



crestonWood
Furniture and Shop Design

MISSION CABINET PLANS



By Dan Phalen

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Mission Cabinet Plans.

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The Build: A Mission-Style Cabinet

The purpose for my Mission cabinet was determined by my wife's need for small photography projects. However, there's no reason this project can't apply to any other purpose. It will fit well with standard furniture in a living room, den, bedroom, or even a bathroom.



How We Use It. Because my wife’s photography today primarily involves her collection of hand-painted china. She needed to replace her old “easel,” cobbled together from upturned storage tubs. So, the dimensions were dictated by her desire to place the objects at a comfortable height from either a seated or a standing position, versus 18 inches off the floor. Thus, the 34-inch legs, the storage compartment, the drawer, the somewhat oversized top.



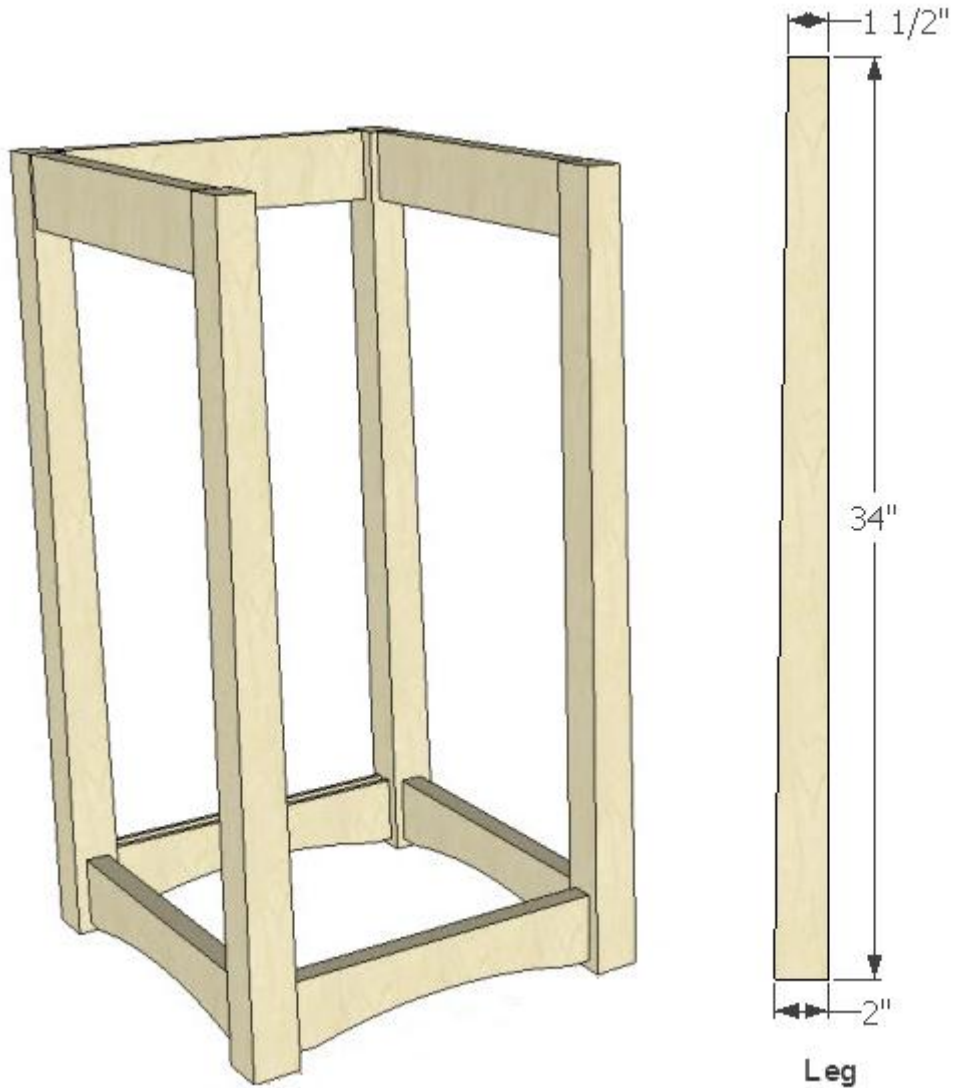
MATERIALS LIST

ID	Part	Qty	T	W	L	Material
A	Legs	4	2	2	34	Maple
B	Side Aprons	2	7/8	3	16	Maple
C	Rear Apron	1	7/8	3	15	Maple
D	Side Stretchers	2	7/8	3	16	Maple
E	Front/Back Stretchers	2	7/8	3	15 7/16	Maple
G	Side Panel	2	3/4	15	27 3/4	Maple Ply
H	Rear Panel	1	1/2	14	28 1/16	Maple Ply
I	Bottom	1	3/4	15	17 3/16	Maple Ply
J	Top Edging, Front/Rear	2	1	16	26	Maple
K	Drawer front	1	7/8	4	12 1/8	Maple
L	Drawer frame	4	3/4	15	1 1/2	Maple
M	Bottom cleats	4	3/4	1	12 7/8	Maple
N	Drawer sides	2	1/2	3 1/2	14 1/2	Oak
A	Legs	4	2	2	34	Maple

*NOTE: The best plywood for this purpose is a 9-ply material.

Give It Some Legs

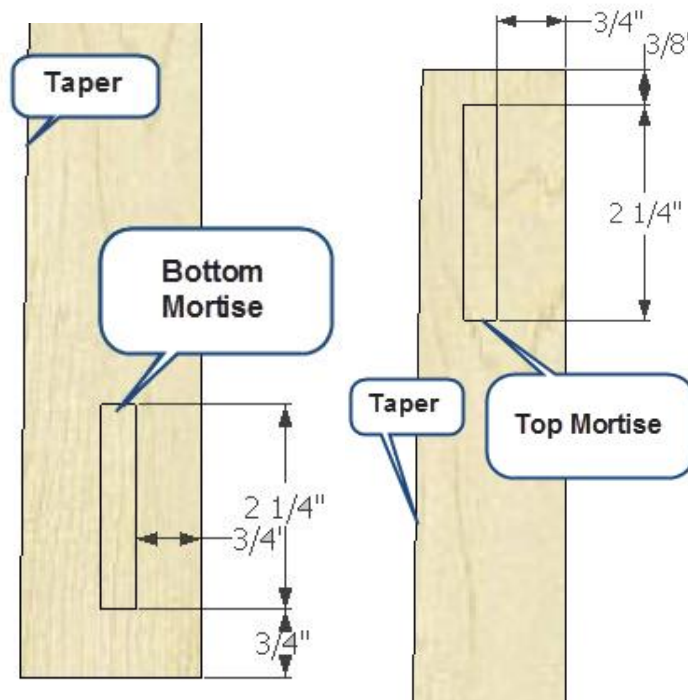
We'll start with a basic frame comprised of four legs milled to 2" stock (8/4), plus connecting aprons and stretchers. Taper the legs to 1 1/2" x 2" on top as shown, but cut the mortises first while still 2" x 2".



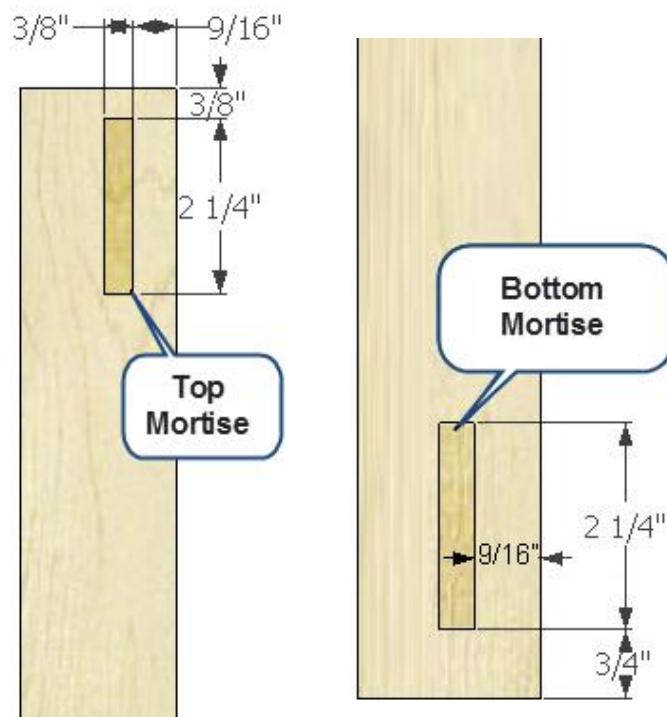
NOTE: Taper the legs on the outside face only. This means the apron reveal at the bottom is wider than the reveal at the top.

LEG MORTISES

LEG MORTISES FOR SIDE APRONS



LEG MORTISES FOR REAR APRON



APRONS

Apron stock is 1" thick. The tenons on all aprons are 3/8" wide by 2 1/4" high by 1/2" deep, with a 3/8" shoulder top and bottom.

SIDE APRONS (2)

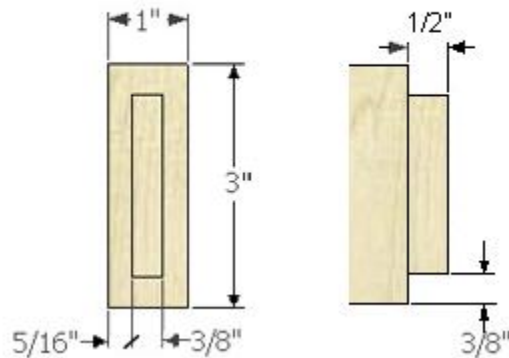


REAR APRON (1)



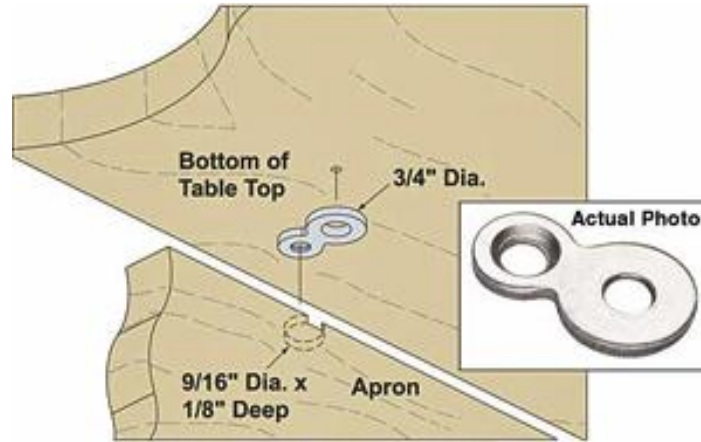
1/2-INCH TENONS FOR ALL APRONS

Tenons



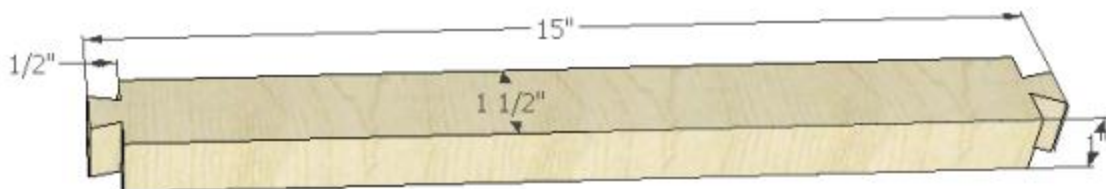
Drill Aprons For Top Fasteners

Using a 9/16" dia. Forstner bit, drill the tops of all three aprons 1/8" deep for [figure 8 fastener](#) pairs.



FRAME FRONT

Rather than a front apron, the cabinet has a 1" thick 1 1/2" x 15" crosspiece locked into the tops of the front legs by a dovetail joint. This approach accommodates the drawer.



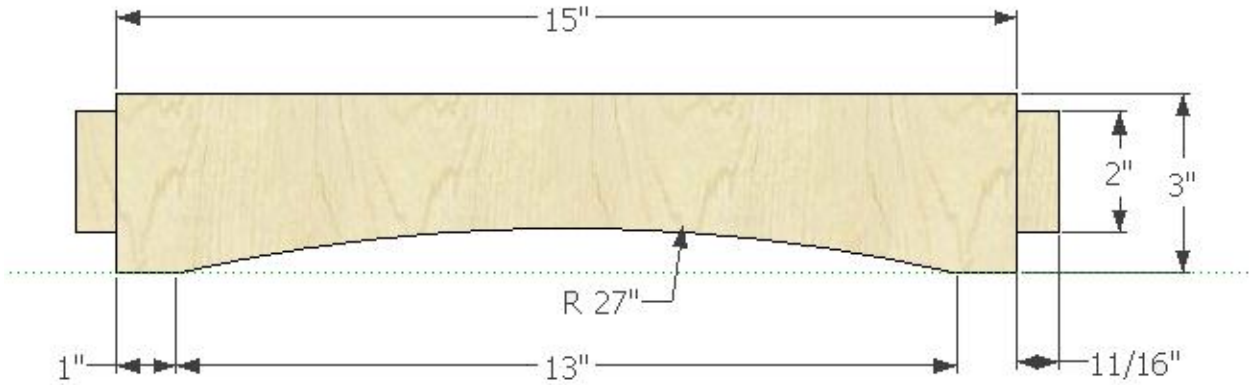
Top Fasteners. Drill the top of the Frame Front $9/16'' \times 1/8''$ for “figure 8” desk top fasteners for the top, just as for the aprons (Page 8).



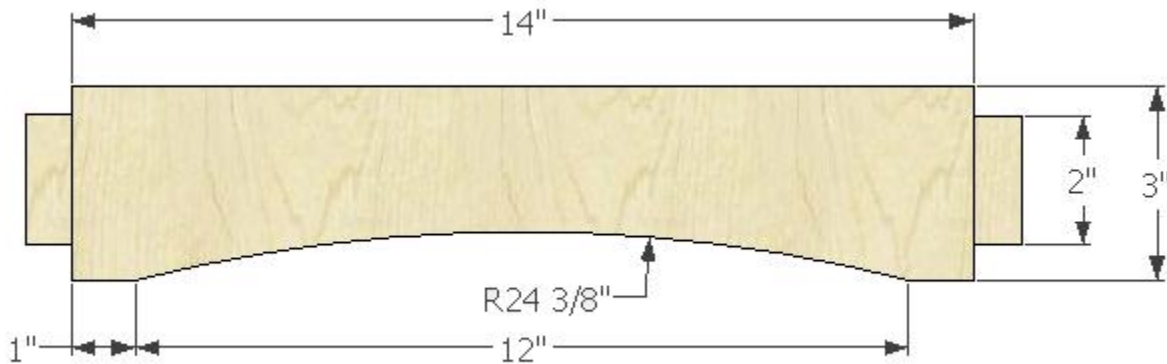
STRETCHERS

The stretchers support the bottoms of the legs and side panels, and they provide cleated support for the cupboard bottom.

SIDE STRETCHERS

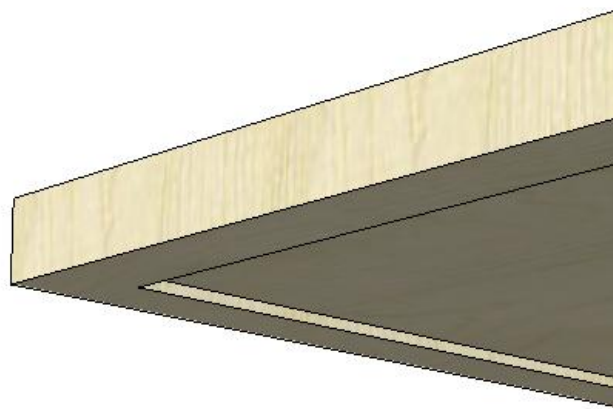
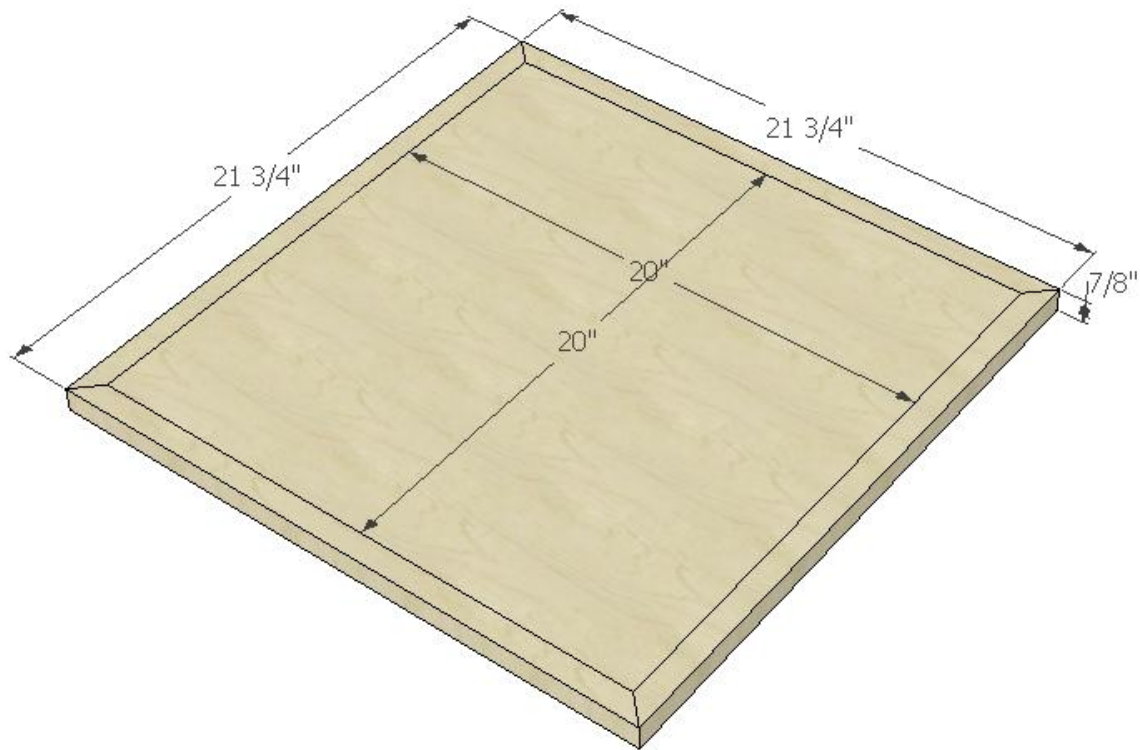


FRONT/REAR STRETCHERS



TOP

The top as I made it is maple plywood or solid maple, your choice. Rather than the beveled edge shown in the Sketchup diagrams, I opted for $\frac{3}{4}$ " x 20" x 20" plywood and edged it with $\frac{7}{8}$ " x $\frac{7}{8}$ " solid maple mounted flush to the top surface. The edging creates a slight overhang, as shown in the bottom view from beneath.



FINISHED APPEARANCE

With a nice finish and your choice of hardware, this Mission-style cabinet is ready to serve you for a long time.



THAT'S IT!

This completes the plan drawings for my Arts & Crafts Side Table. Enjoy and let me hear from you about your success with it.

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