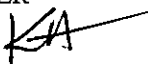

MEMORANDUM

TO: STEVE GIESBRECHT, BOROUGH MANAGER
FROM: KARL HAGERMAN, UTILITY DIRECTOR 
SUBJECT: UPPER DAM SPILLWAY REHABILITATION – CHANGE ORDER #1
DATE: 6/21/2018
CC: JODY TOW, FINANCE DIRECTOR
JANET HOLTEN, ACCOUNTANT

Reid Brothers Logging and Construction, Inc has issued a proposal in response to RFP #1 on this project.

RFP #1 was issued to seek pricing from our Contractor for items that need repair on the dam but were left off of the project bid schedule due to budget concerns. Once the project bids were received, and the low bid favorable to considering more work that fits within the project budget, the water department was able to develop a scope of additional work for the Assembly to consider.

The RFP is attached to this memo, but to summarize the scope it will address the damaged steel superstructure above the dam gates on which the gate operating motors and gear boxes are mounted. Additionally, the gate operating motors, gear boxes, controls, conduit and wiring will be replaced to ensure proper operation long into the future.

The State of Alaska Dam Safety program has made a point of requesting repairs to the steel in the past and current periodic safety inspections, which are mandated by their agency every three years. With the budget for the spillway rehabilitation set at \$400,000 and a Reid Brothers bid of \$219,720, the water department and Borough is in a good position to accomplish this work and remedy these long-standing concerns of the State.

I recommend approval of Change Order #1, on a Time and Materials basis, for a not-to-exceed amount of \$46,146.82. This will raise the value of the contract to \$265,866.82.

Please let me know if you have any questions.

Thank you.

Petersburg Borough
Request for Proposal

Contractor's Name: Reid Brother's Construction RFP No. 01
Project Name: Upper Dam Spillway Rehabilitation Spec. No. _____
Area Involved: Spillway Gate Operators Drawing No. _____
Description of Request: Direct replacement of steelwork and electrical/drive components

Work generally consists of:

1. Replacement of two spans of gate operator frames, on Gates 1 & 2, to be fabricated identically to the existing frames. The goal is to replace the damaged existing frame members in-kind as allowed by the State of Alaska Dam Safety Program.
 - a. Gate operation screws, screw jacks and operating couplings shall be retained and reused. Removals of any equipment to be reused must be approved by the Borough and safely stored/protected during the work.
 - b. All steel fabrications shall be cleaned, primed and fully coated with two coats of approved epoxy based paint (dark red). All scrapes, chips or abrasions of the paint shall be touched up after final mounting.
2. Replacement of the electrical motors and gear reduction boxes for Gates 1 & 2.
 - a. Motors shall match existing frame and coupling to gear reducer. Motors shall match name plate data on existing motors. Motors must be severe duty and rated for exterior exposure and all weather conditions.
 - b. Gear reduction boxes shall be the same frame and shaft output size as the existing units. Gear reduction shall match existing units. Replacement of drive sprocket and drive chain shall be included.
 - c. All Lovejoy rubber coupling inserts shall be replaced.
3. Replacement of gate operation push button stations and limit switches at Gates 1 & 2.
 - a. Contractor shall replace the remote push button stations for each gate operator. The finished stations shall function on a momentary basis, requiring personnel to maintain the button pressure to operate the motors to raise or lower the gates. However, operation of the gate operators from the blower shack shall be latching until a remote momentary button is pushed at the gates. Push button stations shall be rated for severe duty, exterior applications (Type 4X) and mounted to be accessible to personnel standing on the catwalk. Changes to conduit to allow pushbutton station replacement shall be subsidiary to the pushbutton replacement.
 - b. Existing non-functioning limit switches on the screw jacks shall be replaced with new limit switches (Type 4X) and fully tested to halt screw jack operation when activated at gate high level and low level limits. High and low level limit settings shall be approved by the Borough.
4. Contractor shall evaluate all existing wiring on the dam gate operation circuit, motor leads and lighting circuit and replace all deficient wiring with code compliant materials. The Contractor is responsible for obtaining an electrical permit from the Borough for the electrical work.

By: _____ **Date** _____

Reid Brothers Logging & Construction, Inc.

Reid Brothers Logging & Construction, Inc.
339 Mitkof Highway – PO Box 1187
Petersburg, Alaska 99833
(907)772-3755
June 20, 2018

Spillway Gate Operators Both Units

- Steel plate (Seaport): \$1,126
- Shipping: \$160.57
- C Channel 4"x6.25#: \$101
- JR Channel 12x10.60#: \$1,160
- Tax: \$122.00
- Shipping 973#: \$260.93
- (2) Sprocket #1 on gear drive: \$180
- (2) Sprocket #2 on shaft: \$180
- (2) Chain drive: \$200
- Shipping: \$30
- (6) Love Joy Spider 1.375: \$162
- (16) 1/2"x2" Bolts, grade 8: \$30
- (32) 1/2" Flat washers: \$10
- (16) 1/2" Nuts: \$10
- 1 Gal. red epoxy 2 part Amercoat 229T: \$139 (2 or 3 weeks out for red)
- 1 Gal. gray primer Amercoat DEV235HG 2 part: \$66
- Paint supplies (rollers, brushes, etc.): \$50
- 2 Electrical Motors: \$1,372
- 2 Gear Reduction Boxes: \$5,388
- Shipping from Missouri to Petersburg: \$304.34
- Uni strut: \$40
- (6 hrs @ \$76.38) Ordering/research/measuring: \$458.28

- (48 hrs @ \$76.38) Disassembling & storage: \$3666.24
- (60 hrs @ \$76.38) Assembling: \$4582.80
- (30 hrs @ \$78.28) Welder: \$2348.40
- (30 hrs @ \$78.28) Metal fabbing: \$2348.40
- (12 hrs @ \$71.26) Prep/prime/paint: \$855.12
- (2 hrs @ \$71.26) Touch up paint: \$142.52
- (10 hrs @ \$81.84) Boom truck operator: \$818.40
- (16 hrs @ \$81.84) Telehandler operator: \$1,309.44
- (10 hrs @ \$85.91) Boom truck: \$859.10
- (16 hrs @ \$85.91) Telehandler: \$1374.56
- (16 hrs @ \$85.91) Service truck: \$1,374.56
- Extra SWPP days, 6 hrs per week @ \$81.84: \$491.04
- Extra Water control days, 2.5 hrs per day @ \$76.38: \$190.95
- Mattingly Electric materials & shipping: \$3,000
- Mattingly Electric, 64 hrs @ \$110.00 per hour: \$7,040
- 10% Markup on total for all items: \$4,195
- Grand total: \$46,146.82

Reid Brothers Logging and Construction
Upper Dam Spillway Rehabilitation Project
RFP #1 Cost Proposal 6/18/2018
Submitted by Larry Young

Qty/Hrs	Description	Price	10% markup	Adjusted Price
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Materials

1	Steel plate	\$1,126.00	\$112.60	\$1,238.60
1	Plate shipping	\$160.57	\$16.06	\$176.63
1	C Channel 4" x 6.25#	\$101.00	\$10.10	\$111.10
1	JR channel 12" x 10.6#	\$1,160.00	\$116.00	\$1,276.00
1	Tax on steel	\$122.00	\$12.20	\$134.20
11	shipping on steel	\$260.93	\$26.09	\$287.02
2	sprocket #1 gear drive	\$180.00	\$18.00	\$198.00
2	Sprocket #2 shaft	\$180.00	\$18.00	\$198.00
2	chain drive	\$200.00	\$20.00	\$220.00
	shipping	\$30.00	\$3.00	\$33.00
6	Lovejoy spiders 1.375	\$162.00	\$16.20	\$178.20
16	1/2" x 2" Grd 8 bolts	\$30.00	\$3.00	\$33.00
32	washers	\$10.00	\$1.00	\$11.00
16	nuts	\$10.00	\$1.00	\$11.00
1	red epoxy Amercoat 229T	\$139.00	\$13.90	\$152.90
1	gray primer Mercoat DEV235HG	\$66.00	\$6.60	\$72.60
1	paint supplies	\$50.00	\$5.00	\$55.00
2	electric motors	\$1,372.00	\$137.20	\$1,509.20
2	gear reduction boxes	\$5,388.00	\$538.80	\$5,926.80
1	shipping	\$304.34	\$30.43	\$334.77
1	unistrut	\$40.00	\$4.00	\$44.00
1	Mattingly materials/shipping	\$3,000.00	\$300.00	\$3,300.00
Materials Subtotal		\$14,091.84	\$1,409.18	\$15,501.02

Labor

6	Proposal development	\$458.28	\$45.83	\$504.11
48	dissassembly/storage	\$3,666.24	\$366.62	\$4,032.86
60	Assembly	\$4,582.80	\$458.28	\$5,041.08
30	Welder	\$2,348.40	\$234.84	\$2,583.24

30	Metal Fab	\$2,348.40	\$234.84	\$2,583.24
12	prep/prime/paint	\$855.12	\$85.51	\$940.63
2	Touch up paint	\$142.52	\$14.25	\$156.77
10	Boom truck operator	\$818.40	\$81.84	\$900.24
16	Telehandler operator	\$1,309.44	\$130.94	\$1,440.38
6	Weeks of SWPPP O&M (6hrs/wk)	\$491.04	\$49.10	\$540.14
2.5	Water level control (hrs)	\$190.95	\$19.10	\$210.05
64	Mattingly Electric	\$7,040.00	\$704.00	\$7,744.00
	Labor Subtotal	\$24,251.59	\$2,425.16	\$26,676.75

Equipment

10	Boom truck	\$859.10	\$85.91	\$945.01
16	Telehandler	\$1,374.56	\$137.46	\$1,512.02
16	Service truck	\$1,374.56	\$137.46	\$1,512.02
	Equipment Subtotal	\$3,608.22	\$360.82	\$3,969.04

Subtotals with markup

Materials	\$15,501.02
Labor	\$26,676.75
Equipment	\$3,969.04

Total	\$46,146.82
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CHANGE ORDER FORM

Contractor: **Reid Brothers Logging and Construction, Inc.**

Change Order No: **1**

Project: **Upper Dam Spillway Rehabilitation Project**

Date: **6/21/18**

The contractor shall make the following changes in this contract (supporting documents attached):

All items detailed in RFP #1 and associated proposal which is attached to this form inclusive of: replacement of damaged steel beams, replacement of gate operator motors and gear boxes and replacement of various electrical components.

The original contact sum \$219,720

Net changes by previously authorized change orders: 0

Contract sum prior to this change order was: \$219,720

Contract sum will be:

Increased x
Decreased
Unchanged

By this change order: \$46,146.82

The new contract sum including this change order will be: \$265,866.82

This change order does not change the project final completion date of Sept 28, 2018

Recommended by:

Agreed to:

Karl Hagerman, PW Director

Bosjun Reid, Reid Brothers

Date

Steve Giesbrecht, Borough Manager Date