

## STRUCTURE G-329 (A-D)

Structures G-329 A-D are a series of four gated culverts that serve as the inflow control structures for Treatment Cell 1 of STA-2. Culverts G-329 A-D each consist of a 72- inch (72”) diameter corrugated metal pipe with a 11-foot x 11-foot headwall fitted with a 72” x 72” slide gate and service platform on its upstream end, and a flared end section on its downstream end

These structures are located in Palm Beach County and situated generally on and surrounding the former Brown’s Farm Wildlife Management Area and is positioned immediately west of Water Conservation Area 2A.

### PURPOSE

G-329 A-D provide inflow to Cell 1 from the Inflow Canal of STA-2. Flows will travel in a southward direction through the Treatment Cell and eventually discharge to the Discharge Canal of the Treatment Cell.

### OPERATION

G-329 A-D can be operated manually or remotely via telemetry from the District’s Operations Control Center in West Palm Beach.

### FLOOD DISCHARGE CHARACTERISTICS

	<u>Design</u>
Discharge Rate:	197 cfs per structure (788 cfs total)
Headwater Elevation:	17.01 NGVD
Tailwater Elevation:	16.23 NGVD
Type Discharge:	controlled submerged

\* Design not related to Standard Project Flood

### DESCRIPTION OF STRUCTURE

Type: Reinforced concrete box culverts with upstream control

Number of barrels: 1

Size of barrels: 72” X 72”

Length of barrels: 65" feet each\_

Invert Elevation (flow line): 6.0 ft. NGVD

Service bridge elevation: 19.0 ft. NGVD

Water level which will by-pass structure: 20 feet

**Gates:**

Number: 1

Type: Hydraflow Model 14-12

Size: 7' X 7'

Control: Manual

Lifting Mechanism: - Type hoist, pedestal mounted, screw type, hand wheel operated or telemetry

**Date Acceptance into Service:** June, 1999

**ACCESS:** Access to G-329 A-D is from S-6 along the East levee of the Supply Canal. The structures are located between S-6 and S-7.

**HYDRAULIC AND HYDROLOGIC MEASUREMENTS**

Water Level: Telemetry digital upstream and downstream recorders at G-329B

Gate Position Recorder: Telemetry digital upstream and downstream recorders at G-329A through D.

**DEWATERING FACILITIES (per gate)** None