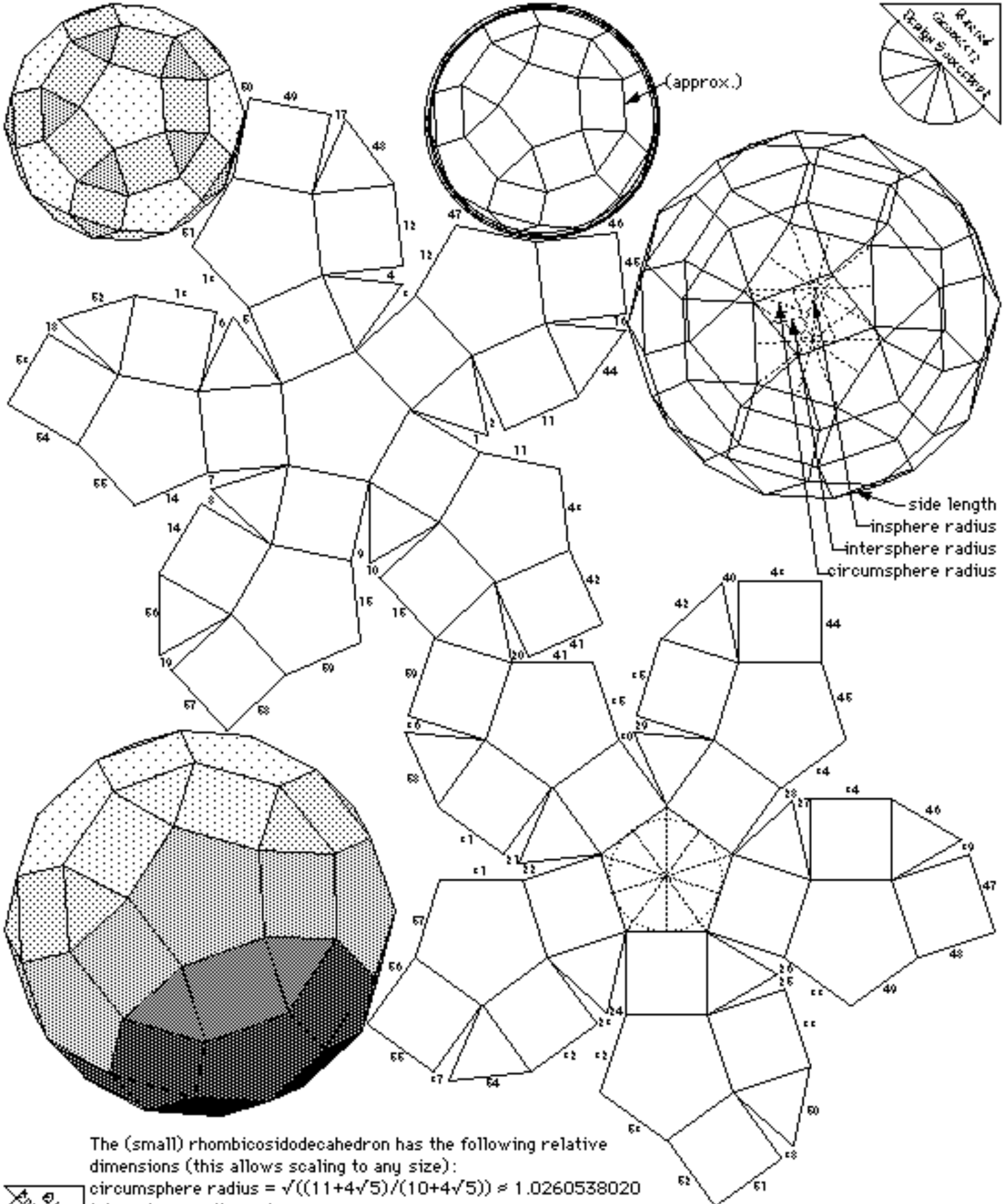

The (small) rhombicosidodecahedron has the following relative dimensions (this allows scaling to any size):

circumsphere radius = $\sqrt{((11+4\sqrt{5})/(10+4\sqrt{5}))} \approx 1.0260538020$

intersphere radius = 1

insphere radius = $\sqrt{((10+4\sqrt{5})/(11+4\sqrt{5}))} \approx .9746077624$

side length = $2/\sqrt{(10+4\sqrt{5})} \approx .4595058411$

(Small) Rhombicosidodecahedron
Fold-Up Pattern