

### Complete Construction and Project Management of Customized structural system utilized for the recycling and waste water treatment facility within Hillsborough County

#### Background

Hillsborough County's largest-ever capital improvement project ensures reliable wastewater disposal and reclaimed water service for thousands of residents. It combines three facilities separated by miles of neighborhoods, roads, and commercial enclaves into a single campus, the Northwest Regional Water Reclamation Facility. Shutting down the older facilities and combining all the infrastructure at one location allows for better management and cost controls

#### Solution

Utilizing both high end PVC membrane as well as some transparent fiberglass, Hillsborough County's Northwest Regional Water Reclamation Facility can process up to 30 million gallons of wastewater daily. The facility is used in part of the Bio-Solids Treatment and required an architectural look to enhance the optics of the area. And with plenty of County land surrounding the property, there's even a multi-use recreational trail through restored/enhanced wetlands north of the facility.

#### Details

Our largest truss spanned just over 112' feet and the overall project width was close to 140'. There are over eight (8) different modular sections within the overall structure. These elements are designed to be erected to the vertical columns that support the complete facility. Effort and aid in coordination on the installation was key, as many of the steel sections overlap and join together at a variety of locations. The largest section was built and designed with the required attachment / extrusions to allow for specialty fiberglass to be installed to add both an architectural element to this unique build, but to also facilitate the process's on site. In all, the structure is well over 10,000 square feet and has been operational with success.

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