

Client

City of Boca Raton
As a subconsultant to Holtz
Consulting Engineers, Inc.

Scope of Services

Professional engineering
services for roadway and
sidewalk improvements and
permitting and bidding
services.

Contact

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Capital Improvement Project
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Start Date

07/2018

Completion Date

09/2021

Key MBC Staff

Frank A. Brinson, P.E.
Audra McCafferty, P.E.
Melissa Campbell, E.I.
Mariell Soto, E.I.

Key Features

Project included geotechnical
services, water main
replacement, roadway and
sidewalk improvements.

Benefit to City

Assisted the City with a
sustainable infrastructure
improvements.

Country Club Village Infrastructure Improvement Design (iSIP) Boca Raton, Florida



Background

In 2017, the City completed a critical infrastructure analysis to evaluate and prioritize the renewal or replacement of large-diameter pressurized pipelines within the City's service area. The vital assets studied consist of over 600 miles of water main as well as over 100 miles of force main. This analysis was performed to plan for the future of the utility system so that the City can continue to provide a high level-of-service to utility customers.

The infrastructure analysis results are the basis for the City's multi-year sustainable infrastructure program (iSIP). The initiative's core principle is progress through planning, which was achieved by a comprehensive and proactive infrastructure review. The first phase of this initiative includes multiple neighborhood projects. The goal was to holistically upgrade the existing neighborhood infrastructure.

The City selected the project team to complete the infrastructure improvements in the Country Club Village neighborhood. The Country Club Village upgrades generally include construction of larger diameter water mains to replace aged water mains, relocation and elimination of rear water service lines, as well as roadway, stormwater outfall, and sidewalk improvements. Additionally, a redundant water line was installed under Interstate-95, as deemed necessary by the infrastructure analysis.

The Project

The project included the following improvements:



- Relocate and upsize approximately thirty-five thousand linear feet of existing domestic water mains from the rear yards to the rights-of-way. This will include abandonment of the existing water main system, relocation and reconnection of the water service from the new water main to the house as well as restoration of private and public property.
- Installation of approximately 2,500 of 16-inch water main on SW 18th Street from Juana Road west to the repump facility, which includes the crossing of Interstate-95.
- Sidewalk removal and replacement due to trip hazards, infill of any missing pieces of sidewalks to complete network if requested by City, mill and overlay all roadways, installation/replacement of ADA ramps (where ramps and sidewalks exist), and minor swale improvements. There are also three (3) stormwater outfalls in the L-47 canal, just to the north of NW 7th Street that will be improved with new mitered ends and end walls on the outfalls.

The scope of services for the project include:

- Topographic surveying, geotechnical services and underground locates.
- Water main replacement.
- Roadway and sidewalk improvements.
- Permitting and bidding assistance.

The project was advertised for bid in September 2019 and the notice to proceed was issued in April 2020.