



February 27, 2023

Brad Ryan
Municipality of Skagway Manager
PO Box 415
Skagway, AK 99840

**Re: Skagway Ore Dock Development Project – Marine Service Platform Final Design
KPFF Scope and Fee Amendment
Project No. 10092100135**

Brad,

We have prepared this scope of work amendment based on conversations with you and your team regarding the advancement to final design for the Marine Service Platform for the Ore Peninsula Redevelopment project based on conversations with you and your team.

General Project Understanding

The marine service platform is a wharf used to support the export of mineral concentrates from Yukon mines to replace the existing ore loader that is demolished as part of the current Ore Peninsula Redevelopment project. The proposed service platform consists of a 60 ft x 220 ft wharf accessed by a 40 ft trestle from the uplands constructed with two dolphins. This wharf and trestle would support reach stack container handler (i.e., Kalmar DRG450) or a mobile harbor crane (i.e., Liebherr LMH-280) and HL-93 design vehicles as defined by the *Project Memo – Skagway Ore Terminal Redevelopment* prepared by Ausenco Engineering Canada Inc. dated 2022-04-06. This structure will also capture and treat stormwater runoff.

KPFF has assembled a team of subconsultants to aid in design including:

- RESPEC – Electrical Engineering
- Anchor QEA – Stormwater assessment

KPFF Scope of Proposed Services

KPFF proposes to provide the following services as part of this scope and fee proposal:

Task 1: Project Management and Design Coordination

KPFF will provide general project administration, invoicing, and coordination with subconsultants and MOS staff.

- Monthly invoices will be provided for this work
- Coordination with subconsultants includes weekly design meetings and periodic coordination with the upland designer.

- This task also includes regular bi-weekly meetings with MOS to discuss questions and make collaborative decisions on the direction of the project.

Task 3: Marine Service Platform Final Design & Bid Support

KPFF will advance the design for the marine service platform (MSP) from 60% to Final Design. Items to be incorporated to the MSP are containment of run off, fire and water utilities, stormwater management, and providing power for capstans and lighting. This task also includes coordination and work to support the bidding process.

Task 3 Deliverables include:

- Final Design Drawings
- Final Order of Magnitude Estimate
- Final Calculations
- Final Basis of Design
- Final Specifications

Schedule

- 90% Design Submittal End of March 2023
- 100% Design submittal Early May 2023
- Project Bid Support Early May to Mid June 2023

Scope Assumptions & Exclusions

The work of this project will require that the following be provided by the MOS:

- The MOS and Yukon government will provide reviews of each design submittal within 2 weeks of submission.
- Excluded from this scope of work amendment is construction support and construction management services, these will be added at a later date.

Scope Exclusions

The following items are not included as part of this scope, however KPFF is ready to provide these as additional services if required:

- Design of structures or other mechanical components not explicitly defined
- Geotechnical explorations
- Permit Fees
- Construction Management
- Construction Support Services

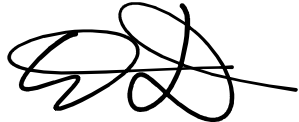
Scope Fees

The total estimated not-to-exceed maximum fee amendment, including reimbursable expenses, for the services described in this letter is **\$283,542** to bring the total MPS design services to \$544,542 (including previous 30% Design and 60% Design). Fees will be billed on an hourly basis using the hourly rates presented on the attached fee schedule. Reimbursable expenses will be billed at cost with no markup and

no additional markup will be applied to subconsultants reimbursable expenses. All work will be performed in accordance with the attached Terms and Conditions.

We appreciate this opportunity to work with the Municipality of Skagway. We are available to discuss this proposal at your convenience. Please contact me at (206) 382-0600 should you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ed DeBroeck', with a long horizontal stroke extending to the right.

Ed DeBroeck, PE (WA & CA), DBIA
Associate
CC: Bob Riley, PE, Principal

Attachments

1. Detailed Fee Schedule
2. Anchor QEA Proposal

Ore Peninsula Redevelopment Project – Marine Service Platform Final Design

Scope Fee Estimate
2023-02-23

#	2023 Hourly Rate	KPFF									Subconsultants			Total
		Principal	Project Manager	Senior Technical Specialist	Senior Engineer	Professional Engineer	Design Engineer	Project Coordinator	Senior CAD Tech	CAD	Anchor QEA	RESPEC	Other Sub	
											Environmental Stormwater	Civil & Electrical	Corrosion Protection	
		\$270	\$245	\$250	\$220	\$192	\$170	\$138	\$150	\$133				
	Task 1: Project Management & Design Coordination				32	24		24			\$ -	\$ -	\$ -	\$ 14,960
	Overall Project Management, Invoicing and coordination				24			24						
	Coordination Sub Consultants				8	24								
	Task 3: Marine Service Platform Final Design & Bid Support	56			150	414	344	24	8	124	\$ 14,790	\$ 40,000	\$ 2,500	\$ 264,382
3.01	Marine Service Platform Final Design													
	Structural Analysis and Design	12			20	100	100						\$ 2,500	
	Utilities, Grading, and Stormwater Design	12			60	150	80				\$ 14,790	\$ 30,000		
	Drawings					40	60			100				
	Specifications	4			20	60		24						
	Calculations & Building Permit	8			8	40	40							
	QA/QC	16			10		40							
3.02	Electrical Design											\$ 10,000		
	Upland Coordination					16	8			8				
	Electrical drawings coordination				8		8		8	8				
	QA/QC				8									
3.03	Bid Support	4			16	8	8			8				
	Total Hours	56			182	438	344	48	8	124				

Subconsultant Summary	Fee	Expenses	Total
Anchor QEA - Stormwater Evaluation	\$ 10,000	\$ -	\$ 10,000
RESPEC - Civil - Upland Civil Engineering	\$ 30,000	\$ -	\$ 30,000
Norton Corrosion	\$ 2,500	\$ -	\$ 2,500
RESPEC - Electrical Engineering	\$ 10,000	\$ -	\$ 10,000
Subtotal	\$ 52,500	\$ -	\$ 52,500
Subconsultant Markup 8%	\$ 4,200	\$ -	\$ 4,200
Total Subconsultants (Fee, Expenses & Markup)	\$	\$	56,700

Subtotal	\$ 279,342
KPFF Expenses: Travel, Etc.	\$ -
Subconsultant Expenses: Travel, Etc.	\$ -
Subconsultant Markup	\$ 4,200
Design Total	\$ 283,542

Assumptions and Notes:

1. Rates for 2023 displayed, rates will be adjusted each calendar year.
2. This scope does not include design services beyond Bid Support, Construction
3. This scope does not include construction support services at this time but will be scoped at the completion of design.

Task 1: Project Management	\$ 14,960
Task 3: Marine Service Platfo	\$ 264,382

Anchor QEA Scope of Work Amendment #1: Marine Services Platform Stormwater Support

KPFF Project #2100135 – Skagway Ore Peninsula and Multiuse Dock, Marine Services Platform

Project Understanding

KPFF is currently preparing the 30% Design for the Marine Services Platform (MSP), an over-water structure that is intended to support future transshipment of mineral concentrates from Yukon mines and replace the existing ore loader that will be demolished as part of the Municipality of Skagway's Ore Peninsula Redevelopment Project. The proposed MSP consists of an approximately 60 ft x 220 ft wharf accessed by a 40 ft trestle. As part of 30% design, KPFF has requested that Anchor QEA identify potentially applicable stormwater benchmarks and treatment technologies that may be required for discharges from the MSP.

Scope of Work

This scope amendment includes effort to review and summarize the potentially applicable stormwater benchmarks and treatment technologies that may be required, under current state and local regulations, for discharges from the MSP. As part of this scope of work, Anchor QEA will prepare a technical memorandum that summarizes the applicable regulatory requirements, stormwater benchmarks, and potential treatment technologies that may be needed to achieve the standards, based on the planned use of the MSP for containerized ore transfer operations.

Deliverable:

1. Technical Memorandum (PDF)

Assumptions:

1. Stormwater benchmarks and treatment technologies are based on Anchor QEA's best professional judgement and on current knowledge of future planned use of the MSP.
2. Stormwater discharge requirements will ultimately be determined by Alaska Department of Environmental Conservation and may change based on MSP operations and/or future permit conditions.
3. This scope of work does not include effort for stormwater treatment design.

Budget

The additional effort and estimated fee for Anchor QEA to complete this task are summarized in the table below. This budget assumes a level of effort not to exceed \$14,790 but actual level of effort may vary depending upon discussions with the Municipality and KPFF.

Task	Description	Hours by Labor Categories (hourly rates shown in parentheses)						Total Labor Hours	Total Labor Cost	Total Cost
		Principal (\$312)	Senior Manager (\$274)	Staff 3 (\$199)	Staff 2 (\$179)	Technical Editor (\$132)	Senior Project Coordinator (\$149)			
Task1	MSP Stormwater Support									
1.1	MSP Stormwater Support	10.00	8.00	6.00	40.00	4.00	4.00	72.00	\$ 14,790	\$ 14,790
	Total Hours	10.00	8.00	6.00	40.00	4.00	4.00	72		
	Total Cost	\$3,120	\$2,192	\$1,194	\$7,160	\$528	\$596		\$14,790	\$14,790

Schedule

The Technical Memorandum will be provided to KPFF by January 31, 2023.