

Figure 3. Stress-Velocity Curves. A shock in Material "A" with state  $(P_1, u_1)$  reflects at an interface with material "B" to produce the common state,  $(P_2, u_2)$ . The curves A' and A are the same when entropy changes can be neglected.

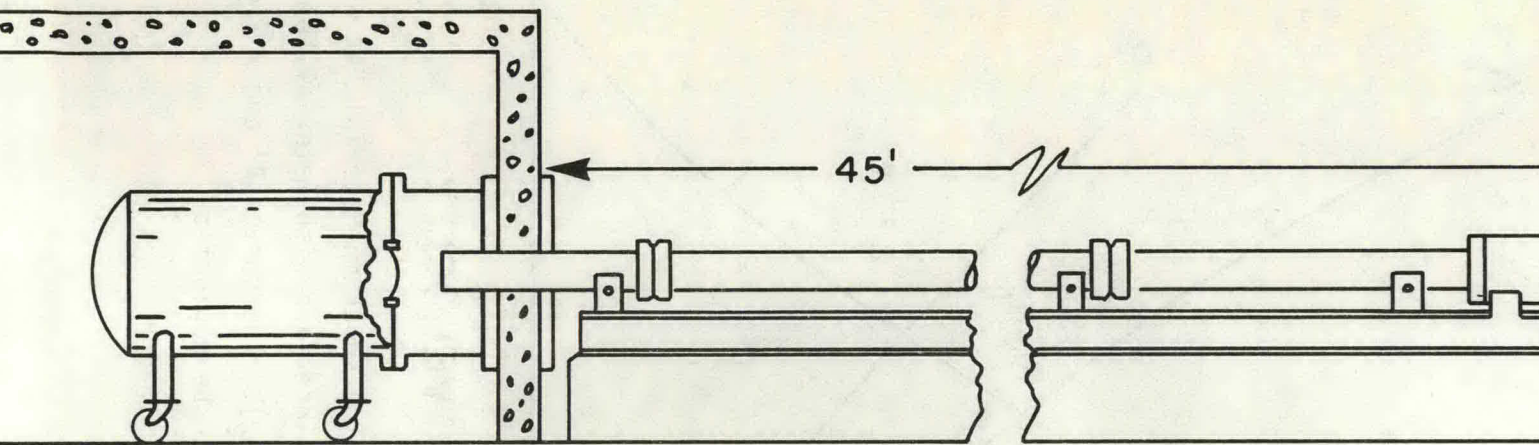


Figure 4. Sketch of WSU Gas Gun.<sup>14</sup> The entire gun slides freely to absorb recoil. The target is mounted rigidly to the wall of the muzzle room. The catcher tank prevents damage to the muzzle room and substantially reduces noise.