

## CFAD Bedford Blastwall

Department of National Defence



### Description

On behalf of the Department of National Defence (DND), Meco provided three conceptual designs; an anchored, cantilever and geotextile options for the replacement of three deteriorated existing exterior blastwalls and Class D cost estimates for each option.

Final design consisted of three geotextile wrapped earthen barricades and an interior blastwall of reinforced concrete. All walls were designed to resist blast wave and fragment loading. Final design package included drawings, cost estimates, specifications and tender documents.

Construction administration and management included; bid evaluation, construction meetings, site visits, shop drawing verification, and as-built and record drawing preparation.

**Comments on Budget/Schedule Difficulties:** The change in consultant cost was a result of re-design after preliminary engineering from a reinforced concrete wall to a geotextile wall. The redesign was required due to a change in design criteria by DND

**Responsibility on Project:** Mitchelmore Engineering Company was responsible for conceptual design and cost estimates, schematic design of three exterior geotextile wrapped earthen blastwall barricades and a reinforced concrete internal blastwall barricade, and construction administration.

**Relevance of Project:** This project includes several aspects of engineering that fall under the PWGSC Standing Offer; civil, structural and construction engineering.