

MEMORANDUM

TO: Governing Board Members

FROM: Tommy Strowd, Deputy Executive Director
Operations and Maintenance Resource Area

DATE: August 19, 2010

SUBJECT: 460002207- S-142/S-143 Gate Replacement and Automation

Background

The S-142 and S-143 are both double-barreled, corrugated metal pipe culverts controlled by two (2) manually operated sluice gates. Both Structures are located in Broward County; S-142 at L-38W between the North New River and Water Conservation Area #3, and S-143 where L-35B crosses the North New River.

Routine inspections have identified required frequent operations of the gates have caused them to malfunction.

The objective of the proposed repairs is to prevent costly manual operation of the Structures and to more effectively manage risk, as well as stage levels in Water Conservation Areas #2 and #3 and flood stage levels in the North New River during emergency events.

How this helps meet the District's 10-year Strategic Plan:

The S-142/S-143 Gate Replacement and Automation Project is included in the FY 2011 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 Lucas Marine Construction, LLC with a total amount of \$1,449,495.00 using ad valorem funds within the Operations and Maintenance Capital Program, subject to Governing Board approval of the FY11 budget.

This Board item impacts what areas of the District, both resource areas and geography:

The S-142/S-143 Structures are located in Broward County and control water levels in Water Conservation Areas #2 and #3.

The Everglades Restoration and Capital Projects Resource Area will oversee the Project funded by Operations and Maintenance Capital Program.

What concerns could this Board item raise?

Without implementing the gate replacement and automation, the Structures could fail and adversely impact the stage management of Water Conservation Areas #2 and #3 and flood management of the North New River.

Why should the Governing Board approve this item?

Board approval is required at the September Governing Board meeting. By not implementing the proposed gate replacement and automation, the Structures will continue to be operated manually and will continue to malfunction. If continued, this type of operating conditions will eventually require more expensive emergency repair/replacement or lead to uncontrolled discharges. Manual operation of these gate structures also increases risk management during emergency events. The proposed gate replacement and automation is consistent with the Strategic plan and was included in the FY 2011 budget.

TS/ag