

STRUCTURE 195

This structure is a single-barreled, corrugated metal pipe arch located on Canal 102N at the Old Dixie Highway. Control is effected by a manually operated sluice gate mounted on a reinforced concrete head structure.

PURPOSE

This structure maintains optimum upstream water control stages in Canal 102N; it passes the design flood (40% of the Standard Project Flood) without exceeding the upstream flood design stage, and restricts downstream flood stages and channel velocities to non-damaging levels.

OPERATION

This structure is manually operated to maintain a headwater elevation of 5.5 feet.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>180</u> cfs
	<u>40</u> % of SPF
Headwater Elevation	<u>5.6</u> feet
Tailwater Elevation	<u>4.8</u> feet
Type Discharge	Controlled <u>Submerged</u>

DESCRIPTION OF STRUCTURE

Type	<u>corrugated metal pipe arch with reinforced concrete box intake structure</u>	
Number of Barrels:		<u>1</u>
Size of barrels		<u>97" X 152"</u>
Length of barrels		<u>90 feet</u>
Flow line elevation		<u>-1.8 feet</u>
Service bridge elevation		<u>15.0 feet</u>
Water level which will by-pass structure		<u>9.0</u>
Crest Elevation of Overflow Weir		<u>5.5 feet</u>
Gates		
Number		1

Type slide gate mounted on intake box with invert elevation of -0.5 feet

Size 6' X 6'

Control Manual

Lifting Mechanism

Type pedestal mounted, hand wheel and screw lift

Date of Transfer: September 15, 1966

ACCESS: structure located on Old Dixie Highway

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level staff gauges only

Gate Position Recorder None