

MEMORANDUM

TO: Governing Board Members

FROM: Kenneth G. Ammon, P.E., Deputy Executive Director, Everglades Restoration and Capital Projects 

DATE: May 27, 2010

SUBJECT: Contract for Construction of Concrete Bridges for the G-434 and G-435 Pump Stations – Contract Number 4600002142

Background:

The intent of the District is to construct additional Stormwater Treatment Areas (STAs) on Compartment B land to assist the existing STAs in improving the quality of water entering the Everglades Protection Area. The long-term Everglades water quality goal is for all discharges to the Everglades Protection Area to achieve and maintain compliance with water quality standards, including phosphorus, as established in Rule 62-302.540 of the Florida Administrative Code. The Project is a component of the Long-Term Plan and will permit the State of Florida and the District to fulfill obligations under the Everglades Forever Act (EFA, F.S. 373.4592), and is intended to achieve compliance with the phosphorous limits and levels established under Florida law, Rule 62-302.540, F.A.C. (the Phosphorous Rule), and the Consent Decree entered in United States v. SFWMD, et al., Case No. 88-1886-CIV-Moreno (S.D. Fla.).

The Compartment B pump station design included precast conveyance culverts through the North New River Canal levee upstream of the G-434 and G-435 inflow pump stations. In place of these culverts, District staff preferred single-lane bridges at these two locations to reduce long-term maintenance requirements.

The purpose of this contract is to construct the concrete bridges for the G-434 and G-435 pump stations. The construction contractor, Lucas Marine Construction, LLC, shall be responsible for all structural and earthwork required for the construction of the bridges.

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

Compartment B is a component of the Everglades Protection Area Tributary Basins Long-Term Plan for Achieving Water Quality Goals, Revised Part 2, which is included in the 10-Year Strategic Plan and the current Annual Plan. This Project enables the District to achieve Everglades water quality standards as part of the implementation of the Long-Term Plan to ensure that all waters discharging into the Everglades Protection Area are in compliance with state water quality standards. Approval of the Compartment B Buildout Construction of the Concrete Bridges for the G-434 and G-435

pump stations will continue construction for completion of the South Buildout and North Buildout STAs that are now under construction and have a mandated flow capable date of December 31, 2010. The target completion date for construction of the G-434 and G-435 Pump Stations is January 29, 2012.

Funding Source:

This is a 240-day contract with Lucas Marine Construction, LLC, the lowest responsive and responsible bidder from the District's pre-qualified firms, to construct the Compartment B Buildout concrete bridges for the G-434 and G-435 pump stations in an amount not to exceed \$1,879,000 of which dedicated funds (proceeds from Series 2006 Certificates of Participation) in the amount of \$95,449 are budgeted and the remainder is subject to Governing Board approval of the FY11 budget.

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

The Compartment B Buildout Project location is in Palm Beach County approximately 20 miles south of South Bay on the East side of U.S. 27. It is bounded on the north by the Everglades Agricultural Area, on the east and south by the Water Conservation Area 2, and on the west by STA 3/4. Staff from the Everglades Restoration and Capital Projects Resource Area will manage the project. Consulting engineering firms will provide construction management and engineering during construction services. Staff from Watershed Management will provide operation support, and the West Palm Beach Field Station will be responsible for maintenance of the concrete bridges.

What concerns could this Board item raise?

If the concrete bridges are not built, the public will have to gain access through the service bridges of the G-434 and G-435 pump stations to travel through the North New River Canal levee. This may pose a security risk to the pump stations.

Why should the Governing Board approve this item?

The construction contract for the concrete bridges for the G-434 and G-435 pump stations must be executed to meet the overall Compartment B Buildout Project schedule and achieve the goals of the Long-Term Plan.