

ORLO VISTA FLOOD MITIGATION PROJECT UPDATE

July 12, 2024

❖ CONSTRUCTION PROGRESS

The Notice To Proceed for the Orlo Vista Flood Mitigation Construction project was issued on March 13, 2023. To date we have completed approximately 89% of the total project.

Orlo Vista Flood Mitigation Construction project is a large project that incorporates three ponds: West, North, and South ponds (see Figure 1). The project also encompasses four main items: excavation, geoweb installation (erosion control), pump station, and pipe installation. The table below shows the progress of the project for each of these items.

Table 1 - Project Summary Table

Item	Total	To Date	% Completed
Excavation	439,030 cy	509,944 cy	116%
Geoweb Installation	785,999 sf	668,146 sf	85%
48" RCP Installation	713 lf	682 lf	96%
48" HDPE Force Main Pipe	1074 lf		0%
48" Steel Pipe	71 lf		0%
Pump Station	1		80%

While great progress has been made, there has been a delay procuring the Pump Station components which include the Electrical Building, Permanent Generator, Permanent Pumps, Electrical Components, and Instrumentation Components. The delay is due to nationwide supply chain issues which has affected most large-scale construction projects. The Pump Station components mentioned also require an extensive review process of submittals associated with these complex items.

- The overall project is expected to be completed by Spring 2025.
- The excavation of the North and South Ponds is fully completed.
- The work related to the excavation and geoweb installation of the west pond is near completion.
- The valve components have been installed in the pump station.
- Backfilling of the pump station area is in progress.
- Removal of the temporary cofferdam is complete.
- The manufacturer completed a pumping test on the new pumps and delivered them to the project site.
- The electrical building is expected to be delivered and installed in early 2025.

ORLO VISTA FLOOD MITIGATION PROJECT UPDATE

July 12, 2024

- To date, a total of 509,944 cubic yards of material have been excavated. This is equivalent to 26,840 dump trucks.
- Utilizing the additional storage provided by the recently excavated ponds as well as the four (4) temporary pumps, the surrounding neighborhood will be protected against a major storm event such as a hurricane (100-year / 24-hour design storm event) for the 2024 hurricane season.
- To date, the project is on budget.



Figure 1 - Orlo Vista Ponds

Below is a detailed description of the construction progress to date.

North Pond:

- Excavation: Completed (95,700 cubic yards of material, 100% complete)).
- Geoweb Installation: Fully installed.
- Ground Stabilization: Hydroseed placed above Geoweb, with sodding to be scheduled later.

South Pond:

- Excavation: Completed (58,356 cubic yards of material, 100% complete).
- Geoweb Installation: Fully installed
- Ground Stabilization: Hydroseed placed above Geoweb, with sodding to be scheduled later.

ORLO VISTA FLOOD MITIGATION PROJECT UPDATE

July 12, 2024

West Pond:

- Excavation: Ongoing (355,888 cubic yards of material, 98% complete).
- Geoweb Installation: In progress (approximately 75% complete).
- Progress on Drainage: Construction of headwall and 349 linear feet of 48-inch RCP is complete.

Pump Station:

Construction: Ongoing.

➤ Completed Work:

- All Pump station concrete has been poured as of 2/28/2024.
- Temporary steel for cofferdam has been removed.
- Valve Vault construction complete.

➤ Upcoming Work:

- Fill placement for Generator Pad.
- Formwork for slab on grade and placement of rebar ahead of concrete placement.
- Electrical conduit installation.
- Generator installation.
- Begin installation of 48" HDPE FM.