

STRUCTURE 38B

This structure is a single-barreled, corrugated metal pipe culvert, located in the L-36 borrow canal about mid-way between S-38 and S-39 and about 13 1/2 miles southwest of Boca Raton. Control is effected by a slide gate mounted on a steel frame erected on the upstream or north end of the structure.

PURPOSE

This structure, together with S-38A, controls the seepage rate from Conservation Area 2A by regulating the water level in the south half of the Levee 36 borrow canal. The structure is a basin divide structure between C-14 and the Hillsboro Canal.

OPERATION

The optimum water surface is 7.65 feet in the south portion of the L-36 borrow canal. The structure is closed normally. For flood control or water supply under special conditions, the gate can be opened to transfer water between C-14 and the Hillsboro Canal.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u> *</u> c.f.s.
	<u> *</u> % of SPF
Headwater Elevation	<u> 9.0</u> feet
Tailwater Elevation	<u> 7.65</u> feet
Type Discharge	<u> -</u>
*No design flow	

DESCRIPTION OF STRUCTURE

Type	<u> corrugated metal pipe culvert</u>
Number of barrels	<u> 1</u>
Size of barrels	<u> 66 inch diameter</u>
Length of barrels	<u> 72 feet</u>
Flow line elevation	<u> 0 feet</u>
Service bridge elevation	<u> 14.3</u>

Water level which will bypass structure 15.0 feet

Gate

Number 1
Type Waterman Model R-5
Size 72 inch square
Control manual
Lifting Mechanism pedestal mounted manually operated crank
Date of Transfer June 18, 1962

ACCESS from State Road 827 via access road on top of L-36 or via Wiles Road to the west end.

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level upstream and downstream staff gauges only
Gate Position Recorder None

DEWATERING FACILITIES (per barrel) - None