

# The City of Greenup Water Treatment Plant Greenup, Kentucky

## Client/Location

The City of Greenup  
1005 Walnut Street  
Greenup, KY 41144

## Client Reference

Lundy Meadows  
City of Greenup  
Mayor  
(606) 473-7331

## Project Status

Bidding

## Dates of Service

Design – 2018

## Special Features

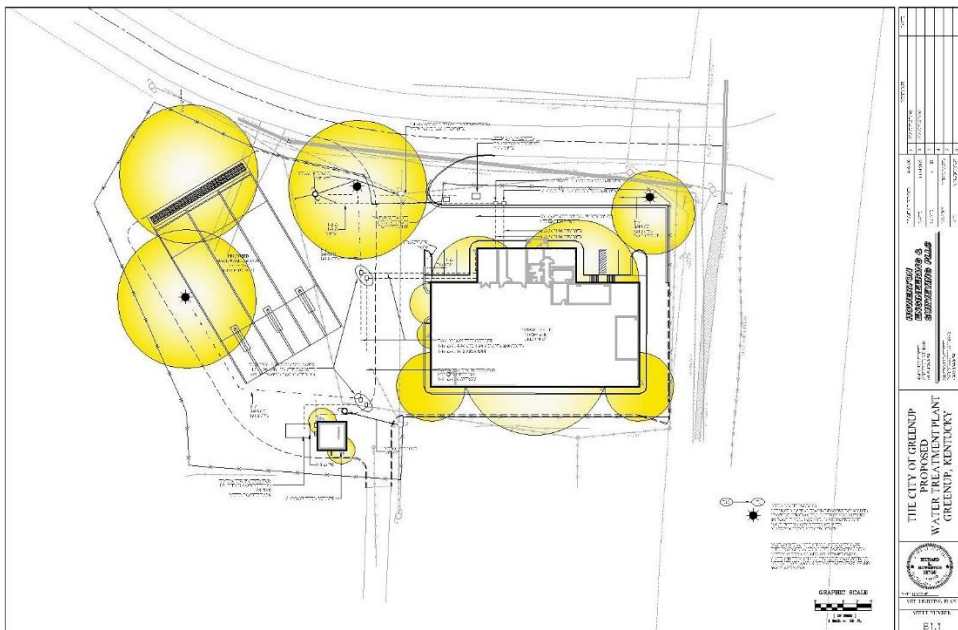
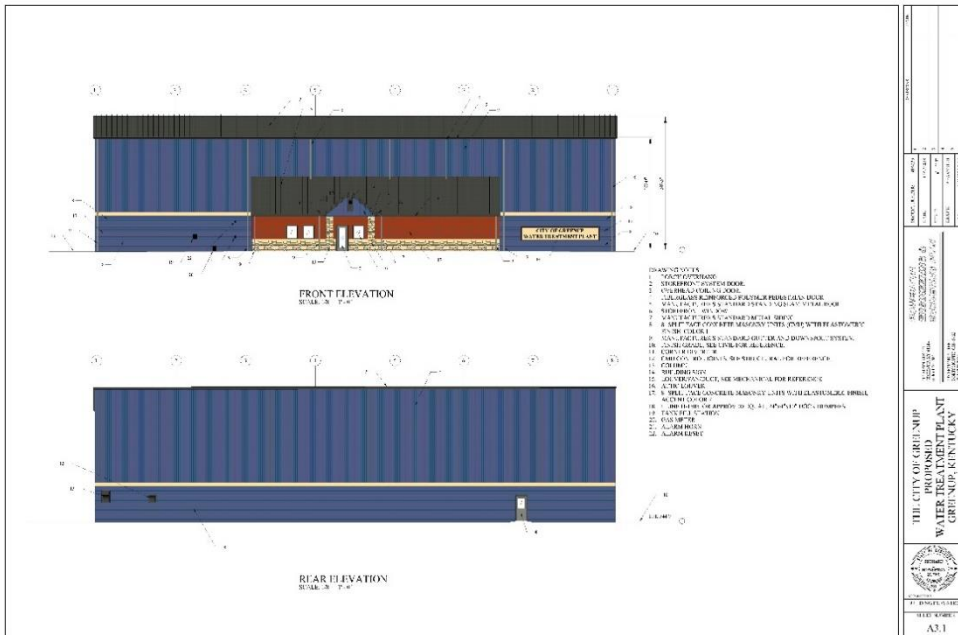
- Access Road Design
- Water Treatment Plant Design
- Structural Design
- Waterline Extension
- Property Taking
- Backwash Lagoon
- DOW Permitting
- Boundary Survey
- Filtration Design & Permitting
- Topographic Survey
- KYTC Permitting
- AEP Coordination
- Jar Testing
- Site Lighting Design



## Project Description

The City of Greenup currently operates a single, conventional water treatment plant having a capacity of 3 MGD. The source water for the existing facility is the Little Sandy River where dual withdrawal points adequately meet the currently demand under less than desirable conditions. Winter outages are consistently a problem due to the mercurial nature of the River Source, aged equipment and an undersized floating intake structure. Water supply considerations for the City of Greenup were studied and reported upon in 2013 by Howerton Engineering and Surveying, PLLC who reviewed the prior water supply and capacity considerations, and completed an update with respect to current conditions and projected needs. Water supply sources that were reviewed and evaluated during that study included both the Little Sandy and Ohio Rivers. In addition, the yield of Little Sandy River, raw water quality characteristics, pending regulatory considerations, sedimentation, and climate change impacts were reviewed. Based upon HES's review and evaluation of the water supply, the Little Sandy River has a sufficient safe yield beyond 2046 based on water demand projections. It is recommended that City of Greenup consider discussions with the Kentucky Department of Natural Resources (IDNR) and the US Army Corp of Engineers to secure the water supply into the future from Little Sandy River as it is a viable and reliable long- term source.

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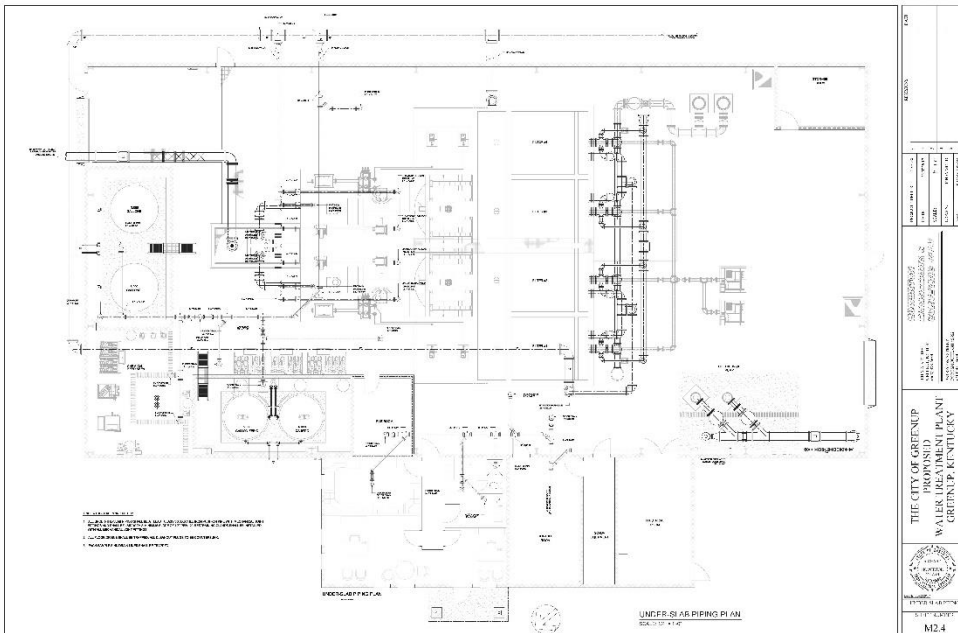
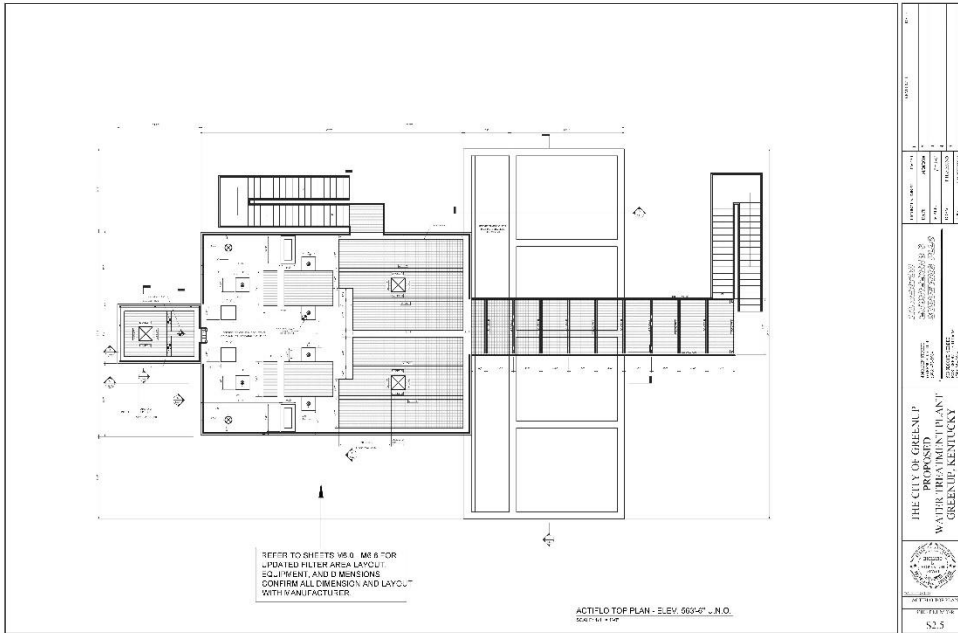
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**HOWERTON  
ENGINEERING &  
SURVEYING PLLC**

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