4) Pre-drill pieces E with four 1/8" holes, two 3/4" in from each end, countersink with a 1/4" drill bit, and screw to the two outside pieces D as shown (Fig 5) with four 3" flathead screws.

5) Lay out the pieces H as shown (Fig 6 & 7). Bolt together with two 5/16" x 4" bolts and four washers, one bolt and two washers for each intersection point. Tighten the bolts so that the legs remain 11 3/4" apart at each end. Lay against the pieces G as shown (Fig 7) and drill through each H and G with a 5/16" drill bit. Bolt together with four 5/16" x 4" bolts and eight washers. Pre-drill two holes through one piece G with a 1/8" bit, countersink with a 1/4" bit, and screw to the other piece G with two #8 2 1/2" flathead screws. Repeat for the other bench leg assembly. Lay the assemblies on the pieces F, separating F by 1/4", and pre-drill through each G, two 1/8" holes and screw to pieces F with eight #8 2 1/2" flathead screws. Remember that the outside legs will be on the same side to allow for proper attachment of piece J. Pre-drill J as you earlier pre-drilled E and screw to legs H with four #8 3" flathead screws. Repeat this procedure for the other three benches.

6) You can now finish cut the table and benches for either the shape shown in Fig 9 or Fig 10. A simple compass can be made using a nail and narrow (2" wide) length of cardboard by tacking one end of the cardboard to the project and punching a small hole at the other end for your pencil to draw table Fig 9. Use a jigsaw to cut corners. Sand the project and finish with either stain or wood preservative, depending upon the type of wood you are using and the finished look you desire. You can add an umbrella by drilling a hole in the centre of the table, and have it supported by piece E. Drill a shallow hole in piece E to prevent slippage. To further finish the project, use a hacksaw to cut off any excess lengths on the bolts.

On materials:

We recommend cedar for this project as it is a nice soft wood to work with, although you can use other types of wood.

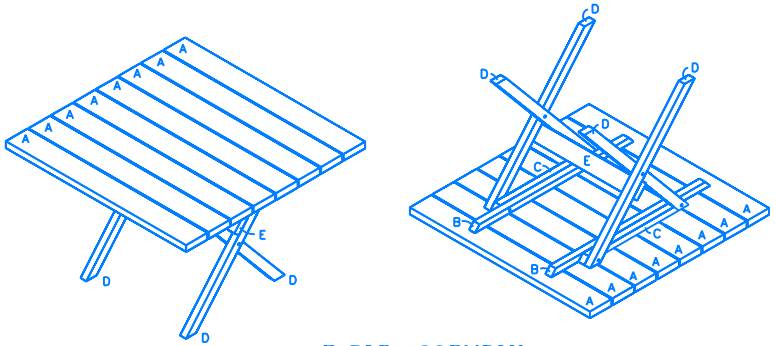
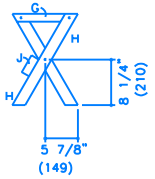
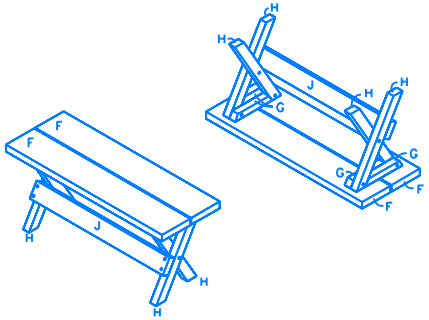


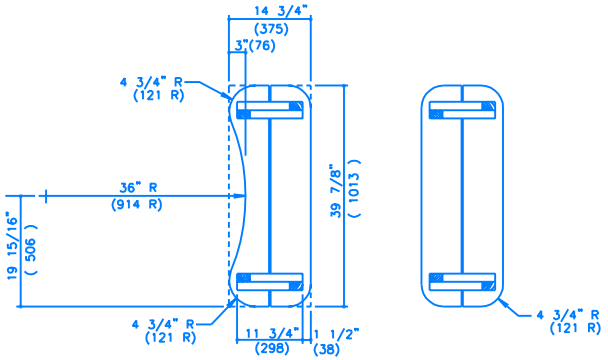
TABLE ASSEMBLY
FIGURE 5



CHAIR END
FIGURE 6



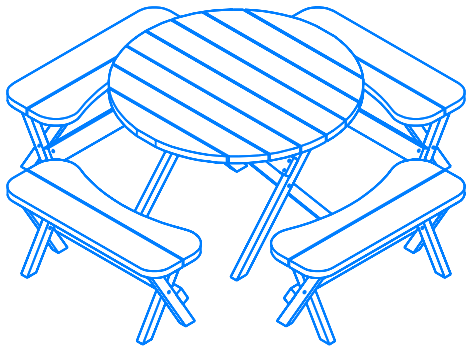
CHAIR ASSEMBLY
FIGURE 7

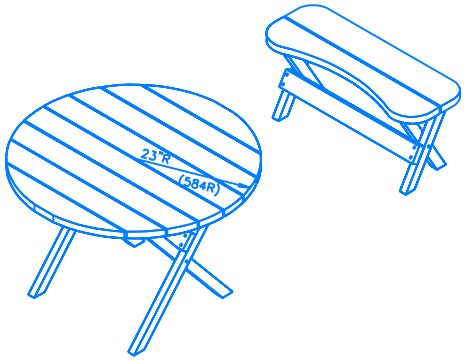


CHAIR UNDERSIDE

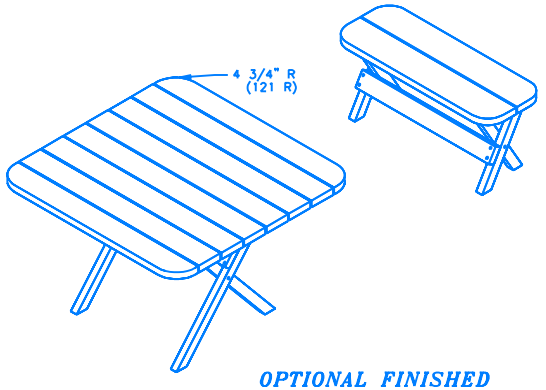
CHAIR (optional)

FIGURE 8





FINISHED TABLE & CHAIR
FIGURE 9



OPTIONAL FINISHED TABLE & CHAIR
FIGURE 10