

## FIRING POSITIONS - TANKS



Access Trail to Defilade



Blast Mat and Stone Rip-Rap

**Design:** Defilade positions are designed to include hull-down and turret-down positions for the M60 tank, M1 tank, and Bradley Fighting Vehicle (BFV). Each defilade position needs to be adjusted in accordance to site-specific conditions in order to provide line-of-sight to the target. The slope into the defilade position should be 2-3 percent. Refer to the Civil Details in the Appendix of this document, which shows the dimensions used in the design of defilade positions. There are two basic designs: one design with a level hull-down and turret-down position and one design with a gradual slope between these two positions. The area of the defilade subjected to the muzzle blast should be protected with stone rip-rap and a rubber tire blast mat. In addition to constructed positions, natural defilade positions should be obtained by taking advantage of the terrain's characteristics, such as a drop in the trail or a stream crossing. Dummy defilade positions should be provided to facilitate training.

**Concrete Access Ramps:** Intensive training and maneuvering can cause major maintenance problems on access ramps, particularly at hull-down firing positions, turret-down defilade positions, and tank trail intersections. To prevent access ramp surfaces from being displaced during quick stops and to minimize maintenance on heavily used ranges, ramps are to be constructed with reinforced concrete surfaces.