



TO: Mayor Chuck Barney
Members of the City Council

FROM: Dan Jonasson, Director of Public Works

DATE: 4-17-2017

SUBJECT: Sundre Raw Water Line RE-Route 4195

I. RECOMMENDED ACTION

State what you want the Council/Mayor to do – this will become their motion. List each action separately.

1. Recommend approval of the Construction engineering agreement with Houston Engineering
2. Authorize the Mayor to sign the agreement

II. DEPARTMENT CONTACT PERSONS

Dan Jonasson, Director of Public Works	857-4140
Jason Sorenson, Assistant Director of Public Works	857-4132

III. DESCRIPTION

A. Background

As the City and SRJB has progressed with the design of the first three phases of flood protection. It has become apparent that a large portion of the existing fiber glass Sundre raw water line, that brings water from the sunder wellfield SE of Minot to the Water plant will need to be relocated for the flood protection. The estimated cost of relocating this line for Phase I of the flood control project alone is \$2.25 million dollars. When the Maple Diversion project is built, it is estimated that an additional \$5 Million + will be required to relocated the sunder line in that phase.

In reviewing the costs for the relocation of the sundre line, which is a 40 year old fiber glass line, with leaks and it difficult to acquire repair parts for. Staff began looking at other options, such as alternate routes to re-route the sunder line

In discussions with the SWC and the design engineers for the NAWS project. They feel there are many benefits to re-routing the sundre line and tying it into the NAWS line. Some of the benefits include:

1. Replacing an old fiberglass line with a smaller pressure line that can be maintained and parts are available for.
2. Providing a mixing of ground water with the lake water prior to final treatment at the Minot Water Plant.

3. Provide raw water storage from the Sundre field of approx. 2 million gallons, which will reduce the amount of storage needed on the line coming from the water plant at Max.

B. Proposed Project

Replacement of existing fiberglass line with a 24" pvc pressure line and reservoir

C. Consultant Selection

Houston Engineering was chosen for the design and Construction engineering under the state requirements for engineering selection. Houston has completed the design, project is being bid in April and May. This contract is for the field construction engineering services.

IV. IMPACT:

A. Strategic Impact:

This is the major raw water source for the City of Minot and NAWS system

B. Fiscal Impact:

Funding for this project was approved by City Council at the March 2016 Council meeting. The Construction Engineering in total is estimated at not to exceed \$784,650 plus additional services of \$85,000 for SCADA and electrical work.

This engineering along with the design engineering amount of \$745,300 is under the approved fee schedule which is previously approved by Council of 11%.

Funding for this project is from NAWS sales tax cash reserves. 65% of the cost will be reimbursed by the State Water commission on a future NAWS project.

V. ALTERNATIVES

Alt 1. Approve the existing project and engineering – for a cost of approximately 13.5 million with engineering.

Alt 2. The City Council could deny project which will require more engineering and a more expensive cost for relocating portions of the Sundre line where it conflicts with the flood control system.

VI. TIME CONSTRAINTS


Council's approval of the recommendation will allow the project to be constructed within the 2017 and early 2018 construction season. This will remove the existing Sundre line where it conflicts with Broadway bridge and Mouse River flood protection projects, allowing those to stay on schedule.

VII. LIST OF ATTACHMENTS

Place your list of attachments here, in order they were referenced in the document. For example:

A. Houston Engineering Agreement for Construction engineering services

Approved for Council Agenda:

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Date:

