

Navy Base Ozone Water Treatment Facility

Orlando, Florida



Client:
Orlando Utilities Commission

Total Cost:
\$14,100,000

Nature of Work:

The Orlando Utilities Commission undertook a 14.1 million, design/build upgrade of the existing water treatment plant located at the decommissioned Orlando Navy Training Base. The existing base was redeveloped into a new community, including facilities such as schools, retail, commercial, recreation and housing.

The scope of the upgrade not only involves a complete engineering rehabilitation of yard piping, purification and mechanical systems, but also the addition of new ancillary structures.

Borrelli + Partners is involved in the design and construction documentation bidding assistance and limited construction administration of the Ozone Generation and Chemical Storage Building. The Ozone Generation building's function is the removal of hydrogen sulfide from water and the Chemical Storage building's function is to add chlorine gas to the water for purification, sodium hydroxide for pH balancing and hydrofluorosilic acid for odor control.

Also part of our scope was the development of the landscape and irrigation design and construction documentation. The two new buildings will utilize tilt-up concrete wall slabs with the walls of the Ozone building being structural in nature required to support a clear spanning steel roof frame.

The Chemical Storage building will be a wall skin system supported by a concrete frame. The Ozone building is 20 ft. in height and 3,754 SF and the Chemical Storage building is 20 ft. in height and 4,721 SF.



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