

<i>Project Title</i> SPR-3(072) Strength and Deformation of Mechanically Stabilized Earth (MSE) Walls at Working Loads and Failure		<i>Agmt./Task No.</i> SPR-3(072)	<i>Item No.</i>	<i>Agency Bgt. No.</i>
<i>Research Agency</i> Royal Military College of Canada		<i>Start Date</i> 12/1/99	<i>Estimated Completion</i> 04/30/04	<i>Revised Completion</i> 12/31/08
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<i>Funding Source</i> WA, NY, ID, CA, WY, ND, MN, OR, AZ, AK		<i>Schedule Status</i> <input type="checkbox"/> On schedule <input type="checkbox"/> Ahead of schedule <input checked="" type="checkbox"/> On revised schedule <input type="checkbox"/> Behind schedule		
<i>Research Area</i>				
<i>Original Estimated Cost</i> \$360,104	<i>Revised Cost</i> \$630,000	<i>% Funds Expended</i> 60%	<i>% Work Completed</i> 75%	
<i>Objective</i> Develop a design procedure for the internal stability of MSE walls, especially those reinforced with fabrics.				

Project Progress:

Phases 1, 2, and 3 have been completed. A large database of full-scale geosynthetic walls (16 fully instrumented, full-scale geosynthetic walls and 14 walls with limited measurements) and 24 fully instrumented, full-scale steel reinforced wall sections were utilized to develop a new design methodology based on working stress principles, termed the K-Stiffness Method. This simplified design method has been described in three published papers and numerous journals, the most recent report can be found at: <http://www.wsdot.wa.gov/biz/mats/Geotech/>.

Phase 5 has begun and Dr. Bathurst is searching for proper fill material. Construction of the new walls will most likely start in the spring of 2006.

New Period Proposed Activity:

Locate and purchase proper non-select fill material and begin construction.