



# Brevard County Board of County Commissioners

2725 Judge Fran Jamieson  
Way  
Viera, FL 32940

## Legislation Text

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**File #:** 2232, **Version:** 1

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### **Subject:**

Waiver Request to Stormwater Management Criteria Section 62-3751, Exhibit A, Brevard County Code Re: South Central Waste Water Treatment Facility Expansion Waiver # 20WV00020

### **Fiscal Impact:**

None

### **Dept/Office:**

Planning and Development

### **Requested Action:**

Brevard County Utilities is requesting that the Board of County Commissioners grant a waiver to the Stormwater Management Criteria to allow the use of an inverted siphon.

### **Summary Explanation and Background:**

Brevard County Utilities (Applicant) has just completed an expansion to the South Central Waste Water Treatment Facility. The Brevard County Code and the Saint Johns River Water Management District (SJRWMD) require the Utility to provide stormwater treatment for the stormwater runoff from the new impervious area associated with the expansion. Due to site constraints associated with construction operations occurring in an existing facility with extensive underground utilities, a portion of the stormwater system had to be redesigned by the Engineer of Record in the field.

The applicant's Engineer of Record designed an inverted siphon stormwater system allowing the stormwater culverts to be constructed below utility lines in conflict. The design requires a board waiver of the Stormwater Code Section 62-3751, Exhibit A. This code section states that "Inverted siphons shall not be permitted". The capital costs for the relocation of existing utilities was estimated by the Engineer of Record to be \$20,000-\$30,000 when the Contractor was on-site. The costs would presumably increase given procurement and mobilization. Maintenance costs of the inverted siphon stormwater system are minimal as the Utility has vacutucks on-site which can remove stormwater and accumulated debris.

This is a unique situation given that Utilities has the ability to monitor the performance of the inverted siphon and the necessary equipment to maintain the infrastructure to ensure it performs as designed. Also, in this particular setting the expected occurrence of debris is minimal as the site is an industrial facility (as compared to a facility in a residential, commercial or retail community). If the waiver is not granted, Utilities will have to expend substantial resources to resolve the design to conform with conventional design with lower maintenance costs in the future.

## **Clerk to the Board Instructions:**