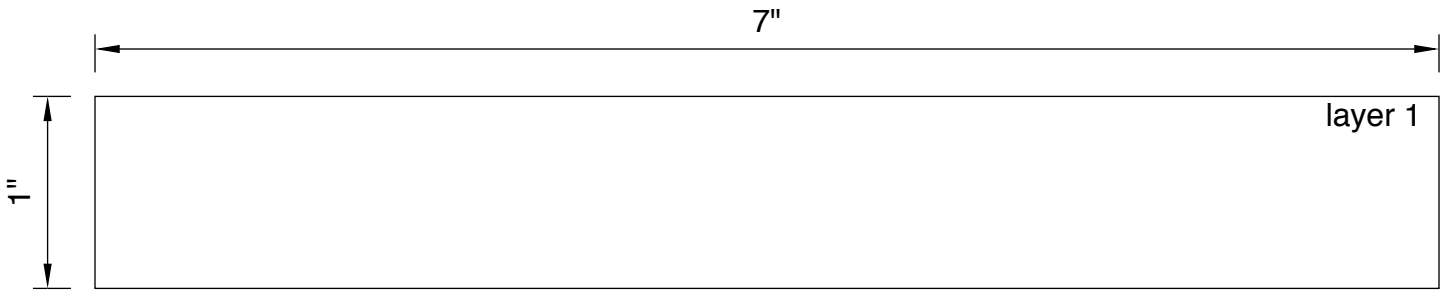
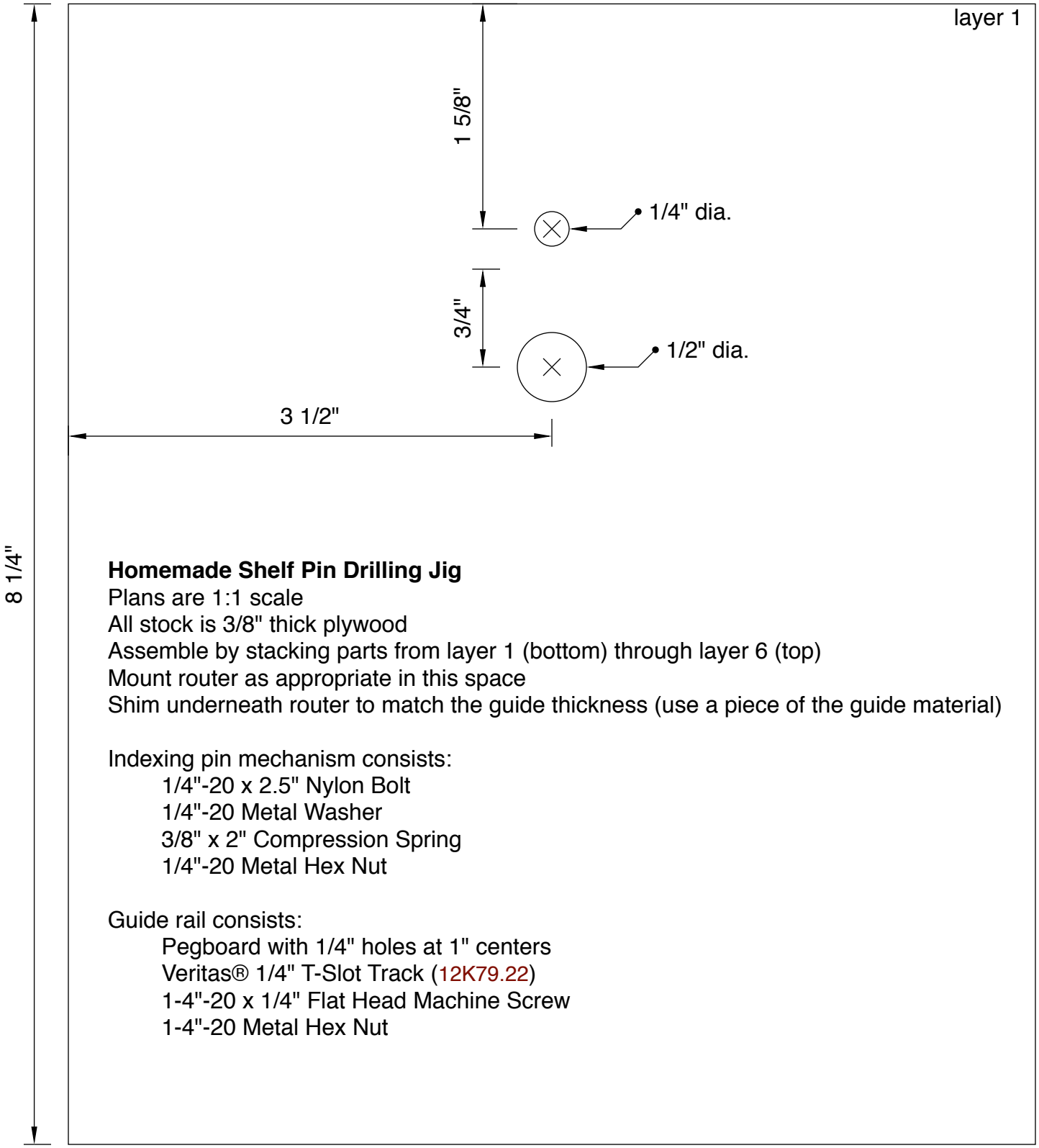
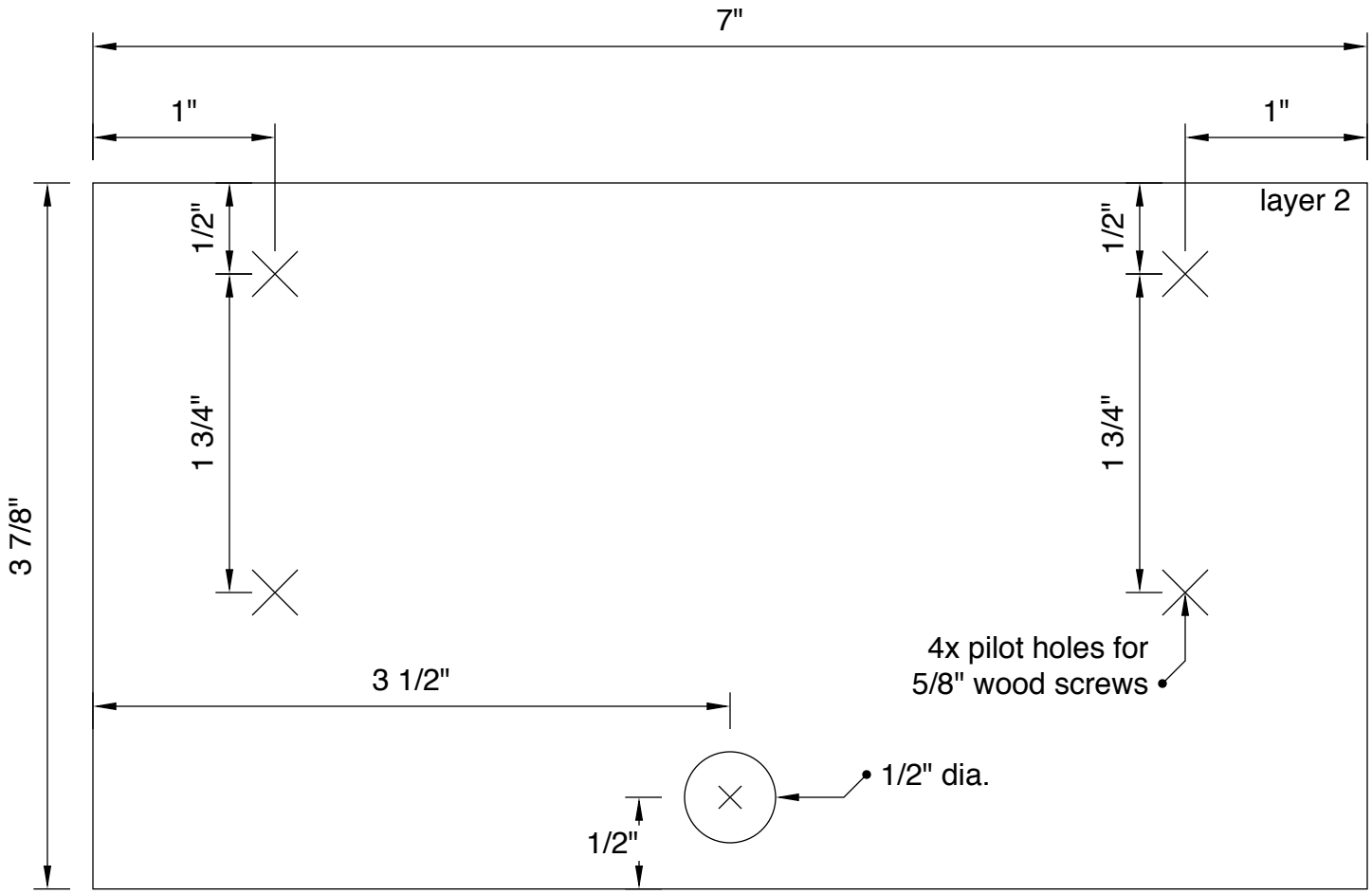


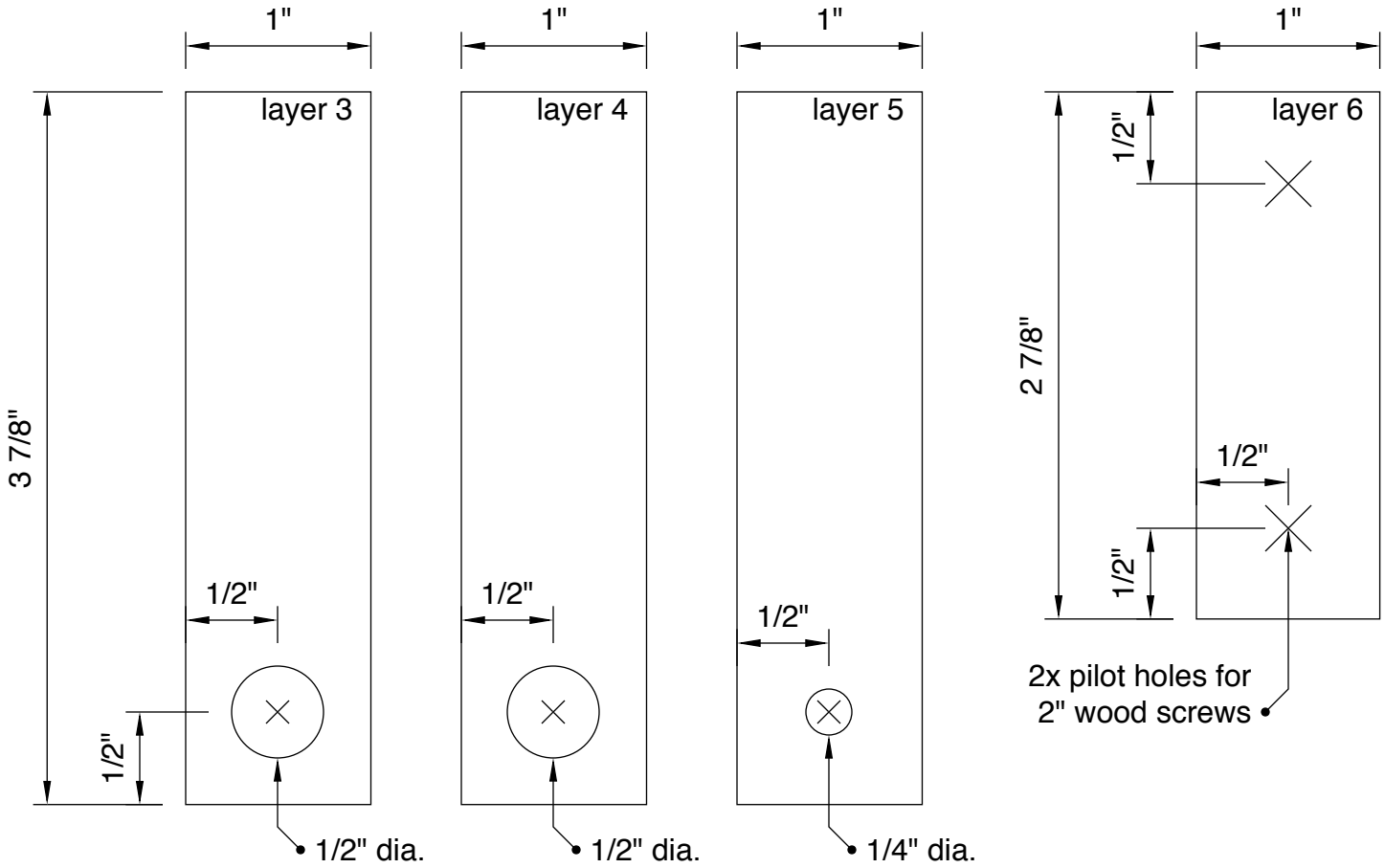



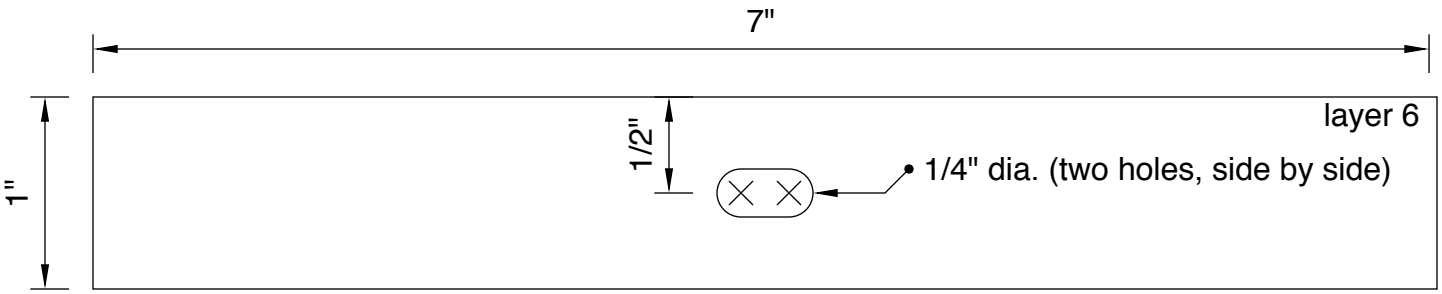

**Homemade Shelf Pin Drilling Jig**
Plans are 1:1 scale
All stock is 3/8" thick plywood
Assemble by stacking parts from layer 1 (bottom) through layer 6 (top)
Mount router as appropriate in this space
Shim underneath router to match the guide thickness (use a piece of the guide material)

Indexing pin mechanism consists:
- 1/4"-20 x 2.5" Nylon Bolt
- 1/4"-20 Metal Washer
- 3/8" x 2" Compression Spring
- 1/4"-20 Metal Hex Nut

Guide rail consists:
- Pegboard with 1/4" holes at 1" centers
- Veritas® 1/4" T-Slot Track (12K79.22)
- 1-4"-20 x 1/4" Flat Head Machine Screw
- 1-4"-20 Metal Hex Nut


7"
1"
1"
layer 2
1/2"
1/2"
1 3/4"
1 3/4"
3 7/8"
4x pilot holes for
5/8" wood screws
3 1/2"
1/2" dia.
1/2"


1"
1"
1"
1"
layer 3
layer 4
layer 5
layer 6
1/2"
2 7/8"
3 7/8"
1/2"
1/2"
1/2"
1/2"
1/2"
2x pilot holes for
2" wood screws
1/2"
1/2" dia.
1/2" dia.
1/4" dia.


7"
1"
1/2"
layer 6
1/4" dia. (two holes, side by side)