

## STRUCTURE 47B

This structure is a double-barreled corrugated metal pipe culvert, located on Canal 19 at the downstream side of the A.C.L. Railroad crossing of that canal, which is about 1.7 miles north of the U.S. Highway #27 bridge over the canal. Control is effected by remotely or manually operated sluice gates on a reinforced concrete head structure.

### PURPOSE

This structure maintains optimum upstream water control stages in Canal 19; it passes the design flood from the C-19 basin north of S-47B (50% of the Standard Project Flood) without exceeding the upstream flood design stage and restricts downstream flood stages and channel velocities to non-damaging level; and it permits releases from Lake Okeechobee during dry periods to meet agricultural water requirements in the area served by C-19 southerly from the structure.

### OPERATION

The structure is operated to meet either the flood or low water conditions as follows:

#### Flood Conditions

The gates are operated to discharge excess flows so long as the tailwater does not exceed 15.0 feet.

#### Low Water Conditions

The gates are operated to meet downstream water requirements, and to maintain the upstream optimum water level of 13.0 to 15.0.

The structure can be operated automatically.

High Range: 15.4 / 15.0 / 14.6

Low Range: 13.4 / 13.0 / 12.6

### FLOOD DISCHARGE CHARACTERISTICS

	Design	
Discharge Rate	<u>250</u> cfs <sup>1</sup>	<u>400</u> cfs <sup>2</sup> <u>50</u> % SPF
Headwater Elevation	<u>14.7</u> feet	<u>15.5</u> feet
Tailwater Elevation	<u>14.13</u> feet	<u>15.0</u> feet

