



Department Source: City Utilities - Sewer/Stormwater

To: City Council

From: City Manager & Staff

Council Meeting Date: May 15, 2023

Re: Authorizing First Amendment to Professional Engineering Services Agreement with Barr Engineering Co. for the Nebraska Avenue Storm Water Improvement Project.

Executive Summary

Staff has prepared for Council consideration a resolution authorizing the City Manager to execute an amendment to the professional engineering services agreement with Barr Engineering Co. for design services related to the Nebraska Avenue Storm Water Improvement Project.

Discussion

Barr Engineering Co. was chosen from the Pre-Qualified Consultants list utilizing ordinance 024847 to provide design services for the Nebraska Avenue Storm Water Improvement Project. On May 2, 2022, Council adopted Resolution 64-22 authorizing a professional engineering services agreement with Barr Engineering Co. for its design services related to storm water improvements at Nebraska Avenue. The public hearing was held on April 3, 2023.

The professional engineering services agreement for the Nebraska Avenue storm water improvement project is for a not to exceed amount of \$119,495.00 and includes the following:

- topographic boundary survey
- utility coordination
- geotechnical investigation
- hydrological analysis
- sealed set of construction documents
- construction submittal review for structural elements of the design

Utility coordination revealed utility conflicts that require a storm box design that is more complex than the anticipated precast design. Thus, Barr Engineering Co. must design custom drainage structures to accommodate the existing utilities. Customization of these structures required structural engineering plans for cast in place concrete structure design. Prior to the site investigation the contract anticipated that precast structures could be used which required limited design effort. As a result of this and the extents of the utility conflicts, Barr Engineering Co must complete additional work as outlined in their amended scope of services dated April 10, 2023. The additional professional services include:

- Addressing comments provided by the City of Columbia
- Completed Temporary Traffic Control Plans: showing at least two separate phases of construction



City of Columbia

701 East Broadway, Columbia, Missouri 65201

- Completed Structural Plans: customized structural sheets that represent sections of the culvert as required with sufficient dimensional and reinforcing detail for field construction.
- CAD Deliverables: Any Auto CAD/Civil 3D design files etc.

The proposed first amendment to professional services agreement is for an additional \$40,000 increasing the total not to exceed amount of the agreement to \$159,495.00. It is anticipated that the construction of the improvements to be completed during the fall of 2024.

Fiscal Impact

Short-Term Impact: First Amendment is for \$40,000, increasing the total not to exceed amount to \$159,495.00.

Long-Term Impact: None

Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Reliable Infrastructure, Secondary Impact: Secondary, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Environmental Management, Tertiary Impact: Tertiary

Legislative History

Date	Action
04/03/2023	PH12-23 Proposed replacement and improvement of public storm drainage infrastructure on Nebraska Avenue.
03/06/2023	R32-23 Setting a public hearing: proposed replacement and improvement of public storm drainage infrastructure on Nebraska Avenue.
05/02/2022	R64-22 Authorizing a professional engineering services agreement with Barr Engineering Co. for design services relating to the proposed Nebraska Avenue storm water improvement project.

Suggested Council Action

Authorize the City Manager to execute first amendment to the professional engineering services agreement with Barr Engineering Co. to complete design services for the Nebraska Avenue Storm Water Improvement Project.