

City of Blaine
Request for Council Action
Meeting Date: November 8, 2021

Subject: Switch Farm Contract Amendment - Braaksma Engineering

Department: Public Works

Prepared By: _____
(Digital Signature)

Agenda Location: Consent Agenda Council Action Unfinished Business

Attachments:

1. Draft Contract Amendment

Background/Summary:

As a result of an elongated outage due to the lack of sectionalizing and switching Blaine’s four main electrical feeders during a 2020 emergency a switch farm is being designed to aid in reducing outage time. The switch farm will incorporate four main feeder switches at one location making it easier to switch alternate feeds and maintain as many customers in service as possible during emergency situations.

The addition of the four main switches will greatly enhance the overall performance of the electrical system.

The purposed amendment to the original contract is primarily due to additional expense for Braaksma Engineering to provide additions to the design and to provide switchgear terminations and interface with Puget Sound Energy’s substation equipment.

Budget Implications: Current Budget New Budget Request Non-Budgetary

Funding for this project is in the 2021 Electrical Capital Budget

Recommendation:

Staff recommends that Council authorize the City Manager execute a contract amendment with Braaksma Engineering for engineering design services and construction management support in an amount not to exceed \$102,850.

Reviewed By:

City Manager _____ Finance Director _____ City Clerk _____
(Digital Signature) (Digital Signature) (Digital Signature)

CITY OF BLAINE
CONTRACT AMENDMENT #1
TO
PROFESSIONAL SERVICES AGREEMENT
Switch Farm Project

The contract between the City of Blaine and Braaksma Engineering for engineering services dated May 1, 2021 is hereby amended as follows:

- Item #1:** Section 1, Scope of Works, shall be amended to add additional design time and budget for changes to better suit the long term operation and reliability resulting in construction savings as described in more detail in attached letter dated October 7, 2021.
- Item #2:** Section 2, Term, shall remain unchanged.
- Item #3:** Section 3, Compensation, the City shall pay the Consultant \$31,000 on a time and material basis for additional professional services, for a revised contract amount of \$102,850.

All work shall comply with City standards and must be approved by the City prior to payment.

All other items, terms and conditions of the contract remain unchanged.

City of Blaine:

Consultant:

Michael Jones, City Manager

Braaksma Engineering

Attest:

Departmental Approval:

Samuel Crawford
City Clerk

Bernie Ziemianek
Public Works Director



B R A A K S M A E N G I N E E R I N G
electrical engineering

October 7, 2021

City of Blaine
Department of Public Works
Attn: Bernie Ziemianek, Public Works Director
1200 Yew Avenue
Blaine, WA 98230

Hello Bernie:

This letter is a continuation of proposal given April 27, 2021 for design and construction support of the Switch Farm Project, consisting of improvements to Blaine Feeder Circuits near the Puget Sound Energy substation. These changes were initiated by industry wide material shortages attributed to the pandemic. The changes resulted in a project that better suits long term operation and reliability, and will result in construction contract savings.

The following work-scope changes have impacted our design time and budget.

- 1) Changes in material and configuration to match regional power company standards. Original design included input from previous administration and working staff recommendations. The revised configurations will bring advantage to the long term operation and maintenance of the installation but required reworking earlier design completed.

Estimated time to complete the work-scope change is 100 man-hours billable at \$10,000.

- 2) The schedule has been extended. This project was expected to be issued for Bid in June. The design process has been extended into October.

Estimated time required for this adjustment is 40 man-hours billable at \$4,000.

- 3) Changed scope in having the City of Blaine provide the materials. This change will ensure compatibility with City of Blaine standards, eliminates risk the bidders, and ensures the materials are available.

Estimated time to complete the work-scope change is 170 man-hours billable at \$17,000.

*The total estimate time to complete these changes is 310 man-hours billable at \$31,000.
(Hourly rates are \$115 for engineer, \$90 for designer/specialist, \$60 for drafter.)*

Please let me know if this can be included in a contract extension or if other mechanism may be employed. I look forward to your review of this proposal. Please call me if you have questions or concerns at 360-734-7416.

Sincerely,

Gary Braaksma



Assumptions for this work include:

- 1) Above estimate is quoted on a time and expense basis, not to exceed the estimated amounts. Hourly rates are \$115 for engineer, \$90 for designer/specialist, \$60 for drafter. Rates include local travel (no mileage charge) and nominal office expenses. Large format copies will be billed at cost.
- 2) The City of Blaine will be kept apprised of work progress and will be billed monthly. The volume of work may be adjusted per requirements and availability.
- 3) Construction support estimate includes assumption that the work will be awarded in early November and completed by the end of January 2021. If the construction schedule is extended or delayed, this may cause the hours to change.
- 4) System protection estimate includes settings developed to coordinate with Puget Sound Energy Substation settings (received). It is expected the Blaine feeder (600A position) settings will be set as high as possible, to not trip, with protection provided by PSE breakers for a feeder event. It is also expected that Blaine distribution (200A positions) will be selected to coordinate (and selectively clear) a distribution event, and that these settings will be uniform for all 200A positions (which constitutes good utility practice).

If other protective features are desired such as coordinated feeder clearing, or unique distribution settings for each position; this could impact the time required to complete this work.

Also, if PSE suggests revised settings for their circuit breakers that could impact the time required to complete this work.

- 5) Other services may be rendered at the City of Blaine's option on a time and expense basis at the above rates.
- 6) This proposed extension abides by other terms of work in progress.