

## R&M CONSULTANTS, INC.

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phone: 907.522.1707 fax: 907.522.3403 February 24, 2017

Jason Miles
Director Capital Facilities
City of Valdez
212 Chenega Ave.
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# Re: Valdez Small Boat Harbor Dredging—Proposed Change Order Task 3 for Engineering Support During Construction

This change order fee proposal has been prepared for the City of Valdez (City) to provide Engineering Support During Construction of the Valdez Small Boat Harbor – Dredging project. R&M Consultants, Inc. (R&M) will provide the engineering support service as defined below.

## **Task 3: Engineering Support During Construction**

The scope of work for Engineering Support During Construction (ESDC) for the Small Boat Harbor Dredging Project is assumed to include:

- Dredging work for Schedule A Base Bid Entrance Channel to begin in 2017 and includes the dredging of the small boat harbor channel to the limits defined on the plans.
- Schedules B, C and D were not awarded and will not be included in future change orders to the selected contractor. We expect that services will continue through Final Inspection and Certificate of Completion, estimated before November 2017.

We understand that the Construction Administration for the project above will be led and directed by the City of Valdez personnel. R&M will serve as *Engineer*, as defined in the contract documents. Primary duties will include ESDC as outlined, below. In addition, we understand that the daily construction management is being performed by the City. As such, these services are not included in this fee proposal and are listed below.

### City of Valdez Support Provided During Construction:

- Pre-Award conference between City and Contractor, if needed
- Coordinating and administrating weekly construction progress meetings including maintaining meeting minutes, agendas and teleconference call in number
- Coordinate notification to boat owners and movement of boats and floating equipment in the harbor
- Review and respond to progress payment requests
- Perform dredging inspections in accordance with specification section 20.60.3 Inspection
   A, if needed

## **Engineer Support During Construction:**

- Issue conformed construction documents
- Design team management and coordination. Assuming 4 weeks to complete
  construction either before May 1, 2017 or after September 15, 2017. Duration of
  dredging activity is estimated to be 7-14 working days at an estimated daily production
  rate of 1,500 cubic yards (base bid total 13,700 cubic yards). Activities outside dredging
  include pre/post dredge surveying and cleanup/spot dredging.
- Pre-construction coordination meeting in Valdez
- Construction coordination meetings by teleconference (4 meetings total)

- Submittal reviews (survey plan, dredge plan, environmental plan, interim/final surveys and dredge quantity QC)
- RFI review and response (assumes up to 2 minor RFIs)
- Change Order Pricing review and response (assumes 1 CO)
- Site visits/inspections
  - o Civil Engineer Inspections (2 trips)
  - o Travel, meals, lodging, rental car, fuel and parking fees
- As-built review and record document preparation
- Project closeout, document Certificate of Completion
- As-built survey submittal to USACE for permit compliance

## **Assumptions:**

- 1) Work will be completed in 2017. If contractor elects to perform work in early 2018, R&M's 2018 labor rates would apply.
- 2) Due to limited scope of work no RFP preparation or review will be required.
- 3) Construction Administration/Management is not included. These services, including daily on-site coordination with Contractor, conducting weekly meetings/minutes, daily observations and documentation of work being performed and compliance with permits, contractor pay application processing, and other administrative duties not specifically noted herein will be provided by City personnel.
- 4) Construction inspections will be included to verify the intent of R&M's design contract documents is being met. These include construction site visit/inspections to review of contractor dredging and disposal procedures, documentation and survey/grade control to verify compliance with the contract and the Contractor's approved plans.
- 5) Travel to/from Valdez does not include weather delays.

The estimated not-to-exceed Time and Expense fee estimate for Task 3 *Engineering Support During Construction* described herein is **\$29,506** as detailed in the attached fee estimate spreadsheet.

Sincerely,

**R&M CONSULTANTS, INC.** 

Steven E. Lewis, PE Project Engineer

Attachment: Fee Estimate/Work Breakdown – Task 3: Engineering Support During Construction



#### COST ESTIMATE PER TASK

FIRM:	R&M Consu	ultants, Inc.	PROJECT TITLE: Valdez SBH - Dredging							
										2/23/2017
GROUP:	<u>*</u>	METHOD OF PAYMENT:	FP Engineering Suppo	rt During Construction  FPPE		CPFF	DDI	PARED BY:	Steven Lewis	2/23/2017
		METHOD OF PATMENT:	FP		✓ T&E	CPFF	PKI	PARED BT:	Steven Lewis	
SUB-			ER JOB CLASSIFICATION							
TASK NO.	SUB-TASK DESCRIPTION		Principal/Sr. Waterfront Engr	Project Manager/ Project Engineer	Staff Engineer	Sr. Enviro. Specialist	Enviro. Specialist	Drafting Technician	Clerical/ Admin	
1	Conformed I	Documents	1	2			<del> </del>	8		
2	Pre-Construction (Valdez, 1 trip)		1	12				_		
3	Conference	Call/Progress Meeting (2 hours each)		8						
4	Submittal Re	eview	2	24	36	2	8			
5	Respond to RFIs/CO requests		4	32						
6	Inspection/C	Onsite Meeting (2 trips)		24						
7	Redlines to	USACE	1	24				16		
TOTAL LA	TOTAL LABOR HOURS			126	36	2	8	24	0	
* LABOR R	ATES (\$/HR)		\$202.35	\$148.20	\$79.80	\$136.80	\$95.48	\$94.05	\$94.05	
			\$1,821.15	\$18,673.20	\$2,872.80	\$273.60	\$763.80	\$2,257.20	\$0.00	
							COMMENTS			
SUB- TASK NO.	ITEM(S)			QUANTITY	UNIT PRICE	TOTAL PRICE	2017 rates shown. This assumes work will be completed in 2017. Subject to increase based on labor			
								s if extended int		
2,6	Airfare			3	\$350.00	\$1,050.00	Full Construction Support Services not included. See scope of workPer diem rates based on ADOT short-termDoes not include weather delay or standby time.			
2,6	Meal per diem			6	\$60.00	\$360.00				
2,6	Airport parking fee			6	\$16.00	\$96.00				
2,6	Local transportation + fuel			6	\$120.00	\$720.00				
2,6	Hotel			3	\$120.00	\$360.00	FIRM'S LABOR: \$26,6			\$26,662
							FIRM'S TOTAL	EXPENSES Plus	s 10% Mark-Up:	\$2,845
			T	 OTAL EXPENSES:	\$2,586	TOTAL SUBCONTRACTOR Plus 10% Mark-Up:			\$0	
		SUB-CONTRACTORS: Firm				1				
FIRM:					TOTAL SUB					
AMOUNT:		1				\$0	TASK TOTAL:			\$29,506
							-			

Task 3