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TEN-DRAWER CHEST

Curly Maple, Cherry, Walnut

MAKING THE TEN-DRAWER CHEST

After the material has been dimensioned, glue-up the top panel and set it aside.

Then cut joints for the face frame. When these have been fit, glue the frame.

Build the end panels next. Because of the seasonal expansion and contraction that will take place across their width, they are built as framed panels with the tongues on the perimeter of the central panel floating in grooves cut into the inside edges of the frame components, which are held together with mortise-and-tenon joinery.

After the end panels have been glued-up, cut dadoes across their width for the tongues on the ends of the dust panels. Then, glue the front edges of the end panels to the back of the face frame.

Assemble the interior of the case in layers beginning at the bottom. First slide the tongues on the bottom dust panel into the dadoes cut on the inside faces of the end panels. Glue and clamp the front edge of the dust panel to the back side of the face frame. After removing the clamps, install the drawer guides and stops for the bottom tier of drawers.

Then, slide the next dust panel into position, glue and clamp it, and install its drawer guides and stops. Continue up the chest until each layer of interior work is completed.

After installing the filler strip at the bottom back of the cabinet, fasten the four mitered sides of the bottom frame in place with screws passing up into the bottom of the end panels and face frame.

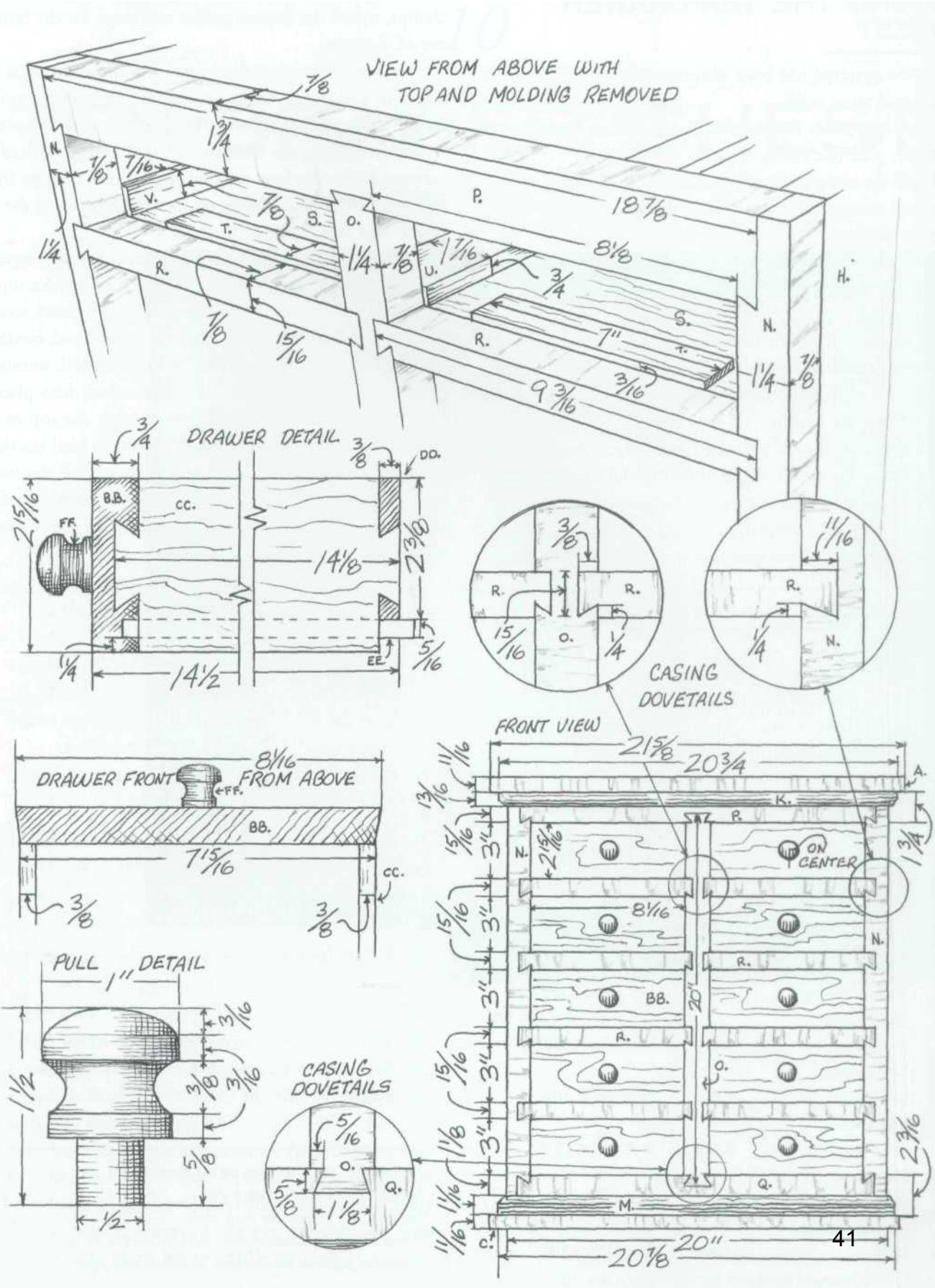
Assemble the top frame, with kicker strips, as a separate unit. Before installing it in the cabinet, fasten the top to the frame with screws passing up through slotted screw holes. These holes allow the top to expand and contract across its width in response to seasonal changes in humidity.

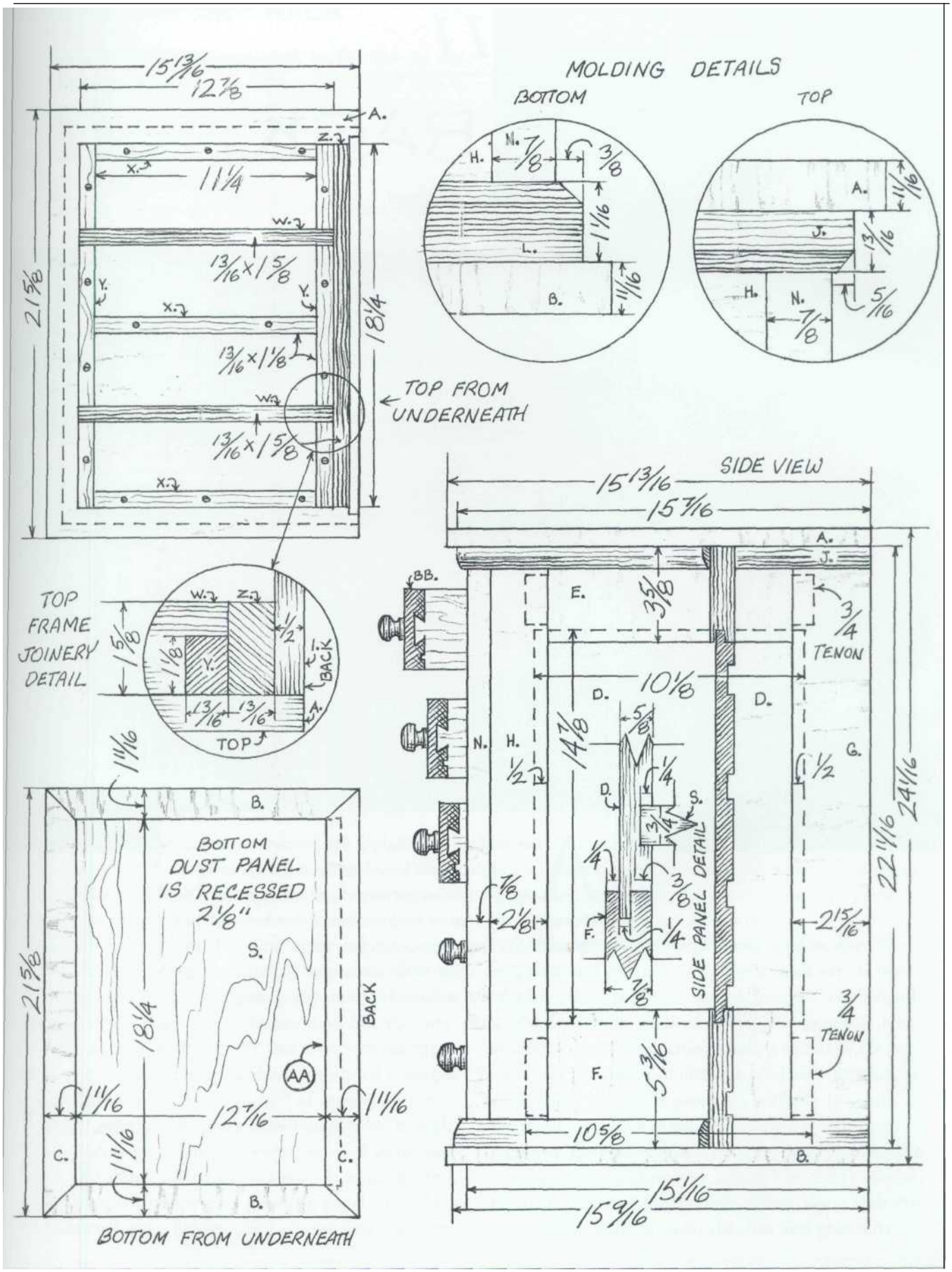
Set the top frame, with the top attached, into place. Hold it there with screws passing through the top of the face frame and the tops of the end panels. Nail on the upper moulding, concealing these screws. Nail the lower moulding into place. Drawer construction is straightforward, with through dovetails at the back of the drawers and half-blind dovetails at the front.

MATERIALS LIST

Case			
A	Top	1 pc.	1 1/16 × 15 13/16 × 21 5/8
B	Short bottom frame	2 pcs.	1 1/16 × 1 11/16 × 15 13/16
C	Long bottom frame	2 pcs.	1 1/16 × 1 11/16 × 21 5/8
D	Central end panel	2 pcs.	5/8 × 10 1/8 × 14 7/8 [1]
E	Top of end panel frame	2 pcs.	7/8 × 3 5/8 × 10 5/8 [2]
F	Bottom of end panel frame	2 pcs.	7/8 × 5 3/16 × 10 5/8 [2]
G	Back of end panel frame	2 pcs.	7/8 × 2 15/16 × 22 11/16
H	Front of end panel frame	2 pcs.	7/8 × 2 1/8 × 22 11/16
I	Back planking	various	1/2 × various × 22 11/16
J	Short upper moulding	2 pcs.	5/16 × 13/16 × 15 7/16
K	Long upper moulding	1 pc.	5/16 × 13/16 × 20 3/4
L	Short lower moulding	2 pcs.	3/8 × 1 1/16 × 15 9/16
M	Long lower moulding	1 pc.	3/8 × 1 1/16 × 20 7/8
N	Outside vertical facing	2 pcs.	7/8 × 1 1/4 × 22 11/16
O	Central vertical facing	1 pc.	7/8 × 1 1/4 × 20
P	Top horizontal facing	1 pc.	7/8 × 1 3/4 × 18 7/8
Q	Bottom horizontal facing	1 pc.	7/8 × 2 3/16 × 18 7/8
R	Short facing	8 pcs.	7/8 × 15/16 × 9 3/16
S	Dust panel	5 pcs.	3/4 × 13 3/4 × 18 3/4 [3]
T	Drawer stop	10 pcs.	3/16 × 7/8 × 7
U	Central drawer guide	5 pcs.	3/4 × 1 7/16 × 13 3/4
V	Outside drawer guide	10 pcs.	7/16 × 7/8 × 13 3/4
W	Kicker strip	2 pcs.	13/16 × 1 5/8 × 12 7/8
X	Short top frame	3 pcs.	13/16 × 1 1/8 × 11 1/4
Y	Long top frame	2 pcs.	13/16 × 1 1/8 × 18 1/4
Z	Cleat	1 pc.	13/16 × 1 5/8 × 18 1/4
AA	Bottom filler strip	1 pc.	3/4 × 1 7/16 × 18 1/4
Drawers			
BB	Front	10 pcs.	1/4 × 2 15/16 × 8 1/16
CC	Sides	20 pcs.	3/8 × 2 15/16 × 14 1/8
DD	Back	10 pcs.	3/8 × 2 3/8 × 7 15/16
EE	Bottom	10 pcs.	5/16 × 7 9/16 × 14 1/8
FF	Pull	10 pcs.	1 × 1 1/2

[1] Includes 1/4" × 1/2" tongue on all four edges.
[2] Includes 3/4" tenon on each end.
[3] Includes 1/4" tongue on each end.
**These are net measurements. Surplus should be added to all dovetailed parts to allow them to be sanded flush.*


VIEW FROM ABOVE WITH TOP AND MOLDING REMOVED
DRAWER DETAIL
DRAWER FRONT FROM ABOVE
PULL 1" DETAIL
CASING DOVETAILS
FRONT VIEW
ON CENTER
20"


MOLDING DETAILS
BOTTOM
TOP
TOP FROM UNDERNEATH
TOP FRAME JOINERY DETAIL
SIDE VIEW
SIDE PANEL DETAIL
BOTTOM DUST PANEL IS RECESSED 2 1/8"
BOTTOM FROM UNDERNEATH
BACK
TENON