

## G-86S

This structure is a single-barreled corrugated metal pipe culvert, located in the drainage ditch on the west side of U.S. 27 discharging into the south side of C-11. Control is effected by stop logs in a CMP riser pipe.

### PURPOSE

This structure, together with S-9XS, controls the water levels adjacent to and immediately east of Water Conservation Area 3A, thus limiting seepage from the Conservation Area. It also discharges excessive rainfall and seepage flows into C-11 for pumping back to Conservation Area 3A, or for discharge to tidewater.

### OPERATION

Stop logs are normally set with a crest elevation of 5.5 feet. During periods of heavy rainfall when the stage in the U.S. 27 drainage ditch at the West Hollywood Lakes development near the drainage divide to the C-9 basin rises above 5.5, stop logs are removed, to be replaced when the stage at West Hollywood Lakes drops below 5.5.

### FLOOD DISCHARGE CHARACTERISTICS

There is no design discharge for this structure.

### DESCRIPTION OF STRUCTURE

Type: Corrugated metal pipe culvert

Number of barrels: 1

Size of barrel: 60 inches

Length of barrel: 135 feet

Flow line elevation: -1.14 feet

Service Bridge Elevation

(top of header): 7.51 feet

Water level which will by-pass structure: 11.03 feet

Control: Discharge is controlled by stop logs placed in a CMP riser pipe on the north end of the structure.

Riser Pipes:

Diameter of Riser: 96"

Top of Riser Elevation: 7.51 feet

Stop Logs:

Number: 12 (2 sets of 6)

Size: 7.5" X 2.5" X 4 feet long

Reference Elevation: 7.51 feet

Approximate Crest Elevation:

| Number of<br>Boards In | Number of<br>Boards Out | Crest Elev.<br>(feet) | Measurement<br>to Boards (feet) |
|------------------------|-------------------------|-----------------------|---------------------------------|
| 6                      | 0                       | 5.59                  | 2.01                            |
| 5                      | 1                       | 4.97                  | 2.62                            |
| 4                      | 2                       | 4.34                  | 3.25                            |
| 3                      | 3                       | 3.72                  | 3.88                            |
| 2                      | 4                       | 3.09                  | 4.50                            |
| 1                      | 5                       | 2.47                  | 5.12                            |
| 0                      | 6                       | 1.84                  | 5.76                            |

**ACCESS:** Structure is located on U.S. Highway 27 at C-11.

**HYDRAULIC AND HYDROLOGIC MEASUREMENTS**

Water Level: Upstream and downstream staff gauges