

# ORLO VISTA FLOOD MITIGATION PROJECT UPDATE

## September 10, 2025

### ❖ CONSTRUCTION PROGRESS

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.

To date we have completed 100 % of the construction phase of the project. Efforts have now shifted to testing and project closeout activities.

*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	785,999	100%
<b>48" RCP Installation</b>	713 lf	713 lf	100%
<b>48" HDPE Force Main Pipe</b>	1074 lf	1074 lf	100%
<b>48" Steel Pipe</b>	71 lf	71 lf	100%
<b>Pump Station</b>	1		100%

### FACTS:

- The overall project is expected to be completed by October 2025.
- All ponds are excavated
- A total of 525,978 cubic yards of material were excavated. This is equivalent to 29,221 dump trucks.
- Demolition of existing pump station complete.
- Backfilling of the pump station area is complete.
- The valve components have been installed in the pump station.
- The new pumps have been installed.
- The electrical building is installed.
- Electrical components are installed.

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Figure 1 - Orlo Vista Ponds

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

### North Pond:

Excavation and Geoweb Installation: Fully Completed (95,700 cubic yards of material were excavated).

### South Pond:

Excavation and Geoweb Installation: Fully Completed (58,356 cubic yards of material were excavated).

### West Pond:

Excavation and Geoweb Installation: Fully Completed (371,922 cubic yards of material were excavated).

### Pump Station:

Construction: Complete.

Electrical work: Complete and testing in progress

- Completed Work:
  - Set Pumps
  - Conduit from E-Building to intake structure
  - Generator installation.
  - Catwalk and handrail Installation
  - Installation of 48" RCP (31 LF) in West Pond
  - Installation of 48" HDPE FM 1074 LF

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- Tie into existing FM at existing pump station
- Duke Energy Transformer installation
  
- Upcoming Work:
  - Sodding ongoing of areas disturbed by construction
  - Generator testing
  - Testing of pumps station equipment and assemblies
  - Final turnover and testing of new pump station
  - Final completion is scheduled for the end of October

During the month of August, the project reached Substantial Completion on August 28, 2025. Crews shifted focus from construction to closeout activities, including addressing punch list items and initiating repair work on the ponds. Site restoration is ongoing, with efforts directed toward grading, sodding, and stabilizing areas disturbed during construction.

Currently, the contractor is continuing site restoration and repair work on the ponds. Preparations are underway for the required testing of pumps and assemblies, which will take place prior to final acceptance. These activities, along with completion of the final punch list, are scheduled to lead to Final Completion at the end of October 2025.