

MEMORANDUM

TO: Governing Board Members

FROM: Alex Damian, Assistant Deputy Executive Director, Operations and Maintenance

DATE: May 12, 2011

SUBJECT: 4600002443 -- C-24 Canal Bank Repairs, St. Lucie County, Florida

Background: The C-24 Canal Repairs project is located in St. Lucie County between Shinn Road (west end of the project) and the Florida East Coast Railroad line (east end of the project). The project extends over about 9,900 feet. Routine inspections have identified that the south bank of the C-24 Canal has become severely eroded caused by heavy rain, rapid drawdown of the downstream structure, and high flow velocities under extreme hydrologic conditions.

The objective of the proposed repairs is to stabilize the south bank of the C-24 Canal to withstand extreme hydrologic conditions. Not implementing these repairs would impede flood protection in the area from the blockage in the canal due to shoaling from the bank erosion. The Everglades Restoration and Capital Projects Resource Area will oversee the project funded by the Operations and Maintenance Capital Program.

How this helps meet the District's 10-Year Strategic Plan: The C-24 Canal Repairs Project is included in the FY11 Annual Work Plan and 10-year Strategic Plan. This project helps the Operation and Maintenance Program strategic goal to "Refurbish infrastructure to design conditions".

Funding Source: The lowest responsive and responsible bidder is Guettler Brothers Construction, LLC with a total amount of \$3,608,275.00, for which ad valorem funds in the Operations and Maintenance Capital Program of \$241,807.00 are budgeted and the remainder is subject to Governing Board approval of the FY12 budget.

This Board item impacts what areas of the District, both resource areas and geography: The C-24 Canal is located in St. Lucie County and provides flood protection as well as irrigation to the local community. The Everglades Restoration and Capital Projects Resource Area will oversee the project funded by the Operations and Maintenance Capital Program.

What concerns could this Board item raise? Without implementing the canal bank repairs, the severe erosion will adversely impact flood protection and water supply for the local community, eventually requiring more expensive emergency repair not only to the bank but to removal of the shoaling.

Why should the Governing Board approve this item? Board approval is required at the May Governing Board meeting. By not implementing the canal bank repairs, the south bank will continue to erode, causing severe shoaling and reducing the flow capacity of the canal; consequently, flooding protection of the area will be compromised. If the current damage to the slope is not repaired, erosion would continue, eventually requiring more expensive emergency repairs. The proposed bank repair is consistent with the Strategic Plan and was included in the FY11 budget.

AD/ag