

HYDRAULIC/HYDROLOGY ANALYSIS AND STORM SEWER DESIGN WARRENTON, MO

Year: 2022

Client: City of Warrenton

Project Manager: Tiffany S. Danz

Immediate Supervisor: Raymond H. Frankenberg

Contact: Jon Struckhoff

Director of Operations

200 West Booneslick Road

Warrenton, MO 63383

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BFA

Hydraulic/Hydrology Analysis and Storm Sewer Design

Engineering & Surveying Services Cost
 Estimated: \$66,276.00
 Actual: \$61,333.50
 Construction Project Time Estimated: 60 Days
 Construction Cost
 Estimated: \$275,723
 Actual: \$261,904.00
 *Net change by change order \$4,175.00
 Low bid: \$266,079.00

BFA provided Professional Engineering and Surveying Services for the City of Warrenton to assist in road widening and stormwater improvements along West Booneslick Road to be constructed in multiple phases. BFA completed preliminary plans for all phases and bid documents for Stormwater Improvements Phase 1. Phase 1 included designing the storm sewer layout and hydraulic calculations from the intersection of Highway U

to 631 W Booneslick Road. BFA designed the storm sewer to accommodate a curb and gutter during future road widening phases. The road ditches were also designed to provide a mowable slope for easy maintenance and storm sewer drainage. Survey Services included calling in a Public Utility Locates, gathering field data of the existing site features, and rendering the topographic data in AutoCAD. After construction of Phase 1, surveying services included construction stakeout, As-built documentation, periodic site visits to observe contract document conformity, and documentation of project diary.

