Works perfect but only for component #1

How to do this on component #3 as shown?
Tool violates hole feature
Only way of catching this that I'm aware of is by observation or with verification to model surfaces
This "works" but as you can see the thickness needs to be defined as (diameter of tool/2)-depth. A classic "powermill doesn't do that sort of thing, so here is a work around to add complexity"
machines correctly with a square bottom end mill
I find this method to be more efficient than creating features with chamfers. If holes have chamfers on them I will have this toolpath go down into holes. However speeds and feed may need changed because of the relatively small movement. So I will make a separate toolpath for hole chamfers then append into similar toolpath that did outside chamfers.

If it is a 3D chamfer than it likely transitions into other 3D surfaces so chamfer surfaces are including in standard 3D milling strategies. Worst case I create a boundary if wanting to do 3D chamfers only.