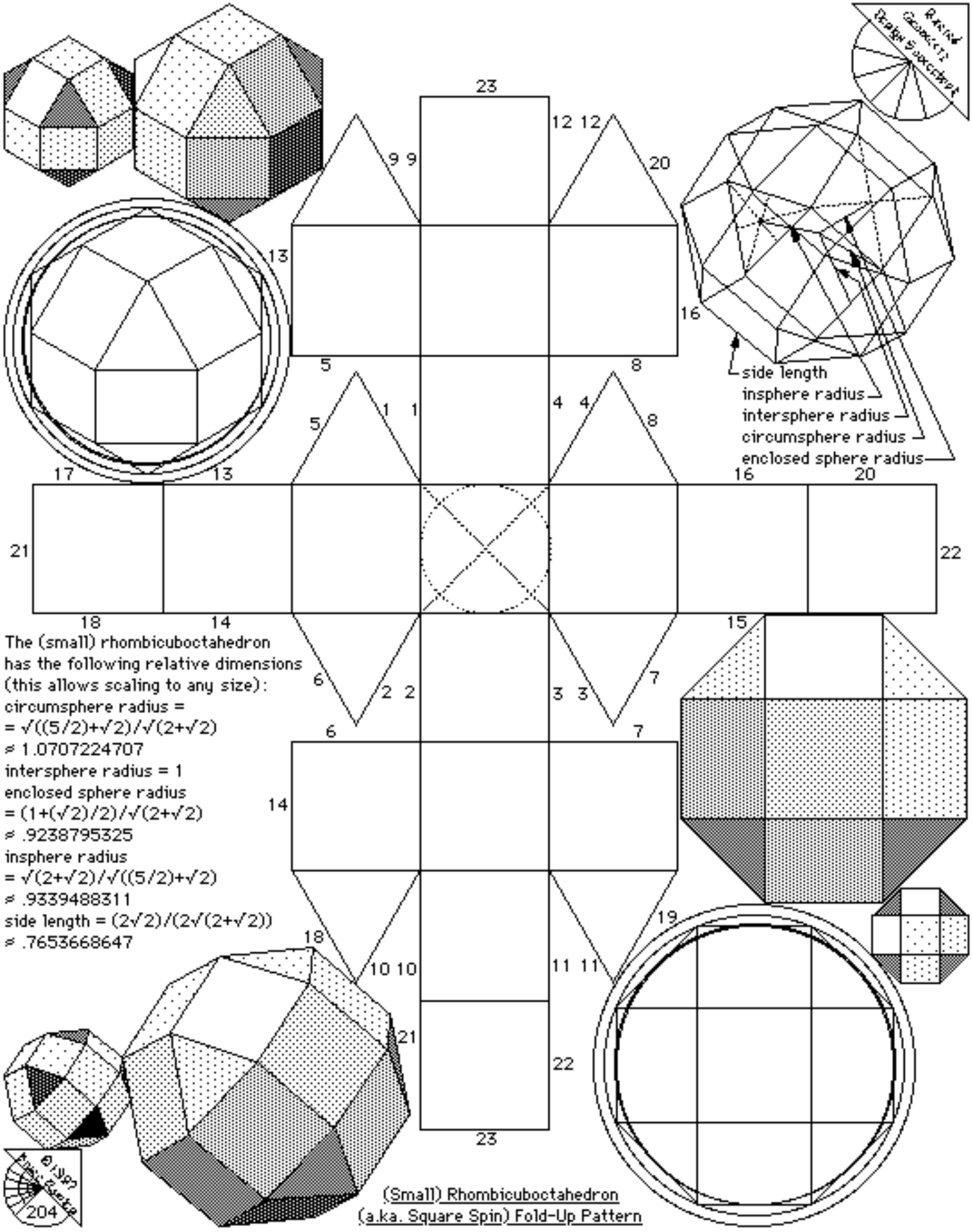

The (small) rhombicuboctahedron has the following relative dimensions (this allows scaling to any size):

circumsphere radius =
= $\sqrt{((5/2)+\sqrt{2})/\sqrt{(2+\sqrt{2})}$
≈ 1.0707224707

intersphere radius = 1

enclosed sphere radius
= $(1+(\sqrt{2})/2)/\sqrt{(2+\sqrt{2})}$
≈ .9238795325

insphere radius
= $\sqrt{(2+\sqrt{2})/\sqrt{((5/2)+\sqrt{2})}$
≈ .9339488311

side length = $(2\sqrt{2})/(2\sqrt{(2+\sqrt{2})})$
≈ .7653668647

(Small) Rhombicuboctahedron
(a.k.a. Square Spin) Fold-Up Pattern