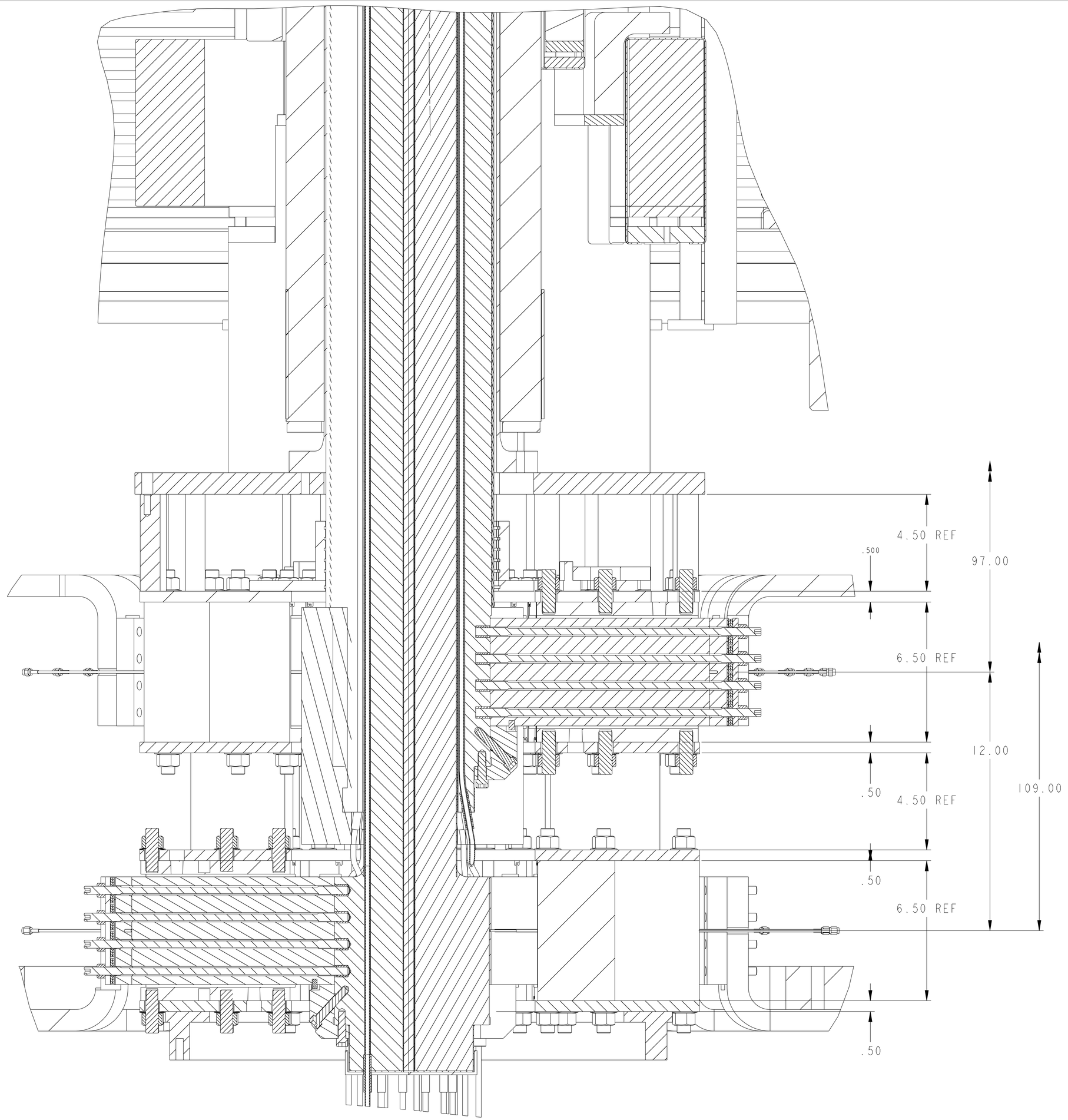

TF CORE BOTTOM