REQUEST FOR PROPOSAL (RFP)

Confederated Tribes of the Umatilla Indian Reservation
Walla Walla Basin Anadromous Fish Habitat Project
Department of Natural Resources

Túuši Wána Floodplain and Fish Habitat Enhancement Project (1) Base services and materials (2) Optional Work Area A (3) Optional Work Area B

DATE ISSUED: April 30, 2025
RFP No. 2025-03/408-025

CONTRACTORS INVITED TO SUBMIT PROPOSAL FOR THE PROJECT: All licensed contractors with and without Indian preference.

*Administrative Contact: Julie Burke (**julieburke@ctuir.org**)*
(541) 429-7292

*Technical Contact: Jerry Middel (**geraldmiddel@ctuir.org**)* (541) 969-9925 or *Ethan Green (**ethangreen@ctuir.org**)* (541) 429-7555

Critical Dates:

Site Tour:	**May 8, 2025**
Request for Clarification Deadline:	**May 15, 2025** – COB
Response to Clarification Deadline:	**May 22, 2025** - COB
Bid Submission Deadline:	**May 29, 2025** – **2:00 pm** PST
Tentative Award Selection (est.):	**June 12, 2025**
Contract Award (est.):	**June 19, 2025**
Project Initiation (est.):	**July 8, 2025**
Project Completion (est.):	**December 31, 2025**

Request for Proposal

Part I – General Information and RFP Process

Túuši Wána Fish Habitat Enhancement Project

1.1 Project Purpose and Location

The Confederated Tribes of the Umatilla Indian Reservation (CTUIR), Department of Natural Resources Fisheries Program is currently requesting proposals for implementation of the Túuši Wána Floodplain and Fish Habitat Enhancement Project design package for restoration efforts on the Walla Walla River. The project site is located west of the City of Walla Walla in Walla Walla County between Luckenbill and Touchet North Roads.

The project is located at 6539 Luckenbill Rd Walla Walla, WA 99362. Directions to the project site from Walla Walla Regional Airport 45 Terminal Loop, Walla Walla, WA 99362. Head southwest toward A St (0.1 mi), turn right onto A St (443 ft), turn right to merge onto US-12 W toward Pasco (6.7 mi), turn right onto Sudbury Rd (10.9 mi), keep left to continue on Luckenbill Rd (6.5 mi). Look to the left for driveway marked by two blue property markers labeled “6535” and “6539”. Turn left into the driveway and proceed to the project site.

The Project includes a combination of instream and floodplain actions to enhance fish habitat and riparian resources on the mainstem Touchet River. Construction activities will include securing and delivering construction materials, excavating and hauling excavated floodplain material to a location at the project site, installing large wood structures, and planting hardwood shrub whips along the nearly 5000-foot project length

The primary objective of the project is to enhance habitat for native fish and wildlife by recreating more natural ecosystem function throughout the site. A more naturally functioning ecosystem is characterized by increased flood storage capacity, increased hyporheic and floodplain connectivity, dissipation of flood energy, and channel aggradation.

Native fish assemblages in the Walla Walla River Basin have evolved to thrive in a system of cold and clean water, complex and dynamic lotic habitats, dense riparian communities, and ecological connectivity between the aquatic and terrestrial environment (floodplains). Among the native salmonids in the Walla Walla system, bull trout (*Salvelinus confluentus*) and steelhead (*Oncorhynchus mykiss*) are listed threatened under the Endangered Species Act (ESA). Redband trout (*O. mykiss*) are largely distributed in headwater areas with relatively cool and stable flows. Spring Chinook (*O. tshawytscha*) had been extirpated by the 1950’s. However, spring Chinook reintroduction efforts are ongoing in cooperation with CTUIR and the Washington Department of Fish and Wildlife.

1.2 Scope of the RFP

The scope of the Project is as follows:

- Obtain all construction materials needed for project including large wood. This includes but is not limited to large wood structure connection hardware, any erosion fabric called for in designs, a temporary crossing structure for crossing the mainstem Touchet River and any other equipment required to complete the construction project following the Design documents provided with this solicitation.
- Construct projects in accordance with engineered plans and specifications.
- Excavate, load, and haul excess material to a predetermined and approved on-site location.

The proposal should include construction cost estimates for all planned activities including: material acquisition, hauling, and restoration tasks with a thorough description of supportive documentation justifying costs associated with implementation items, equipment and labor, materials and staging, and phases of work. The Contractor is responsible for providing estimates that are based on the design plans completed by Inter-Fluve, Inc. A combination of floodplain excavation and grading, large wood structures, and side channel construction, shall improve the river function and associated physical and biological processes. Base your proposal on the work-site physical conditions (as determined during the bid tour), design, and design package and the ability to work cost effectively within the scope of the design package. The Contractor's proposal will demonstrate diligence and focus in proposal preparation with specific effort directed at the evaluation, identification and suggested resolution of any discrepancies, lack of clarity, or other questions arising from the evaluation of the designs and project area.

1.3 Project Timeline:

Project work may commence on or about **July 8, 2025** with completion by **December 31, 2025**. To minimize impacts to fish in the mainstem Touchet River, in-stream channel work can only take place between July 15 and September 30, 2025. However, mobilization, site prep, and staging large wood materials should begin on or around **June 1, 2025**.

1.4 Closing Date for Proposal Submissions and Proposal Opening

The closing date for submissions will be on **May 29, 2025** at **2:00 p.m.**, prevailing local time. Proposals received after the specified time will not be considered.

Email proposals to:

Julie Burke at julieburke@ctuir.org

Subject line should read: "Túuši Wána Floodplain and Fish Habitat Implementation Project 2025".

The CTUIR requests technical proposals be submitted in PDF format.

1.5 In Writing

Proposals must be prepared by computer. No oral, handwritten, telephone, e-mail, or facsimile Proposals will be accepted**.**

1.6 Necessary Information

Proposals must contain all information requested in the RFP. The CTUIR will not consider additional information submitted after the Closing Date and may reject incomplete Proposals.

1.7 Cost of Proposals

The CTUIR shall not be liable for any expenses incurred by Contractors in either preparing or submitting Proposals, evaluation/selection, or contract negotiation process, if any.

1.8 Request for Clarification

Contractors may submit a written request for clarification via email by **May 15, 2025**. Questions regarding the RFP or request for clarification shall be emailed to the RFP technical contact. The CTUIR will not consider any requests submitted after the time period specified above.

1.9 Response to Requests for Clarification

Responses to questions will be provided no later than **May 22, 2025**.

1.10 Proposal Constitute Firm Offers

Submission of a Proposal constitutes Contractor's affirmation that all terms and conditions of the Proposal constitute a binding offer that shall remain firm for a period of ninety (90) days from the Closing Date.

1.11 Signature Required; Proposer Affirmations

An authorized representative of the Contractor must sign the original Proposal in ink. Contractor's signature and submission of a signed Proposal in response to the RFP constitute Contractor's affirmation that the Contractor agrees to be bound by the terms and conditions of the RFP and by all terms and conditions of the Contract awarded.

1.12 Type of Contract

The CTUIR shall execute a Subcontract for Construction Materials and Construction Services.

1.13 Confidential Information

Proposals are confidential until the evaluation and selection process has been completed and the CTUIR has issued a notice of tentative award. Any information a Contractor submits in response to the RFP that the Contractor considers a trade secret or confidential proprietary information, and Contractor wishes to protect from public disclosure, must be clearly labeled with the following:

"This information constitutes a trade secret or confidential proprietary information and is not to be disclosed except in accordance with applicable public disclosure laws."

1.14 Requests for Further Clarification of Proposals

The CTUIR may request additional clarification from Contractors on any portion of the Proposal.

1.15 Cancellation of RFP

The CTUIR may cancel this RFP at any time upon finding that it is in the CTUIR's best interest to do so.

1.16 Rejection of Proposal

The CTUIR may reject a particular Proposal or all Proposals upon finding that it is in the CTUIR's best interest to do so.

1.17 Tentative Award and Contract Negotiations

The CTUIR will provide a written tentative award notice to the responsible Contractor whose proposal is deemed to be most advantageous and of best value towards meeting the project objectives. The CTUIR will enter into negotiations with the Contractor on the following contract terms: (a) Contract tasks; (b) Staffing; (c) Performance Schedule; and (d) A maximum, not to exceed Contract price, which is consistent with the Quote and fair and reasonable to the CTUIR, taking into account the estimated value, scope, complexity, and nature of the services to be provided. The CTUIR may also negotiate the statement of work and, at its discretion, add to the scope of services based on a Contractor's recommendations (but still within the scope of this RFP) or reduce the scope of services.

Final award will be contingent upon successful negotiation of a contract within 10 days after the tentative award.

The CTUIR may terminate negotiations with the Contractor if they fail to result in a contract within a reasonable time. The CTUIR will then enter into negotiations with the second responsible Contractor, and if necessary, the third responsible Contractor. If the second or third round of negotiations fails to result in a contract, the CTUIR may formally terminate the solicitation.

1.18 Protest of Tentative Award Selection

A notification of tentative award to the Contractor whose proposal is deemed to be most advantageous and of best value towards meeting the project objectives will be communicated to all Contractors that submitted a Proposal in response to this RFP. A Contractor who claims to have been adversely affected by the selection of a competing Contractor shall have seven (7) calendar days after receiving the notice of selection to submit a written protest of the selection to the RFP contact listed in Part 1.4. The CTUIR will not consider protests submitted after the date established in this Part. The protest must specify the grounds upon which the Protest is based.

1.19 Award

After expiration of the seven (7)-calendar day selection protest period and resolution of all protests, the CTUIR will proceed with final award.

1.20 Investigation of References

The CTUIR reserves the right to investigate the references and past performance of any Contractor with respect to its successful performance of similar services, compliance

with RFP and contractual obligations, and its lawful payment of suppliers, sub-contractors, and employees. The CTUIR may postpone award or execution of the contract after the announcement of the apparent successful Contractor in order to complete its investigation. The CTUIR reserves the right to reject any proposal at any time prior to the execution of any resulting contract.

1.21 Amendments

The CTUIR reserves the right to amend the resulting Contract from this RFP. Amendments could include but are not limited to, changes in the statement of work, extension of time and consideration changes for the Contractor. All amendments shall be in writing and signed by all approving parties before becoming effective. Only the CTUIR has the final authority to execute changes, notices or amendments to Contract.

1.22 Tour of Site

A work site tour for contractors is scheduled for **May 8, 2025 at 9:00 am.** Interested contractors should meet at the project site at 6535,6539 Luckenbill Rd Walla Walla, WA 99362. Contractors planning to tour the project site are asked to confirm attendance with the administrative contact (Julie Burke; julieburke@ctuir.org) by **May 5, 2025 at 4:00 p.m.**

PART II – SERVICES AND MATERIALS TO BE PROVIDED

2.1 Scope of Work

The focus area for the solicited work is located on the mainstem Touchet River, west of the City of Walla Walla, WA (Attachment A). This section of the Touchet River has been straightened and confined by informal levees and adjacent land use. The river confinements reduce channel connectivity to the flood plain. This section of the Touchet River also lacks structural elements necessary to create and maintain complex aquatic habitat.

The CTUIR is accepting proposals to implement project tasks focused on restoring floodplain connectivity, enhancing in-stream habitat diversity and quantity, and restoring native riparian vegetation. The construction contract includes the following major elements, which are described in greater detail in the project design. This solicitation is broken into three separate groups to provide flexibility in implementation: a base of services and materials and two additional work areas with additional services and materials.

Bidders are expected to provide bids for Option A and Option B with the Base Bid. These groups include:

- Base bid will include mobilization and demobilization from the project site, all required submittals specified in Attachments D and E, excavation and grading of approximately 20 acres and 195,000 CY of floodplain material, construction of 31 large wood structures, and planting hardwood cuttings and native grass seed over approximately 20 acres of floodplain and disturbed areas as described in Attachment C.
- Option A will include excavation and grading of an additional 4 acres and 86,200 CY of floodplain material, construction of an additional 10 large wood structures, and planting hardwood cuttings and native grass seed over an additional approximately 4 acres of floodplain and disturbed areas as described in Attachment C.
- Option B will include construction of an additional 13 large wood structures and an additional 300 linear feet of willow trench as described in Attachment C.

The general goals of this project are to return an approximately 0.9 mile long reach of the Touchet River, located on private property, closer to a naturally functioning state, and increase fish habitat quantity and quality. Key elements to accomplishing this goal include increasing channel complexity and floodplain connectivity, creating enhanced habitat diversity suitable for juvenile winter rearing, improving sediment sorting, enhancing stream velocity and thermal diversity, and promoting natural riparian function. Key fish species of concern include ESA-listed summer steelhead (*Oncorhynchus mykiss*) and Bull Trout (*Salvelinus confluentus*), resident Redband Rainbow Trout (*O. mykiss*), and spring Chinook Salmon (*O. tshawytscha*). The geomorphic processes, floodplain connectivity, and accompanying fish habitat within the project reach have been influenced by agricultural land use, homesite development, and the constricting effects of levee encroachment. These activities have led to limited instream and floodplain habitat complexity and degraded floodplain connectivity and riparian condition as key limiting factors for Chinook and steelhead in the vicinity of the project reach. This project aims to address these factors through stream restoration and habitat enhancement.

See all related contract documents including Attachment C and D for complete details of construction requirements.

2.2 Project Tasks

The principal components of the work to be performed consists of the following tasks: see Attachments C and D for detailed information on all required work elements.

Base bid – Base materials and services

Proposal Item 1 – Site Preparation
The site access, staging, and sequencing plan will be in conformance with the BPA HIP IV General Aquatic Conservation Measures (see Attachment C and D). Site access will be from Luckenbill Road. There is one staging area indicated in Attachment C. The contractor will prepare required submittals prior to starting work, as specified in Attachment D and E. The construction contractor will be responsible for adherence to and implementation of the accepted submittals. Contractor shall construct temporary stream crossing structures and install erosion controls as required for permit environmental compliance (see attachments C and D). The pre-construction surveying layout shall be completed by the Owner. The contractor must ensure all loads are approved for transport by the Walla Walla County Road Engineer.

Proposal Item 2 – Earth Work
Work includes clearing and grubbing; rip-rap removal; floodplain reveal and scribe excavation (see Attachments C and D). All excavated material will be used for project elements or hauled to the approved on-site permanent disposal location. Excavation of approximately 195,000 cubic yards of fine-grained sediments leading to the construction of floodplain reveals and removal of non-native material. The excavated material derived from the floodplain reveals will be used to create upland landscape complexity features within the project area. Construct “scribes” within the floodplain reveals that mimic channel scars.

Proposal Item 3 – Large Wood Structures
Work includes work area isolation, BMPs, material procurement, and installation of 31 engineered large wood structures. Contractor shall install all logs in structures and individually as detailed in Attachments C and D. Logs and root wads for this item will be secured as part of this contract. Install Large Wood Structures to create a variety of habitat conditions. Wood structures consist of in-channel wood, floodplain structures, and off channel post assisted log structures. All large wood structures will be constructed as specified in Attachments C and D.

Proposal Item 4 – Site Restoration
Plant willow scrolls and cottonwood clusters as specified in Attachment C. The Contractor shall secure willow and cottonwood cuttings for planting. Typically, hardwood cuttings will be planted 2 feet on center within the scrolls and clusters and 3 feet on center in the open riparian planting areas. Quantities are listed under planting tables on Sheet 29 (**Contractor responsible for planting items listed in Large Wood Structures and Open Riparian Areas Tables ONLY**). This bid item includes final site clean-up, site rehabilitation

earthwork, and decommissioning temporary stream crossings and access routes as necessary.

Option A – Additional Work Area A

Proposal Item 1 – Earth Work
Work includes clearing and grubbing; rip-rap removal; floodplain reveal and scribe excavation (see Attachments C and D). All excavated material will be used for project elements or hauled to the approved on-site permanent disposal location. Excavation of approximately 86,200 cubic yards of fine-grained sediments leading to the construction of floodplain reveals and removal of non-native material. The excavated material derived from the floodplain reveals will be used to create upland landscape complexity features within the project area. Construct "scribes" within the floodplain reveals that mimic channel scars.

Proposal Item 2 – Large Wood Structures
Work includes work area isolation, BMPs, material procurement, and installation of 10 engineered large wood structures. Contractor shall install all logs in structures and individually as detailed in Attachments C and D. Logs and root wads for this item will be secured as part of this contract. Install Large Wood Structures to create a variety of habitat conditions. Wood structures consist of in-channel wood and off channel post assisted log structures. All large wood structures will be constructed as specified in Attachments C and D.

Proposal Item 3 – Site Restoration
Plant willow scrolls and cottonwood clusters as specified in the Attachment C. The Contractor shall secure willow and cottonwood cuttings for planting. Typically, hardwood cuttings will be planted 2 feet on center within the scrolls and clusters and 3 feet on center in the open riparian planting areas. Quantities are listed under planting tables on Sheet 29 (**Contractor responsible for planting items listed in Large Wood Structures and Open Riparian Areas Tables ONLY**).

Option B – Additional Work Area B

Proposal Item 1 – Large Wood Structures
Work includes work area isolation, BMPs, material procurement, and installation of 13 engineered large wood structures. Contractor shall install all logs in structures and individually as detailed in Attachments C and D. Logs and root wads for this item will be secured as part of this contract. Install Large Wood Structures to create a variety of habitat conditions. Wood structures consist of in-channel wood and off channel post assisted log structures. All large wood structures will be constructed as specified in Attachments C and D.

Proposal Item 2– Site Restoration
Plant willow scrolls and cottonwood clusters as specified in the Attachment C. The Contractor shall secure willow and cottonwood cuttings for planting. Typically, hardwood cuttings will be planted 2 feet on center within the scrolls and clusters and 3 feet on center in the open riparian planting areas. Quantities are listed under planting tables on Sheet 29

(**Contractor responsible for planting items listed in Large Wood Structures and Open Riparian Areas Tables ONLY**).

2.3 Required Equipment Standards:

A. Synthetic hydraulics - hydraulic oil in the equipment that is utilized during project construction must meet or exceed stringent acute aquatic toxicity (L-50), which is inherently biodegradable. Example: Chevron Clarity or equivalent. (Note: Compliance with specifications will be tested by the CTUIR and designated agent).
B. Spill Kits (including rag pads and booms) will be required on site at all times.
C. Equipment will be free of leaks, clean and free of off-site soil and plant matter, and in good operating condition.

2.4 Minimum Equipment Specifications:

Proposed equipment quantities and specifications are the responsibility of the Contractor in meeting the project construction and timelines as outlined in Attachments C and D.

2.5 Materials and Services Furnished by the Contractor:

The Contractor must supply all equipment and experienced operators necessary to complete the work specified in the contract. In addition the contractor must furnish and cover:

1. All costs of equipment, operation, and transportation.
2. An experienced, qualified supervisor for crew.
3. All required safety equipment and training for crew members in use of tools.
4. Designated representative to supervise contract operations and represent Contractor.
5. All materials and equipment for BMP implementation.

2.5.1 Oil and Fuel Spill Prevention

The contractor will be allowed to fuel, lubricate and perform minor maintenance activities to trucks or other heavy machinery at the project site. However, these activities must not occur within a distance of 300 feet of any water body or stream in the vicinity of the project site. The CTUIR or a designated agent reserves the right to inspect the contractor's equipment at any time. Equipment must be in good working condition, free from leaks in hydraulic, fuel and power systems and clean enough to allow for close inspection of these systems. The CTUIR reserves the right to reject any equipment that does not meet these conditions.

2.5.2 Fire Prevention and Control

The contractor shall be responsible for fighting his/her own fire(s). The contractor, acting independently, shall immediately extinguish without expense to the CTUIR or the landowner, all fires on or in the vicinity of the project site, which are caused by the contractor or the contractors' employees, whether set directly or indirectly because of the work on the project. The contractor may be held liable for damages resulting from fires set or caused by the contractor's employees or resulting from operation of this contract. If the amount and character of labor, subsistence, supplies and transportation which the contractor is in a position to furnish promptly for fire suppression prove inadequate, the CTUIR or a designated agent is authorized to procure such items and services as may be deemed necessary and charge to the contractor.

2.5.3 Regulations and Permits

The contractor shall, without additional expense to the CTUIR, be responsible for complying with any Federal and State Laws, Codes, Regulations, and Permits applicable to the performance of the work that are not specified in section 2.5.7.

2.5.4 Contractor Bonding, Liability, Licensing and Insurance Requirements:

The contractor shall be held responsible for all damages to persons or property that occur as a result of the contractors' fault of negligence, and shall take proper safety and health precautions to protect the work, the workers, the public, and the property of others. The CTUIR will be responsible for providing liability and workers compensation insurance for its employees when they are on the work site.

Contractor must be a licensed contractor with the State of Washington, Department of Labor and Industries, and hold liability insurance with the following limits: $2,000,000 aggregate, and $1,000,000 per occurrence. Liability insurance must name the CTUIR as an additional insured party for the duration of the project. Contractor must provide Commercial Automobile Liability Insurance in amount equal to the greater of (1) one million dollars for all vehicles used in performance of the services or (2) any other amount required by applicable law. Contractor must also provide a certificate of workman comp insurance (if contractor has employees).

Contractor shall post Performance and Payment Bonds equal to 100 percent of the contract price before work commences.

A bid deposit of 5% of the total bid must accompany the bid. This must be in the form of a bid bond, certified check, or cashier's check issued to "CTUIR DNR Fisheries". The bid deposit will be returned as per final contract acceptance.

2.5.5 Site Maintenance

The Contractor shall dispose of all refuse created by the Contractor's activities and such refuse shall be hauled off of the project area and disposed of in a lawful manner.

2.5.6 Environmental Effects

The Contractor shall coordinate with the CTUIR and direct activities in such a manner to minimize adverse effects on the environment.

2.5.7 Furnished Materials and Services:

The CTUIR or designated agent will acquaint the Contractor with work areas and access roads, administer the contract, and oversee all work elements. In addition, the CTUIR will provide:

a. US Army Corps of Engineers Section 404 permit, National Environmental Policy Act permission, Washington Department of Fish and Wildlife Hydraulic Project Approval, Washington State Environmental Policy Act permission, and Walla Walla County floodplain development permits.
b. Daily inspection of work for compliance and certification of Contractors' work.
c. Map of project area.
d. Design/Construction details.
e. Right of way agreements, easements, and any other necessary environmental or cultural clearances.

f. Fish salvage crews.
g. Plants filling the emergent and riparian shrub areas, transitional planting areas, and upland planting areas listed in Attachment C.
h. All seeds listed under seed mix in Attachment C.

2.5.8 Bid Itemization

Bid will include itemized costs per bid item component by quantities and unit cost including materials, proposed equipment, equipment hourly rate, operator hourly rate, and personnel hourly rates. Contractor will provide a lump sum price per bid item and total aggregate bid. Bids will be limited to work shown on sheets 1-8 and 13-29 on Attachment C. There will be three options available for bid: Base bid, Option A, and Option B. These were separated to allow for a contract to be issued with the most efficient use of available funds. Three bid item summary sheets are provided for simplicity of bidding on the Base option and Options A and B. (Attachment B) but the Contractor may use a format that better represents their proposal as needed. The CTUIR will issue a subcontract for construction services and materials delivery for the Base bid or the Base bid and any combination of Options A and B.

2.5.9. Point of Hire and Release

Project point of hire and release shall be at the project site located in the vicinity of , Township 9 North, Range 34 East Sections 31 and 32, Willamette Meridian (Attachment A).

2.5.10 Acceptance of Work

Acceptance of work will be determined by an inspection of the work by the CTUIR. Nonconformance with any specification will classify the work as unsatisfactory, and rework will be required to bring the work up to the standards negotiated and agreed upon in the contract agreement. The contractor shall maintain a complete copy of the contract and specifications available on-site at all times, for use by the contractor and the contractor's employees, and to provide for reference in discussions with CTUIR personnel.

2.5.11 Timeline and Delays

a. Project construction is scheduled to begin within seven days of a signed contract pending completion of environmental permits, landowner clearances, and as ground conditions permit. The scheduled date for completion of the Project is December 31, 2025. The Contractor must complete all aspects of the work on or before this date, unless completion is delayed due to conditions mutually agreed upon and designated in writing by the Contractor and the CTUIR.

b. Once work commences, project work shall be ongoing. Work shall commence on a Monday-Friday schedule unless prior arrangements are made with the CTUIR. Any delay in daily production will be discussed and agreed upon through the CTUIR.

c. Work shall not commence until the work schedule is approved, then shall be continuous, unless weather conditions or circumstances beyond Contractor's control prevent working. The CTUIR must approve deviation from the approved work schedule in writing.

2.5.12 Payment

One lump sum request for payment per bid item may be submitted to the CTUIR upon successful completion of the item. Thirty percent of the contractual cost will be withheld until final completion of the project. The Contractor shall contact the CTUIR to request final inspection of work for payment. The CTUIR will make payment within 30 days of receipt of an invoice following a final inspection that approves all work.

2.5.13 Use of Premises

No camping will be allowed on the project site. The project area shall be cleared of all non-forest debris resulting from contractor's operation as required by the CTUIR prior to final payment being received.

2.5.14 Davis-Bacon Act Wage Rates (10-13)

This project is funded with Federal funds. All employees of the prime contractor or subcontractor(s) shall be paid wages as per Davis-Bacon Act. It is the responsibility of the contractor to determine applicable wage determinations (www.wdol.gov/dba.aspx).

2.5.15 Indian Preference

Indian Preference will be applied as per Selection Criteria on page 16 of this document.

PART III – Proposal Requirements

For the purpose of this RFP, each interested Contractor will submit a proposal package to the Confederated Tribes of the Umatilla Indian Reservation (CTUIR) Department of Natural Resources, Fisheries Program that includes the following sections and tabbed as follows:

I. Cover letter
II. Firm summary
III. Organizational structure
IV. Firm qualifications and experience
V. Proposed approach of scope of work
VI. Project Schedule and itemized cost
VII. References

1. COVER LETTER

A cover letter must express the Contractor's interest in the project and commitment to the obligations expressed in the RFP. This letter should include the original signature of an authorized representative of the Contractor and indicate that the Contractor accepts all of the terms and conditions contained in the RFP.

2. FIRM SUMMARY

The Contractor will provide general information regarding their particular firm. This should include information about the company size, location, contracting experience within the region, areas of expertise and types of services, staff longevity, staff capabilities and training, and experience with natural resource restoration work and associated construction.

3. ORGANIZATION STRUCTURE

Identify the individuals responsible for managing the project, conducting specific project tasks, and their experience conducting those tasks for your firm. The Contractor should also include an organizational chart showing lines of communication and decision-making hierarchy as well as any sub-contractors. If a team of individuals from multiple contracting firms are assembled, adequately describe the role of each team member.

4. FIRM QUALIFICATIONS AND EXPERIENCE

The proposal will list the Contractor's and employee qualifications and experience in relationship to completing projects of similar nature. Please identify a minimum of three stream restoration projects that are similar to the proposed project which has been successfully completed within the last five years. Contractor must demonstrate experience in stream restoration projects involving project management and multi-agency coordination, environmental protection measures; engineer field surveying for project layout and construction verification; restoration and implementation of newly constructed channels and adjacent floodplain, stream log and rock structures, erosion control and planting; and equipment availability and operator experience.

Track-hoe operator(s) must have a demonstrable experience record and have a **minimum of 1,000 hours experience in stream restoration projects**.

5. PROPOSED APPROACH OF SCOPE OF WORK

Describe the approach the Contractor proposes to complete construction of the project as defined in the design drawings and specifications. The contractor should provide enough detail in the proposed approach to fully articulate the Contractors understanding of the scope and complexities of the project. This section should contain the Contractors planned construction approach, including schedule, staging and sequencing. The proposal needs to fully articulate the Contractors understanding of the project relative to the complexities of large channel construction and activation as well as compliance with environmental compliance regulations and Best Management Practices (BMP's) as outlined in the plans. The Contractor should further describe the management approach that will be used when addressing key issues of the project, including but not limited to: avoiding conflicts, facilitating reviews, budget control, conflict resolution, scheduling, change order management, and project closeout and any discrepancies, lack of clarity, or other questions arising from evaluation of the design plans and specifications.

6. PROJECT SCHEDULE AND ITEMIZED COST

Provide a detailed timeline or schedule describing tasks to be completed, project milestones, time necessary to complete each task and the overall project. Provide evidence that adequate management effort, supportive staff, and resources will be committed to the timely completion of the project. Provide a lump sum line-item cost for mobilization, individual work elements and the total project cost from the point of project implementation until completion. The total potential price of all items combined and the prices for individual work items will be considered as part of the evaluation factors.

The CTUIR project staff welcomes cost-effective alternatives to expedite the proposed implementation schedule. These alternatives must be provided as an optional line item in addition to the original cost proposal. If approved by CTUIR, the project design and specifications will be revised through design change and/or field change notices as applicable.

7. REFERENCES

References are required from at least three (3) projects similar to the proposed project. Include project name, contact name, address, and telephone number, a description of the project, project completion date, and the relationship of the contact person to the project referenced.

PART IV – SELECTION CRITERIA

GENERAL INFORMATION
Proposal selection will be completed through a quality-based selection process (QBS) by a review team. The CTUIR will award to the responsible Contractor whose proposal is deemed to be most advantageous and of best value towards meeting the project objectives. The criteria to be evaluated and weighted are outlined below.

I. **Adequacy of Technical Proposal**: 30 points
   a. Proposal content and applicability of the approach for addressing and fulfilling the project design specifications and adhering to the project implementation plan (20); and,
   b. Proposal is clearly and concisely written and demonstrates a full understanding of the project (10).

II. **Contractor Qualifications and Experience**: 20 points
   a. Qualifications of Contractor (5) (prior experience of all aspects in stream restoration projects similar to the proposed project, project references and technical experience);
   b. Project management experience in planning, implementing and managing stream restoration projects of this magnitude (5);
   c. Past Performance on similar projects (5); and,
   d. Company resources available (5); (organization of company, equipment and staffing, and abilities to meet budget and timelines).

III. **Aggregate Bid Price**: 48 points
   a. The total potential price of all items combined and the prices for individual items will be considered as part of the evaluation factors (40); and,
   b. Cost is further evaluated through a cost/benefit analysis based on proposed work, technical compliance of the RFP project specifications, and technical expertise (5).

VI. **Indian Preference**: 2 points

   Must meet these factors in order to secure Indian Preference status;
   1. Membership in a Federally recognized Tribe;
   2. Indian Ownership of 51% or more;
   3. Indian Control;
   4. Indian Management;
   5. Financing obtained by Indian person; and,
   6. Equipment obtained by Indian person.

The RFP process is designed to result in the selection of a contractor who demonstrates the capability to complete the work at the best value. The CTUIR reserves the right to contract all or portions of the work to individual contractors

PART V – Attachments

The following items are attached to the RFP:

- Attachment A: Project Site Vicinity Map
- Attachment B: Bid Sheets for Base bid, Option A, and Option B
- Attachment C: Final Design Planset
- Attachment D: Construction Specifications
- Attachment E: Example Site Specific Safety Plan

Attachment A: Project Site Vicinity Maps

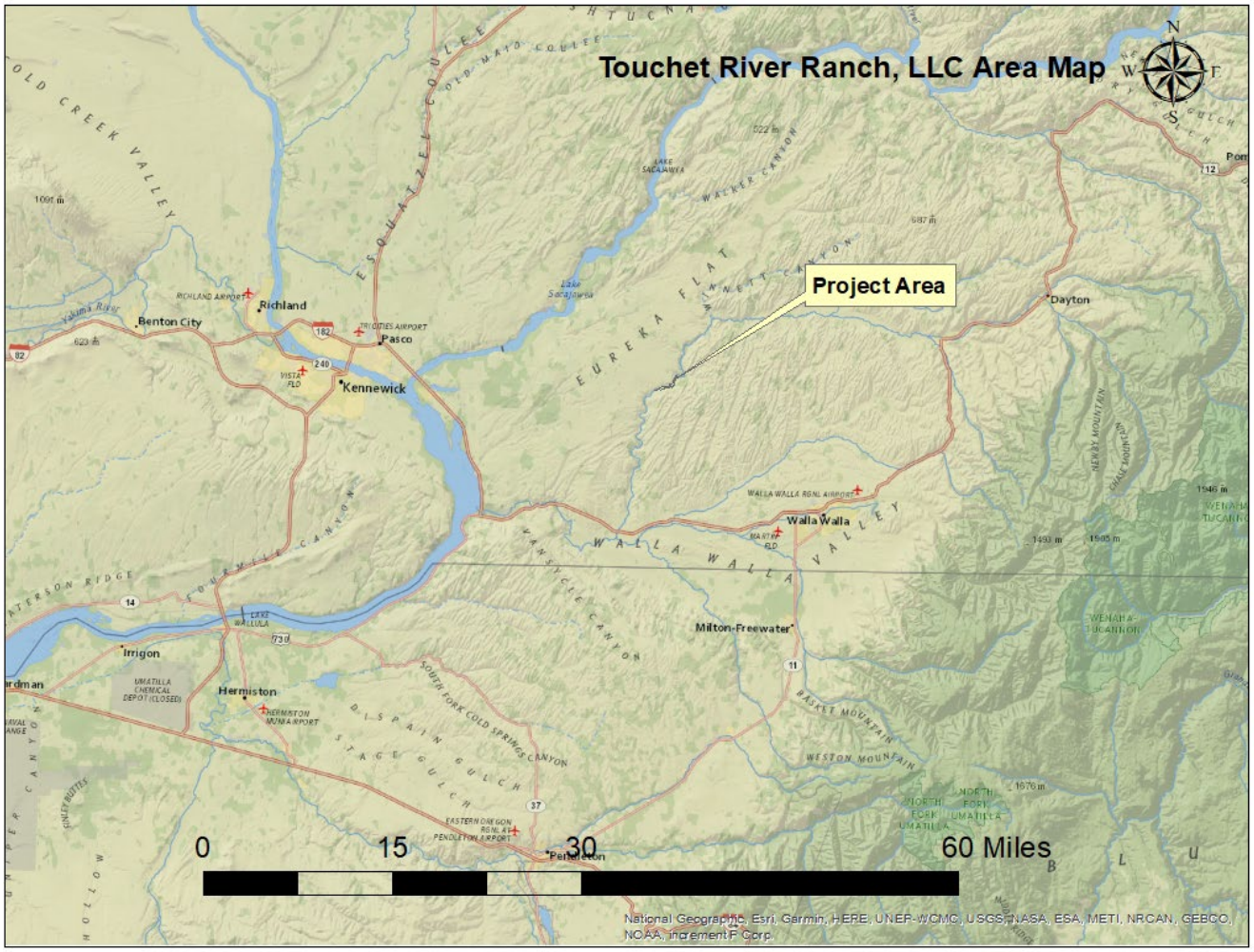

Figure 1. Project area in relation to Walla Walla and Tri-Cities, WA

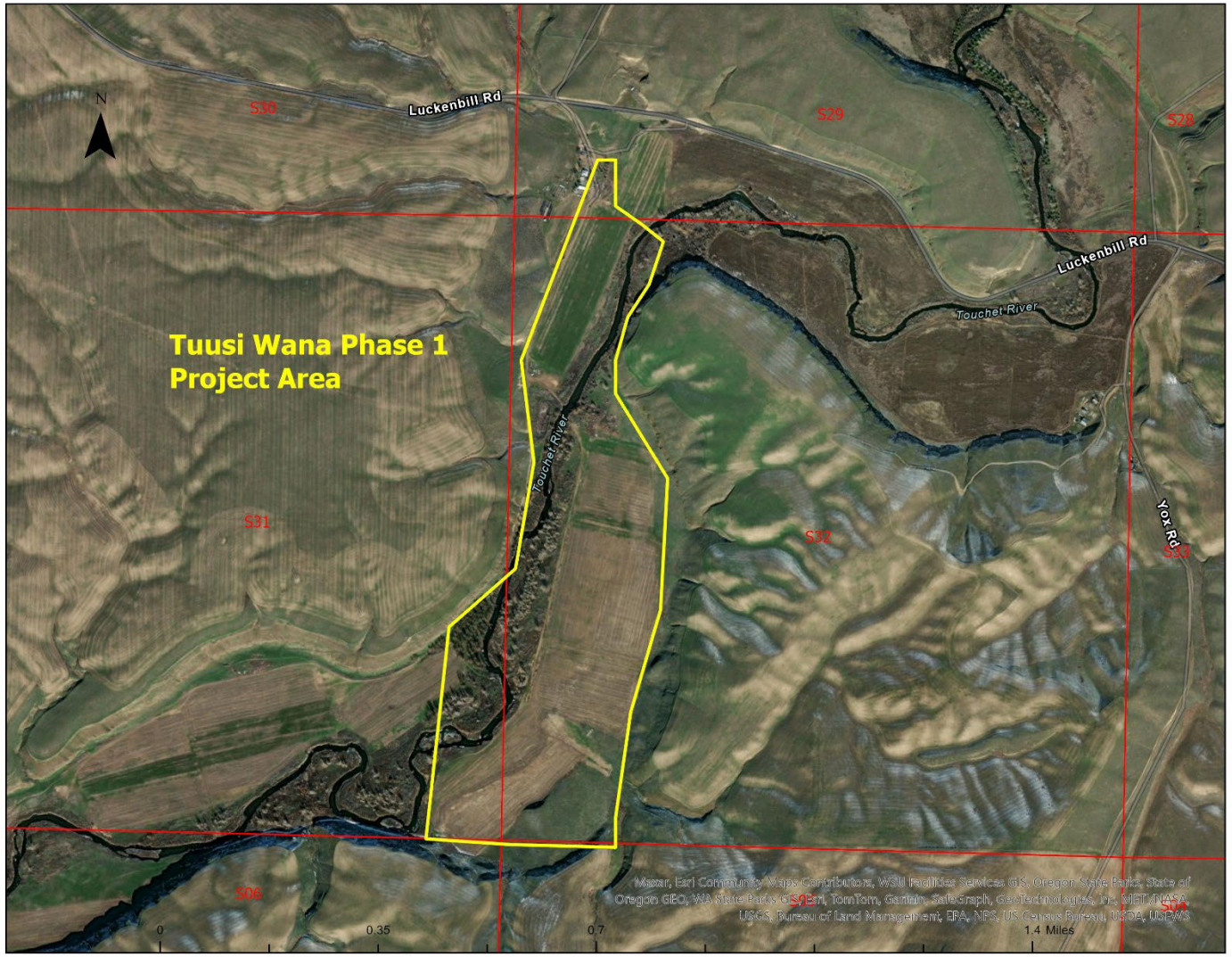

Figure 2. Close up of Phase 1 project area showing Luckenbill Road.

Attachment B: Bid Sheets

TUUSI WÁNA FLOODPLAIN ENHANCEMENT | Phase I					
Bidders are expected to provide bids for Option A and Option B with the Base Bid The project includes all work shown on the Plans titled: TUUSI WÁNA FLOODPLAIN ENHANCEMENT | TOUCHET RIVER RM 14 TO RM 17 | PHASE I FINAL DESIGN Except the following items:					
Work shown as Not in Contract (N.I.C.) on Sheet 9, Sheet 10, and Sheet 11					
Work shown as Not in Contract (N.I.C.) on Sheet 12, and Sheet 22					
To:	Confederated Tribes of the Umatilla Reservation, DNR Fisheries Program | Pendleton, OR				
The Undersigned certify that they have examined the location of the Project and read and thoroughly understand the Plans, Specifications and Contract governing the work embraced in this improvement or as much thereof as can be completed with the money available, in accordance with the said plans, specifications, and contract, and the following schedule of rates and prices. The quantities listed are estimates for bidding purposes only, the Contractor shall be responsible for verifying quantities required to complete the work as shown on the Plans.					
BASE BID					
Item No.	Item	Qty.	Unit	Unit Price	Amount
SITE PREPARATION					
1-09.7	Mobilization/Demobilization	1	L.S.	*N/A*	
1-05.4(3)	Surveying (for construction layout)	1	L.S.	*N/A*	
1-07.15	SPCC Plan, incl. implementation	1	L.S.	*N/A*	
8-01.5	TESC Plan, incl. implementation	1	L.S.	*N/A*	
8-19.5	Temporary water crossings	1	EACH		
EARTHWORK					
2-01.5	Clearing and Grubbing	20	ACRE		
2-05.5 (A)	Excavation – On-Site Placement	195,000	C.Y.		
2-05.5 (B)	Microtopography	39	ACRE		
2-05.5 (C)	Excavation – Off-site Disposal *(e.g., riprap)*	840	C.Y.		
LARGE WOOD STRUCTURES (LWS)					
8-32.5 (A)	Floodplain (F) Large Wood Structure	14	EACH		
8-32.5 (B)	Floodplain Buried (Fb) Large Wood Structure	0	EACH	-	-
8-32.5 (C)	Bank Buried (BB) Large Wood Structure	3	EACH		
8-32.5 (D)	Apex (A) Large Wood Structure	4	EACH		
8-32.5 (E)	Post Assisted (PA) Large Wood Structure	10	EACH		
SITE RESTORATION					
8-02.5 (A)	Open Riparian Revegetation Areas	12	ACRE		
8-02.5 (B)	Transitional Revegetation Areas	2.6	ACRE		
8-02.5 (C)	Willow and Cottonwood Trench	1,700	LF		
			BASE BID TOTAL		

MATERIALS–BASE BID CONTINUED					
Item No.	Item	Qty.	Unit	Unit Price	Amount
9-37.6 (A)	Rootwad Log A | 18-in nom. DBH, 30-ft long bole	73	EACH		
9-37.6 (B)	Rootwad Log B | 12-in nom. DBH, 20-ft long bole	60	EACH		
9-37.6 (C)	Log A | 12-in nominal DBH, 20-ft long	20	EACH		
9-37.6 (D)	Log B | 18-in nominal DBH, 25-ft long	41	EACH		
9-37.6 (E)	Log C | 12-in nominal DBH, 25-ft long	12	EACH		
9-37.6 (F)	Log D | 18-in nominal DBH, 30-ft long	56	EACH		
9-37.6 (G)	Log E | 12-in nominal DBH, 15-ft long	10	EACH		
9-37.6 (H)	Log F | 12-in nominal DBH, 18-ft long	40	EACH		
9-37.6 (I)	Timber Pile A | 16-in nominal dia., 30-ft long	98	EACH		
9-37.6 (J)	Timber Pile B | 12-in nominal dia., 20-ft long	70	EACH		
9-37.6 (K)	Tree Top	17	EACH		
9-37.6 (L)	Slash Bundle	55	EACH		
9-14.7(6) (A)	Live Stake Cuttings	64,590	EACH		
9-14.7(6) (B)	Live Pole Cuttings	5,740	EACH		
9-14.7(6) (C)	Live Cutting Bundles	105	EACH		
			BASE BID MATERIALS SUPPLEMENT TOTAL		

OPTION A | As outlined on Sheet 13 and 14					
Item No.	Item	Qty.	Unit	Unit Price	Amount
SITE PREPARATION					
1-05.4(3)	Surveying (for construction layout)	1	L.S.	*N/A*	
EARTHWORK					
2-01.5	Clearing and Grubbing	20	ACRE		
2-05.5 (A)	Excavation – On-Site Placement	86,200	C.Y.		
2-05.5 (B)	Microtopography	4	ACRE		
2-05.5 (C)	Excavation – Off-site Disposal *(e.g., riprap)*	0	C.Y.	-	-
LARGE WOOD STRUCTURES (LWS)					
8-32.5 (A)	Floodplain (F) Large Wood Structure	6	EACH		
8-32.5 (B)	Floodplain Buried (Fb) Large Wood Structure	0	EACH	-	-
8-32.5 (C)	Bank Buried (BB) Large Wood Structure	0	EACH	-	-
8-32.5 (D)	Apex (A) Large Wood Structure	2	EACH		
8-32.5 (E)	Post Assisted (PA) Large Wood Structure	3	EACH		
SITE RESTORATION					
8-02.5 (A)	Open Riparian Revegetation Areas	3.5	ACRE		
8-02.5 (G)	Willow and Cottonwood Trench	800	LF		
MATERIALS					
9-37.6 (A)	Rootwad Log A | 18-in nom. DBH, 30-ft long bole	20	EACH		
9-37.6 (B)	Rootwad Log B | 12-in nom. DBH, 20-ft long bole	18	EACH		
9-37.6 (C)	Log A | 12-in nominal DBH, 20-ft long	10	EACH		
9-37.6 (D)	Log B | 18-in nominal DBH, 25-ft long	4	EACH		
9-37.6 (E)	Log C | 12-in nominal DBH, 25-ft long	0	EACH		
9-37.6 (F)	Log D | 18-in nominal DBH, 30-ft long	24	EACH		
9-37.6 (G)	Log E | 12-in nominal DBH, 15-ft long	3	EACH		
9-37.6 (H)	Log F | 12-in nominal DBH, 18-ft long	12	EACH		
9-37.6 (I)	Timber Pile A | 16-in nominal dia., 30-ft long	28	EACH		
9-37.6 (J)	Timber Pile B | 12-in nominal dia., 20-ft long	21	EACH		
9-37.6 (K)	Tree Top	4	EACH		
9-37.6 (L)	Slash Bundle	16	EACH		
9-14.7(6) (A)	Live Stake Cuttings	20,690	EACH		
9-14.7(6) (B)	Live Pole Cuttings	3,320	EACH		
9-14.7(6) (C)	Live Cutting Bundles	31	EACH		
				OPTION A TOTAL	

OPTION B | As outlined on Sheet 13, 14, and 15					
Item No.	Item	Qty.	Unit	Unit Price	Amount
SITE PREPARATION					
1-05.4(3)	Surveying (for construction layout)	1	L.S.	*N/A*	
EARTHWORK					
2-01.5	Clearing and Grubbing	0	ACRE	-	-
2-05.5 (A)	Excavation – On-Site Placement	0	C.Y.	-	-
2-05.5 (B)	Microtopography	0	ACRE	-	-
2-05.5 (C)	Excavation – Off-site Disposal *(e.g., riprap)*	0	C.Y.	-	-
LARGE WOOD STRUCTURES (LWS)					
8-32.5 (A)	Floodplain (F) Large Wood Structure	0	EACH	-	-
8-32.5 (B)	Floodplain Buried (Fb) Large Wood Structure	0	EACH	-	-
8-32.5 (C)	Bank Buried (BB) Large Wood Structure	3	EACH		
8-32.5 (D)	Apex (A) Large Wood Structure	5	EACH		
8-32.5 (E)	Post Assisted (PA) Large Wood Structure	5	EACH		
SITE RESTORATION					
8-02.5 (G)	Willow and Cottonwood Trench	300	LF		
MATERIALS					
9-37.6 (A)	Rootwad Log A | 18-in nom. DBH, 30-ft long bole	83	EACH		
9-37.6 (B)	Rootwad Log B | 12-in nom. DBH, 20-ft long bole	30	EACH		
9-37.6 (C)	Log A | 12-in nominal DBH, 20-ft long	25	EACH		
9-37.6 (D)	Log B | 18-in nominal DBH, 25-ft long	43	EACH		
9-37.6 (E)	Log C | 12-in nominal DBH, 25-ft long	12	EACH		
9-37.6 (F)	Log D | 18-in nominal DBH, 30-ft long	0	EACH		
9-37.6 (G)	Log E | 12-in nominal DBH, 15-ft long	5	EACH		
9-37.6 (H)	Log F | 12-in nominal DBH, 18-ft long	20	EACH		
9-37.6 (I)	Timber Pile A | 16-in nominal dia., 30-ft long	112	EACH		
9-37.6 (J)	Timber Pile B | 12-in nominal dia., 20-ft long	35	EACH		
9-37.6 (K)	Tree Top	19	EACH		
9-37.6 (L)	Slash Bundle	50	EACH		
9-14.7(6) (A)	Live Stake Cuttings	110	EACH		
9-14.7(6) (B)	Live Pole Cuttings	1,060	EACH		
9-14.7(6) (C)	Live Cutting Bundles	75	EACH		
				OPTION B TOTAL	

Contractor's Full Legal Name: (PLEASE PRINT OR TYPE):	
Authorized Signature:	
Printed Name and Title of Person Signing:	
Date:	
Company Address:	
Fax Number:	
Email Address:	
Bid Prices Valid for days	

Attachment C: Final Drawings – Túuši Wána Floodplain Restoration

Final design drawings for the project area are located on the CTUIR Walla Walla Fish Habitat Enhancement Project file share site. The drawings can be downloaded at the link listed below:

https://paluut.ctuir.org/services/uploads/P/1202/02_Tuusi_Wana_Phase_I_Final.zip

Attachment D: Final Construction Specifications – Túuši Wána Floodplain Restoration

Final construction specifications for the project area are located on the CTUIR Walla Walla Fish Habitat Enhancement Project file share site. The drawings can be downloaded at the link listed below:

https://paluut.ctuir.org/services/uploads/P/1202/02_Tuusi_Wana_Phase_I_Final.zip

Attachment E: Example Site Specific Safety Plan

Site Specific Safety Plan Topics for Habitat Projects

The Site Specific Safety Plan (SSSP) is to be written by the Contractor, and describes the potential hazards encountered in the performance of the work, the detailed plans to mitigate those hazards, along with the Contractor's controls, work practices, and personal protective equipment (PPE).

The SSSP should, at a minimum, address all of the following topics that apply to the work the Contractor will perform. This SSSP Topics document is intended only as a template for the Contractors use in preparing a written Site Specific Safety Plan document. The Contractor should refer to the Contractor Safety and Health Requirements for Prime and Subcontractors (CSHRPS) for required safety elements.

Site Specific Safety Plan Submittal Instructions

Contractors shall consider the Job Hazards on any projects that they are assigned. After a Contractor has been issued a contract, (or a contract release from a Master Contract), the Contractor's Site Specific Safety Plan (SSSP) for the respective project shall be submitted for BPA's review. The list below is not "all inclusive", and Contractors are solely responsible for the safety practices of its workers. Please address all of the following items in the SSSP that apply to the project and the work that will be performed.

The Site Specific Safety Plan shall be available to all workers at the project site. All workers (prime and subcontractors) must be familiar with the content of the Site Specific Safety Plan. The Site Specific Safety Plan shall also be available for review by BPA personnel upon request.

A. SCOPE OF THE WATERSHED RESTORATION PROJECT: Elements of the project include, but are not limited to the following tasks which may present hazards to the workers.

1. Riparian restoration work.
2. The broad application of Herbicides.
3. In-water work for habitat restoration.
4. Installing pipe lines and pump stations.
5. Removing fish passage barriers.
6. Construct, realign, or remove in-water Channels, Ditches and Dikes.
7. Removal of up to 500 acres of Western Juniper (using machinery).
8. In-stream fish surveys, temperature and flow measurements.

B. GENERAL:

1. **Name of the Contractor and Key Personnel**
   a. Include name and contact information of the responsible Project Supervisor, the onsite Superintendent, and the name and contact information of individual responsible for Safety on the project.

2. **Project Description**
   a. Provide the project name and location and a brief description of the project work.

3. **Adherence to Regulations and Standards**
   a. Assurance that the Contractor and Subcontractors will adhere to applicable Federal OSHA regulations, State Safety and Health requirements, and BPA Contract Safety and Health Requirements.

b. Subcontractors - The prime Contractor is responsible for insuring that its subcontractors comply with all Safety and Health requirements.

4. **Worker Qualifications**
    a. Contractor workers shall meet OSHA requirements for “qualified employees”.
    b. Contractor workers must comply with State licensing and worker qualification requirements when performing work on the project.
5. **Emergency Action Plan**
    a. Describe steps to be taken in the event of an emergency. Include actions to communicate with the Emergency Responders and with BPA.
    b. List the name and address of the nearest emergency medical treatment facility. If the project is in a remote area provide driving directions to the facility.
    c. Include phone numbers for emergency services in the area (medical, fire, etc.).
6. **Incident and Accident Reporting**
    a. Accident reporting requirements per BPA’s Safety and Health Clause – The Contractor shall complete BPA form 6410.15e (Contractor’s Report of Personal Injury, Illness, or Property Damage Accident) and file it with the COTR within 5 working days of such an occurrence.
    b. In case of a Near Miss Incident that does not involve injury, illness, or property damage, the Contractor shall complete and file with the COTR BPA Form 6410.18e (Contractors Report of Incident/Near Miss) within five (5) working days of such an occurrence. An understanding of this requirement should be stated in the Site Specific Safety Plan.
7. **Maintenance of Work Areas**
    a. Maintain work areas, and traffic routes for all workers at the project site.
    b. Keep the project site free of debris on a daily basis, and store unused materials, tools and equipment in an orderly fashion.
    c. List the location and number of standard Spill Cleanup Kits, in the event of fuel or lubricant spills.
8. **Daily Job Briefings – Daily Job Hazard Analysis**
    a. The Contractor shall conduct daily documented job briefings with the job hazard analysis and subsequent safety items as an integral part of the briefing. Documentation of job briefings or job hazard analysis shall be available for review by BPA employees upon request.
    b. Additional briefings must be conducted when work situations change that may pose different or additional hazards to workers. If additional workers arrive at the site after the initial Daily Job Briefing, an additional briefing shall be conducted for the new workers.
9. **Working in and above Waterways.**
    a. All workers working in and above waterways shall wear approved floatation devices. Workers in waterways shall work in minimum crews of two workers, and not work alone.
    b. In situations where workers are in or above fast-moving water, the contractor shall provide a manned motor-craft positioned for rescue efforts.
10. **Utility Locates and Communication with Other Utilities**
    a. Contractor is responsible for obtaining any required utility locates and following appropriate digging recommendations which may include hand digging (potholing) a test hole to

expose underground utilities to determine location before digging with power equipment. Always call for locates before you dig.

b. Communicating with other utilities. If there are other utilities working in the same vicinity there is a need to coordinate with the other utilities during the project work.

11. Safety Data Sheets (SDS)

a. Safety Data Sheets and/or Safety Data Sheets (MSDS/SDS) for all products and chemicals used must be readily available to employees at their field locations.

b.

12. First Aid Kits, Fire Extinguishers, Eye Wash Stations/Bottles, Automatic External Defibrillator (AED)

a. List the onsite locations of this safety equipment.

C. ELECTRICAL WORK HAZARDS in and around ENERGIZED CONDUCTORS and EQUIPMENT:

1. Hazard Identification and Mitigation

a. Identify and list all known electrical hazards and potential hazards.

.

2. Minimum Approach Distance (MAD)

a. Contractor must adhere to appropriate Minimum Approach Distances. No piece of equipment can operate closer than 15' on circuits operating at voltages up to 345KV or 20' on circuits operating at 500KV. If these distances cannot be maintained, a Clearance or Safety Watcher may be required.

b. Effective 4/1/2015 new Minimum Approach Distance standards for electrical workers were implemented by Federal OSHA, and will be followed by BPA and its Contractors. The new MAD tables shall be inserted into the body of the SSSP. For tables listing the new MAD values Contractors can contact the COTR for their project.

c. Contractor must utilize proper loading/offloading procedures in proximity of power lines and energized equipment to avoid violations of the Minimum Approach Distance.

3. Safety Watcher Requirements

a. A Safety Watcher may be required when working in proximity to energized high voltage conductors or equipment. Any potential work activity that could violate the Minimum Approach Distance (MAD) with equipment or personnel requires the use of a Safety Watcher. The Contractor should make a hazard assessment to determine if a Safety Watcher would be advisable for any portion of this work.

b. Contractors working near energized conductors should have equipment onsite for measuring the distances to energized conductors or equipment (laser range finders or other non-conductive measuring devices).

c. The SSSP shall state whether a Safety Watcher will or will not be required on the project. Large projects with multiple work activities may require multiple Safety Watchers.

4. Personal Protective Equipment (PPE)

a. Personal Protective Equipment appropriate for the work shall be utilized. List the PPE that will be used on the project.

b. White hardhats will be worn – yellow hard hats are reserved for Qualified Electrical Workers (QEW) and shall not be worn by non-electrical contractor workers.

5. Grounding

a. When grounding is required, the Qualified Electrical Worker (QEW) in charge of the project or other QEW shall ensure grounding issues are properly addressed.

b. The crew size for attaching and removing grounds will be either two Qualified Electrical Workers, or one Qualified Electrical Worker and one Electrical Apprentice.

c. Equipment/vehicles may require grounding if operated in the vicinity of energized lines or equipment.

d. The Contractor must ensure that there are no potential differences between grounds. All equipment at the worksite that requires a ground must be tied into (at the same potential as) the protective grounding circuit to eliminate any step & touch hazards.

e. Some locations on the BPA system require multiple ground sets due to high magnitude fault currents. List all areas where multiple ground sets or multiple Portable Protective Grounds (PPGs) will be required on this project.

f. Mobile equipment and equipment used for lifting and hoisting will be grounded before it is used in proximity to energized conductors.

6. Lock Out/Tag Out

a. The contractors shall adhere to OSHA regulation 29 CFR 1910.147 – The Control of Hazardous Energy (Lockout/Tagout) during work that involves servicing and maintenance of machines and equipment in which the unexpected re-energizing or startup of the machines or equipment, or release of stored energy could cause injury to employees. Contractor employees must be trained in Lockout/Tagout procedures

7. Fueling in Proximity to Electrical Conductors and Equipment

a. Flammable liquids within 70' of conductors energized at voltages of 345KV and higher shall not be transferred from one metal container to another unless the two have been electrically bonded together to eliminate arcing.

b. Mobile equipment and vehicles should not be parked beneath energized conductors for extended periods.

D. FIRE HAZARDS - WEATHER HAZARDS – BIOLOGICAL HAZARDS

1. Fire Hazards

a. The Contractor is responsible for following daily updating and compliance with any local fire restrictions on work activities. This may have a direct impact on such work activities as machine operation.

b. If the Contractor will be performing "Hot Work" such as Torch Cutting, Brazing, Soldering, Abrasive Grinding or Cad Welding, a fire safety watchperson (equipped with a Fire Extinguisher) shall be posted to monitor the work while in progress, and for at least 30 minutes after the work has been completed.

c. The Contractor shall list all Firefighting tools kept at the project site and state the locations.

2. Lightning and Adverse Weather

a.All work shall be suspended and personnel shall seek appropriate sheltered areas during times that lightning is within sight and sound. Work with not resume until 30 minutes after the lightning storm has passed.

3. **Heat Related Stress**

   a.Describe the prevention measures to be employed to avoid heat related stress.
   b.Shade or well ventilated rest areas must be provided for worker refuge to prevent heat stress, drinking water must be available.

4. **Cold Related Stress**

   a.Describe the preventive measures to be used for cold related stress. Include **f**rostbite concerns, wind chill, hypothermia, snow and ice.
   bHeated areas must be made available (vehicles, tents, shelters).

5. **Biological Hazards**

   aDescribe awareness measures and plans for dealing with bees, wasps, spiders (black widow, hobo, brown recluse), rattlesnakes, rodents, poison oak, poison ivy, etc.

E. **Herbicide Application**

- Assurance that Herbicide Applicators have the proper state permits/licenses to perform work with herbicides
- Use of respirators if required for the work being performed
- Spray shall be directed downward, never up towards transmission line conductors or energized equipment.

The SSSP will describe the potential hazards encountered in herbicide application work, along with the Contractor's policies; controls, work practices, and personal protective equipment (PPE) selected to minimize those hazards.

F. First Aid

- Contractor crews should carry fully stocked First Aid Kits, which include provisions for dealing with wounds from rattlesnakes, bees/wasps, spiders, and poisonous plants.
- Contractor crews will have onsite an Automated External Defibrillator (AED), and have a qualified operator as a part of the crew.
- Additional Hazards. Any additional items recognized by the Contractor that may pose safety hazards on the project.

Minimum Approach Distances (MAD) For BPA Utilities

Nominal System Voltage Phase to Phase (kV)	**Phase-Ground MAD** (3)	
	MAD Without Hold Order & NO Tools	MAD With Hold Order for Tools
MAD for Elevations ≤ 3000'		
301- 750 V (1)	13	13
751 V - 5 kV	25	25
15	26	26
34.5	31	31
69	40	40
115	42	38
138	48	40
161	44	44
230	74 *	53
287	62 *	59
345	71 *	69
500 (100" Design)	104 *	90
500 (All Others)	118 *	90
500 Series Caps (4)	143 *	143
MAD for Elevations 3001' to 6000'		
301- 750 V (1)	13	13
751 V - 5 kV	25	25
15	28	28
34.5	33	33
69	43	43
115	45	39
138	51	41
161	46	46
230	79 *	57
287	64 *	63
345	76 *	72
500 (100" Design)	111 *	96
500 (All Others)	126 *	96
500 Series Caps (4)	153 *	153
MAD for Elevations 6001' to 9000'		
301- 750 V (1)	13	13
751 V - 5 kV	25	25
15	30	30
34.5	35	35
69	45	45
115	47	41
138	53	44
161	48	48
230	83 *	59
287	67 *	65
345	80 *	76
500 (100" Design)	117 *	101
500 (All Others)	132 *	101
500 Series Caps (2)	161 *	161

Notes - Minimum Approach Distances – Special Conditions:

* With verification of the actual substation bus height and location elevation the inadvertent movement factor (IMF) of 12 inches, included in MAD for worker motions, may be deducted at 230 kV and above to specifically allow vehicles in transit to safely pass under energized bus at those voltages. Equipment in transit (not being used to perform work) shall have secured any moveable parts (i.e. buckets, forks, load lines, loads) that could reduce clearances.[Reference Work Standard BPA-WS-5-1, *Minimum Approach Distance (MAD) Considerations*]

1. Avoid contact at voltages below 301 V.

2. If all of the series capacitors on a line are bypassed the MAD for the line may be reduced to the 500 kV MAD for lines without series capacitors and for the appropriate elevation. The ***with*** and ***without*** hold order MAD's are the same for lines with series capacitors in service, refer to BPA-WS-5-1.

MAD for Overhead Ground Wires		
	MAD Without Hold Order (in)	MAD With Hold Order (in)
Insulated Overhead Ground Wire	24	24
Fiber Optic (OPGW)	24	24
Energized Ground Wire (PCS 15 kV)	30	30
Energized ground wire - marker ball lighting	25	25

DC MAD for Elevations ≤ 7000'		
Nominal System Voltage (kV)	**Pole - Ground**	**Pole – Pole**
	MAD for Tools Restart Blocked & Disabled	MAD for Tools Restart Blocked & Disabled
400	92	144
448	106	159
500	123	176
520	129	182
560	143	196

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