

HENRY CREEK LOCK STRUCTURE
G-36

This structure is a reinforced concrete lock structure with two vertical lift gates. It is located in L-47 on the northeast shore of Lake Okeechobee at Henry Creek, about 9 miles southeast of the City of Okeechobee.

PURPOSE

The purpose of this structure is to permit boats to pass between Lake Okeechobee and the L-47 borrow canal. The structure also prevents hurricane tides from entering Henry Creek.

FLOOD OPERATION

The structure is not designed to pass flood flows, which are discharged via the L-47 borrow canal and S-135 to Lake Okeechobee.

LOCK OPERATION

The lock gates are opened full whenever the Lake Okeechobee stage is below elevation 13.5. When the lake exceeds this stage, the lock is operable seven days a week between 5:30 a.m. and 8:00 p.m., and the lock is full closed between 8:00 p.m. and 5:30 a.m.

DESCRIPTION OF STRUCTURE

Type: reinforced concrete lock structure with two pairs of gates.

Operating Deck Elevation: 45.0 feet lakeside; 54.0 feet landside

Lock

Length: 50.0 feet

Width: 15.0 feet

Invert Elevation: 8.0 feet

Water Level which will by-pass structure: 40.5 feet

Gates:

Type: vertical lift

Size:

Landside: 14.0 feet high; 15.75 feet wide

Lakeside: 19.9 feet high; 15.8 feet wide

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Bottom Elevation of Gates when full open:

Landside: 24.5 feet

Lakeside: 27.6 feet

Control: manual

Operating Mechanism

Normal Power Source: commercial electricity

Emergency Power Source: propane engine driven electric generator

Type: direct drive electric motor gear connected to cable drum

DEWATERING FACILITIES

Location: Okeechobee Field Station

Type: Steel stop logs

Size and Number: 24 each 10"X10"X16'-2" long

ACCESS: access is gained by a 1/10 mile access road from US 441 on the southeast bank of Henry Creek.

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level: Water depth staff gauges in chamber and landside

U.S.G.S. remote stage recorder

Gauge Position Recorder: none