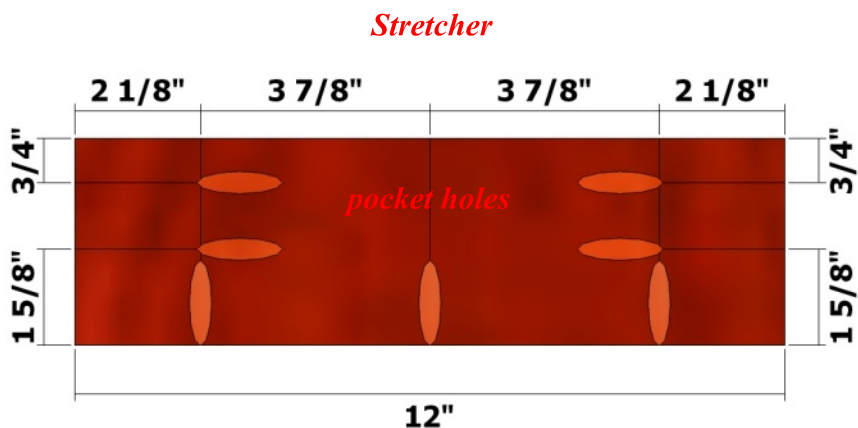
Use the layouts as guides for measuring, marking, cutting, and drilling pocket holes in the **Side Rails** and **End Rails**. Set your pocket hole jig and drill bit for 1 1/2-inch stock.



NOTE

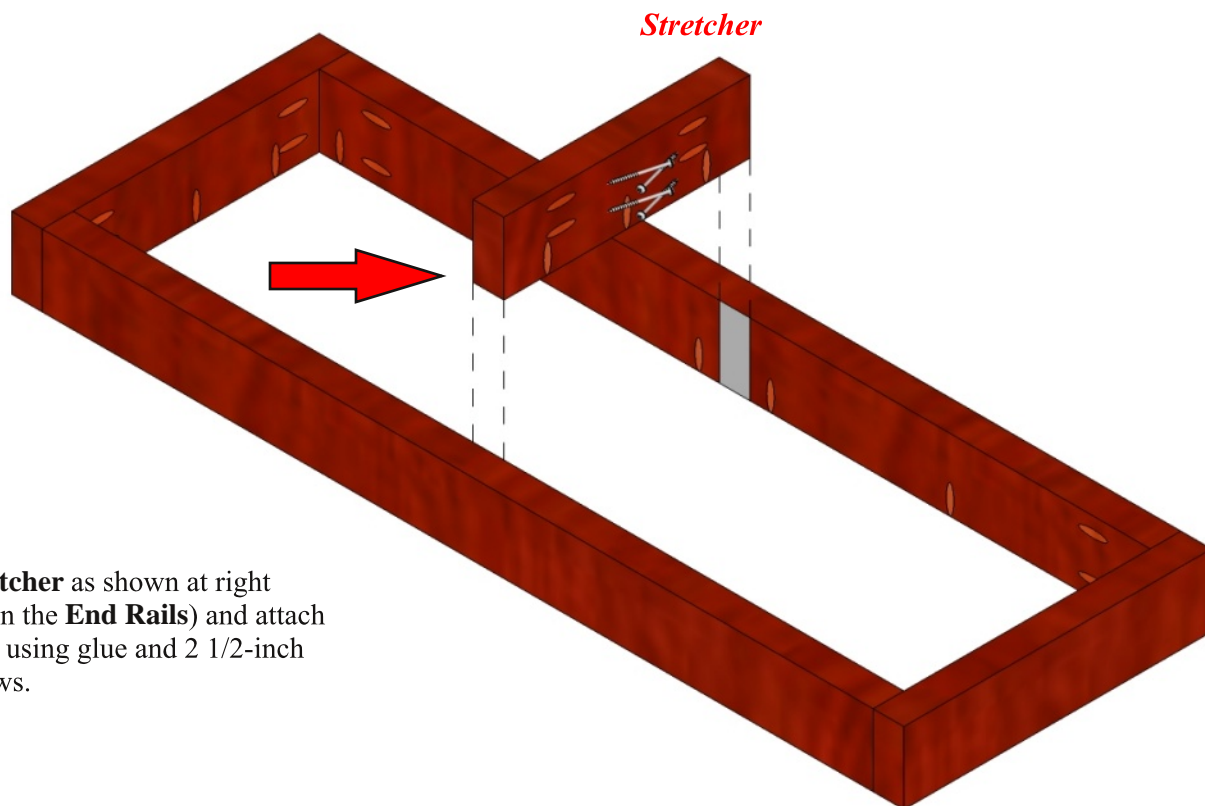
Position the **End Rails** as shown at right and attach to the **Side Rails** using glue and 2 1/2-inch pocket hole screws.

LAYOUT



NOTE

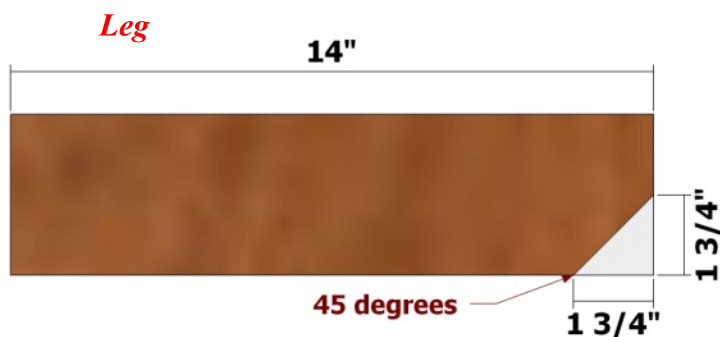
Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Stretcher**. Set your pocket hole jig and drill bit for 1 1/2-inch stock.




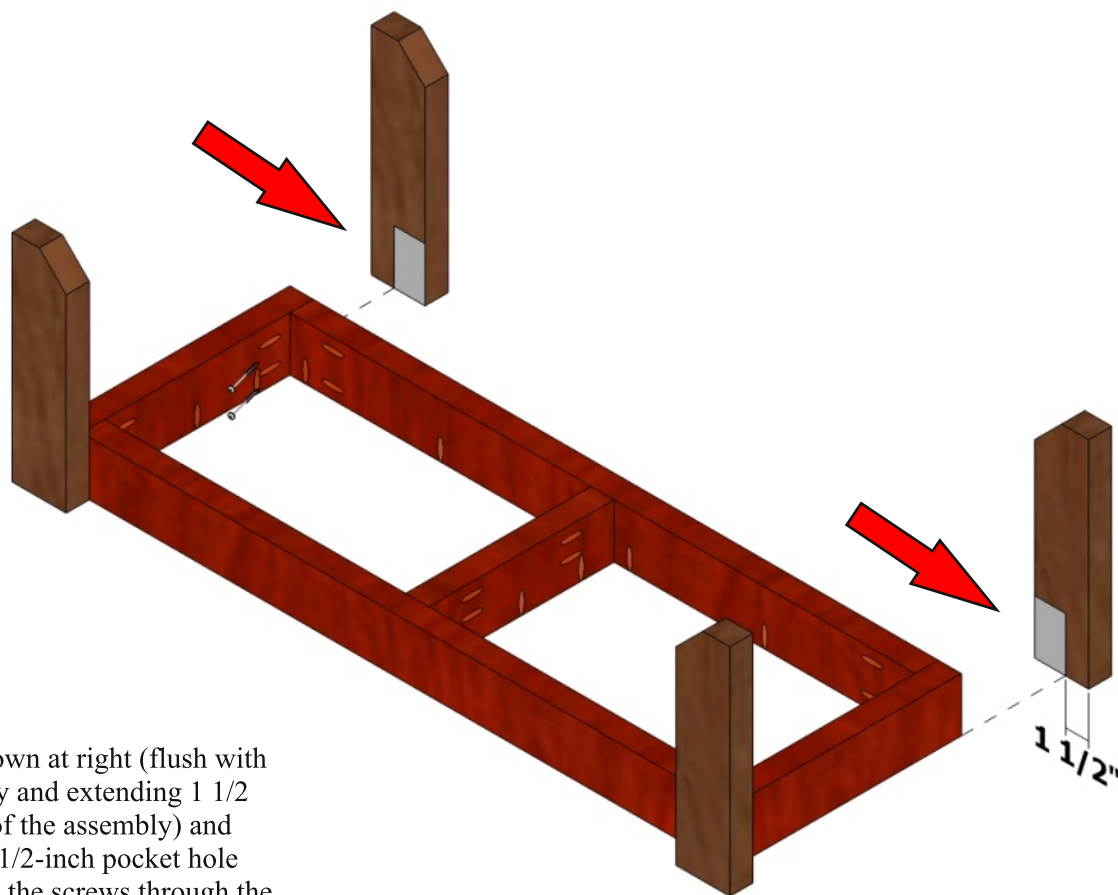
NOTE

Position the **Stretcher** as shown at right (centered between the **End Rails**) and attach to the **Side Rails** using glue and 2 1/2-inch pocket hole screws.

 LAYOUT

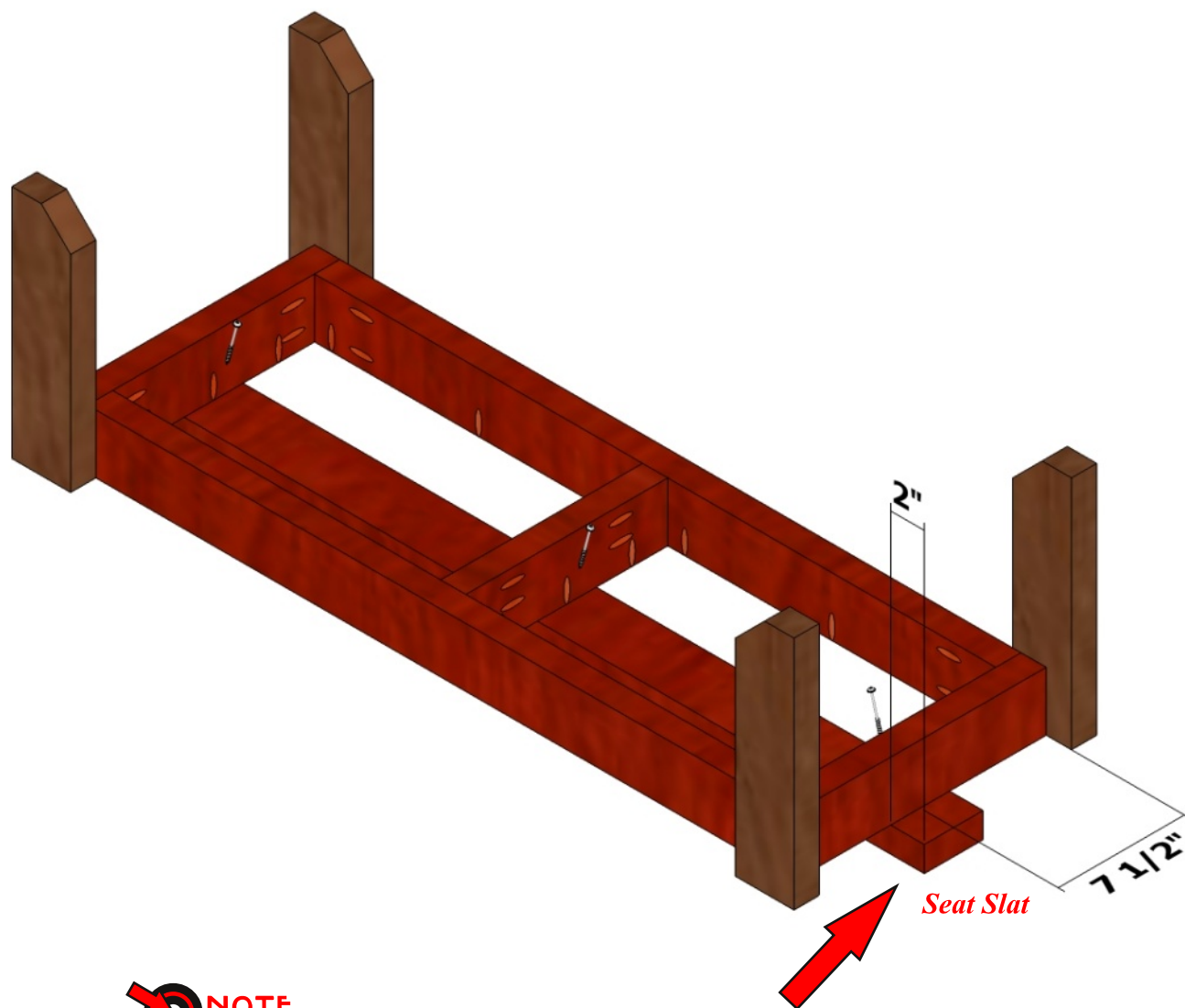


 **NOTE** Use the layout as a guide for measuring, marking, and cutting the **Legs**.



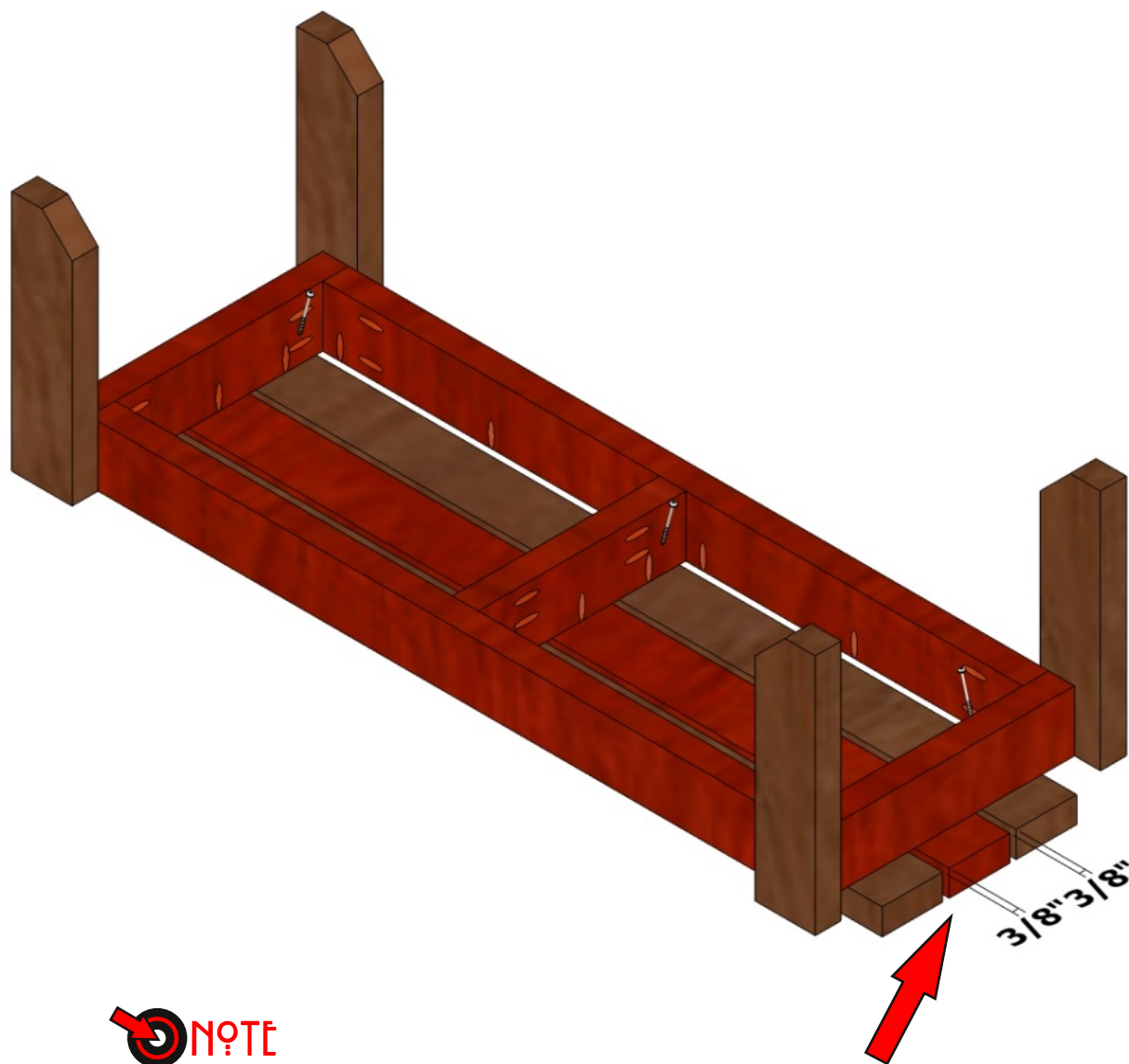
 **NOTE**

Position the **Legs** as shown at right (flush with the edge of the assembly and extending 1 1/2 inches beyond the end of the assembly) and attach using glue and 2 1/2-inch pocket hole screws. Be sure to drive the screws through the holes in the **End Rails** and into the **Legs**.



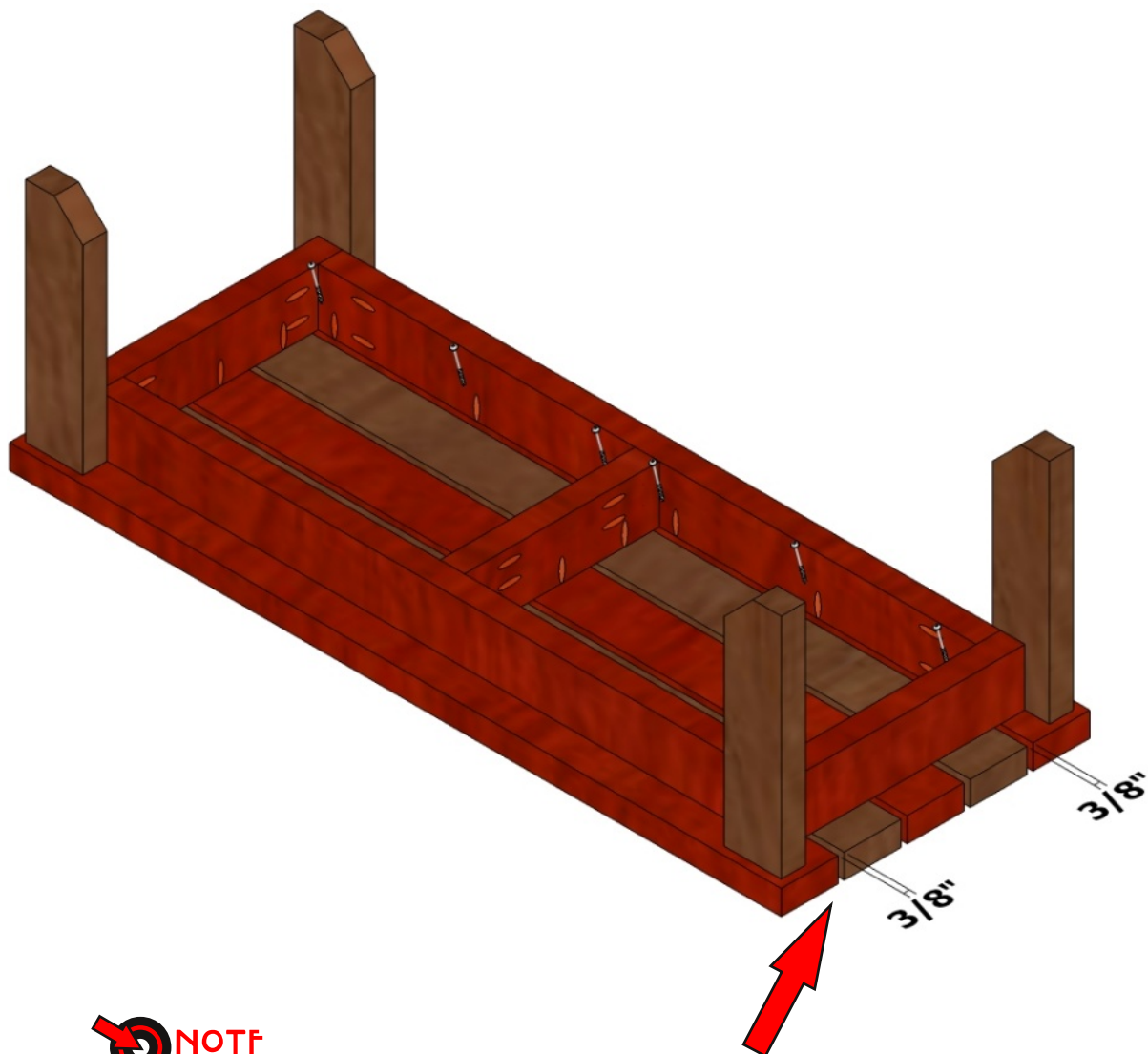
 **NOTE**

Position one **Seat Slat** as shown above (centered on the **End Rails** and extending 2 inches beyond the outer face of the **End Rails**) and attach to the **End Rails** and **Stretcher** using glue and 2 1/2-inch pocket hole screws.



 **NOTE**

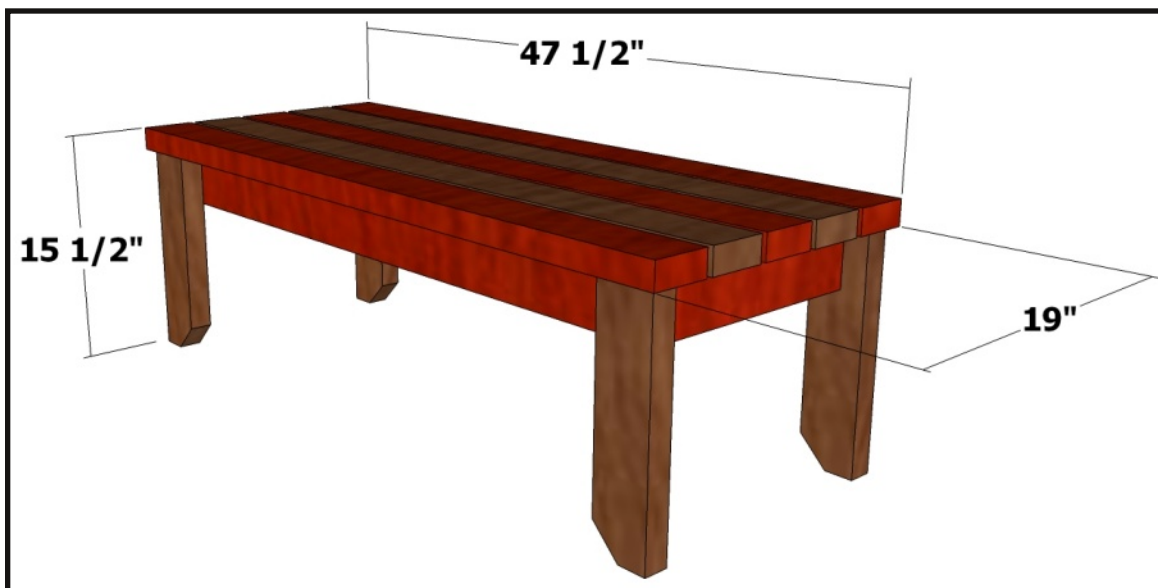
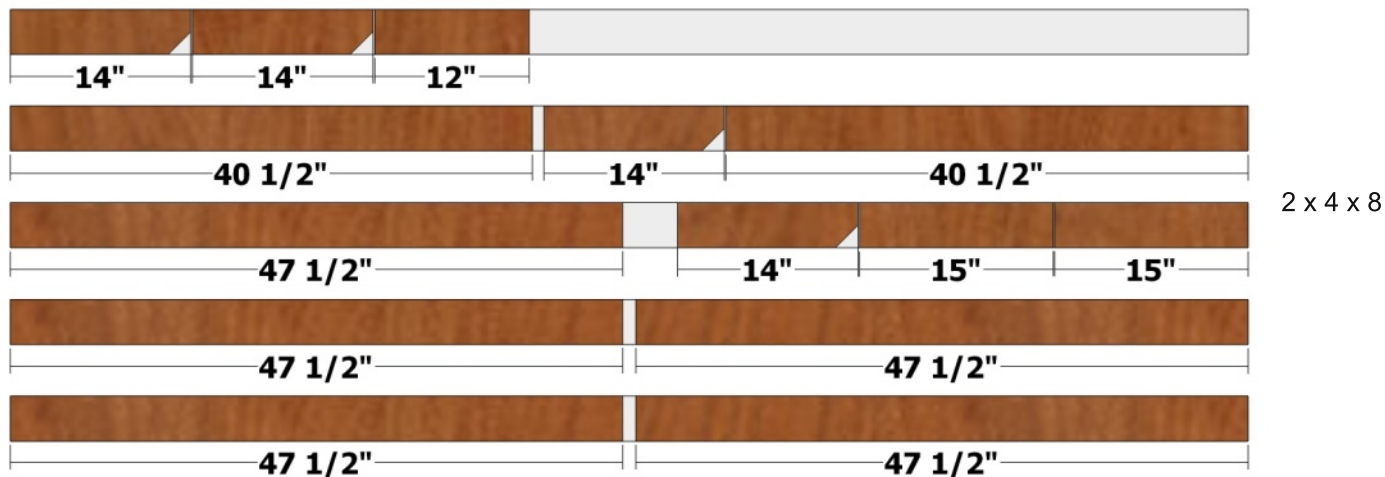
Position two **Seat Slats** as shown above (flush with the ends of the first **Seat Slat** and 3/8 inch apart) and attach to the **End Rails** and **Stretcher** using glue and 2 1/2-inch pocket hole screws.



 **NOTE**

Position the two remaining **Seat Slats** as shown above (flush with the ends of the other **Seat Slats** and 3/8 inch apart) and attach to the **Side Rails** and **Stretcher** using glue and 2 1/2-inch pocket hole screws.

K 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!

PARTS

End Rails (2) - 1 1/2 x 3 1/2 x 15
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 Stretcher (1) - 1 1/2 x 3 1/2 x 12
 Legs (4) - 1 1/2 x 3 1/2 x 14
 Seat Slats (5) - 1 1/2 x 3 1/2 x 47 1/2

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.