



November 1, 2017

Stefan Higgins
Assistant City Engineer
Engineering Department, City of Blaine
10801 Town Square Drive NE
Blaine, MN 55449

Sent via e-mail to shiggins@ci.blaine.mn.us

Re: Proposal for Design Services for Wells 20 & 21, Northeast Wellfield—Blaine, Minnesota

Dear Mr. Higgins:

As discussed at several meetings and via email, changes to our original scope have occurred for the existing Barr Engineering Co. (Barr) project related to the Northeast Wellfield. All changes documented in this letter were made at the request of the City and relate to the addition of two wells to the original design and bidding scope of services agreement dated November 10, 2015. This letter includes a brief outline of the proposed design services (Project Scope), a list of key team members (Project Team), a proposed design fee (Fee Proposal) and the time frame during which these services will be provided (Project Schedule).

Project Scope

As requested by the City Barr has designed two additional wells for the Northeast Wellfield, Wells 20 and 21. The two additional wells will combine with Wells 18 and 19 to provide supply to future Water Treatment Plant 4 (WTP4). The intent is for one of the wells to be completed in the sand and gravel quaternary aquifer and the other to be completed in the Tunnel City Wonewoc aquifer. The preliminary plan for WTP4 is to have the capacity to treat 6,000 gpm. The addition of the two wells will bring the total supply from the NE Wellfield close to that amount. Provisions will be made by the City in the design of the raw water collection main to accommodate additional wells should they be needed. The scope of services for the design of the two wells will include the following general tasks:

- Siting Well 20: We will work with the City to select the exact location and orientation of Well 20 on the site east of Lexington to facilitate connection to the existing raw water collection main installed in the street.
- Siting Well 21: We will also work with the City to determine the exact location for Well 21 which will be on a site south of Water Tower 4 near the entrance of the proposed Wetland Sanctuary on the west side of Lexington.
- Design of one screened well.
- Design of one open-hole bedrock well.

- Design of the pumps motors and downhole equipment for two wells.
- Electrical and control design for two wells.
- Design of the pitless adapters for two wells.
- Design of valves and flow meters including the vaults in which they will be located for two wells.
- General site grading and restoration for two wells
- Preparation of plans and specifications for the two wells included in the bidding package for the four wells in the Northeast Wellfield.
- Work with the Minnesota Department of Health so that the wells conform to well codes and to obtain approval of the well plans prior to contract award.
- Provide additional bidding phase services as needed to accommodate the two additional wells.
- Attend two council meetings/workshops to provide project updates during design.

We realize that addition of some items, like additional wells, offer cost savings based on design efficiencies, and have adjusted our request as such. In addition to this, our fee has been adjusted to account for other changes in the original scope such as the removal of the design of the watermain and the survey, which are being provided by the City.

Project Team

Barr will provide staff familiar with the project to perform the design services. Staff committed to this project include Brian LeMon who will serve as the Principal in Charge and will be responsible for overall project delivery and client satisfaction. Michelle Stockness will serve as project manager and deal with the day to day coordination of the designs, billing and deliverables. Well siting and design services will be provided by appropriate staff familiar with Blaine and well codes. Additional staff will be used as the need arises. Additional information can be provided about any project staff at the City's request.

Fee Proposal

Barr will provide the services described in this proposal for a lump sum fee of \$52,000. We will not bill for more than this amount without authorization from you.

Project Schedule

The services described in this proposal were provided during the design of the project bid package. The overall schedule is based on an assumed completion of all well construction by the end of 2017. Design services related to the altitude valve and temporary chemical feed system are included in our original proposal which will be bid as part of an upcoming watermain bid package being prepared by the City.

The services described in this proposal will be governed by the terms and conditions of the existing master services agreement between Barr and the City. If this proposal is acceptable, please indicate acceptance by signing in the space provided below and returning a copy to us for our records. Thank you for providing us with this opportunity. We appreciate working with Blaine to improve your water system, and if you need more information related to the services described in this letter it can provide upon request.

Bill M

Michelle Stourness

By _____ By _____

Its _____ Date _____ Its _____ Date _____