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December 20, 2022

David Pedersen, Project Manager
Capital Improvements
Office :: 928.213.2677 || Cell :: 928.607.2515

City of Flagstaff
211 W Aspen Avenue
Flagstaff, AZ 86001

Re: Pipeline West Post-Fire Flooding – INNER BASIN WATERLINE
AZ Department of Emergency Management and Military Affairs (AZDEMA): Declaration #SD2302
City of Flagstaff Program No.: 3519 / PS Pipeline

Subject: Design-Build Services DS-1 Cost Proposal

Dear Mr. Pederson,

Following is the Hunter Contracting Co./Jacobs, Design-Build Team's Cost Proposal and Guaranteed Maximum Price (GMP-1) in the amount of \$189,694.00 for the initial design efforts for the Schultz Flooding Inner Basin Road & Pipeline Reconstruction project. This GMP will deliver to the City of Flagstaff 30% Design documents, with a term through March 2023. These documents will include plan-view drawings for each of the 45 sites defined in the City of Flagstaff commissioned Preliminary Design Document. For each defined site our team will provide an initial assessment of potential approaches, solutions, and challenges at the location. Initial solutions may be accompanied by preliminary detail drawings. Please note that at this time due to the project locations being covered by snow and currently inaccessible, a typical plan-and-profile view cannot be generated.

We have included estimated effort hours for personnel from Hunter Contracting Co. and Jacobs. In addition, Jacobs has provided a breakdown of costs from one key sub-consulting and resource firm, EnviroSystems Management.

The first page is an overall Summary sheet of our anticipated design services. This work is broken down into two separate contracts; This proposal covers the scope listed for the Preliminary Implementation plan. The scoping for the Final Implementation Plan will be adjusted as required as we develop more information in the initial phase.

If you have questions or comments, please do not hesitate to contact me at 520-954-3016 (cell) or at my direct office line 480-632-4954.

Thank you for your time and consideration.

Chuck English
President
Hunter Contracting Co.

**City of Flagstaff
2022 Schultz Flooding Inner Basin Road
Pipeline West Post-Fire-Flooding-INNER BASIN WATERLINE**

PRELIMINARY IMPLEMENTATION PLAN (DESIGN TO 30% PLANS)

Dates	Contracts	Approach
Dec 22	Design Contr:	Start Concept Based on what we know - Drone Footage Update Drainage Study / Develop Flows for New Sites Complete Environmental
Jan 23	15% Plans	Based on Above and Drone Footage: Develop Existing Site Repairs Develop Alternative Site Repair Concept Initial Quantities Initial Costs
Feb 23		Share Concepts with Stakeholders Discuss Pros/Cons with Forest / DEMA Agree on Approach Review Environmental with Concepts
March 23	30% Plans	Jacobs Advance concepts with comments addressed Update Quantities based on comments Update Costs Identify Long-Lead Materials / Items Access Review Permit Review
		Develop Scoping and Proposal for Final Design Contract (Design Contract 2)

FINAL IMPLEMENTATION PLAN (DESIGN TO FINAL PLANS)

April 23	Design Contract 2	Design Contract 2 Approval
May 23		Site Review/Investigations (Weather Permitting) Survey Final Concept Review / Final Design Kick-off Meeting Confirm Concept Plans / Assumptions Incorporate Environmental Constraints
August 23	90% Plans	Update Plans Develop Mitigation Toolbox Prioritize / Develop Implementation Plan Initial Construction Schedule - Develop Quantities - Develop Cost Estimates Share Concepts with Stakeholders Discuss Pros/Cons with Forest / DEMA Agree on Approach Review Environmental with Concepts Final Design Review Meeting
Sept 23	GMP's	100% Plans Develop Final Drawings Design Documents Final Construction Schedule - Develop Quantities - Develop Cost Estimates Construction Documents

SUMMARY of TOTAL COST 30% DESIGN PHASE

ESTIMATED PROJECT COSTS, BY FIRM

Firm	Estimated Labor-Hours			
Hunter Contracting Co.	273	26%	\$	37,249.00
Jacobs	780	74%	\$	145,395.00
Estimated Direct Labor Hours	1,053		Total Estimated Costs	\$ 182,644
			Total Cost	\$ 182,644

OTHER ESTIMATED OUTSIDE SERVICES & CONSULTANTS

EnvironSystems Management (Subconsultant to Jacobs)	\$	7,050
Sub 2	\$	-
Sub 3	\$	-
Sub 4	\$	-
	\$	7,050
Total Estimated Outside Services	\$	7,050
Total Estimated Cost, Combined	\$	189,694
Total Estimated Cost	\$	189,694

DERIVATION OF COST PROPOSAL FOR HUNTER CONTRACTING CO.
SUMMARY

ESTIMATED DIRECT LABOR

Classification	Estimated Labor-Hours		Average Hourly Rate	Labor Costs
Program Manager	0	0%	\$ 166.00	\$ -
Project Manager	65	24%	\$ 145.00	\$ 9,425.00
Preconstruction Manager	106	39%	\$ 145.00	\$ 15,370.00
Superintendent	16	6%	\$ 135.00	\$ 2,160.00
Senior Estimator	40	15%	\$ 135.00	\$ 5,400.00
Project Engineer	40	15%	\$ 94.00	\$ 3,760.00
Clerical/Administration	6	2%	\$ 89.00	\$ 534.00
Estimated Direct Labor Hours	273		Total Estimated Direct Labor	\$ 36,649.00
			Total Labor Cost	\$ 36,649.00

ESTIMATED DIRECT EXPENSES

Travel	\$ -
Subsistence	\$ 600
Publications and Supplies	\$ -
Reproductions	\$ -
	\$ 600
Total Direct Expenses	\$ 600.00

ESTIMATED OUTSIDE SERVICES & CONSULTANTS

Sub 1	\$ -
Sub 2	\$ -
Sub 3	\$ -
Sub 4	\$ -
	\$ -
Total Estimated Outside Services	\$ -
Total Estimated Cost, Combined	\$ 37,249.00
Total Estimated Cost (Hunter Contracting Co.)	\$ 37,249.00

Hunter Contracting Scope of Work

MEETING ACTIVITIES FOR HUNTER CONTRACTING CO.

Scope Ref.	MILESTONE SUBMITTAL	Sheet Count (If Applicable)	Program Manager	Project Manager	Precon Manager	Project Engineer	Senior Environ. Planner	Environ. Planner	Engineer/ Designer	Tech. Drafter	Clerical	Total Hours
	PROJECT COORDINATION / ADMINISTRATIVE											
	Kick-Off / Scoping Meeting											
	Meeting Participation											
	Sub-Total for each Meeting				7							7
	Total for projected Meetings	1 Mtgs			7							7
	Council Workshop											
	Preparation (Special Plots, coordinates)			2								
	Meeting (Including Travel)		6									
	Sub-Total for each Field Review		8		8							16
	Total for projected Field Reviews	1 Mtgs	8		8							16
	Progress Meetings (Virtual)											
	Preparation Meeting			1								
	Sub-Total for each Meeting			1								2
	Total for projected Progress Meetings	12 Mtgs		12	24							36
	Progress Meetings (Contractor)											
	Preparation Meeting			1								
	Sub-Total for each Meeting			2								4
	Total for projected Progress Meetings	3 Mtgs		3	3							6
	Plan/Cost Reviews (Flagstaff)											
	Preparation Meeting			1								
	Sub-Total for each Meeting			8								16
	Total projected Team Meetings	2 Mtgs		9	9							18
	Project Workshops (Flagstaff)											
	Preparation Meeting			1								
	Sub-Total for each Meeting			8								16
	Total projected Workshop Meetings	2 Mtgs		18	18							36
	Public Meeting											
	Preparation Meeting											
	Prepare Meeting Minutes											
	Total projected for Public Meetings:	None										
	PROJECT COORDINATION / ADMINISTRATIVE SUBTOTALS:		47	66								113

Hunter Contracting Scope of Work

DERIVATION OF ESTIMATED DIRECT EXPENSES FOR HUNTER CONTRACTING CO.

SUBSISTENCE (Field Visits)

Lodging:	Event	Number of People	Days	Cost/day	
	Meetings in Flagstaff	1	3	\$150.00	\$ 450
	Event 2	2	0	\$150.00	-
	Event 3	2	0	\$150.00	-
	Event 4	2	0	\$150.00	-
	Event 5	2	0	\$150.00	-
	Event 6	2	0	\$150.00	-
	Event 7	2	0	\$150.00	-
	Event 8	2	0	\$150.00	-
	Event 9	2	0	\$150.00	-
Meals:					
	Meetings in Flagstaff	1	3	\$50.00	\$ 150
	Event 2	2	0	\$50.00	-
	Event 3	2	0	\$50.00	-
	Event 4	2	0	\$50.00	-
	Event 5	2	0	\$50.00	-
	Event 6	2	0	\$50.00	-
	Event 7	2	0	\$50.00	-
	Event 8	2	0	\$50.00	-
	Event 9	2	0	\$50.00	-
					\$ 600

SUBSISTENCE SUBTOTAL:

\$ 600.00

Hunter Contracting Scope of Work



City of Flagstaff
**Schultz Flooding Inner Basin Road
 and Pipeline Reconstruction**
 City of Flagstaff Contract No. 2022-XXX



**DERIVATION OF COST PROPOSAL
 SUMMARY**

(Figures Rounded to Nearest \$1.00)

ESTIMATED DIRECT LABOR

Classification	Estimated Labor-Hours	Average Hourly Rate	Labor Costs
Project Manager	192 25%	\$ 260.00	\$ 49,920.00
Sr. Project Engineer	207 27%	\$ 200.00	\$ 41,400.00
Project Engineer	79 10%	\$ 170.00	\$ 13,430.00
Sr. Environ. Planner	0 0%	\$ 176.00	\$ -
Environmental Planner	0 0%	\$ 155.00	\$ -
Design Engineer	204 26%	\$ 145.00	\$ 29,616.25
Technician/Drafter	58 7%	\$ 110.00	\$ 6,380.00
Clerical/Administration	40 5%	\$ 85.00	\$ 3,400.00
	780		
			Total Labor Costs \$ 144,146
			Total Labor Cost \$ 144,146

ESTIMATED DIRECT EXPENSES

Travel	\$ 949
Subsistence	\$ -
Publications and Supplies	\$ 300
Reproductions	\$ -
	\$ 1,249
Total Direct Expenses \$ 1,249	

ESTIMATED OUTSIDE SERVICES & CONSULTANTS

AeroTech Mapping (Phase II)			
EnvironSystems Management, Inc.	Class I Cultural Report	\$ 7,050	
		\$ 7,050	
Total Estimated Outside Services			\$ 7,050
Total Estimated Cost to Consultant			\$ 152,445
Total Estimated Cost			\$ 152,445

12/13/2022

 Operations and Office Manager Date

Jacobs Engineering Scope of Work



City of Flagstaff
**Schultz Flooding Inner Basin Road
 and Pipeline Reconstruction**



City of Flagstaff Contract No. 2011-25

DERIVATION OF ESTIMATED DIRECT EXPENSES

TRAVEL:

MILEAGE (Personal Vehicles)

Personal Mileage:		Miles/	# of	Cost/	
Origin	Destination	Trip	Trips	Mile	
Client Meetings	Flagstaff	350	3	\$ 0.650	682.5
Scoping / Kickoff	Flagstaff	350	1	\$ 0.650	227.5
Site Reviews	Flagstaff	500		\$ 0.650	0
Contractor Mtgs	Gilbert	20	3	\$ 0.650	39

PERSONAL VEHICLE SUBTOTAL: \$ 949.00

TRAVEL TOTAL: \$ 949.00

SUBSISTENCE (Field Visits)

Lodging:	Event	Number of People	Days	Cost/day	
Meals:	Event	Number of People	Days	Cost/day	
				\$55.00	\$ -
					\$ -
					\$ -
					\$ -

SUBSISTENCE SUBTOTAL: \$ -

PUBLICATIONS AND SUPPLIES

Maps (USGS, County, FEMA, Etc.)	\$ 100
Exhibit Supplies, Duplicating Large Color Exhibits, Handouts	\$ 200
Publications	\$ -
Surveying GPS Unit (Basis for cost)	\$ -
Surveying Lath and Supplies	\$ -
	<u>\$ 300</u>

PUBLICATIONS AND SUPPLIES TOTAL: \$ 300.00

Jacobs Engineering Scope of Work

Scope Ref.	MILESTONE SUBMITTAL	Sheet Count (As Req'd.)	Project Principal	Project Manager	Senior Project Engineer	Project Engineer	Senior Environ. Planner	Environ. Planner	Engineer/Designer	Tech. Drafter	Clerical	Total Hours
	Updated DRAINAGE CONCEPT / HYDROLOGY											
	Updated Hydrology for Basins											
	Updated Maps / Topography for expanded area				16					8		24
	Hydraulic Analysis for added basins				40							40
	Model in HEC 1 drainage flows				32							32
	Report / Figures / Tables / Maps			2	32					12		46
	Updated DRAINAGE CONCEPT / HYDROLOGY SUBTOTALS:			2	120					20		142
	PROJECT COORDINATION / ADMINISTRATIVE											
	NOTE: See Mtg. Summary for detailed breakdowns											
	Kick-Off / Scoping Meeting	1 Mtgs		7								7
	City Council Working Session	1 Mtgs		8								
	Progress Meetings (Virtual)	12 Mtgs		24	6				6			36
	Progress Meetings (Contractor)	3 Mtgs		9	9							18
	20% Concept Review (Flagstaff)	2 Mtgs		18								18
	Project Workshops	Mtgs										
	Site Reviews											
	Project Administration			32	28	8				8	40	116
	PROJECT COORDINATION / ADMINISTRATIVE SUBTOTALS:			98	43	8			6	8	40	203
	TOTAL HOURS			192	207	79			204	58	40	780

Jacobs Engineering Scope of Work

Scope Ref.	MILESTONE SUBMITTAL	Sheet Count (If Applicable)	Project Principal	Sr. Project Manager	Senior Project Engineer	Project Engineer	Senior Environ. Planner	Environ. Planner	Engineer/ Designer	Tech. Drafter	Clerical	Total Hours
	PROJECT COORDINATION / ADMINISTRATIVE											
	Kick-Off / Scoping Meeting											
	Preparation (Special Plots, Exhibits) Meeting (Including Travel)											
	Sub-Total for each Meeting		7									7
	Total for projected Meetings	1 Mtgs	7									7
	City Council Working Meeting											
	Preparation Meeting (Including Travel)			2								2
	Total projected for City Council Working Meeting:	1 Mtgs	6									6
	Progress Meetings (Virtual)											
	Preparation Meeting			1								1
	Sub-Total for each Meeting		1		1				1			2
	Total for projected Progress Meetings	12 Mtgs	2		1				1			3
	Progress Meetings (Contractor-Construction Details / Pricing)											
	Preparation Meeting			24	6				6			36
	Sub-Total for each Meeting		1		1							2
	Total for projected Progress Meetings	3 Mtgs	2		2							4
	20% Concept Review (Flagstaff)											
	Preparation Meeting			3	3							6
	Sub-Total for each Meeting		9		9							18
	Total for projected Progress Meetings	3 Mtgs	9		9							18
	Project Workshops (Flagstaff)											
	Preparation Meeting			1								1
	Sub-Total for each Meeting		8									8
	Total projected Team Meetings	2 Mtgs	9									9
	Site Visits											
	Preparation (Special Plots, coordinates) Site Visit											
	Sub-Total for each Field Review											
	Total for projected Field Reviews	Mtgs										

Scope Ref.	MILESTONE SUBMITTAL	Sheet Count (If Applicable)	Project Principal	Sr. Project Manager	Senior Project Engineer	Project Engineer	Senior Environ. Planner	Environ. Planner	Engineer/ Designer	Tech. Drafter	Clerical	Total Hours
	Administration/Project Management/Sub Coordination	(Jan - April)										
	Project Set up / General Administration	4 Months		16							28	
	Monthly invoicing			4							4	
	Coordination of Sub-Consultants			4							8	12
	Review QA/QC of Sub Consultant Reports / Plans											
	Final Environmental Reports				8							8
	QA of Plans Packages											
	Initial Concept Submittal				8							8
	Final Concept Submittal											
	Final Plans Submittal											
	Assemble plans for print / Distribution											
	Initial Concept Submittal				4					8		12
	Final Concept Submittal											
	Final Plans Submittal											
	Review Mtg & Respond to Comments			8	8	8						24
	Initial Concept Submittal											
	Final Concept Submittal											
	Final Plans Submittal											
	Total for Admin / Project Management			32	28	8				8	40	116
	PROJECT COORDINATION / ADMINISTRATIVE SUBTOTALS:											
				98	43	8			6	8	40	203

December 13, 2022

Berwyn Wilbrink, PE

Vice President & Transportation Group Manager

Jacobs

1501 W Fountainhead Pkwy #401

Tempe, AZ 85282

Office: (602) 530-1661

Mobile: (480) 363-6328

Berwyn.Wilbrink@jacobs.com

Re: Class I Cultural Resources Overview and Update for the Inner Basin Water Pipeline Resulting from the Pipeline Fire.

Dear Mr. Wilbrink:

Per your request, EnviroSystems Management, Inc. (EnviroSystems) appreciates the opportunity to submit the following scope and fee for the completion of a Class I cultural resources overview of the Inner Basin Road and Water Pipeline in support of repairs after the Pipeline Fire on Coconino National Forest lands (CNF), Coconino County, Arizona. This project is being conducted on behalf of Jacobs for the City of Flagstaff to complete Section 106 consultation.

EnviroSystems has already contacted Nick Mustoe, Deputy District Ranger, and Jeanne Stevens, District Archeologist with the CNF. EnviroSystems will prepare a Class I overview of the proposed project area and consult with the City of Flagstaff and the CNF to ensure Section 106 compliance. The CNF will be responsible for the IS&A and consulting with the State Historic Preservation Office. The IS&A will be based on the Class I overview, results, and management recommendations.

CULTURAL RESOURCES OVERVIEW

The records search will consist of an online review of CNF records, the Arizona cultural resources database (AZSITE), a General Land Office (GLO) survey plats and land patents, the Arizona and National Register of Historic Places (AZ/NRHP) online databases, and any available historic topographic maps or aerials. It will also include information EnviroSystems has within its own extensive Arizona cultural resources library and databases, including the previous *Historic Resources Evaluation for the Schultz Flooding Inner Basin Road & Pipeline Reconstruction Project, Coconino National Forest, Coconino County, Arizona* completed by EnviroSystems. The records search for the Class I will focus on the pipeline and adjacent road(s) and will include a 200 meter buffer and will draw heavily on the aforementioned document, which will be supplemented with recent research in the project vicinity. Once the data have been compiled, EnviroSystems will make recommendations for cultural resources monitoring or any additional survey, if necessary. The environmental setting, cultural context, background research, results, and recommendations will be summarized in a technical report that will be submitted to the CNF and the City of Flagstaff.

EnviroSystems will consult and work closely with the City of Flagstaff and CNF to define the project area and work with all stakeholders to ensure that Section 106 compliance can be met in the most efficient and expeditious manner possible.

EnviroSystems has the following assumptions.

- A Class I is the first step in defining the project area and baseline data.
- No fieldwork is planned for this phase.
- The management recommendations may include limited Class III survey or cultural resources monitoring

COST ESTIMATE

Task 1. Class I Records Search	\$2,250.00
Task 2. Draft and Final Report	\$3,250.00
Task 3. Consultation with the City of Flagstaff and CNF	\$1,500.00
<u>Other Direct Costs (report production)</u>	<u>\$50.00</u>
Subtotal	\$7,050.00

The total cost for the cultural resources overview is **\$7,050.00**. This cost takes into account that some elements of the project have yet to be defined and includes flexibility to adapt to changes in scope through consultation and project development. EnviroSystems appreciates the opportunity to provide assistance on this project. If you have any questions or comments regarding this scope and fee, please call or email Dave Hart at dhart@esmaz.com or 928-266-6651. Thank you for your time and consideration.

Sincerely,



Dave Hart
Cultural Resources Division Director
EnviroSystems Management, Inc.