

WOOD + STEEL COFFEE TABLE

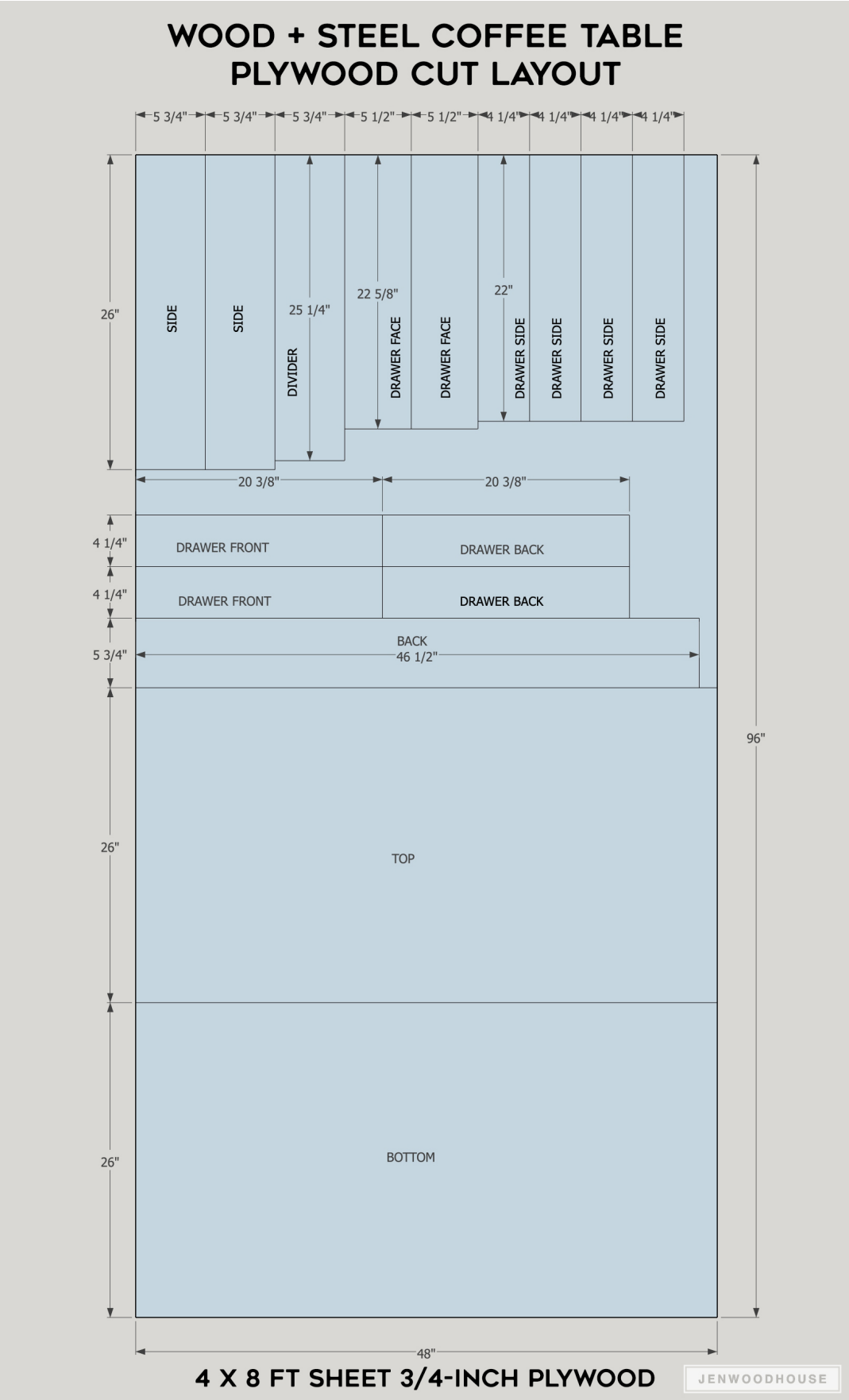


MATERIALS:

(1) 4 x 8 Ft. Sheet of $\frac{3}{4}$ -inch Plywood
(1) 4 x 4 Ft. Sheet of $\frac{1}{4}$ -inch Plywood
27 Feet of 1" x 1" Steel Square Tubing
1 $\frac{1}{4}$ -inch Pocket Screws
1 $\frac{1}{4}$ -inch Brad Nails
1-inch Staples
(2) 22-inch Metal Drawer Slides
 $\frac{3}{4}$ -inch Veneer Edge Banding
Wood Glue

TOOLS:

Tape Measure
Pencil
Carpenter's Square
Cordless Drill/Driver
Table Saw or Circular Saw
Jigsaw
Pocket Hole Jig
Brad Nailer or Hammer
Welder + Welding Gear
Safety Glasses
Hearing Protection
Dust Mask



CUT LIST:

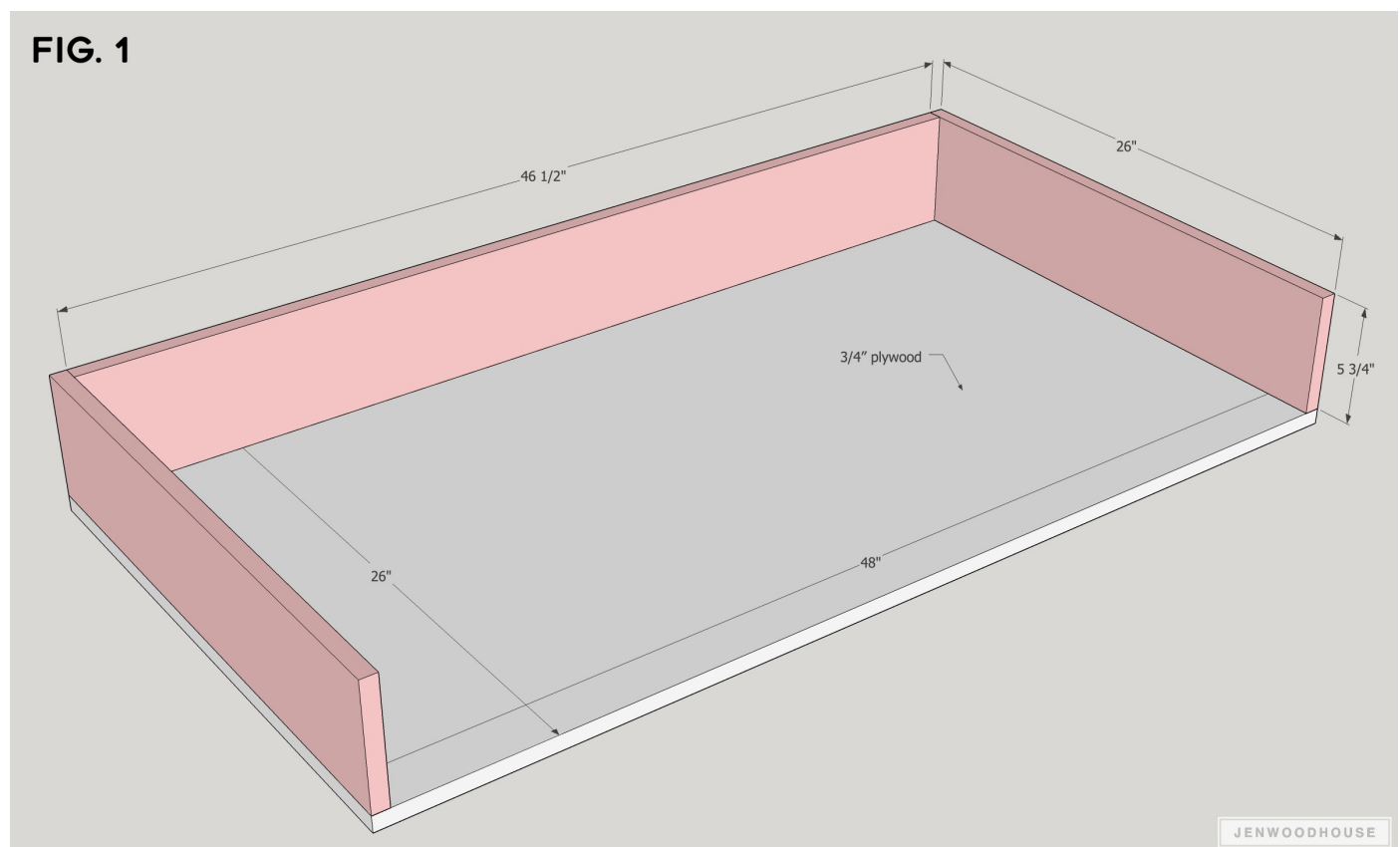
- (2) $\frac{3}{4}$ -inch plywood @ 48 inches x 26 inches (top and bottom)
- (1) $\frac{3}{4}$ -inch plywood @ 46 $\frac{1}{2}$ inches x 5 $\frac{3}{4}$ inches (back)
- (2) $\frac{3}{4}$ -inch plywood @ 26 inches x 5 $\frac{3}{4}$ inches (sides)
- (1) $\frac{3}{4}$ -inch plywood @ 25 $\frac{1}{4}$ inches x 5 $\frac{3}{4}$ inches (divider)

DRAWER PARTS:

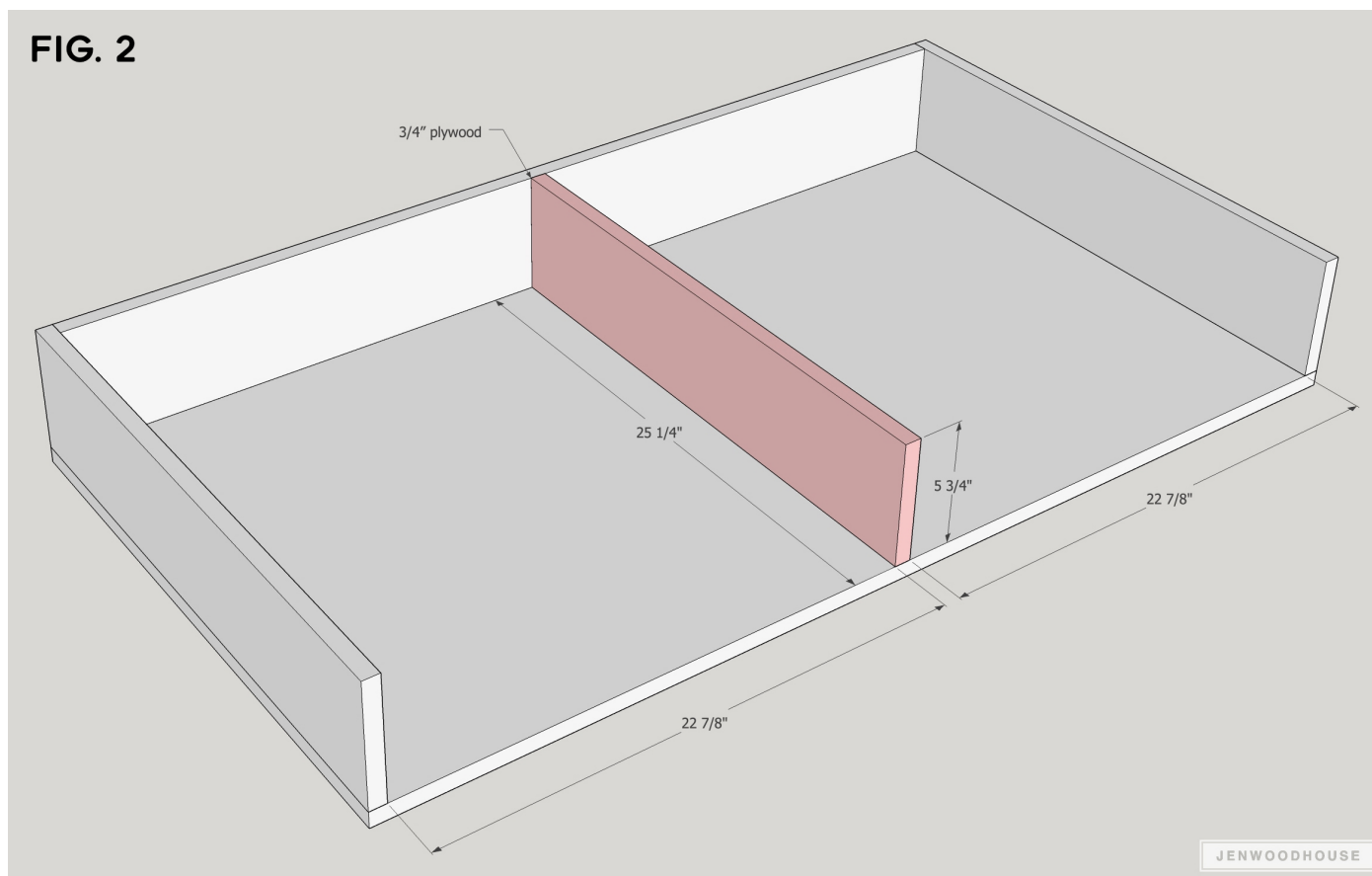
- (4) $\frac{3}{4}$ -inch plywood @ 22 inches x 4 $\frac{1}{4}$ inches (drawer sides)
- (4) $\frac{3}{4}$ -inch plywood @ 20 $\frac{3}{8}$ inches x 4 $\frac{1}{4}$ inches (drawer fronts and backs)
- (2) $\frac{3}{4}$ -inch plywood @ 22 $\frac{5}{8}$ inches x 5 $\frac{1}{2}$ inches (drawer faces)
- (2) $\frac{1}{4}$ -inch plywood @ 22 inches x 21 $\frac{7}{8}$ inches (drawer bottoms)

STEEL PARTS:

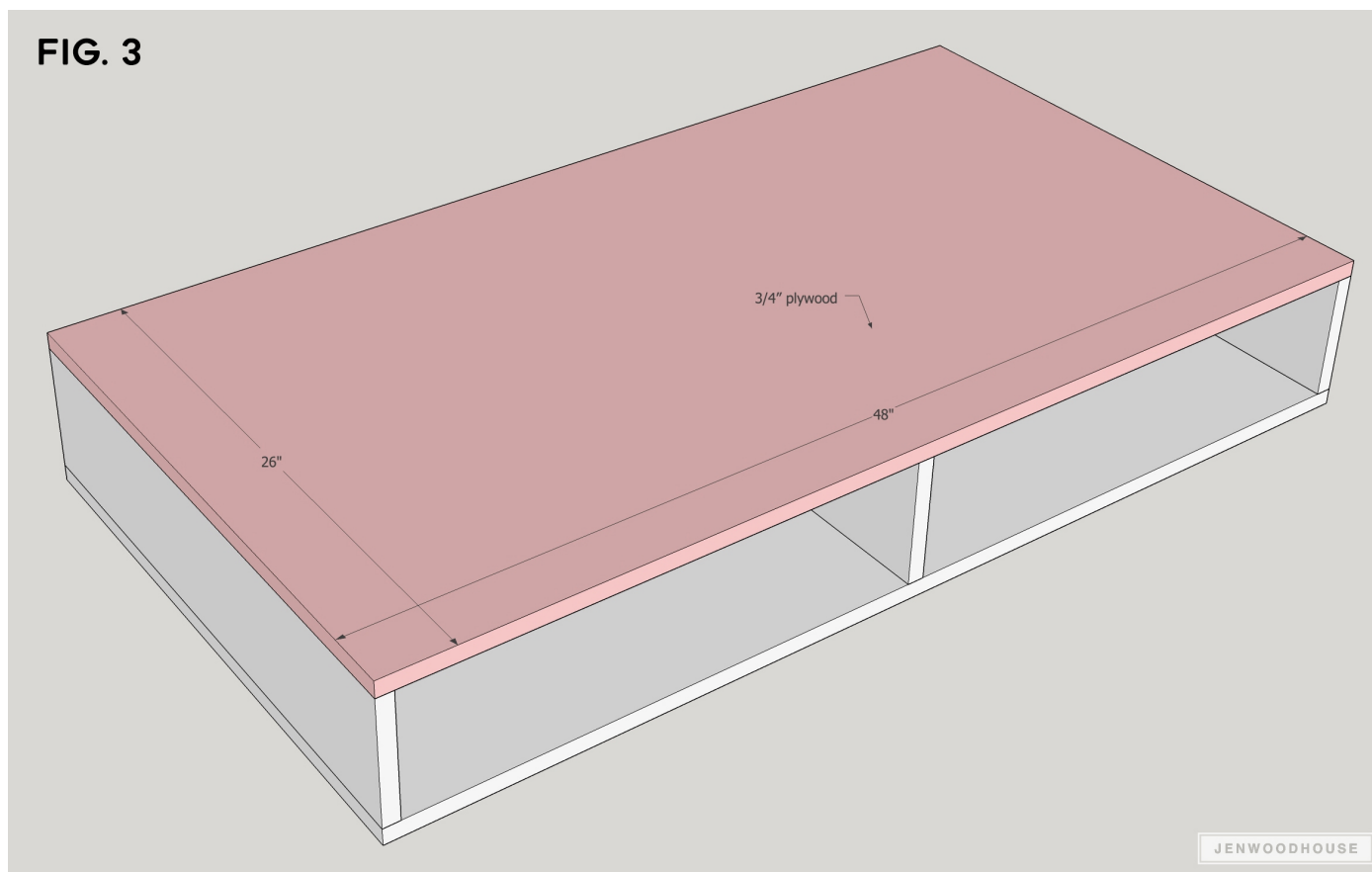
- (4) 1x1 square tubing @ 46 inches (long aprons)
- (4) 1x1 square tubing @ 24 inches (short aprons)
- (4) 1x1 square tubing @ 9 $\frac{3}{4}$ inches (legs)

FIG. 1**STEP 1 – BUILD THE CARCASS**

Measure, mark, and cut bottom, sides, and back panels to size. Drill $\frac{3}{4}$ -inch pocket holes into sides and back and attach to bottom with 1 $\frac{1}{4}$ -inch pocket screws and wood glue. Check for square, adjust as necessary.

FIG. 2**STEP 2 – ADD THE DIVIDER**

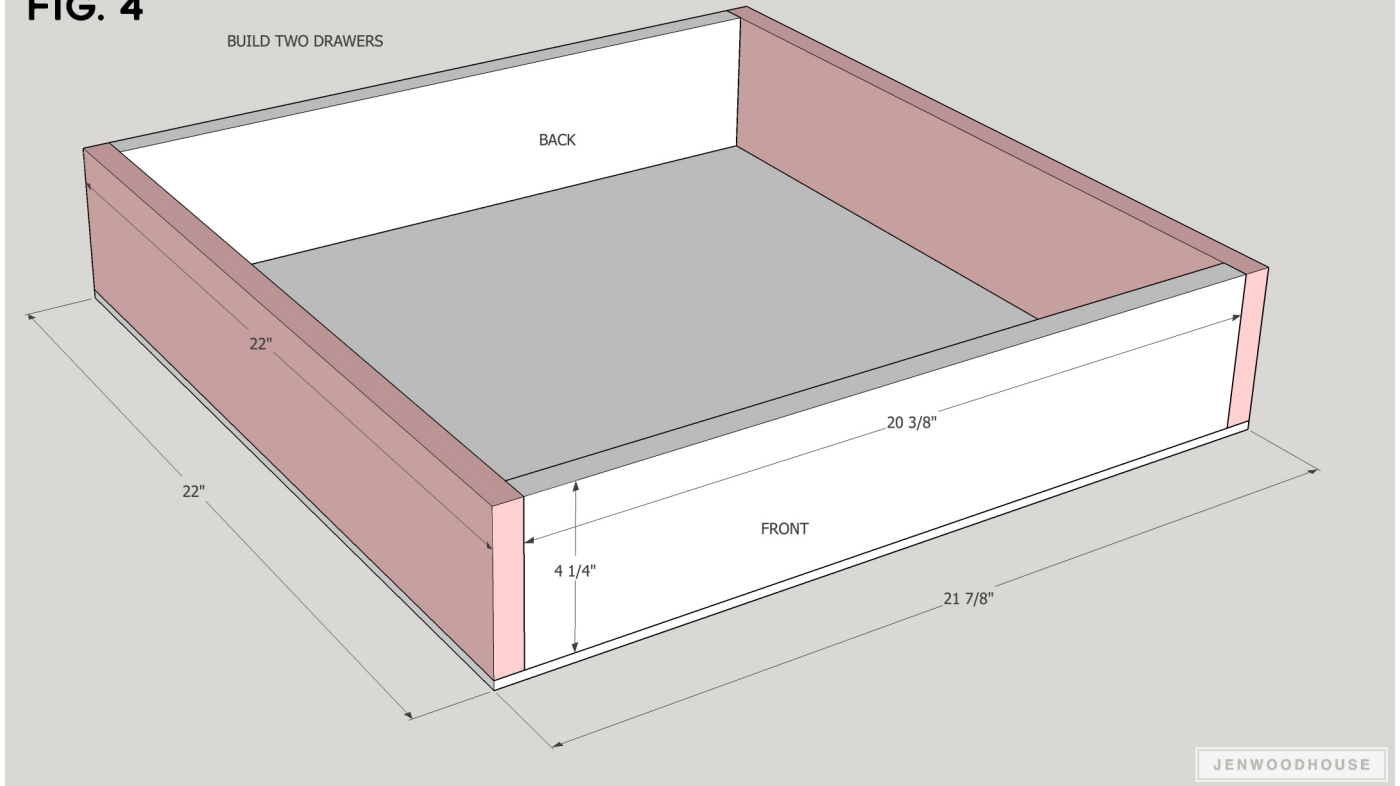
Measure, mark, and cut divider to size. Drill $\frac{3}{4}$ -inch pocket screws into the bottom and back edges, position in the middle of the carcass, and attach the divider to the bottom and back with $1\frac{1}{4}$ -inch pocket screws and wood glue.

FIG. 3**STEP 3 – ATTACH THE TOP**

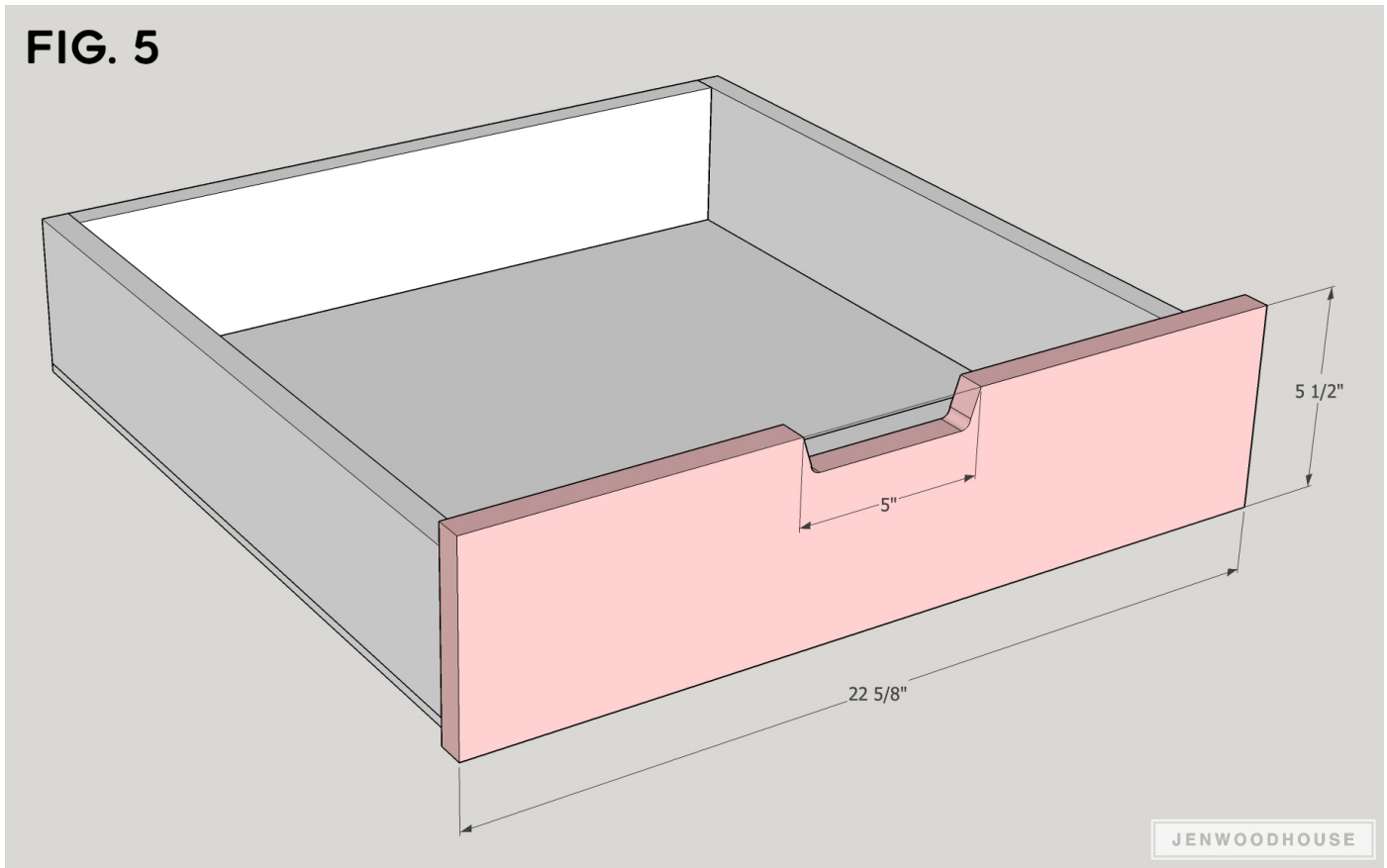
Measure, mark, and cut top to size. Attach the top to the carcass with 1 ¼-inch brad nails and wood glue. Iron on veneer edge banding to hide any visible raw plywood edges.

FIG. 4

BUILD TWO DRAWERS

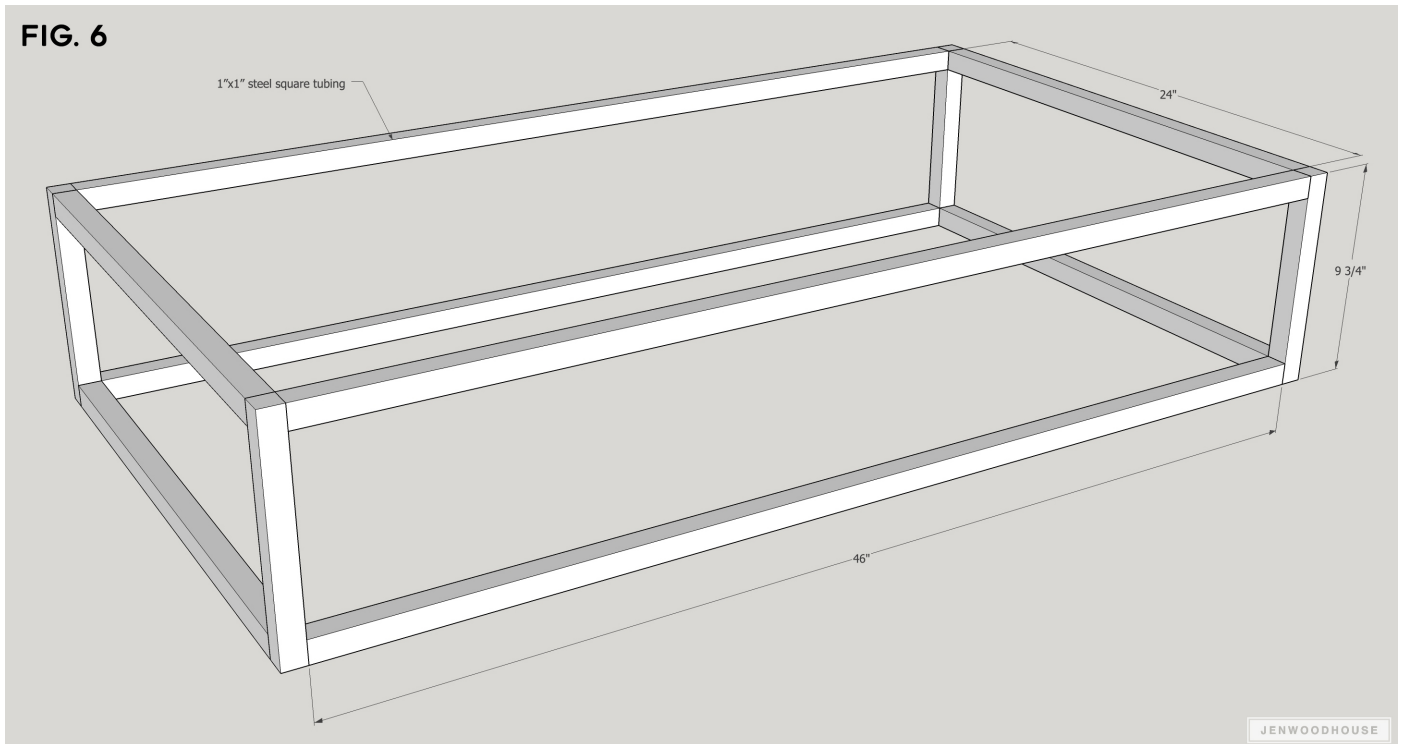
**STEP 4 – BUILD TWO DRAWER BOXES**

Measure, mark, and cut drawer parts to size. Drill $\frac{3}{4}$ -inch pocket holes into the drawer fronts and backs and construct the drawer boxes with $1\frac{1}{4}$ -inch pocket screws and wood glue. Glue and nail the bottom panel to the drawer.

FIG. 5**STEP 5 – ATTACH THE DRAWER FACE AND INSTALL GLIDES**

Measure, mark, and cut drawer faces to size. Use a jigsaw to make the curved cuts. Glue and nail the drawer face to the drawer box with 1 ¼-inch brad nails and wood glue. Install drawer slides according to manufacturer's directions. Generally, there should be a ½-inch clearance on both sides of the drawer box to allow space for the drawer slides.

Fill all screw and nail holes with wood putty, sand, stain and/or paint, and finish as desired.

FIG. 6**STEP 6 – WELD THE BASE**

Measure, mark, and cut steel parts to length. Clean metal until it's bright and shiny, then wipe down with acetone. Tack weld joints, check for square, and adjust as necessary. Weld all joints, then weld tabs to attach the steel base to the wood cabinet. Clean the rest of the mill scale off the steel, prime with a self-etching primer, spray paint if desired, and screw the steel base to the cabinet.