

**CULVERT #2**  
**L-48**

This structure is a single-barrel concrete pipe culvert located through L-48, about 6.4 miles west of State Road 78. Control is effected by a submersible gate mounted on a concrete box inlet structure, with flap gate on the downstream side.

**PURPOSE**

This structure maintains the optimum upstream water control stages; it passes the design flood without exceeding the upstream flood design stage; it also prevents backflow from Lake Okeechobee during excessive stages in the lake caused by flood or wind tides.

**OPERATION**

This structure is operated to maintain an optimum headwater elevation of 16.4 feet. It is opened full during hurricane alerts in order to pass the maximum discharge possible.

**FLOOD DISCHARGE CHARACTERISTICS**

	Design
Discharge Rate	<u>85</u> cfs
	___ % of SPF
Headwater Elevation	<u>19.2</u> feet
Tailwater Elevation	___ feet
Type Discharge	<u>controlled submerged</u>

**DESCRIPTION OF STRUCTURE**

Type	<u>concrete pipe culvert</u>
Number of barrels	<u>1</u>
Diameter of barrel	<u>72 inches</u>
Length of barrel	<u>139 feet</u>
Flow line elevation	<u>6.0 feet</u>
Service bridge elevation	<u>22.0 feet</u>
Water level which will by-pass structure	_____
Inlet Structure	
Type:	<u>Concrete box</u>

Width: 8.0 feet

Height: 18.0 feet

Sill Elevation: 12.0 feet

Invert Elevation: 6.0 feet

Gates

Number 1

Type vertical lift gate

Size 6'-6" high by 8'-10" wide

Control manual

Lifting Mechanism hand operated, pedestal mounted lift

Top elevation of gate, full closed 18.0 feet

Bottom elevation of gate, full open 15.5 feet

Source of power manual

**ACCESS** from State Road #78 along L-48 a distance of 6.4 miles

**HYDRAULIC AND HYDROLOGIC MEASUREMENTS**

Water Level upstream and downstream staff gauges only

Gate Position Recorder none

**DEWATERING FACILITIES (per barrel )** none