

**Client**

City of Dania Beach  
MBC Subconsultant to CDM

**Scope of Services**

Construction administration,  
shop drawing review,  
permitting coordination and  
start-up

**Contact**

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**Start Date**

05/2006

**Completion Date**

05/2008

**Construction Cost**

\$3.3 million

**Key MBC Staff**

Frank A. Brinson, P.E.

**Key Features**

Project included a 2 million gallon prestressed concrete finished water ground storage tank, a high service pump station consisting of five vertical turbine pumps with variable frequency drives, and an emergency power generator.

## Ground Storage Tank and High Service Pump Station, Services During Construction

Dania Beach, Florida



### Background

McCafferty Brinson Consulting, LLC was hired to provide construction administration services for construction of a 2.0 million gallon (MG) prestressed concrete finished water ground storage tank and new 4,800 gallon per minute (gpm) firm capacity high service pump station, and associated yard piping, structural, electrical, and instrumentation and controls improvements at the City of Dania Beach water treatment plant. MBC's services during construction of the project included general construction contract administration, review of mechanical shop drawings, review of the contractor's applications for payment and construction schedules, conducting monthly construction progress meetings, responding to the contractor's requests for information, negotiation of change orders, and coordination with permitting agencies. MBC's key staff member on this project, Mr. Frank Brinson, was project manager and engineer of record during design of the project while an employee of CDM, and was hired by CDM to provide construction administration services as a subconsultant.

## The Project

The scope of construction included the following:



- A 2.0 million gallon prestressed concrete finished water ground storage tank
- A high service pump station consisting of five canned vertical turbine high service pumps, each equipped with a variable frequency drive (VFD). The firm pumping capacity of the station is 4,800 gpm.
- A diesel engine-driven emergency power generator
- Miscellaneous associated site work, yard piping, electrical, and instrumentation and controls improvements

Construction of the project was performed by GlobeTec Construction. Construction was Substantially Complete in September 2008. There were no cost change orders, and authorizations from construction allowances were less than 2% of the original bid price.