STRUCTURE 125

This structure is a single-barreled, corrugated metal pipe culvert, located in Canal 42 just south of the junction of C-42 and C-13, about 10 miles west of Fort Lauderdale. Control is effected by a manually operated sluice gate mounted on a structural steel frame erected on the upstream end of the structure.

PURPOSE

This structure functions together with S-124, S-38C and S-36 to maintain an optimum water surface elevation in the agricultural area east of Conservation Area No. 2. It also can be used to discharge excess water when capacity is available in the North New River Canal.

OPERATION

Releases shall be made, as necessary, to maintain a headwater elevation of 6.0 feet. This operation shall be coordinated with the operation of S-124, S-36 and S-38C. S-36 is automatically controlled, and releases are ordinarily made by this structure, while the others remain closed. S-125 is opened when S-36 is unable to prevent the headwater elevation from exceeding 6.0 feet. It is operated in like manner to S-34 to maintain a stage at G-54 between 3.5 and 4.5 feet, depending on the season, when water is available and required.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	40 cfs
	* % of SPF
Headwater Elevation	6.5 feet
Tailwater Elevation	6.0 feet
Type Discharge	uncontrolled submerged

*Design not related to Standard Project Flood.

DESCRIPTION OF STRUCTURE

Type corrugated metal pipe culvert with upstream control

Number of barrels 1

Size of barrels 48 inches

Length of barrels 40" feet each

Flow line elevation 2.0 feet

Service bridge elevation 9.5 feet

Gates

Number 1

Type Armco Model 35-05C, spigot back

Size 48 inch square

Control Manual

Lifting Mechanism

Type hoist bench type, manually operated

Date of Transfer: June 21, 1966

ACCESS: University Drive to Oakland Park Boulevard; west on Oakland Park Boulevard about 6 miles on south bank

Points of possible flooding _____

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level: On-site staff gauges and remote headwater and tailwater recorders

Gate Position Recorder Remote digital recorder

DEWATERING FACILITIES (Per gate) None