Project Title		Agmt./Task No.	Item No.	Agency Bgt. No.
SPR-3(072) Strength and Deformation of Mechanically Stabilized Earth (MSE) Walls at Working Loads and Failure		SPR-3(072)		
Research Agency		Start Date	Estimated Completion	Revised Completion
Royal Military College of Canada		12/1/99	04/30/04	12/31/07
Principal Investigator(s)		Technical Contact		
Richard Bathurst		Tony Allen (360) 709-5450		
WSDOT Program Manager		FHWA or Other Technical Contact		
Kim Willoughby (360) 705-7978		Liana Liu (360) 753-9556		
Funding Source		Schedule Status		
WA, NY, ID, CA, WY, ND, MN, OR, AZ, AK		On schedule On revised schedule		of schedule schedule
Research Area		I		
Original Estimated Cost	Revised Cost	% Funds Expe	nded %	Work Completed
\$360,104	\$550,000	67%		75%
Objective				
Objective Develop a design procedur	re for the internal stab	ility of MSE wall	ls, especially those	e reinforce
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 was 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, the most recent report can be found at: http://www.wsdot.wa.gov/biz/mats/Geotech/.

New Period Proposed Activity:

The contract for the first series of testing using marginal soils for backfill (Phase 4) will be initiated this quarter, pending funding.

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