

Client
City of Pompano Beach

Scope of Services
Design and construction-phase services for upgrade of water system interconnect between the Cities of Margate and Pompano Beach.

Contact
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Start Date
06/2016

Completion Date
07/2017

Construction Cost
\$135,868

Key MBC Staff
Frank Brinson, P.E.
Andrew Barba, E.I.

Key Features
Interconnect design provides for bi-directional metering of transferred flow, backflow prevention, flushing of branch piping from either water system, as well as radio telemetry for flow meters.

Margate Potable Water Interconnect Design and Construction-Phase Services

Pompano Beach, Florida



Background

The City of Pompano Beach owns and operates a water system consisting of a 50 million gallon per day (mgd) capacity water treatment plant, high service pump, finished water storage, and a finished water transmission/distribution system to provide water service to the customers within the City's water service area. As part of the City's continuing efforts to maintain the level of service to the City's customers, the City maintains interconnects with several adjoining utilities for redundancy and supplemental water supply in the event of emergencies (e.g., unusual fire demands, hurricanes, etc.). The City has undertaken a program of "hardening" of the City's interconnects with adjacent systems to improve the resiliency of the system during emergency conditions such as hurricanes.

The Project

Design upgrades included the following:

- Relocating the interconnect valve(s) from their current location to a location that is more easily accessible to City operation and maintenance crews.
- Moving the interconnect valve(s) and other appurtenances above-ground to provide better access for operation and maintenance by City crews.
- Adding upgraded design features such as two-way flow metering, backflow prevention (check valves), two-way blowoffs/flushing connections, and provision for future radio telemetry of the interconnect.

This scope of services provides for professional engineering for design, permitting, and construction-phase services. The project was completed in July 2017 on schedule and with zero change orders.