

STRUCTURE 50

This structure is a reinforced concrete, uncontrolled, fixed crest weir. The structure is located near the mouth of C-25, about 1/2 mile west of U.S. Highway #1 bridge over the canal.

PURPOSE

This structure discharges the flood runoff from the tributary basin, prevents overdrainage by maintaining optimum water levels above the structure, and prevents salt water intrusion.

OPERATION

Operation of this structure is uncontrolled. Discharge begins when the upstream water surface elevation exceeds 12.0 feet; design discharge of 3800 cfs occurs when the head on the weir reaches 4.0 feet, or elevation 16.0 feet. Control of the drainage basin is effected by S-99, located on C-25 about 8 miles upstream.

DISCHARGE CHARACTERISTICS

Flood Conditions	Design	Standard Project Flood
Discharge Rate	<u>3800</u> cfs	<u>3800*</u> cfs
	<u>30</u> % SPF	<u>100</u> % SPF
Headwater Elevation	<u>16.0</u> feet	<u>16.0</u> feet
Tailwater Elevation	<u>0.7</u> feet	<u>0.7</u> feet
Type Discharge	<u>free</u>	<u>free</u>
Estimated maximum hurricane tide	<u>7.0</u> feet	

*Reduced to this level by S-99 upstream.

DESCRIPTION OF STRUCTURE

Type Fixed crest, reinforced concrete spillway

Weir Crest

Net Length 126 feet

Elevation 12.0 feet

Date of Transfer: June 12, 1961

ACCESS: Structure located on Canal Avenue between 13th and 15th Street,
about 3/4 mile west of U.S. Highway #1

DEWATERING FACILITIES None

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level On-site, upstream recorder

Gate Position Recorder None