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JANBED

-WOOD STORE Team



Country-
Fresh

Solid-Oak Bed

Dreamland takes on a whole new look with this solid-oak bed design. Frame-and-panel construction makes for life-long endurance. Other members of the set are available as separate downloadable plans.



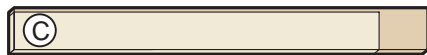
CUTTING DIAGRAM



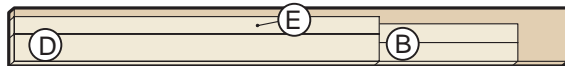
1 1/16 x 7 1/4 x 96" Oak



1 1/16 x 7 1/4 x 96" Oak



1 1/16 x 7 1/4 x 72" Oak (2 needed)



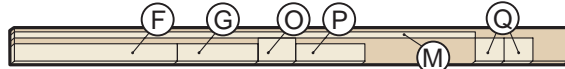
1 1/16 x 9 1/4 x 96" Oak



1/2 x 5 1/2 x 72" Oak (2 needed)



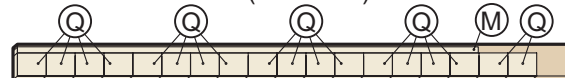
1 1/16 x 5 1/2 x 72" Oak



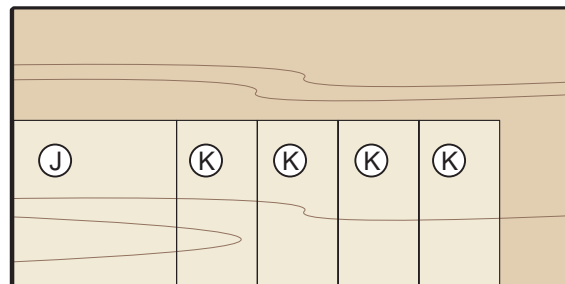
3/4 x 5 1/2 x 96" Oak



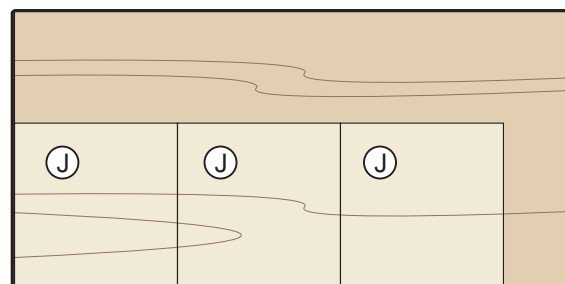
1 1/16 x 7 1/4 x 96" Oak (2 needed)



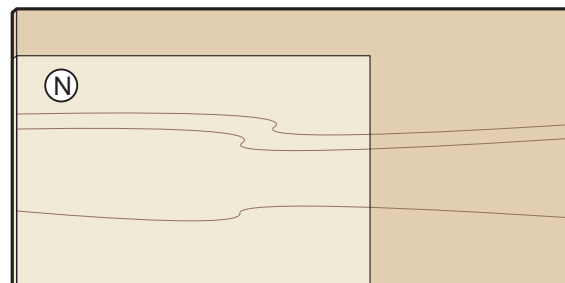
3/4 x 5 1/2 x 96" Oak



1/4 x 48 x 96" Oak plywood



1/4 x 48 x 96" Oak plywood



3/4 x 48 x 96" Birch plywood (2 needed)

Bill of Materials

Part	Finished Size			Matl.	Qty.
	T	W	L		
A hb. leg	3 3/16"	3 3/16"	38 1/4"	LO	2
B fb. leg	3 3/16"	3 3/16"	24"	LO	2
C btm. rails	1 1/16"	6 1/2"	63 3/8"	O	2
D hb. top rail	1 1/16"	4 3/4"	63 3/8"	O	1
E fb. top rail	1 1/16"	3"	63 3/8"	O	1
F hb. stile	3/4"	3"	28 1/4"	O	1
G fb. stile	3/4"	3"	14"	O	1
H* hb. cap	1"	43 1/16"	67 3/4"	LO	1
I fb. cap	1 1/16"	43 1/16"	67 1/2"	O	1
J* hb. panels	1/2"	28 1/2"	28 3/16"	LOP	2
K* fb. panels	1/2"	28 1/2"	13 15/16"	LOP	2
L side rails	1 1/16"	6"	81 3/4"	O	2
M cleats	3/4"	3/4"	80"	O	2
N platform panels	3/4"	40"	61 1/4"	BP	2
O support	3/4"	4"	6 1/2"	O	1
P brace	3/4"	3"	12"	O	1
Q feet	3 1/2" dia.		5"	LO	4

* Cut parts marked with an * oversize. Trim to finished size according to the how-to instructions.

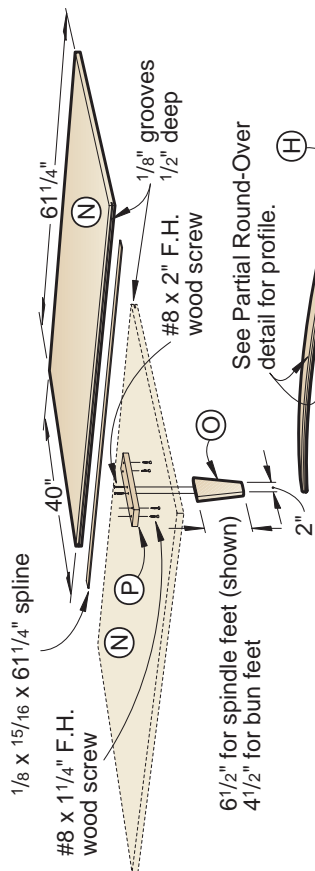
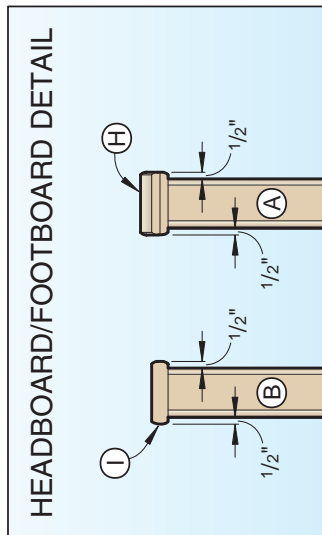
Materials Key: LO—laminated oak, LOP—laminated oak plywood, O—oak, BP—birch plywood.

Supplies: #8x1 1/4", #8x1 1/2", and #8x2" flathead wood screws; stain; clear finish.

Buying Guide

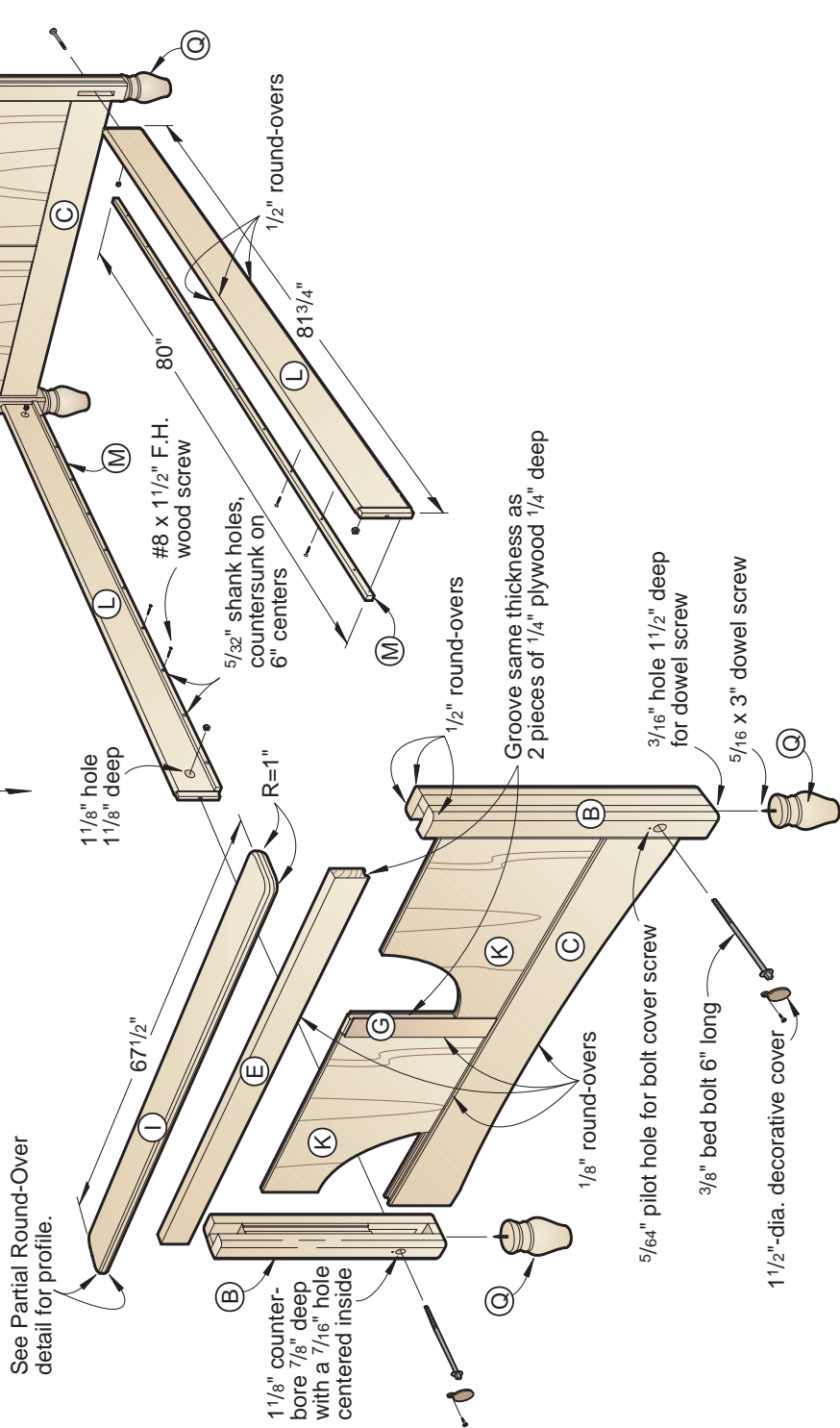
Hardware. 4–6" bed bolts, catalog no. 99277. Bed bolt wrench, catalog no. 18615, 4–bed bolt covers (with screws), catalog no. 99235. For current prices, contact Rockler Woodworking and Hardware, 4365 Willow Drive, Medina, MN 55340. Or call 800/279-4441 to order.

Turned feet. Country version, four 3 1/2" diameter by 5"-long oak bun feet, catalog #A0557DS5. For the traditional version, use four 5" diameter by 3"-long oak beaded bun feet, catalog #A0551DS. For current prices write Adams Wood Products, 974 Forest Drive, Morristown, TN 37814. Or call 423/587-2942 to order.



See Partial Round-Over detail for profile.

EXPLODED VIEW



Form sturdy legs to support the bed

1 From 1 1/16" oak (commonly called five-quarter stock), cut six headboard leg parts (A) to 3 3/16" x 38 1/4" and six footboard leg parts to 3 3/16" x 24". See the Headboard/Footboard Legs drawing at *right* for reference.

2 Lay out the notch and mortise locations on each leg piece, where dimensioned on the drawing. Remember that you're making a matching pair of headboard and footboard legs, with each pair having a left and right member. *Verify all the marked locations before cutting.*

3 Attach a wood top and fence to your drill-press table. Then, using a 3/4" Forstner bit, drill holes inside the marked mortise outlines, and square-up the mortises with a chisel. You also could cut the mortises to shape with a jig-saw.

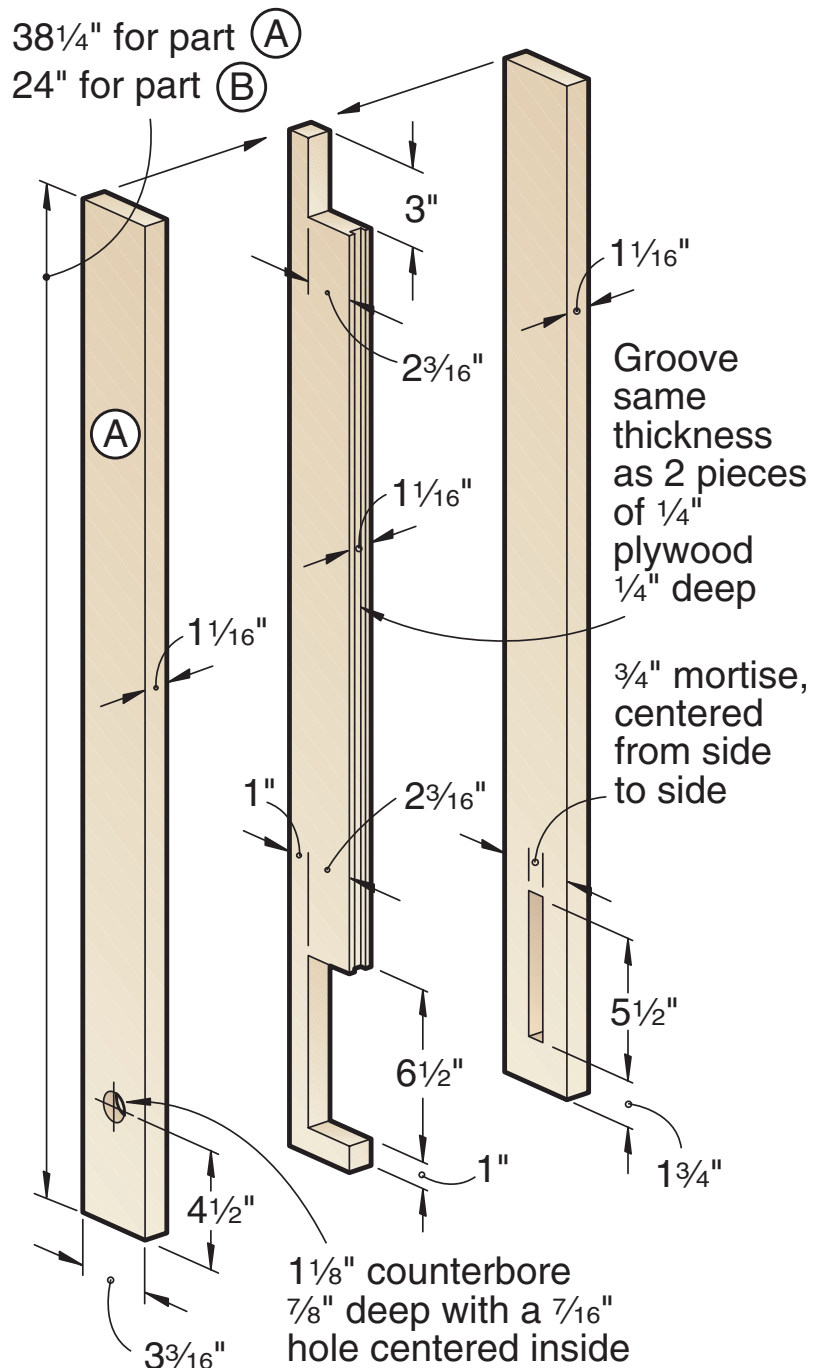
4 Cut the two notches in the center piece of each leg.

5 Mark the centerpoints, where shown on the drawing, and bore a 1 1/8" counterbore 7/8" deep. Then drill a 7/16" hole through the center of the counterbore and through the leg. Back the stock to prevent chip-out when drilling through the leg. Note that these holes are bored in the surfaces *opposite* the side rail mortises.

6 Hold together two pieces of the 1/4" oak plywood you'll be using for the headboard and footboard panels (J, K), and measure their combined thickness. (Ours measured 7/16".) Mount a dado set in your tablesaw, and cut a groove to this thickness plus 1/32" by 1/4" deep in the center section of each leg.

7 As shown in *Photo A* on *page 5*, spread an even coat of glue on both surfaces of the *middle* piece of each leg assembly. *With the edges and ends flush*, glue and clamp the pieces face-to-face to form each headboard leg (A) and each footboard leg (B). Wipe off excess glue with a damp cloth, and

HEADBOARD/FOOTBOARD LEGS



remove any glue from the notches and mortises. Double-check that the pieces didn't move out of alignment when clamping. Keeping the edges and ends flush is critical.

8 Remove the clamps, and sand the legs smooth. (We lightly sanded both ends of each leg on our disc sander to ensure flushness.)

9 Rout 1/2" round-overs along all edges (not ends) of each leg.



A Spread glue on the middle piece of each leg assembly. Then, glue and clamp the three pieces together to form each leg.



B Use the arched headboard top rail as a form to laminate two 1/2" pieces of stock against it to form the curved 1"-thick headboard top cap.

Add the solid-oak rails and stiles next

1 Cut the headboard and footboard bottom rails (C), headboard top rail (D), footboard top rail (E), headboard stile (F), and the footboard stile (G) to the sizes listed in the Bill of Materials.

2 Using the same setup used to cut the grooves in the legs, cut grooves in the rails (C, D, E) and stiles (F, G) to fit the plywood panels (J, K) later. See the Exploded View, Headboard, and Parts View drawings for groove locations.

3 Using the Parts View drawing for reference, mark the arch along the bottom edge of the footboard bottom rail (C) and along the top edge of the headboard top rail (D). Bandsaw along the outside of each marked line, then sand to the line.

4 Cut shoulders across the ends of each stile (F, G) to form a tenon to fit into the grooves in the top and bottom rails. See the Tenon detail on the Parts View for reference.

5 Rout 1/8" round-overs on the pieces (C-G), where shown on the drawings.

Cap off the headboard and footboard with style

1 Cut two pieces of 1/2" oak to 43/16x68" for the headboard cap (H).

2 Apply a piece of masking tape, and mark a centerline on the masking tape across one face of the headboard top rail (D). Then, mark a centerline across the bottom surface on what will be the top piece of the cap.

3 Clamp the top rail (D) into your workbench vise.

4 Spread a thin coat of glue on the mating surfaces of the two pieces of 1/2" stock used to form the top cap (H). With the edges and ends flush, use the top rail as a form to clamp and bend the two pieces of 1/2" stock together, aligning the marked centerline on the top rail (D) with that on the top cap (H), as shown in *Photo B*. Check for a tight fit of the top cap to the rail. Add more clamps to close any gaps. For clamping the top cap to the rail in the same configuration later, pencil a mating reference mark on each. Let the assembly stand overnight before removing the clamps.

5 Mark diagonals on the bottom end of each leg to find the center. Then, drill a 3/16" hole 1 1/2" deep centered in the bottom of each leg for securing the feet later.

6 Trim the ends of the top cap flush for a 67 3/4" finished length. Then, joint or sand the edges until smooth.

7 Cut the footboard top cap (I) to size.

8 Using the Partial Round-Over detail accompanying the Headboard drawing for reference, use a hand-held router to rout a partial round-over along the top and bottom edges of the top caps (H, I).

Be innovative: Make your own oak plywood panels

1 To make 1/2" plywood panels with two good oak veneer faces, cut four pieces of 1/4" oak plywood to 29" square for the headboard panels (J) and four pieces to 29x14 1/2"

for the footboard panels (K).

2 Brush on an even coat of contact cement on the poor side of each mating panel. Then, carefully place the panels together face-to-face, with the edges and ends flush. Use a roller or a mallet and a block of wood to ensure total contact between the two panels. Repeat for each panel.

3 Cut the laminated panels to the sizes listed in the Bill of Materials.

Assemble the headboard and footboard next

1 Dry-clamp the headboard assembly (except the curved top cap) to check the fit. With the assembly clamped together, and using the headboard cap as a guide, mark curved cutlines on the top ends of the headboard legs. Remove the clamps, separate the pieces, and bandsaw the top end of each leg to shape.

2 Glue and clamp the headboard together, checking for square. See *Photo C* for reference.

3 With an even overhang on each end and front to back, glue and clamp the headboard cap (H) to the top of the headboard. Use a damp cloth to wipe off any excess glue. Let dry overnight.

4 Repeat the process to glue and clamp the footboard together. Then, add its top cap (I).

Add the side rails and cleats

1 Cut the side rails (L) to size.

2 Using the Assembling the Frame drawing on *page 8* for reference, mark the counterbore center-points on the inside face of each side rail. Use a flat-bottomed bit to drill $1\frac{1}{8}$ " counterbores $\frac{7}{8}$ " deep on the *inside* face of each side rail. To prevent boring through the side rail, you must use a flat-bottomed bit, such as a Forstner. Test-bore a piece of scrap stock first to ensure you won't drill through the stock.

3 Using the same drawing for reference, cut rabbets across the ends of the rails so the tenons fit snug



As shown in this bird's-eye view of the dry-assembled headboard, we checked the fit of the pieces before gluing and clamping them together.

inside the mortises in the headboard and footboard legs.

4 Dry-clamp the side rails (L) into the legs in the headboard and footboard assemblies. Check for square. Chuck a brad-point bit into your portable drill. Using the previously drilled $\frac{7}{16}$ " holes in the legs as guides, drill into the ends of each side rail. Disassemble the pieces. Now, using a doweling jig to align the bit, continue drilling into the tenoned ends of the side rails until the bit reaches the $1\frac{1}{8}$ " nut-access hole. A brad-point bit here will greatly diminish the chance of bit wander.

5 Rout a $\frac{1}{2}$ " round-over on all but the bottom inside edge of the rails.

6 Cut the platform cleats (M) to size. Drill countersunk $\frac{5}{32}$ " shank holes on 6" centers through the cleats.

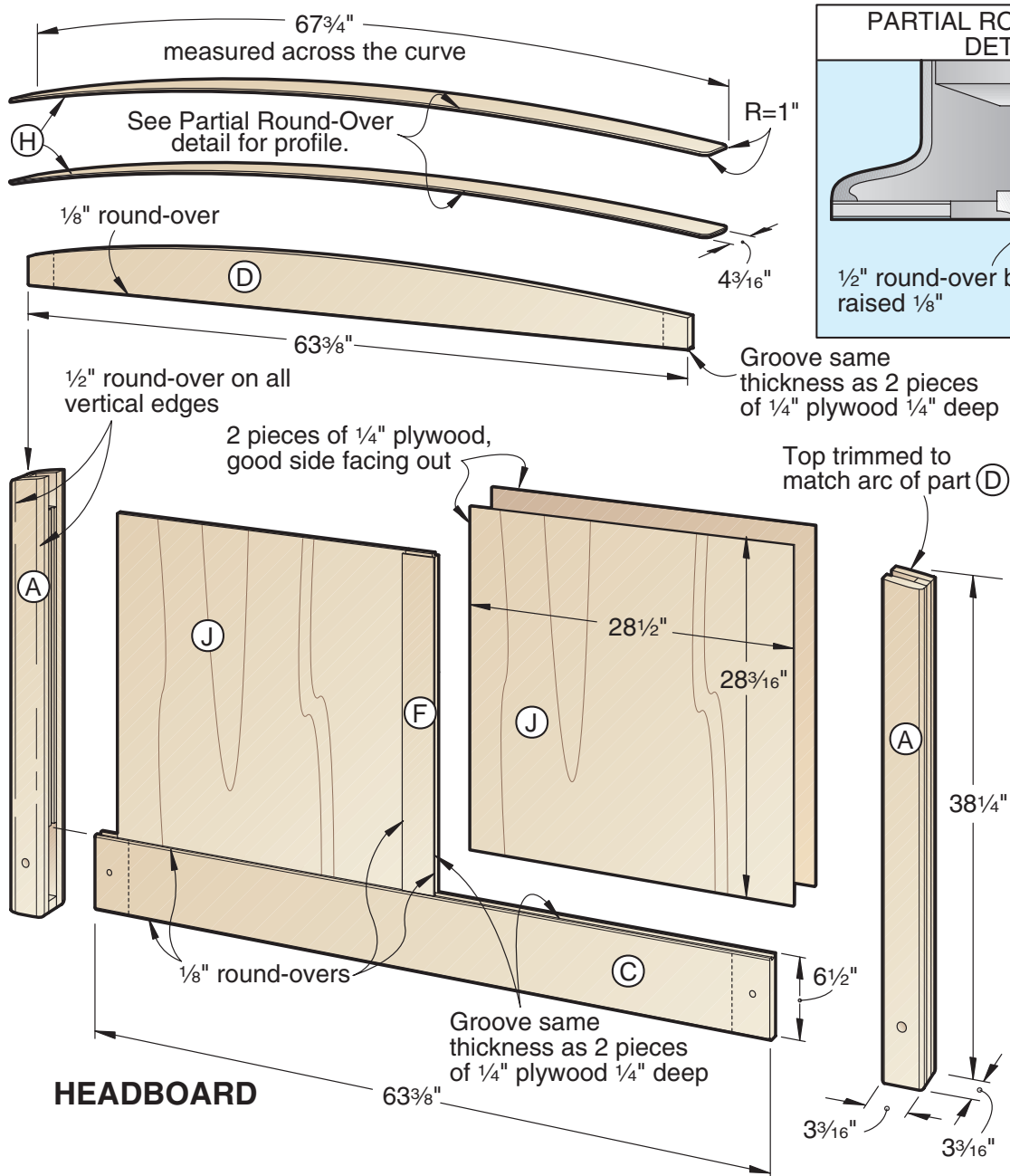
7 Glue and screw the cleats to the inside face and flush with the bottom unrouted edge of each side rail.

8 Reinstall the tenoned side rails (if

removed when drilling the $\frac{7}{16}$ " bolt holes) into the mortised legs. Insert the mounting bolts, and place a square (not a hexhead) $\frac{1}{2}$ " nut inside the $1\frac{1}{8}$ " counterbore where shown in the Assembling the Frame drawing. Tighten the bed bolts until the bed frame is wobble free. See the Buying Guide for our source of hardware.

9 Measure the opening, and cut the platform panels (N) to size from $\frac{3}{4}$ " plywood. Lower the panels onto the cleats to check the fit. They should fit without scraping the bottom rails (C). Then rout a $\frac{1}{8}$ " groove $\frac{1}{2}$ " deep along the mating edge of each panel. From $\frac{1}{8}$ " hardboard, cut a spline to join the two panels, but *do not* glue it in place.

10 To form the platform support (O, P), cut the parts and screw the support (O) to the brace (P). As noted on the Exploded View drawing, the length of the support (O) depends upon the height of the feet (Q) used.



It's time to add the elegant turned feet

1 To get the feet (Q) for the bed, you can either turn your own using the pattern on *page 11* or order preturned feet from the source listed in the Buying Guide. If you turn your own, laminate stock to form four blanks, each measuring 4¹/₂" square (3¹/₂" after turning) by 5" long. Then refer to the full-size pattern on *page 11* when turning the feet to shape.

2 If you turn your own feet, drill a

hole centered in the top of each, and drive a dowel screw into each hole. (The preturned feet come with a dowel screw installed.)

3 Screw the feet to the bottom of the headboard and footboard legs.

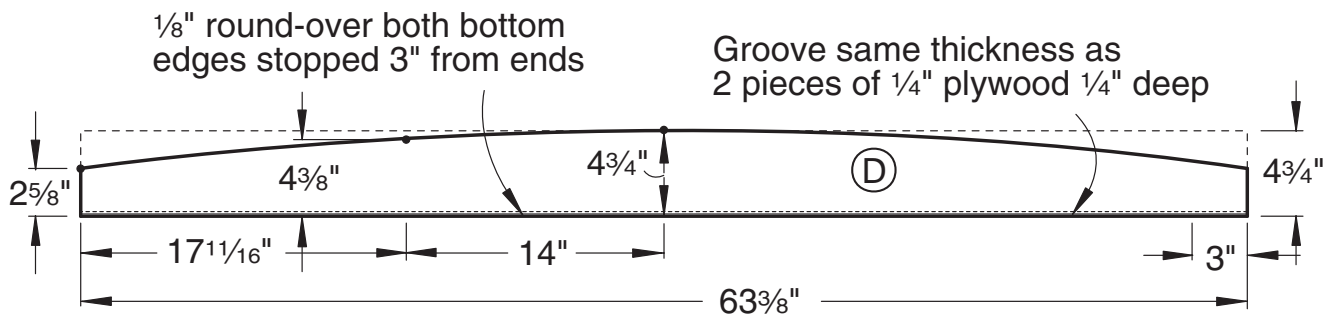
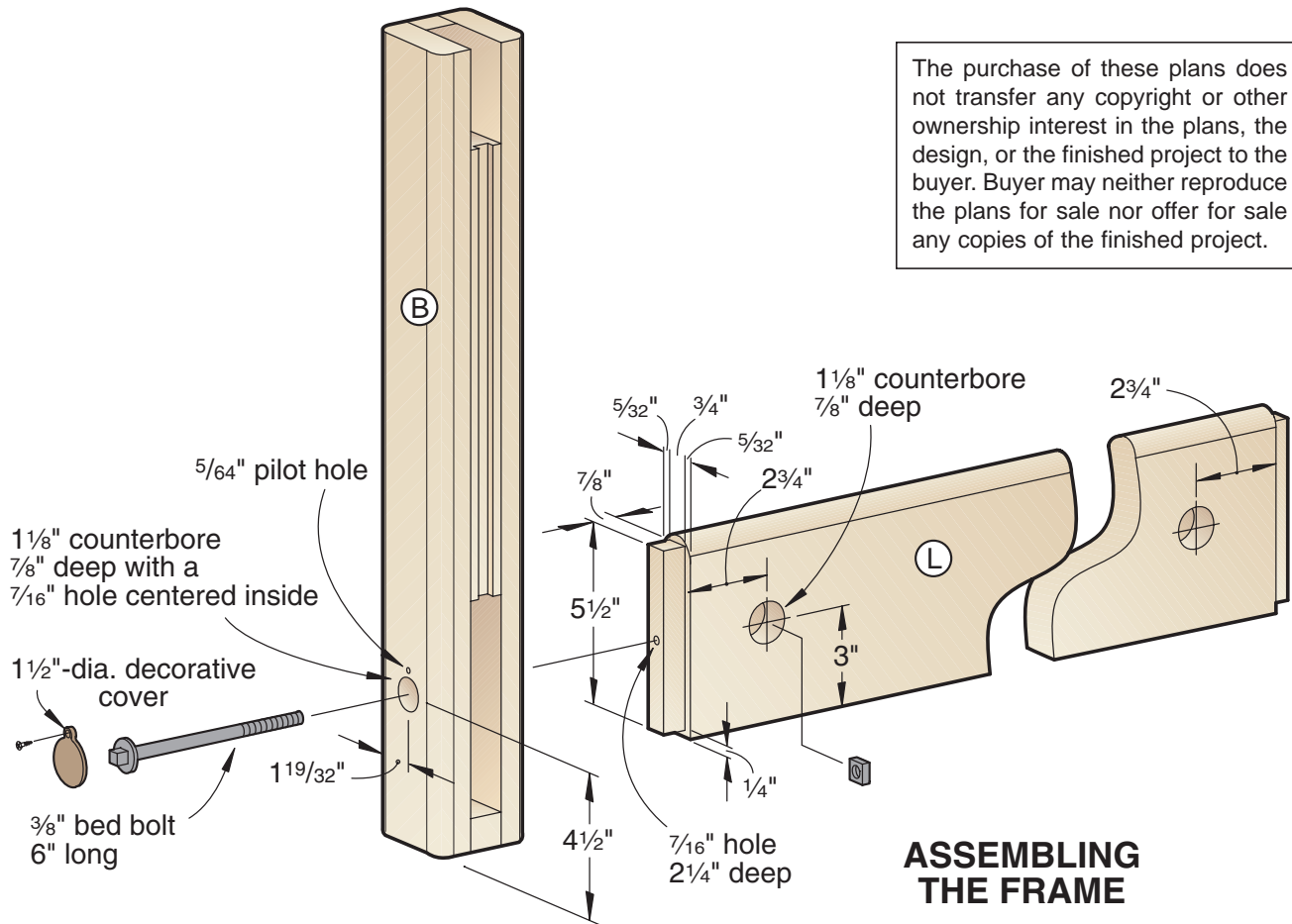
Beautify your bed with the right finish

1 Use the bed bolts to secure the rails to the headboard and footboard, as shown in the drawing on *page 8*. Then drill 5/64" pilot holes, and drive screws to secure the dec-

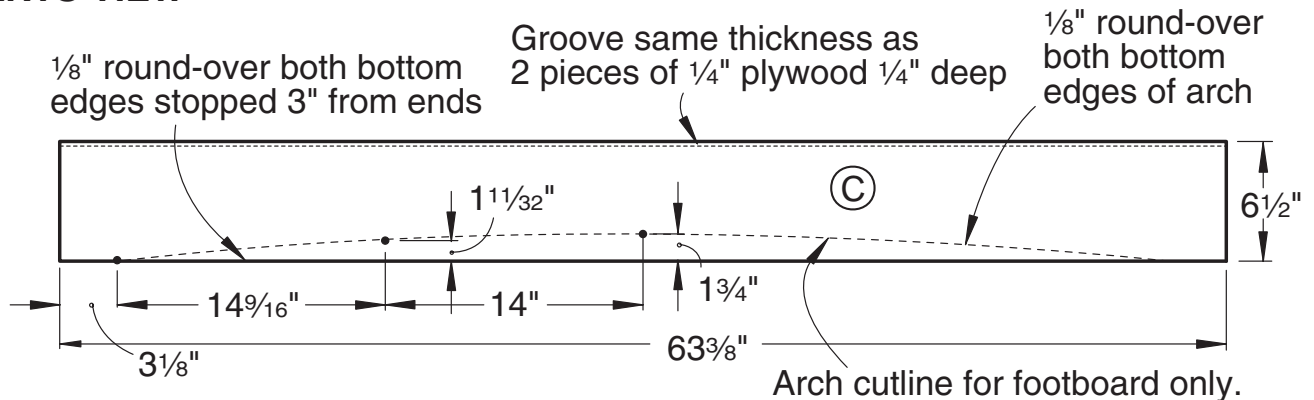
orative covers to hide the bed bolts. Secure the support (O) to the bottom panel. ♣

Written by Marlen Kemmet
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Graphic Design: Jamie Downing
Illustrations: Roxanne LeMoine; Lorna Johnson
Photographs: Baldwin Studio; Hetherington Studio
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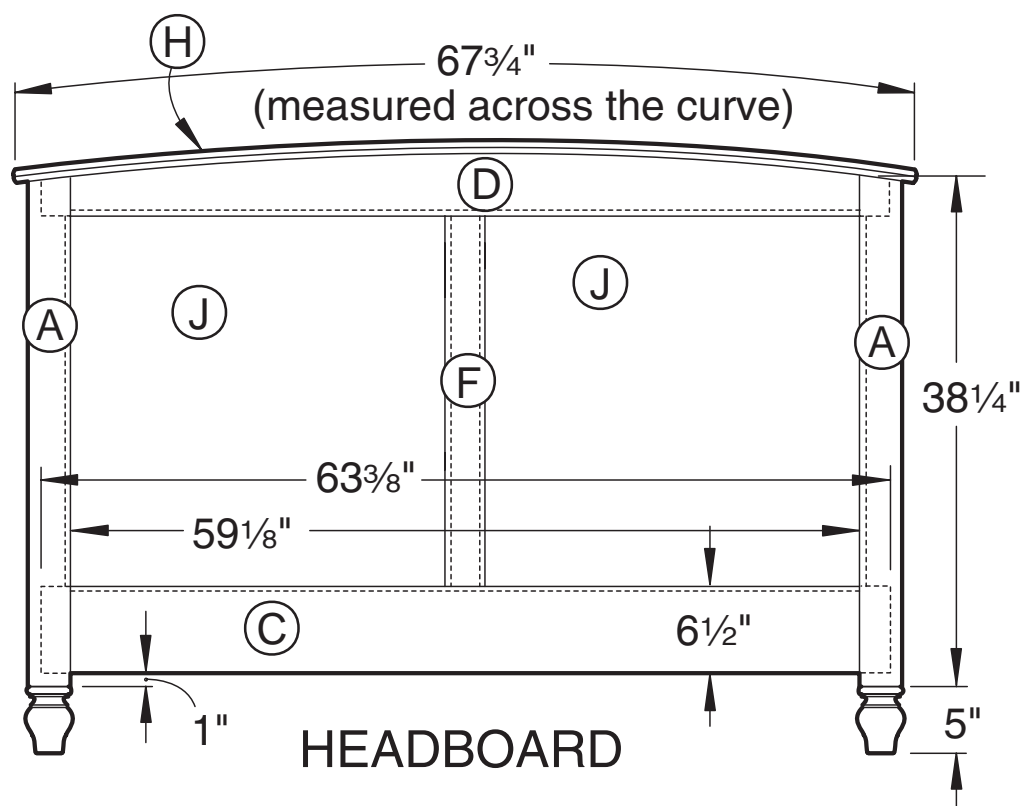
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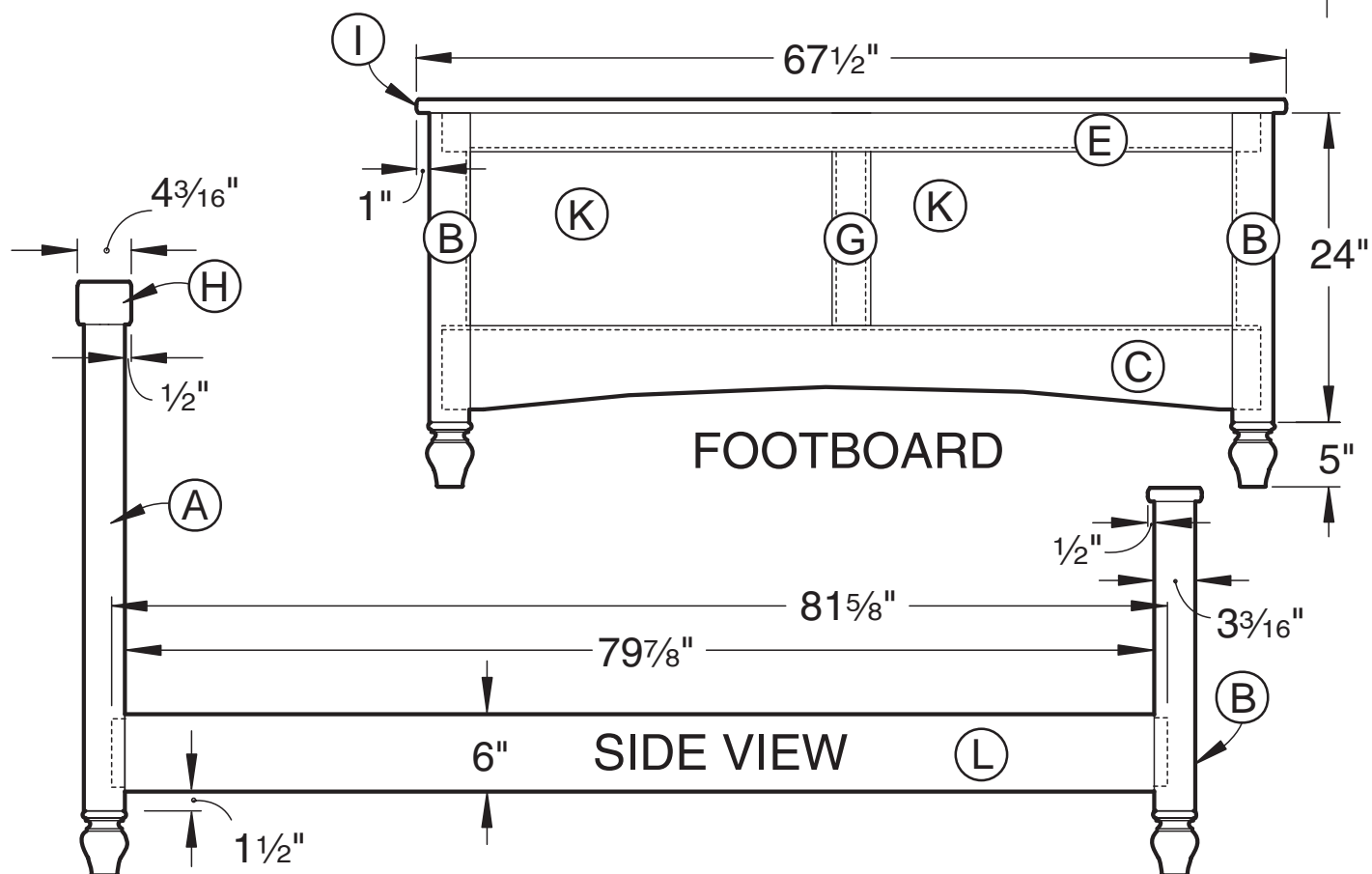
PARTS VIEW



PARTS VIEW



HEADBOARD

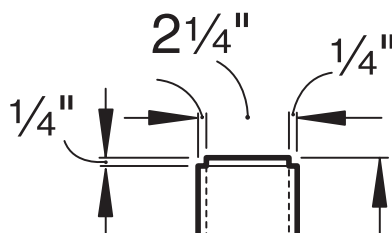
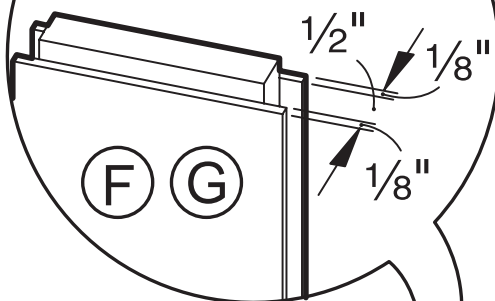


FOOTBOARD

SIDE VIEW

PARTS VIEW

TENON DETAIL



Groove same
thickness as
2 pieces of
1/4" plywood
1/4" deep

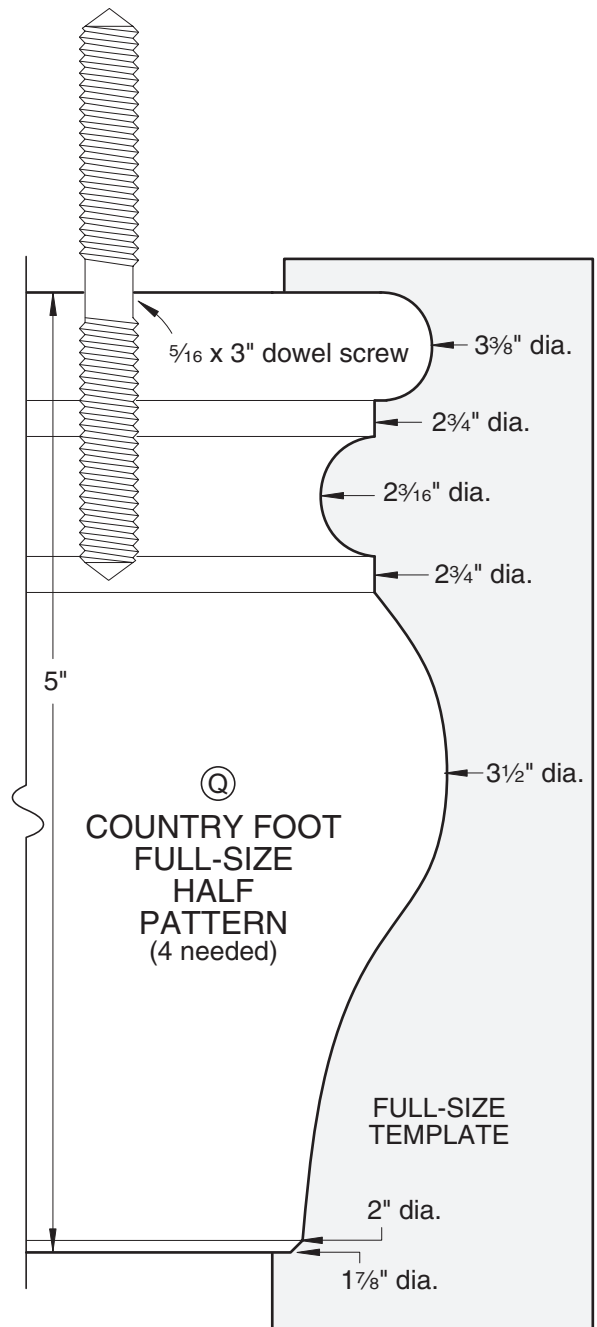
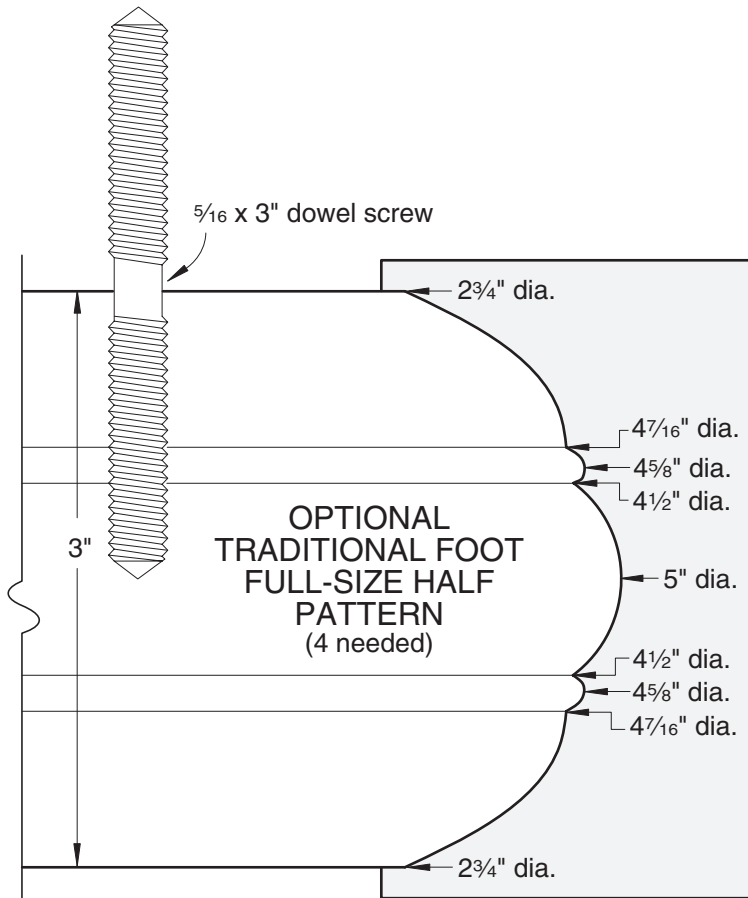
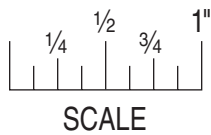
1/8" round-overs

28 1/4" for
part (F)
14" for
part (G)

HEADBOARD/
FOOTBOARD
STILE

(F)
(G)

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