McAlpine Lock Replacement Project

Project Summary and Status of Construction

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Project Site
Welcome To McAlpine Locks and Dam

Vision Statement
The world’s premier engineering organization. Trained and ready to provide support anytime, anyplace. A full spectrum Engineer Force of high quality. Dedicated soldiers and civilians:
- Trained and ready;
- A vital part of the Army;
- Dedicated to public service;
- An Army values-based organization;

One Corps Serving the Army And the Nation
Project Scope
Downstream Approach
Project Scope - continued
Status of Construction
Construction Dates

Finish South Wall RCC  Done  Aug. 05
Start Control Buildings  Sept. 05
Finish North Wall RCC  Oct. 05
Open New Bridge to Traffic  Nov. 05
Start Setting Miter Gates  Dec. 05
Finish Mass Concrete  Feb. 06
Rewater Cofferdam  June 07
Contract Completion  April 08
Scheduled Completion  June 08
Construction Issue
Monolith Foundations
Conventional Concrete and RCC lock walls

- Founded on rock
- Different founding elevations due to culverts
Two Rock Strength Parameters are Affected:

Shear Strength Along the Offset Seam & Bearing Capacity of Rock Mass