

Water System Improvements Design-Build Project Project Summary

Project Description:

The three main components of the project include: a Booster Pump Station, Supply Main, and Discharge Main. The Discharge Main also serves as a secondary Supply Main to Four Seasons at Historic Virginia.

Project Duration & Testing, Design and Permitting Timeframe:

- Design-Build Request for Proposals (RFP): Present – Fall of 2018
- Anticipated Construction Duration: 24 months (Anticipated: Fall 2018 – Fall 2020)

Purpose of the Project:

- Maintain water quality.
- Improve system hydraulics and reliability for Four Seasons and other customers.
- Provide a redundant water line into Four Seasons.
- Maintain the level of service residents receive.
- Accommodate future growth and water demands / existing system will not adequately support growth.

Project Overview:

The Montclair Booster Pump Station (BPS):

The Montclair BPS is needed to supply future water demands in the Montclair Pressure Zone of the Service Authority's East End Water System. Currently, the Cow Branch and Old Stage BPSs supply water to the Montclair Pressure Zone, which in turn supplies the Oak Ridge Pressure Zone. The Old Stage BPS is nearing the end of its useful life and the capacity provided by this station will need to be replaced. The Montclair BPS will provide auxiliary pumping capacity to the Cow Branch BPS, improve system reliability, and accommodate the anticipated build-out demands in the Montclair and Oak Ridge Pressure Zones. The pumping capacity of the new Montclair BPS is expected to be in the range of 3 to 8 Million Gallons per Day (MGD).

Montclair BPS Supply Transmission Main:

The scope for the Montclair Supply Transmission Main may include several thousand feet of 16" to 24" diameter water main, which will connect the new booster station to the Montclair and Oak Ridge Pressure Zones.

Montclair BPS Discharge Transmission Main:

The scope for the Montclair BPS Discharge Transmission Main may include several thousand feet of 16" diameter water main which will connect the new booster station to the Montclair and Oak Ridge Pressure Zones.

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Service Authority Commitments:

- To restore property affected by SA construction to original or better condition.
- To maintain road access at all times.
- Emergency services, trash, mail, and other services.
- To continuously communicate and work with HOA concerning project status.
- To respond quickly to residents' concerns.
- Work with the HOA to define parking and access constraints.
 - Incorporated into Design-Build Agreement.
- Daily clean-up by the Contractor is required.
- Service Authority Inspector on site daily and as necessary.
- Construction Manager / SA Project Representative on site for the duration of the project.