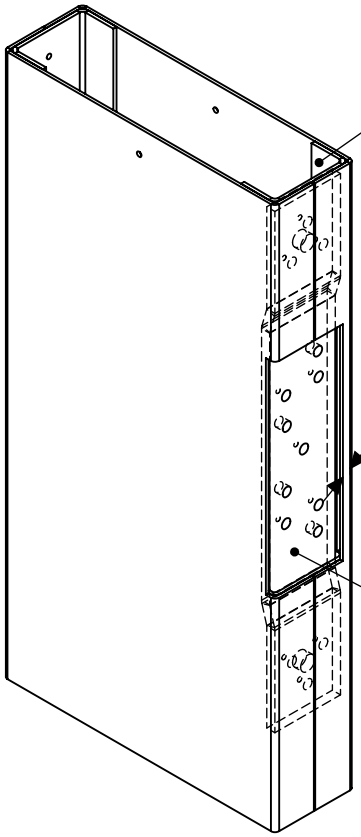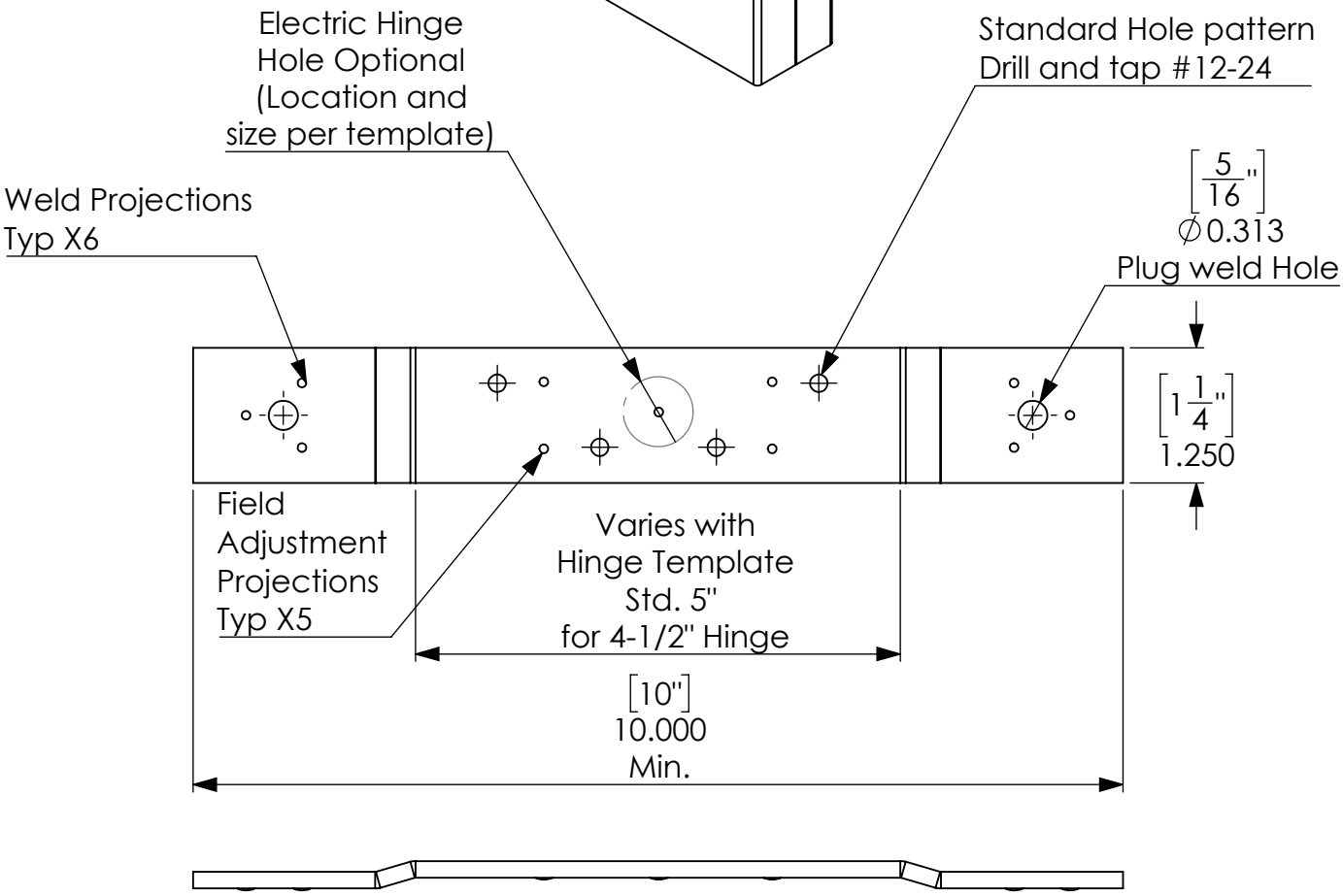Hinge Reinforcements