



MAUL FOSTER ALONGI

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November 2, 2017
Project No. P0922.04.03

Kris Koski, PE
City Engineer
City of Aberdeen
200 East Market Street
Aberdeen, Washington 98520

Re: Phase 2: Fry Creek Restoration and Flood Reduction

Dear Kris:

The Maul Foster & Alongi, Inc. (MFA) team appreciates the opportunity to submit this proposal to assist the city of Aberdeen (the City) in advancing the restoration design of Fry Creek from Phase I to Phase II. Phase I of the project was recently concluded and identified Segment 3 (Simpson Avenue to Pacific Avenue) and Segment 4 (Pacific Avenue to just south of Bay Avenue), as the stream reaches to advance to final design and permitting under Phase II. Our scope of work, which follows, provides a task breakdown and fee estimate for four major work elements necessary to complete design and permitting activities for the Phase II stream reaches south of Simpson Avenue. These tasks include: Additional Data Collection, Permitting, Design, and Property Acquisition Support and Public Meetings.

SCOPE OF WORK

Task 1—Additional Data Collection

Prior to conducting advanced design, additional data will need to be collected to inform the design and permitting process. Data collection tasks include the following:

- **Topographic Survey**
 - Recover survey control from Phase I of the Fry Creek Restoration & Flood Reduction project to establish mapping points in the project corridor.
 - Perform topographic survey to support Phase II design efforts, including up to 15 cross sections at key locations where the creek channel changes or embankments change.
 - Perform utility locates as necessary to support design efforts, including impacted utilities associated with the Pacific Avenue crossing.
 - Prepare right-of-way, topographic, and boundary basemap.
- **Wetland Delineation**

- Conduct a wetland delineation in accordance with the US Army Corps of Engineers' (COE's) Wetlands Delineation Manual to support the Joint Aquatic Resources Permit Application (JARPA) in Task 2. Any delineated wetlands will be evaluated and rated using Ecology's Wetland Rating System for Western Washington–2014 Update. Mitigation is not anticipated given the net restoration benefit associated with the project. If wetland mitigation is determined to be necessary during the course of the permitting process, additional tasks may need to be executed.

Task 2—Permitting

The project will require a JARPA, which is administered by the State of Washington to facilitate application for a number of federal, state, and local permits, including a COE Section 404 and Section 10 permit. The MFA team will prepare permit applications and manage the review process with applicable agencies, including COE, Washington Department of Ecology, Washington Department of Natural Resources, and Washington Department of Fish and Wildlife. MFA will also assist the City with the preparation of the State Environmental Policy Act checklist, with the expectation that a determination of non-significance will be made. Specific tasks include the following:

- Prepare JARPA to address the following regulatory requirements:
 - COE Section 404 and Section 10 Permit
 - Sediment evaluation under the Dredged Material Management Program, including sediment sampling and chemical analysis
 - 401 Water Quality Certification
 - Stormwater Pollution Prevention Plan
 - Shoreline Master Program
 - Cultural resources assessment

The MFA Team assumes that any Phase I and Phase II environmental site assessments will be conducted by others under the Grays Harbor Council of Governments USEPA brownfield assessment grant efforts.

Task 3—Design

Design elements associated with Segments 3 and 4 include roadway at Aberdeen Avenue to support the opening of Fry Creek (a 3-point-Y turnaround), culvert replacement/upgrade at the Pacific Avenue crossing, reestablishment of floodplain storage along the Fry Creek channel, and incorporation of riparian habitat and landscape elements throughout the reach. This task includes design and development of 30%, 60%, and final channel, roadway, and culvert plans

associated with the corridor south of Simpson Avenue down to Bay Avenue. Specific tasks include the following:

- Develop a project schedule that incorporates the design process, anticipated permitting timelines, and property acquisition within the Phase II design corridor.
- Develop 30% design including:
 - Demolition, erosion control, grading, planting and utility plans; channel/floodplain/enhanced open space, roadway, and culvert plans and profiles.
 - Outline specifications.
 - Preliminary cost estimate.
- Develop 60% design including:
 - Refine the 30% design plans to a 60% level.
 - Draft project specifications.
 - Cost estimate.
- Final design for bidding and construction, including:
 - Refine the 60% plans to final.
 - Final project specifications.
 - Final cost estimate.
 - Final design report.

At this time, the MFA team assumes the three (3) exposed sanitary sewer mains that cross Fry Creek within the Phase II reach will remain in place. Should permitting or structural changes resulting from stream channel revisions trigger improvements to the sewer crossings, additional tasks may need to be executed to address these concerns.

Task 4—Property Acquisition Support and Public Meetings

The MFA team will assist the City in the property owner outreach and acquisition process associated with the parcels of interest in the Phase II project corridor. The MFA Team will also engage the community and Advisory Committee during the 60% design stage. Elements of this task include:

- Property owner research and outreach in support of anticipated acquisitions and transactions.
- Convene one Advisory Committee Meeting at completion of 60% design.
- Convene one Community Open House at completion of 60% design.

BUDGET

The estimated cost to perform the proposed work in Phase II of the Fry Creek Restoration and Flood Reduction project is \$273,000 and is summarized in the attached table. The MFA Team understands that \$80,000 of the remaining \$273,000 design funds will be reserved until the state of Washington capital budget is passed. Completion of some tasks may necessarily be delayed. Future phases of work, including construction management or technical construction support services, will be developed after the completion of Phase II.

This cost estimate does not represent a lump sum. MFA bills for time and materials, and may apply money from one task to another to complete the scope of work with approval from the City.

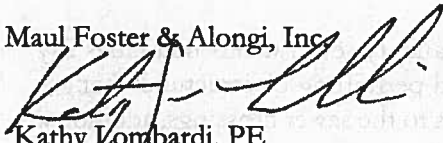
SCHEDULE

MFA will begin work within seven days of receiving authorization to proceed. This proposal is valid for 60 days. A project schedule, as described in Task 3, will be developed early in Phase II and will accommodate anticipated capital budget funding delays.

After you have reviewed this submittal, please indicate your approval of the proposal by signing and returning the attached work order to us as electronic or hard copy. Please retain a copy for your records.

Sincerely,

Maul Foster & Alongi, Inc.



Kathy Lombardi, PE
Principal Engineer

Attachments: Table
Work Order

cc: Rick Sangder

Estimated Budget
Phase 2: Fry Creek Restoration and Flood Reduction
City of Aberdeen

Task	Maul Foster & Alongi, Inc.			Subcontractors	Total
	Hours	Labor	Direct		
1 Additional Data Collection	34	\$4,760	\$0	\$27,500	\$32,260
2 Permitting Support	334	\$45,280	\$188	\$9,900	\$55,368
3.1 30% Design	200	\$28,500	\$206	\$24,200	\$52,906
3.2 60% Design	255	\$36,060	\$200	\$24,200	\$60,460
3.3 Final Design	258	\$36,800	\$0	\$21,010	\$57,810
4 Property Acquisition Support	20	\$3,200	\$0	\$11,000	\$14,200
Total Estimated Cost					\$273,004



Eric J. Larson

Manager

**MFA WORK ORDER AUTHORIZATION****Between MFA and City of Aberdeen (Client).**

Signing of this Authorization by MFA and Client authorizes MFA to complete the Work as described below under the terms and conditions of the Master Agreement for Professional Services with an effective date of: December 28, 2016. The Master Agreement for Professional Services is fully incorporated herein by this reference.

MFA Project No.: 0922.04.03**Work Order No.:** 2**Project Name:** Phase 2: Fry Creek Restoration and Flood Reduction**Project Location:** Aberdeen, WA**SCOPE OF WORK:** MFA will perform the Work indicated below.

The scope and budget are included in the letter to which this work order is attached.

SCHEDULE OF WORK:

MFA will begin work within 7 days of receiving authorization to proceed. This proposal is valid for 60 days.

ESTIMATED COST OF WORK: \$273,000

This cost estimate does not represent a lump sum. MFA bills on a time and materials basis. MFA may apply money from one task to another to complete the scope of work with approval from the City.

So agreed to this 2nd day of November, 2017.

By Maul Foster & Alongi, Inc.:

Signature

Kathy Lombardi, PE

Printed Name

Principal Engineer

Title

By City of Aberdeen:

Signature

Erik Larson

Printed Name

Mayor

Title