

## STRUCTURE S-337

This structure is a six-barreled, corrugated metal pipe culvert, located at the point where L-30 crosses the Miami Canal, about 15 miles west of Miami. Control is effected by manually operated sluice gates mounted on a steel frame erected on the upstream end of the structure.

### PURPOSE

This structure, together with S-31 and S-151, permits release of water from Conservation Area 3 to supply water needs in East and South Dade County. It also can be used to discharge excess water from Conservation Area 3B when downstream capacity is available.

### OPERATION

This structure is operated to make supplemental releases from Conservation Area 3 to South and East Dade County via the L-30 Canal. S-31 is used to make such releases to East Dade County via the Miami Canal. When such releases are made via L-30, it is in conjunction with those being made from S-333. The total from S-333 and S-337 is the amount necessary to maintain the appropriate stages at S-331, S-25B and S-22. During such transfer operations, the headwater stage is maintained between 5.0 and 6.0 at S-335. When supplemental releases are not being made through L-30, S-337 is operated to maintain an optimum water level in L-30 of 6.0 between S-337 and S-335.

In order to preclude fish kills in C-304, the combined discharge of S-337 and S-31 shall be equal to or less than the discharge of S-151. Moreover, S-151 shall be opened the day before S-337 and/or S-31 are opened, and S-151 shall remain open until the day after S-337 and/or S-31 are closed.

### FLOOD DISCHARGE CHARACTERISTICS

	<u>Design</u>
Discharge rate	<u>605</u> cfs
	* <u>    </u> % of SPF
Headwater Elevation	<u>5.5</u> feet
Tailwater Elevation	<u>5.2</u> feet
Type Discharge	<u>Controlled submerged</u>

\*Design not related to Standard Project Flood, which is designed to pass through S-12 alone.

**DESCRIPTION OF STRUCTURE**

Type Corrugated metal pipe culverts with upstream control

Number of barrels: 6

Size of barrels: 84 inches

Length of barrels: 164 feet

Flow Line elevation -3.0 to -4.0

Service bridge elevation 15.0 feet

Gates:

Number 6

Type: Slide gates

Size: 84 inch square

Control: manual

Lifting Mechanism:

Type hoist Pedestal mounted, Type U, manually operated

Date of Transfer: March 16, 1979

**ACCESS:** Structure located adjacent to SR 27.

**HYDRAULIC & HYDROLOGIC MEASUREMENTS**

Water Level: On-site upstream analog recorder; downstream U.S.G.S. on-site recorder on U.S. 27 bridge. Communications and control system digital recorder upstream and downstream.

Gate Position Recorder: Remote digital recorder on gate #3 and #4

Rain Gauge: Remote, digital recorder

**DEWATERING FACILITIES:** (Per gate) None