

## STRUCTURE 13A

This structure is a four-barreled, corrugated metal pipe culvert, located on Canal 11 (the South New River Canal) about 5 miles upstream from Pump Station S-13. Control is affected by manually operated sluice gates mounted on a steel frame head structure on each culvert.

### PURPOSE

This structure maintains optimum upstream water control stages in Canal 11 and it passes dry season releases to the area east of the structure.

### OPERATION

This structure is operated during dry conditions to maintain the optimum stage of 2.2 at S-13.

When gate is open, notify S-9.

### FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>120</u> cfs * <u>    </u> % SPF
Headwater Elevation	<u>2.5</u> feet
Tailwater Elevation	<u>2.0</u> feet
Type Discharge	controlled <u>submerged</u>

\*Design flow not related to Standard Project Flood

### DESCRIPTION OF STRUCTURE

Type	<u>corrugated metal pipe culvert with upstream control</u>
Number of barrels	<u>4</u>
Size of barrels	<u>72" diameter</u>
Length of barrels	<u>200 feet</u>
Flow line elevation	<u>-4.1 feet</u>
Service bridge elevation	<u>9.25 feet</u>

Revised 06/10/02

Water level which will by-pass structure 9" feet

Control Structure Discharge is controlled by gates mounted on steel frames erected on the upstream end of the culvert.

Gates

Number 4

Type sluice gate mounted structure at west end of culvert

Size 72" diameter

Control manual with electric motor

Lifting Mechanism Electric manual screw stem

Hoist Type Retork Model #S23675-102

Normal Power - Commercial electric power

Emergency Power - LP gas back up generator

Date of Transfer: November 15, 1956; 13A mod. July 28, 1960

**ACCESS** Griffin Road and 100th Avenue

**HYDRAULIC AND HYDROLOGIC MEASUREMENTS**

Water Level Remote, digital upstream and downstream recorders

Gate Position Recorder None

Rain Gauge: Remote digital recorder

**DEWATERING FACILITIES** None