

# ORLO VISTA FLOOD MITIGATION PROJECT UPDATE

## May 8, 2025

### ❖ 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 99% 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	785,999	100%
<b>48" RCP Installation</b>	713 lf	713 lf	100%
<b>48" HDPE Force Main Pipe</b>	1074 lf	120 lf	100%
<b>48" Steel Pipe</b>	71 lf	35 lf	100%
<b>Pump Station</b>	1		99%

### FACTS:

- The overall project is expected to be completed by Spring 2025.
- All ponds are excavated
- 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 currently being installed.
- Demolition of existing pump station complete.
- A total of 525,978 cubic yards of material were excavated. This is equivalent to 29,221 dump trucks.
- To date, the project is on budget.

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*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 sod installation ongoing.
- Installed sod above Geoweb west side of North Pond

### South Pond:

- Excavation: Completed (58,356 cubic yards of material, 100% complete).
- Geoweb Installation: Fully installed
- Ground Stabilization: Hydroseed placed above Geoweb, with sod installation ongoing.
- Installed sod above Geoweb west side of South Pond

### West Pond:

- Excavation: Completed (371,922 cubic yards of material, 100% complete).
- Geoweb Installation: Fully installed
- Progress on Drainage: Construction of headwall and 349 linear feet of 48-inch RCP is complete.
- Ground Stabilization: Sod placement ongoing

### Pump Station:

Construction: Ongoing.

- Completed Work:

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- 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.
- Strip Formwork
- Grade around Concrete Pad
- Set Pumps
- Conduit from E-Building to intake structure
- Generator installation.
- Finish grading around intake structure
- Catwalk and handrail Installation
- E-Building delivery and installation
- Grading and tie in of gewoeb for (2) locations of repaired concrete flumes West Pond
- Installation of 48" RCP (31 LF) in West Pond
- Installation of 48" HDPE FM 1074 LF
- Tie into existing FM at existing pump station
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➤ Upcoming Work:

- Sodding ongoing of areas disturbed by construction
- Electrical tie in work from E-Building to Pump Station continues
- Duke Energy Transformer installation
- Obtain power to E-building
- Generator testing
- Final turnover and testing of new pump station