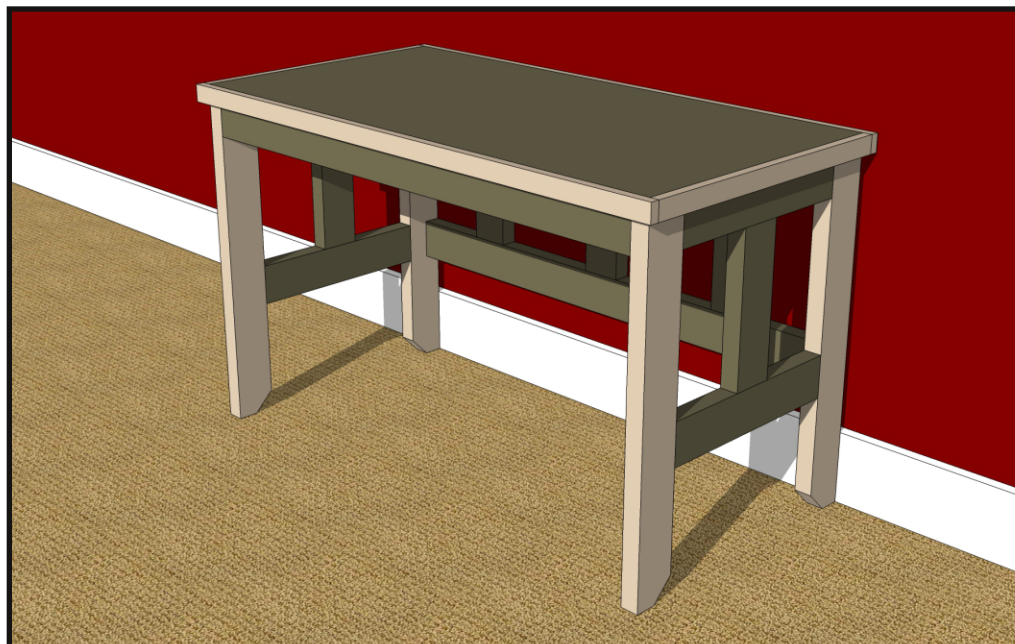


# CHIEF'S SHOP PLAN OF THE WEEK



## SIMPLE 2X4 DESK



### WHAT YOU'LL NEED



#### LUMBER

2 - 1 x 2 x 8  
5 - 2 x 4 x 8  
1 - 3/4 x 24 x 48-inch  
sheet of plywood  
(availability will vary)

#### HARDWARE/SUPPLIES

1 1/4" pocket hole screws  
2 1/2" pocket hole screws  
wood glue  
paint, stain, polyurethane,  
or sealer

#### TOOLS

miter saw  
sander/belt sander  
drill/driver  
Kreg Pocket Hole Jig  
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. 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 Cutting Diagram page, which is the next to last page of this plan document. Also on the Cutting Diagram page is an estimate of the cost of the lumber. This estimate doesn't include any other supplies and does not factor in sales tax.

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.



#### MORE PLANS

Want more Chief's Shop plans? Visit [chiefs-shop.com](http://chiefs-shop.com) and look through the Plans section.  
Be sure to "Like" Chief's Shop on facebook by heading over to [facebook.com/ChiefsShop](https://www.facebook.com/ChiefsShop).

### PARTS

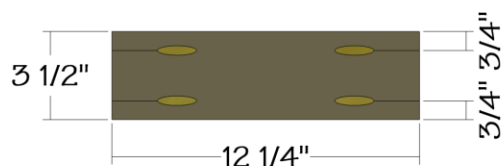
stiles (5) - 1-1/2 x 3-1/2 x 12 1/4  
top end rails (2) - 1-1/2 x 3-1/2 x 17  
bottom end rails (2) - 1-1/2 x 3-1/2 x 17  
legs (4) - 1-1/2 x 3-1/2 x 29 1/4  
stretcher - 1-1/2 x 3-1/2 x 21  
front rail - 1-1/2 x 3-1/2 x 45  
top back rail - 1-1/2 x 3-1/2 x 45  
top - 3/4 x 24 x 48  
top end trim (2) - 3/4 x 1-1/2 x 24  
top long trim (2) - 3/4 x 1-1/2 x 49 1/2  
bottom back rail - 1-1/2 x 3-1/2 x 45

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.

### VIDEO?

Check out Chief's Shop Videos on YouTube. ([click here](#))

stile



top end rail

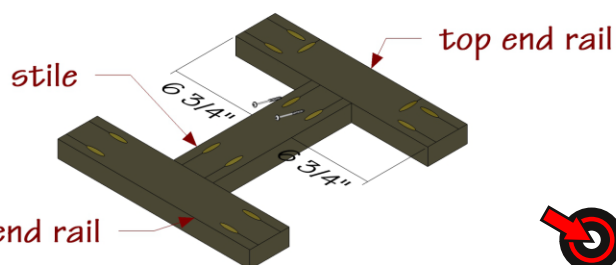


bottom end rail



## NOTE

Use the layouts to create the stiles, top end rails and bottom end rail. **Set your pocket hole jig and drill bit for 1-1/2" stock** for drilling the pocket holes on the ends and **3/4" stock for the vertical holes on the top end rails**. Create five stiles and two each of the top end rails and bottom end rails.

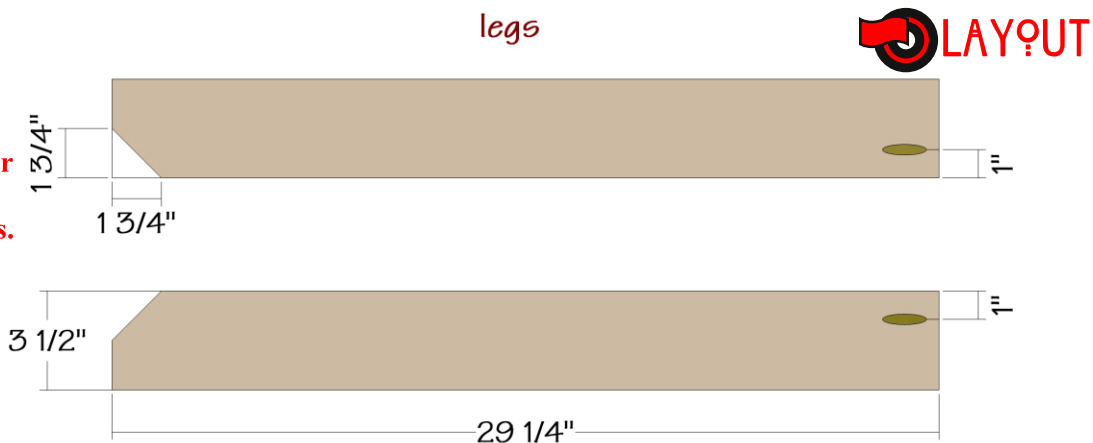


## NOTE

Position the parts as shown and attach using 2-1/2" pocket hole screws. Create four assemblies.

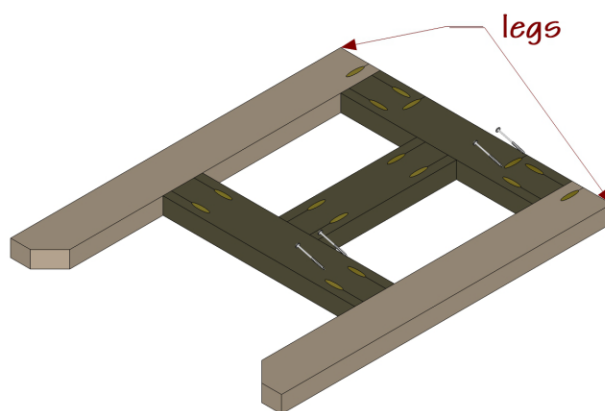
## NOTE

Use the layout to create the legs. The angle of the cut is 45 degrees. **Set your pocket hole jig for 3/4" stock for the pocket holes.** Create two of each.

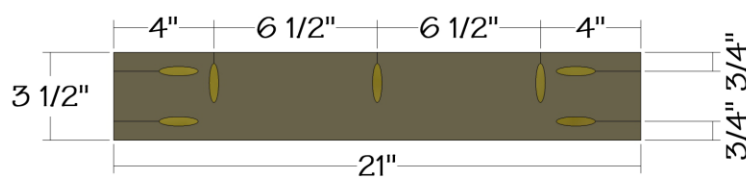


## NOTE

Position the parts as shown and attach using 2-1/2" pocket hole screws. Create two assemblies.



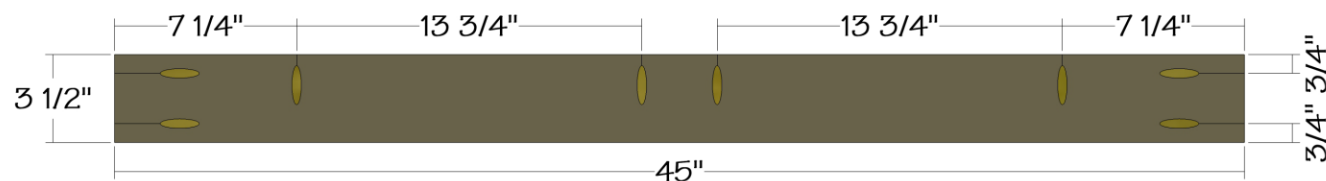
stretcher



front rail/top back rail

## NOTE

Use the layouts to create the stretcher, front rail, top back rail and bottom back rail. **Set your pocket hole jig and drill bit for 1-1/2" stock for drilling the pocket holes on the ends and 3/4" stock for the vertical holes.**

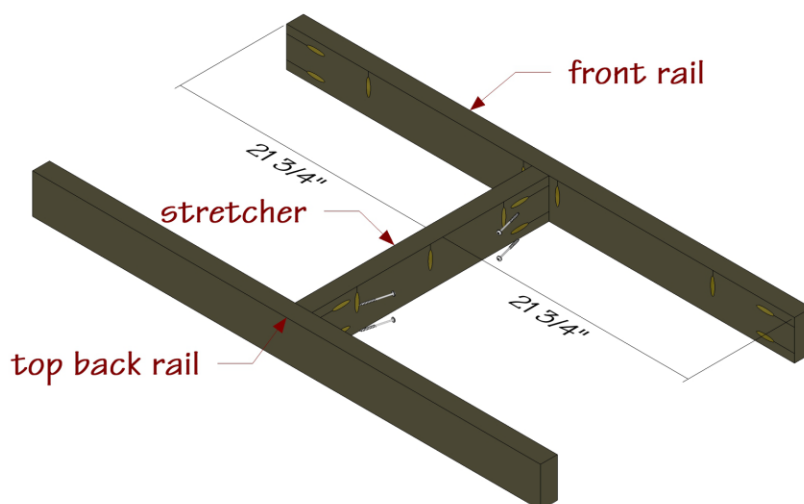


bottom back rail

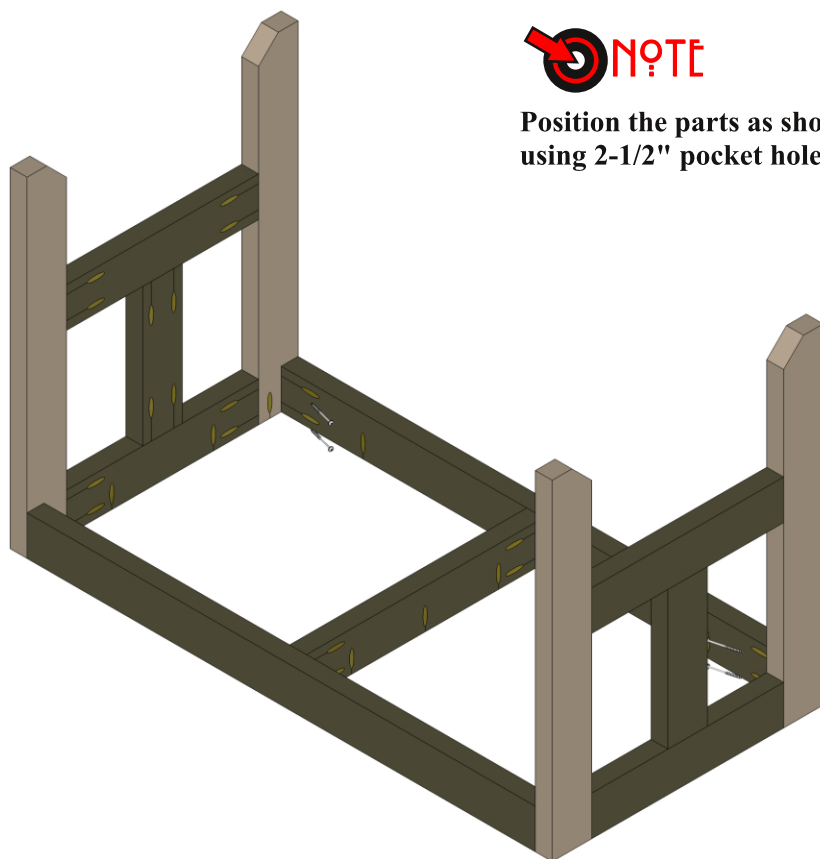


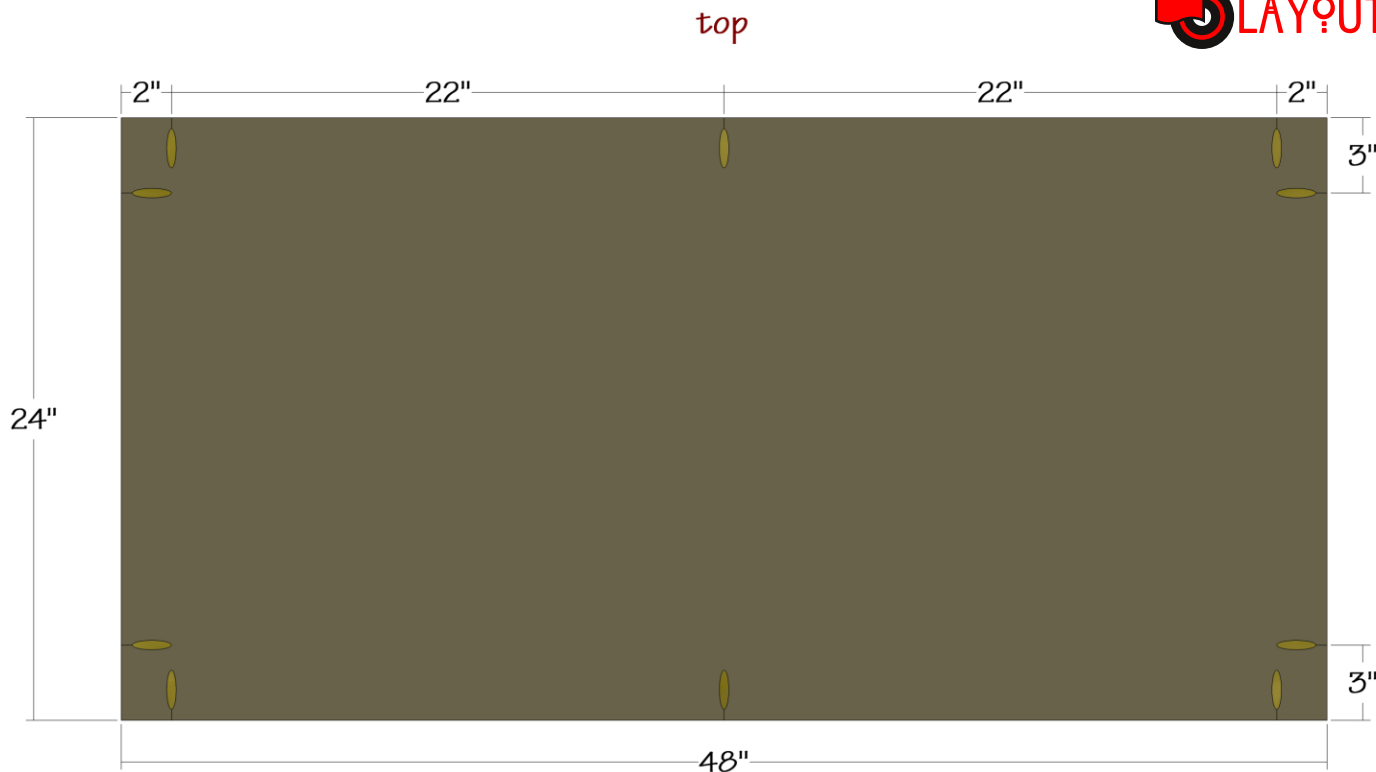


Position the parts as shown and attach using 2-1/2" pocket hole screws.



Position the parts as shown and attach using 2-1/2" pocket hole screws.





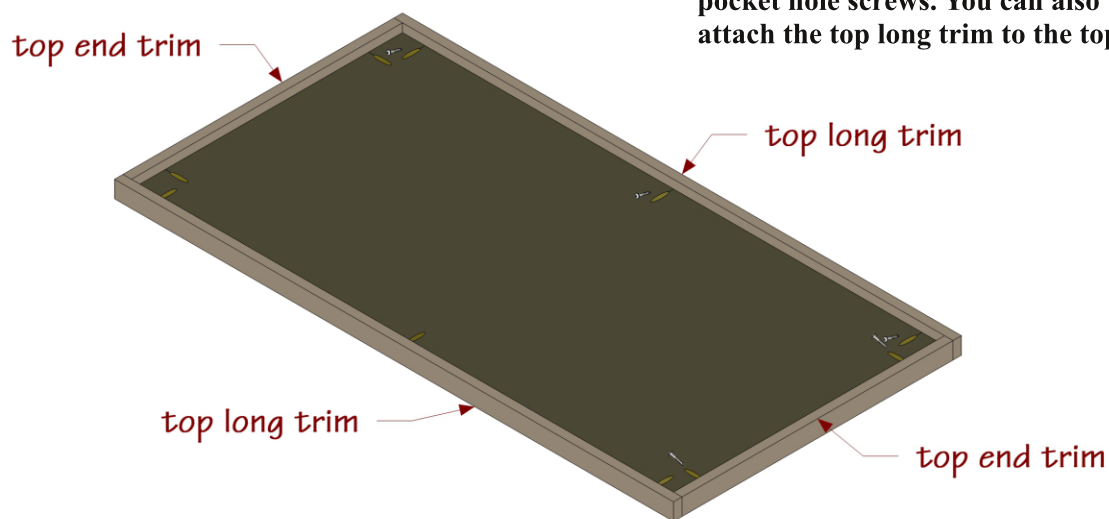
**NOTE**

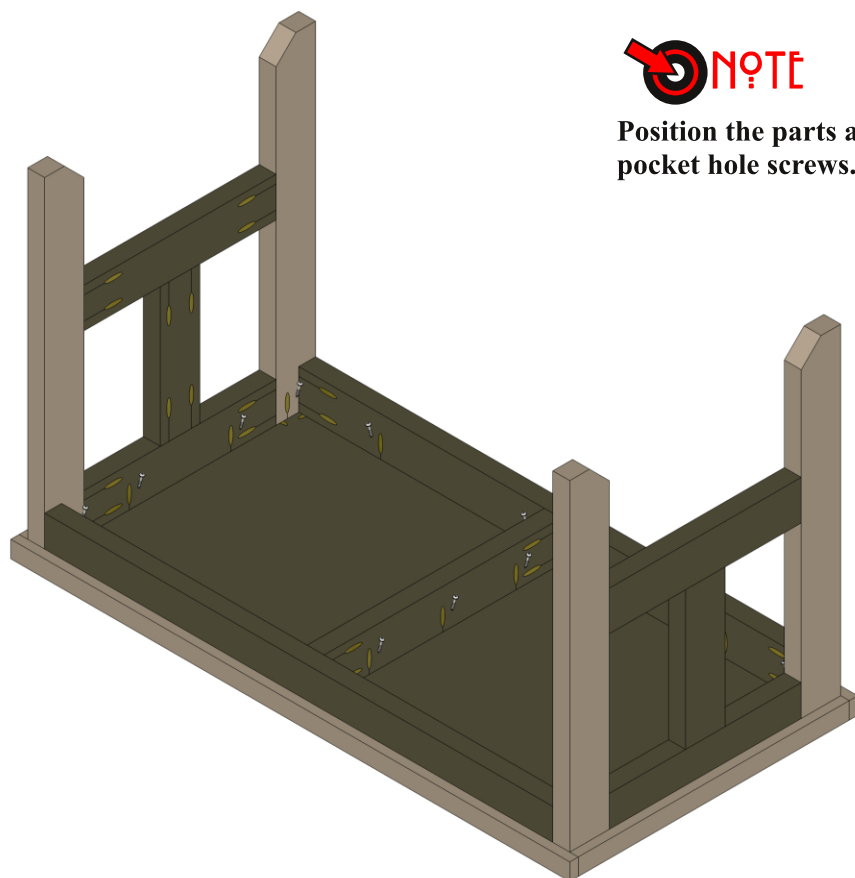
Use the layout to create the top. Set your pocket hole jig and drill bit for 3/4" stock for drilling the pocket holes.



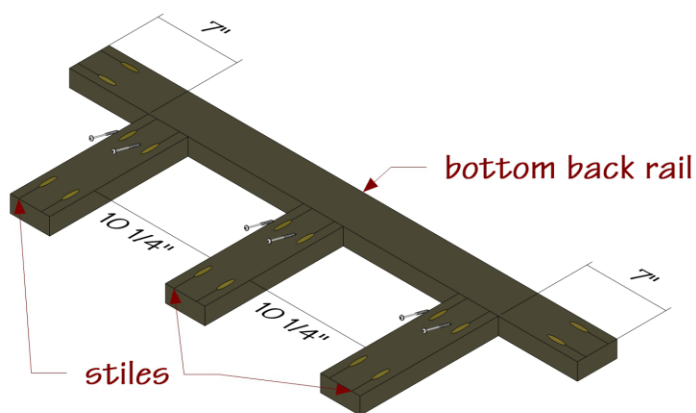
**NOTE**

Position the parts as shown and attach using 1-1/4" pocket hole screws. You can also use 1-1/2" brads to attach the top long trim to the top end trim if desired.

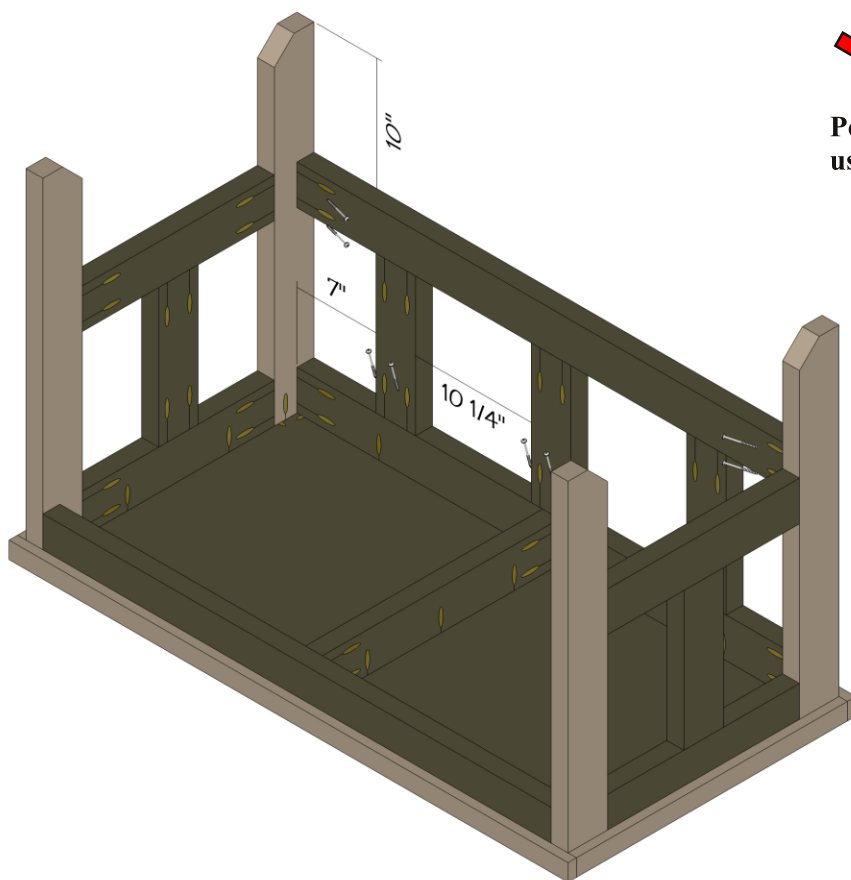




Position the parts as shown and attach using 1-1/4" pocket hole screws.



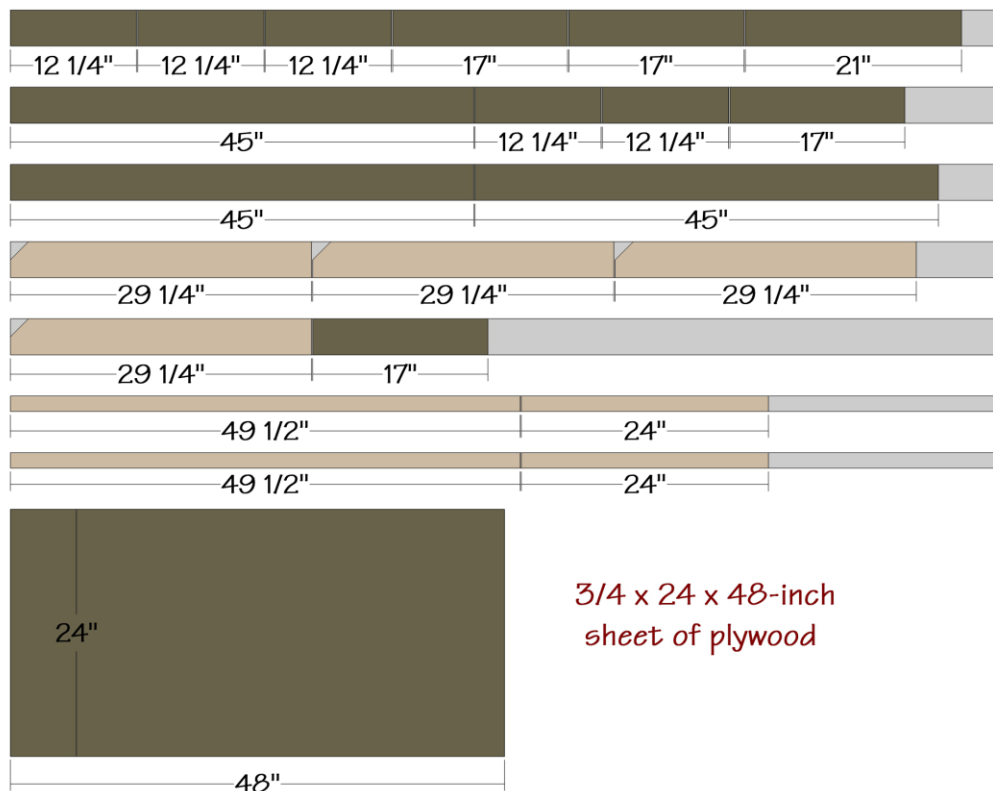
Position the parts as shown and attach using 2-1/2" pocket hole screws.



Position the parts as shown and attach using 2-1/2" pocket hole screws.



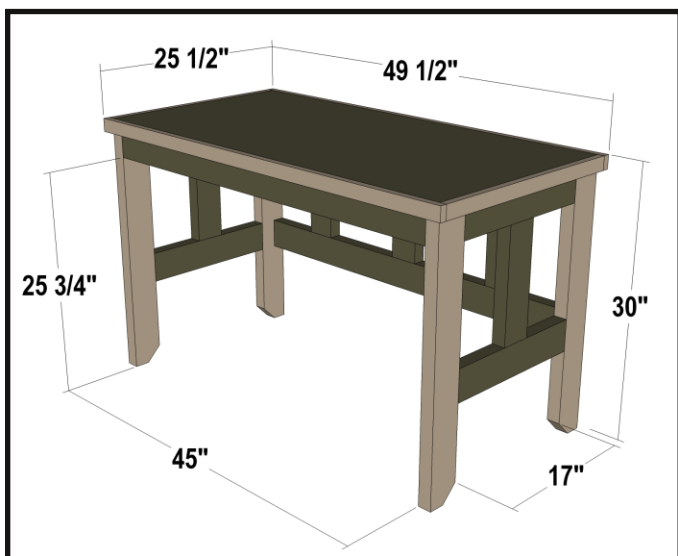
## CUTTING DIAGRAM



2x4x8  
(5)

1x2x8  
(2)

3/4 x 24 x 48-inch  
sheet of plywood



Estimated lumber cost:  
starting at \$40

## PARTS

stiles (5) - 1-1/2 x 3-1/2 x 12 1/4  
top end rails (2) - 1-1/2 x 3-1/2 x 17  
bottom end rails (2) - 1-1/2 x 3-1/2 x 17  
legs (4) - 1-1/2 x 3-1/2 x 29 1/4  
stretcher - 1-1/2 x 3-1/2 x 21  
front rail - 1-1/2 x 3-1/2 x 45  
top back rail - 1-1/2 x 3-1/2 x 45  
top - 3/4 x 24 x 48  
top end trim (2) - 3/4 x 1-1/2 x 24  
top long trim (2) - 3/4 x 1-1/2 x 49 1/2  
bottom back rail - 1-1/2 x 3-1/2 x 45

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.

## 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!