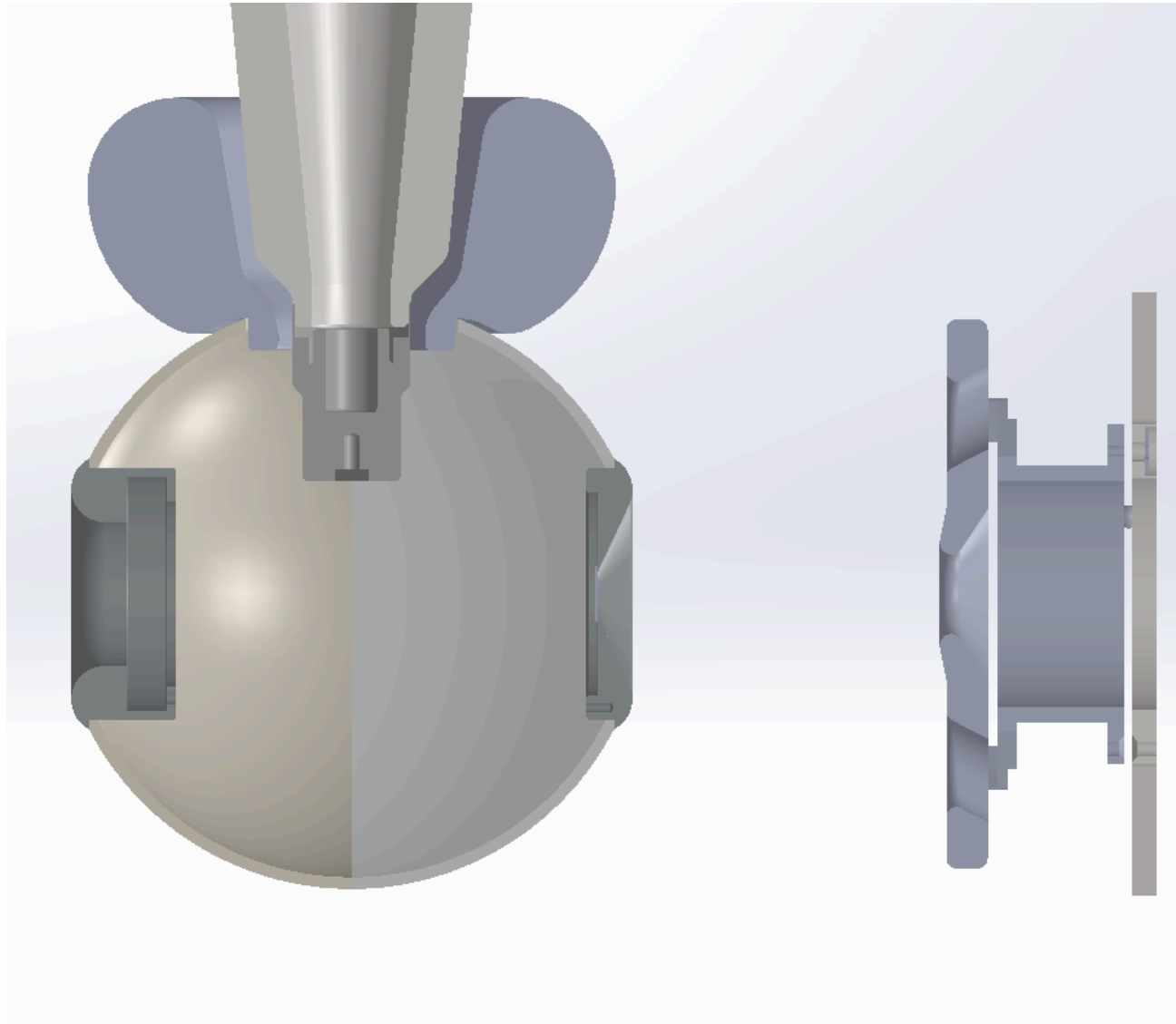


Summary of John and Yan's work on the
optimized shed for the R30 inverted
insulators

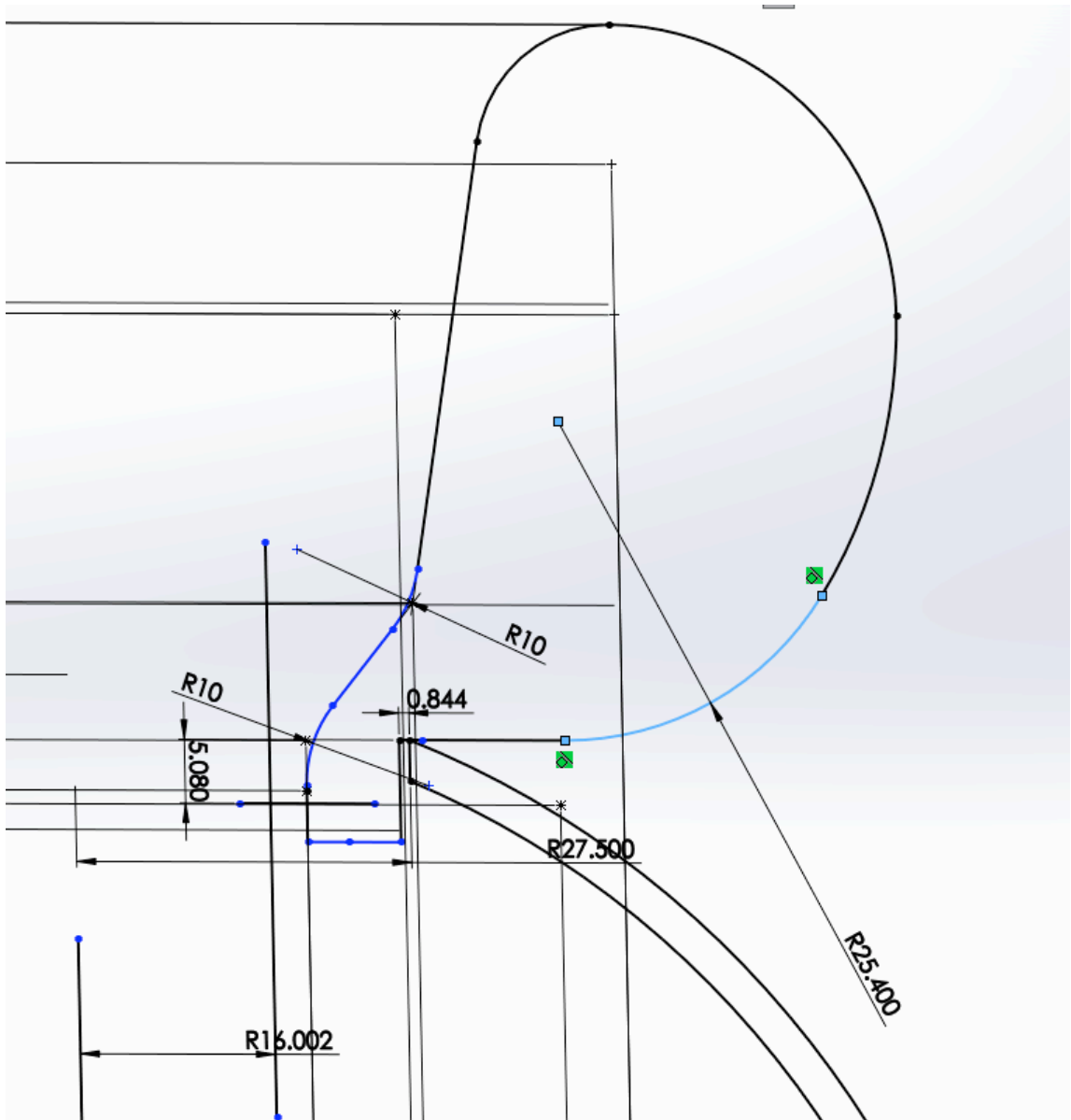
January 26 2016

John's design of Yan's optimized shed for R30 inverted insulator

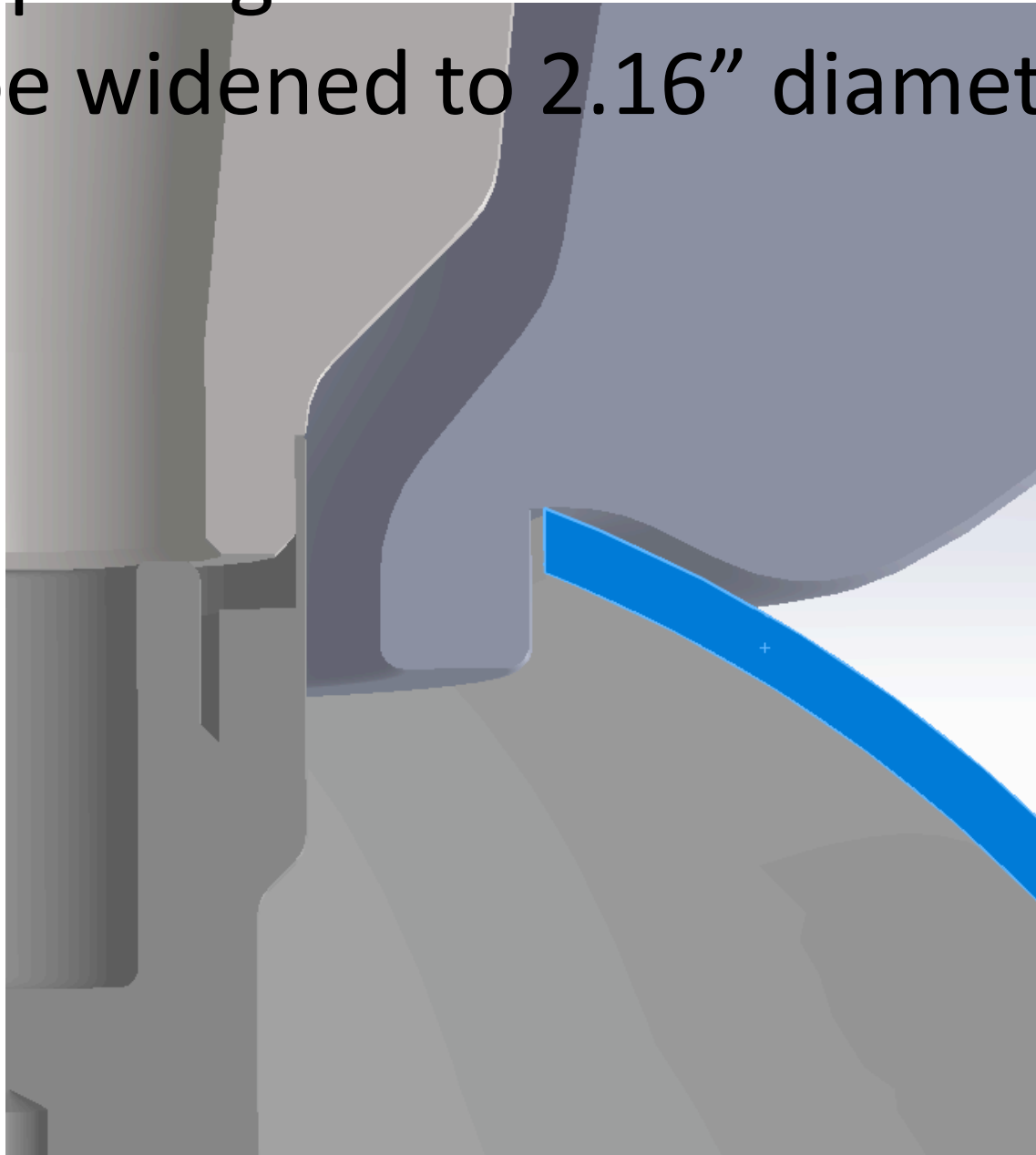


Technical drawing of a mechanical part showing a cross-section. The drawing includes the following dimensions and features:

- Dimensions:**
 - 5.080 (vertical distance)
 - 0.844 (horizontal distance)
 - R16.002 (radius of the bottom-left corner)
 - R27.500 (radius of the bottom-right corner)
 - R25.400 (radius of the large outer arc)
- Curves:**
 - A large outer arc with radius $R25.400$.
 - An inner arc with radius $R10$ (labeled twice).
 - A blue curve segment connecting the inner arc to the bottom-right corner.
- Construction:**
 - Horizontal and vertical centerlines.
 - Construction lines for the arcs and dimensions.
 - Blue dots and lines indicating specific points and segments.
 - Green squares and crosses marking key intersection points.



The opening of the ball cathode has to be widened to 2.16" diameter



Three holes at 120 deg to hold it



Hog out option to reduce weight, Yan's preliminary simulations show no major changes in field, but Yan will make graphs of potential along ceramic

