



OMU Cavin

WTP Expansion

Total Contract: \$46,000,000
Project Start: January 2019
Project Completion: December 2020



Resourceful.



Responsive.



Results.





OMU Cavin

WTP Expansion / Owensboro, KY

Project Size: \$46,000,000 / Jan. 2019 - Dec. 2020

Bowen completed a plant expansion and the creation of storage and equipment needed to treat an additional 20 million gallons of water per day at the Cavin Water Treatment Plant. This project increases capacity of the plant from 10MGD to 30MGD, and allows the team to decommission a nearby aging facility with areas constructed as early as 1905. The expansion to the water treatment system will provide redundancy and reliability to the water system.

The project includes the addition of (2) 10 MGD trains, a new lime treatment system, a chlorine conversion, a new 2.5 million gallon storage tank, new 36" main, and a new 8" sludge line.

Project Challenges:

- Working in an active facility.
- Project touched all areas of the aging WTP. Traffic management, site access and laydown in a tight location were difficult.
- The underground portion of the project dealt with an extremely wet season.

Bowen Results:

- Bowen resequenced the main pipe gallery phase of the project, placing in precast beams ahead of the deck pour, so that the gallery piping could be flown in overhead via crane, and supported via the beams. This saved the team significant production in construction of this large diameter pipe gallery.
- The project received positive coverage from local new sources, being featured in several articles.
- Project was completed within budget and on schedule.

PROJECT SCOPE

- Site Work
- Civil/Concrete Work
- Underground Piping
- Structural Steel Erection
- Pre-Engineered Building(s)
- Equipment Setting
- Ductwork
- Mechanical/Piping
- Architectural/Finishing Work

PROJECT SPECS

- 55,000 CY of Excavation Backfill
- 220 Auger Cast Piles
- 1,000 SF of Sheet Piling
- 7,000 CY of Concrete
- 7,000 LF of Underground Piping
- 60" Diameter Piping
- 3 Buildings

PROJECT TEAM

- Bowen Contact: Joe Wargel
- Bowen Superintendent: John Eastes
- Owner Contact: Russ Evans, PM
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- Engineering Partner: HDR



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