

MEMORANDUM

TO: Governing Board Members

FROM: George L. Horne, Deputy Executive Director, Operations and Maintenance

DATE: December 01, 2009

SUBJECT: 4600001923 - Trail Glades Culvert Crossing and the G119 Gates

Background: The Trail Glades Culvert Crossing and G119 structure consists of twin 72" corrugated metal culverts and two (2) manually operated slide gates mounted on the upstream end of each culvert.

In 1955, pursuant to Section 40E-6.381 of the F.A.C., Miami-Dade County Park and Recreation Department (MDPR) accepted the maintenance responsibility of the Trail Glades Culvert Crossing upon issuance of a District permit. As a condition of this permit they were required to allow the District to attach/mount slide gates to their culverts.

5 decades later, in August 2007, the District's Right-of-Way Division learned that an inspection of the G119 gates and culverts, completed as a part of the District's Structure Inspection Program, resulted in the following repair recommendations:

- Expedite replacement of both 72" CMP culverts.

The District notified MDPR of the Structural Inspection results and directed them to promptly replace the failing culverts with box culverts (per current District Standards). The District also requested that MDPR add the following items to their culvert replacement project at the expense of the District:

- Replace the existing slide gates, which were custom built for 72" culverts.
- Install a 4" PVC sleeve under the Trail Glades entrance road for the District's future use.
- Repair and/or replace existing District signs.
- Remove existing up and downstream stilling wells.

How this helps meet the District's 10-Year Strategic Plan: The G119 gates, which allow water flow deliveries from Water Conservation Area 3A to eastern Dade County via the L-30 or L-29 canals, are maintained by the District and mounted to culverts maintained by Miami-Dade County. This repair will bring this structure up to current standards and make sure that water can be held back in WCA 3A until it is needed by eastern Dade County.

Funding Source: This project is a two-year project and the estimated total cost to Miami-Dade County is \$949,500. The District's not to exceed portion is \$158,000, is payable to Miami-Dade County, and will be funded from the Operation and Maintenance Capital budget. In FY10, the District will be responsible for \$19,000 (this amount is to cover the cost of Engineering Design and Permitting). The FY11 portion of the project, \$139,000, (for the bidding, construction, and construction close out) will be subject Governing Board approval of the FY11 budget.

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

The project will take place within Miami Field Stations service area, and is located geographically on 0.35 acres, in the South Florida Water Management District's (District) C-4 (Tamiami) Canal Right-of-Way, in unincorporated Miami-Dade County, on the north side of NW 8th Street (Tamiami Trail), about ¼ mile east of Krome Avenue.

What concerns could this Board item raise? Since the District's gates are connected to the County's culverts, how does the District make sure that the culverts are maintained so the District can make water flow deliveries? The County has received a permit from the SFWMD for the canal crossing. They are required, as a condition of the permit, to maintain the culverts.

Why should the Governing Board approve this item? The G119 gates are attached to failing culverts. Should this project not be approved, the District will have to build a stand-alone structure prior to the repairs being made to the Culvert Crossing.

GLH/ems