

# ORLO VISTA FLOOD MITIGATION PROJECT UPDATE

## August 16, 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 95% 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
<b>Excavation</b>	439,030 cy	525,978 cy	119%
<b>Geoweb Installation</b>	785,999 sf	705,557 sf	90%
<b>48" RCP Installation</b>	713 lf	682 lf	96%
<b>48" HDPE Force Main Pipe</b>	1074 lf		0%
<b>48" Steel Pipe</b>	71 lf		0%
<b>Pump Station</b>	1		85%

While significant progress has been made, we have experienced delays in procuring key Pump Station components, including the Electrical Building, Permanent Generator, Electrical Components, and Instrumentation Components. These delays are primarily due to ongoing nationwide supply chain challenges impacting large-scale construction projects. Additionally, the Pump Station components require an extensive review process due to the complexity of the submittals.

- 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.
- The new pumps are currently being installed.
- The electrical building is expected to be delivered and installed in early 2025.
- To date, a total of 525,978 cubic yards of material have been excavated. This is equivalent to 29,221 dump trucks.

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- 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.

### West Pond:

- Excavation: Ongoing (371,922 cubic yards of material, 100% complete).

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- Geoweb Installation: In progress (approximately 85% 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.
  - Fill placement for Generator Pad complete.
  - Formwork for slab on grade and placement of rebar ahead of concrete placement.
  - Concrete slab on grade poured 8/14/24.
- Upcoming Work:
  - Strip Formwork
  - Grade around Concrete Pad
  - Set Pumps
  - Conduit from E-Building to intake structure
  - Finish grading around intake structure
  - Generator installation.
  - Catwalk and handrail Installation
  - Begin installation of 48" HDPE FM.