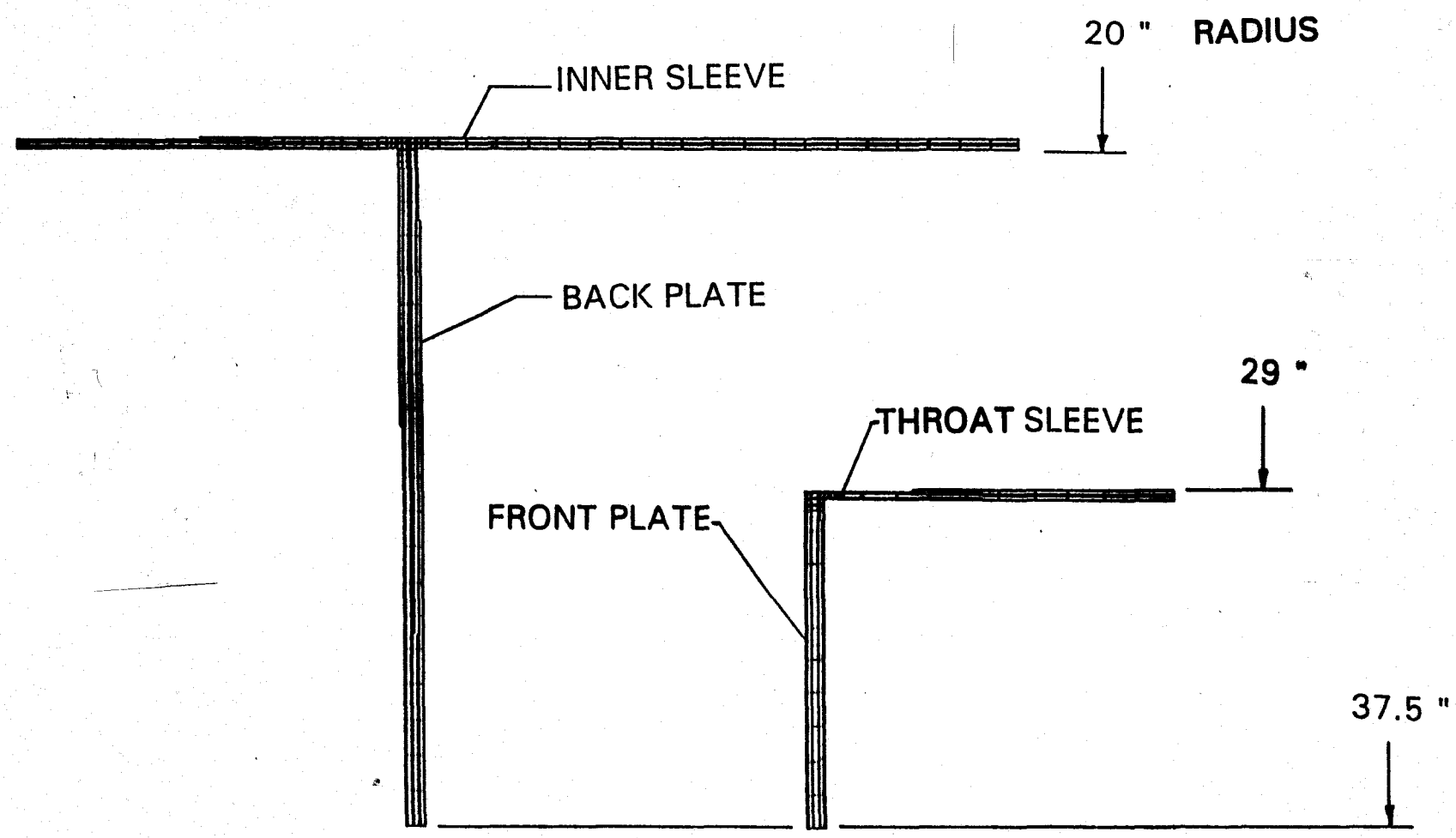FINITE ELEMENT MODEL: EXISTING DESIGN