

Request for Bids for the Engineering and Design of the North Bank Working Landscapes Project



Requested by:
Coos Soil and Water
Conservation District
379 N. Adams St.
Coquille, OR 97423

July 30, 2018

**Request for Bids for the Engineering and
Design for the North Bank Working
Landscapes Project**

AN OPTIONAL PRE-PROPOSAL SITE CONFERENCE
will begin at **August 21st, 2018 at 10:00AM**

Meet at the project site at 85411 North Bank Ln. Coquille, OR 97423. From Coos Bay, head south on US-101 for 18.1 miles, then turn left onto Randolph Rd, travel 1.1 miles then turn left onto N. Bank Ln for another 1.8 miles. The project site will be on the right hand side of the road; limited parking at landowner's driveway on left.

From Coquille, travel northwest on Hwy OR-42 W/E for 4.5 miles, towards N. Bank Ln. Turn left onto North Bank Ln. for 12.9 miles, the project site will be on the left, with limited parking at landowner's driveway on the right.

Statements made by association's representatives at the conference will not be binding on association unless confirmed by written addendum. Bidders shall submit their proposal pursuant to the provisions of this solicitation to:

Coos Soil and Water Conservation District (Coos SWCD)
c/o Caley Sowers
379 North Adams St.
Coquille, OR 97423

SOLICITATION CLOSING
August 31st, 2018, at 4:30 PM
(LATE BIDS WILL NOT BE ACCEPTED)

Bidders are solely responsible for ensuring that the Coos SWCD receives the proposal. This Bid Document and attachments are available online (www.coosswcd.org), by phone (541-396-6879), and by email (info@coosswcd.org). Bidders shall familiarize themselves with this entire Bid Document.

All questions and comments about this solicitation shall be directed IN WRITING to Caley Sowers, Coos SWCD-Project Manager Email to: info@coosswcd.org

INVITATION TO BID

Notice is hereby given pursuant to this Request for Bids (“RFB”) that sealed bids (a “Bid”) for the North Bank Working Landscapes Project (“Project”), which is described in more detail in Exhibit A: Bid Prospectus, will be received by The Coos Soil and Water Conservation District (“Coos SWCD”), up to the deadline indicated in this Bid Document. Specifically, Coos SWCD intends to contract the design and permitting of installation of a new culvert/tidegate and tidal channel construction in a tidal floodplain adjacent to the Coquille River at River Mile (RM) 7.5; 85411 North Bank Ln., located near the city of Bandon, OR (“Site”). This design and engineering phase will occur from September 30th, 2018 to April 30, 2018. A 30% design meeting by December 30th, 2018, 60% design meeting by February 1, 2019, and a 90% design meeting by March 15, 2019 are required. A draft permit application should be sent to Coos SWCD by February 1, 2019 for internal review and the permit should be submitted to DSL/USACE by April 30, 2019. The contract documents (including special provisions and specifications) are available at the Coos SWCD office, 379 North Adams St. Coquille, OR 97423, online (www.coosswcd.org), or requested via email: info@coosswcd.org

Those receiving this RFB who wish to submit a Bid (in each case, a “Bidder”) shall furnish labor, materials and equipment necessary for completion of the design in accordance with the specifications provided in the Bid Prospectus. The project will consist of designs with cost and quantity including but not limited to: (i) Develop hydrologic/hydraulic analysis to provide foundation for culvert and tidegate sizing to meet state and federal fish passage guidelines. (ii) Preferred and alternate option(s) for culvert that will accommodate hydrology for the site; tidegate designs that meet or exceed state and federal fish passage guidance; tidal channel design/alignment; dike maintenance; and wood installation. (iii) Preparation of permit application(s) *Note: SWCD and partners will submit and shepherd permits through State and Federal process.* Project Design Criteria should reflect those set forth in the U.S. Army Corps of Engineers’ (USACE) Standard Local Operating Procedures for Endangered Species (SLOPES V Transportation & SLOPES V Restoration). *Note: Coos SWCD and technical partners will provide an outline at the optional bid tour for a couple of potential project designs, of perhaps several, for the consultant team to fully flesh out.*

See Exhibit A: Bid Prospectus to obtain information on project goals, site history, current knowledge of the site hydrology and geomorphology, proposal instructions and required forms. See Exhibit B: Site Maps and Project Information for plan diagrams, LiDAR elevation map, draft drawings of proposed channel reconstruction and tidegate/culvert replacement, and estimated project completion timetable. See Exhibit B: Attachment 1 for Coos SWCD North Bank Working Landscapes Project site photos; lastly, also reference the supplemental additional literature in the Bid Prospectus for additional information on the goals of the Coos SWCD restoration program, geomorphology and hydrology, and additional engineering reports.

Deadline: no later than 4:30 p.m., August 31st, 2018. Bids received after this date and time will not be considered. Bid shall be post marked, emailed, or hand delivered to the Coos SWCD office at 379 North Adams St. Coquille, OR 97423; Attention: Caley Sowers.

Included in this Request for Bids (RFB) is:

Exhibit A: Bid Prospectus that includes project background, requirements for Bidders, proposal instructions, and required forms

Exhibit B: Project maps

Attachment 1: Project Site Photos

Attachment 2: Photo Documentation of Emergency Dike Repair conducted by Landowners in 2017

Exhibit A:

BID PROSPECTUS

LOCATION: North Bank Lane, See Exhibit B map for specific project location.

OPTIONAL SITE TOUR: August 21st, 2018 at 9:00AM

BID DEADLINE: August 31st, 2018 at 4:30pm.

APROXIMATE START: September 30th, 2018 or as soon as all documents are in order.

COMPLETE: April 30, 2019

1. PROJECT BACKGROUND:

The North Bank Working Landscapes Project is a product of the strong need to enhance ecological productivity of floodplain wetland habitats in the Coquille River basin, while supporting continued traditional agricultural uses. Wild/natural anadromous fish returns to the Coquille River basin are estimated currently at only 8% of historical abundance. The Coquille Sub-Basin Plan (NOAA, 2007) has determined that full recovery of the Coquille coho population will require restoration of both stream and tidally influenced wetland winter rearing habitats. River valley floodplain channels and freshwater tidally influenced habitats have the capacity to rear sufficient numbers of juvenile coho to produce 11-17 returning coho adults per acre of restored habitat on average (Nickelson 2012). One of the largest factors currently suppressing juvenile fish use of the floodplain has been the elimination of tidal inflow onto floodplain areas which have been developed into pastures.

The Coquille River valley floor in most of the low-lying regions now is currently highly valued for agriculture was, according to historic reports (Benner, 1992), primarily dominated by a multi-tiered wetland forest of willow and other shrubby species, with a black cottonwood and Sitka spruce over story. Within this valley bottom were extensive wetlands and stream channels that would have comprised over 12,000+ acres of habitat. Fish would have resided in the channels yearlong with seasonal variation in numbers. The majority of the lands in the Coquille River valley floor were cleared, leveed, tide-gated, and drained for agricultural purposes in the late 1800s to early 1900s, thereby altering the landscape from its natural state as saltmarsh/freshwater/tidal swamp into a drained pasture used seasonally to year-round for agriculture. Many of the sinuous tributary streams were also channelized at this time into linear drainage “ditch” networks, and tidegates were widely used to limit the amount of tidal influx into agricultural lands.

The tidegate networks prevent flooding of these floodplain habitats for all months when river levels are low due to limited precipitation. Typical traditional tidegate styles are top-hinged wood or steel. The angle these gates open is generally less than 20% when upstream outflow pressures are low (which is much of the year). The result is severe restriction of juvenile fish movements from the main-stem Coquille River into locations that would historically have provided high quality fall and winter rearing. Impacts from these land management practices were substantial and thorough. By the 1990s the amount of tidally influenced and standing saltmarsh/wetland was reduced to less than 600 acres or <5% of historical. Resultantly, there have been widespread ecological changes in the capacity of the valley floor to produce fish and wildlife.

The North Bank Working Landscapes Project site is 43.0 acres upstream from Randolph Island at RM 7.5 on the Coquille River, near Bandon, Coos County, OR. The site was historically a tidal saltmarsh. As with many other similar properties in the region, diking and draining of the site for agricultural was facilitated by installation of a culvert with tide-gate and construction of linear drainage channels in the early 1900's. Tidal influence to these channels is currently near zero as the single gate servicing the property is a top-hinged "Flapper" gate that does not allow for tidal inflow. Flooding has occurred on the project area when the Coquille River reaches flood stage. Recently, the dike suffered serious erosion in two locations, allowing saline tides over 7.0ft MLLW into the field. Due to limited water exchange and connectivity with the Coquille River water quality is low, access for fish is very poor, and farming operations have been negatively impacted. In 2017, the property owners independently worked with DSL and USACE to obtain permits to make repairs to their dike, but these improvements are likely only a temporary solution and more permanent measures will need to be taken to ensure continued protection of the pastures.

This prospectus is focused on obtaining final engineering and designs, hydrological information and analysis, quantity and cost estimates, and permitting assistance to facilitate future implementation of "The North Bank Working Landscape Preservation & Tidal Channel Restoration Project." The designs of the tidegate, culvert, and channel reconstruction and will allow Coos SWCD staff and technical partners to choose the best option for fish habitat improvement while also considering hydrological and productivity impacts to the landowners' pasture. This will ultimately bring the project to "shovel ready" design, at which point Coos SWCD staff can seek funding for the implementation that will result in the restoration of a more natural hydrological connectivity, improved agricultural drainage, and access to enhanced fall/winter/spring rearing habitat for salmonids and other aquatic organisms.

2. PROJECT OBJECTIVES:

The objectives for the Project are to develop information/engineering needed for a future restoration project that will install a new culvert with Muted Tidal Regulator (MTR) tidegate able to be set to allow tidal inflow to a desired level upon which the device will allow the door to close. The project will provide for Coho, fall Chinook, winter steelhead, juveniles and cutthroat to have a longer duration of accessibility to the site during all periods of the year, specifically during winter high flow periods when winter refugia is critical. Up to 2,950 ft. of additional tidal channel will be created and/or reconstructed.

Functional benefits will be related to overall improved water quality, increased channel dimensions and complexity/quality of habitat, and fish access to the site. A modest increase in total channel network is expected following final engineering and design. The existing channel network was not constructed to grade and the ability for fish to successfully move to and from the river continuously without reaching locations where they are vulnerable to stranding or extreme temperatures, currently limits salmonid use of the network during summer months. Engineer hydraulic analysis will be used to size the culvert/tidegate to meet both state and federal criteria based on velocity thresholds for the smallest life stage that would need to access the site. These objectives will achieve our broader goals to:

- (1) Maximize the quality and quantity of salmonid over-wintering habitat through improved habitat connectivity, complexity, and water quality.
- (2) Work collaboratively with private landowners to promote and protect production of fish and wildlife on the landscape, while accommodating continued traditional use and supporting sustainable agriculture practices.

The restoration project facilitated by this engineering project will be a much larger effort to greatly enhance the productive capacity and accessibility for fish on a Coquille River tidal

floodplain pasture and ~2,950 feet of reconstructed on-grade tidal channel.

Proposed future restoration actions include: (1) installation of new culvert and Muted Tidal Regulator (MTR) Tide-gate, (2) reconstruction of ~2,950 feet of sinuous, on-grade, tidal channel network to provide greatly improved watercourse drainage and hay production; (3) riparian fencing along both sides of reconstructed channel network; (4) re-establishment of native woody vegetation along the banks of tidal channels for direct improvements to water quality over current conditions; and (5) installation of large woody debris to increase hiding cover and overall complexity.

3. SCOPE OF WORK:

3.1 Design.

The Bid will require the contractor obtain data sufficient to determine inflow and outflow volumes at different tide gate settings in relation to tidal regimes and land elevations. Data will also be used to design and lay out the tidal channel network and to determine the appropriate size for the new tide gates and associated culvert. Contractor will work closely with Coos SWCD ODFW, partners, and the landowner to ensure restoration design is in compliance with federal and state fish passage requirements and is compatible with current land management at the site. The work shall be designed to standards for which permits can be obtained.

Current land use consists of managed hay pasture on a tidal flood plain. Water movement through the pasture is controlled by an undersized 12” culvert/tidegate that impedes fish movement and alters estuarine function on the site. The overall restoration goals for the project area include but are not limited to: 1) reestablishment of hydrologic function to the greatest degree possible while accommodating existing grazing/hay production on the property; 2) increasing accessibility for native migratory fish into the tidal marsh; 3) increasing aquatic habitat availability and quality through the development of a tidal channel network; and 4) improving water management for agricultural use on pastures within the project area.

Restoration approach will incorporate and enhance the existing tidal channel network and construct new channels based on historic site conditions. Project goals are reliant upon the installation of a “fish friendly” modern design tide gate mounted on a culvert that will restore tidal flows more reflective of historic conditions.

3.2 Tasks.

3.2.1 Project Administration, Meetings, and Existing Data Review: This task includes personnel time and expenses related to coordination with partners and review and analysis of existing data, including LIDAR, FEMA floodplain maps, tidal datum, and USGS stream flows. Routine client communications and coordination including phone calls and meetings will be conducted as needed. A detailed project schedule will be developed with project partners and kept up to date. Invoices, work summaries, and budget updates will be provided when requested by Coos SWCD. Project partners, including ODFW, NOAA, Coos SWCD and others will provide guidance related to regulatory sideboards and acceptable outcomes.

3.2.2 Existing Information to be used: The Contractor will be required to use the existing data and reports to develop the design alternatives. These reports, and information have been specifically developed to provide project foundation. The following reports are available and will be provided (via electronic copy) to prospective Bidders upon request:

- LiDAR information
 - Coquille River Sub-Basin Plan, Coquille Indian Tribe 2007
 - Oregon Coast Coho Conservation Plan for the State of Oregon, ODFW, 2007
 - Historic aerial photos of the Site;
 - NOAA SLOPES Guidelines
 - SHPO report for the project site, 2017
 - OWEB Technical Assistance Grant Application
- 3.2.3 Field Data Collection:** It is anticipated that the following data will be needed: geotechnical investigation and assessment, topographic surveys to produce bathymetry, tidal elevation measurements, site assessment, and geomorphic field data. Bathymetric data collection will be limited to a survey of floodplain tidal channels and portions of the Coquille River adjacent to the tide gates that are accessible from the levee or watercraft. Tidal elevation measurements will require use of water level sensors upstream and downstream of the project area within the Coquille River. Geotechnical information will be strongly focused on understanding soil stability parameters necessary to engineer and install the tidegate culvert. Additionally, the overall stability of the culvert is strongly linked to long-term control of hydraulic forces acting upon the associated tide gate. Partners will evaluate and provide feedback on field data summaries and assist when possible with periodic downloads of the sensor data.
- 3.2.4 Hydrology and Hydraulics:** The contractor will evaluate site hydrology and hydraulics and how they relate to topographic relief, tidal channels, and tidal levels. A hydraulic model will be developed for various tidal influence and elevation scenarios. The contractor will use the hydraulic model to analyze flow parameters to design the new tide gates, culverts, and tidal channel network, with the goal of meeting state and federal fish passage criteria and associated permit requirements. The assessment will also be used to predict the effects of the project on the site's current land use and be sufficient to produce an engineered-stamped document showing compliance with FEMA floodplain rules. Inundation extent, depth, and frequency will be modeled using tidal data calibrated to local conditions with the installed water level sensors. Data will also be sufficient to allow project partners to develop a water management plan illustrating inundation acreages under various scenarios related to fish use and pasture management. One of the required products associated with this task will be data tables for various proposed tidal management scenarios along with figures depicting areas flooded. Project partners will evaluate and provide feedback on data and analysis.
- 3.2.5 Restoration Plan and Alternatives Analysis:** A restoration plan including concepts and cost estimates will be developed for the project in collaboration with project partners. The information in the plan will be fully sufficient to prepare a final design. Contractor will work closely with project partners to ensure that restoration design concepts are compatible with the project's goals. This task will consider fluvial and tidal hydrology and hydraulics; take into account geomorphology, historic channel alignments, watershed dynamics, flood impacts, ecological community impacts, and current state and federal fish passage requirements. Project partners will also provide input into alternative development.

- 3.2.6 Permits:** Contractor will complete permit applications for Section 404 (USACE/DSL) FEMA floodplain certification. The Contractor will also be responsible for working with and attending onsite meetings if necessary with the different permitting agencies to complete designs in accordance with and obtain the required permits and reviews for the project. Permits include but are not limited to DSL/USACE, ODEQ, and Coos County Land Use. *Coos SWCD and ODFW will submit and shepherd the permits through the regulatory process.*
- 3.2.7 Engineering Design Development:** The contractor will follow state and federal fish passage guidelines requirements regarding tide gate replacement which include. Project components will be developed initially to provide a 30% level design vetted through NMFS and ODFW fish passage staff. The engineer will also complete River RAT. Following approval of the 30% design, project partners will reevaluate the design at the 60% level and give approval for the preparation of construction-ready designs.
- 3.2.8 Final Development:** At the 100% level of design, the contractor will provide construction contract documents, including technical specifications for the bid documents, construction cost estimates, a bid sheet, and a Request for Bid document (RFB). The RFB will include all federal and state environmental and construction project criteria.
- 3.2.9 Bid Support and Pre-Engineering Meeting:** The on-site pre-meeting is optional, however, highly recommended. The meeting will allow prospective bidders to view site conditions and ask Coos SWCD/partners project related questions. Coos SWCD will respond to Requests for Information (RFI), provide addendums to the drawings in response to contractor questions/comments, for both on-site pre-bid attendees and those soliciting information through email/phone communications.

3.3 Deliverables.

The final deliverables to be provided by the Contractor will consist of the following:

- (1) Site Survey of Elevations and Current Dike Condition;
- (2) Bathymetry Assessment to Determine Site Hydrology;
- (3) Engineering/Design/Layout of Hydrologically/Ecologically Functional Channel Network;
- (4) Hydrologic/Hydraulic Analysis for Culvert/Tidegate sizing;
- (5) Engineering/Design of Culvert and Tidegate to Meet Hydrological/Ecological and State and Federal Fish Passage guidelines;
- (6) Development of a “Project Implementation” cost assessment including all aspects of the project (culvert installation; tidegate construction installation; dike maintenance; tidal channel construction; other items);
- (7) Developing an erosion control plan for “Project Implementation;”
- (8) Engineer will be required to attend meetings with Coos SWCD and project partners for evaluation of the 30%, 60%, and 90/100% design completion levels
- (9) Development of DSL/USACE/NMFS/County Planning Permits.

4. PLACE/DELIVERY AND PERIOD OF PERFORMANCE:

Contractor will provide all hardcopy and digital data, including the results of all hydrologic, hydraulic and geomorphic analyses, to SWCD and project partners. Data, including GIS, will be made available to project partners via internet download or CD.

Base Year: September 30th, 2018 (or 3 days after receipt of award, whichever is sooner) through October 30th, 2020.

5. EVALUATION AND ACCEPTANCE:

Evaluation and Acceptance will be determined by the Coos SWCD.

6. GOVERNMENT FURNISHED EQUIPMENT/INFORMATION:

No government furnished equipment is required. The Contractor shall furnish all labor, equipment, materials, supplies, parts, tools, and services to perform the requirements of this Contract.

7. TECHNICAL COORDINATOR:

Caley Sowers, Coos SWCD District Manager: (541)396-6879, info@coosswcd.org

8. COST EVALUATION SPECIAL CONSIDERATIONS:

Engineering will need to evaluate aspects of the future "Project Implementation." Project cost evaluation will need to include consideration of measures that minimize adverse effects to the environment, such as:

- Minimally-sized, low pressure tires, minimal hard turn paths for tracked vehicles). All Equipment will be cleaned and free from foreign materials and noxious weeds to prevent the introduction of invasive and/or damaging species.
- All equipment used for instream work will be cleaned for petroleum accumulations /leaks repaired prior to entering the project area. Equipment will be cleaned of non-native plant seeds/material prior to entering the project area. Equipment shall be inspected and approved by the Project Inspector prior to the start of operations.
- Use of biodegradable hydraulic fluid in all machinery that will dig in wetland habitats (primarily excavator).

9. CULTURAL RESOURCES:

Cultural clearances must be obtained prior to any ground disturbance associated with site exploration through all appropriate state and federal agencies. If, in connection with operations under this project, the Contractor, subcontractors, or the employees of any of them, discovers, encounters, or becomes aware of any objects or sites of cultural value on the project area, such as historical or prehistorical ruins, graves, grave markers, fossils, or artifacts, the contractor shall immediately suspend all operations in the vicinity of the cultural value and shall notify the Coos SWCD of the findings. Operations may resume at the discovery site upon receipt of written instructions. No objects of cultural resource value may be removed.

10. EXAMINATION OF SITE, BID DOCUMENTS, PERMITS, ETC.:

Before submitting a Bid, each Bidder shall be responsible for: (i) becoming fully acquainted with the Site and the conditions relating to the Work, in order to understand fully the facilities, difficulties, and restrictions attending the execution of the Work; (ii) carefully examining each component of the Bid Documents and any other available supporting data, in order to become thoroughly familiar with all of the requirements; and (iii) obtaining for itself, at its own cost and expense, copies of all agency and association guidelines and standards cited in the proposed Contract and necessary to perform the Work. No failure or omission of any Bidder to receive or examine any such information or to visit the Site and become acquainted with the conditions existing at the Site shall in any way relieve such Bidder from obligations with respect to its Bid, any Contract entered into with such Bidder, or the Work, and the submission of a Bid shall be taken as *prima facie* evidence of compliance by the submitting Bidder with the requirements of this paragraph.

11. SELECTION AND EVALUATION CRITERIA:

Proposals will be evaluated by a Coos SWCD Projects Committee that, after evaluation of written proposals, may choose to also conduct a personal interview. Project Committee will include at a minimum the Coos SWCD District Manager, an ODFW Fish Biologist, and one Coos SWCD board member. Bid evaluation will be based on the ability of the Bidder to meet the specifications for the tasks described in this RFB in a timely fashion. Selection will also be based on the ability of the Bidder to work in a cooperative manner with Coos SWCD staff and project partners on the Project. Coos SWCD will generally not disclose the status of any award until the appropriate authority at Coos SWCD has approved the award of a Contract.

Normally, the awarding of a Contract or Bid rejection will occur within 10 calendar days after Bid opening. If the selected Bidder and Coos SWCD agree, this deadline may be extended, but Coos SWCD reserves the right: (i) to award multiple Contracts for parts of the Work; (ii) to consider such criteria as it may deem appropriate with respect to the Project; (iii) to reject any or all Bids; and/or (iv) not to proceed with the Work and/or the Project (or any part thereof); all in the exercise of its sole and absolute discretion. Coos SWCD will provide a written notice of its intent to award a Contract to the successful Bidder(s) (in each case, a “Notice of Intent to Award Contract”), and any submittals required to be submitted to Coos SWCD within a certain number of days after award is made will count from the day that the Notice of Intent to Award Contract is given. The actual award shall, however, be dependent on full execution of the Contract(s) and submission by the successful Bidder(s) of all other required documents.

12. EVIDENCE OF RESPONSIBILITY:

Upon the request of Coos SWCD, a Bidder whose Bid is under consideration for the award of a Contract shall submit promptly to Coos SWCD satisfactory evidence showing the Bidder’s financial resources, construction experience, and organization available for the performance of the Work.

13. RIGHT TO AWARD OR REJECT:

This RFP does not obligate the Coos Soil and Water Conservation District to award a contract, the Coos SWCD reserves the right to reject any and all proposals and to further amend or refine a proposal and negotiate a contract with one of the proposers. The Coos Soil and Water Conservation District reserves the right to offer a contract to other than the lowest cost bidder based on other evaluation criteria.

14. CONTRACT REQUIREMENTS:

It is the desire of the Coos Soil and Water Conservation District to enter into a contract that includes all of the services necessary to achieve the goal of the project, whether or not those services are specifically outlined or described in this RFP. This project may include federal funds, therefore the selected firm must be able to comply with any specific federal provisions and regulations that may apply to such a federally funded contract and may be required to sign certain assurances related to applicable federal or state laws.

15. WAIVER OF INFORMALITIES:

The Coos Soil and Water Conservation District reserves the right to waive minor informalities contained in proposals, when in the District’s sole judgment; it is in the best interest of the Coos SWCD to do so. The Coos SWCD reserves the right to waive minor informalities in the Bids received. The Coos SWCD may also reject any Bid not in compliance with all prescribed requirements, including the requirement to demonstrate the Bidder’s responsibility and may reject for good cause any or all Bids upon a finding by the Coos SWCD that it is in the public interest to do so, in accordance with OAR 137-049-0440

16. BID ERRORS AND WITHDRAW:

A Bidder may withdraw its Bid at any time prior to the date and time that Bids are due, by means of written notice which is given to Coos SWCD before the date and time that Bids are due, at the address for submission of Bids which is given above. A Bidder may also modify and/or resubmit its Bid at any time prior to the date and time that Bids are due.

17. BIDDERS INTERESTED IN MORE THAN ONE BID:

No person, firm, or corporation shall be allowed to make, file, or be interested in more than one Bid for the Work. However, a person, firm, or corporation which has submitted a sub-proposal to a Bidder, or which has quoted prices of materials to a Bidder, is not thereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or making its own Bid.

18. COSTS INCURRED:

The Coos Soil and Water Conservation District accepts no liability for any costs incurred by respondents in the preparation or presentation of proposals.

19. INQUIRES:

Questions concerning this request for proposals should be directed in writing to: Coos SWCD District/Project Manager – Caley Sowers, Email: info@coosswcd.org
Each Bidder shall promptly notify Coos SWCD of any discovered conflicts, ambiguities, or discrepancies in or between, or omissions from, the Bid Documents. Bidders should note that questions received less than two calendar days prior to the date scheduled for opening of the Bids may not be answered. Any interpretation or correction of the Bid Documents will be made only by Addendum, and a copy of such Addendum will be sent directly to each Bidder. No oral interpretations of any provision in the Bid Documents will be made to any Bidder.

20. PROJECT DESIGN MILESTONES

Pre-bid meeting and Site visit:	August 21, 2018
Deadline for submitting requests for information:	August 24, 2018
Bid due date:	August 31, 2018
Anticipated opening of Bids:	September 3, 2018
Successful Bidder(s) to provide contract/all paperwork to Coos SWCD:	September 7, 2018
Deadline for commencing the Work:	September 30, 2018
Anticipated final completion of entire Engineering Project:	April 30, 2019

21. PROPOSAL INSTRUCTIONS:

Bids must be received on or before 4:30 pm August 31, 2018.

Bids shall be mailed, emailed, or hand delivered to;

Coos Soil and Water Conservation District c/o Caley Sowers
379 North Adams Street, Coquille, OR. 97423

Bidders must clearly show the following information on the envelope in which their Bid is sent:

Name of Bidder

RE: Engineering Bid for North Bank Working Landscape Project

Bidder's Address

Proposals shall include, at a minimum, the following items:

- Bid Form with Schedules 1-4 completed. Please provide a work plan to accomplish the Project goals as described in the RFB, including a description of the work product, time estimates for each task, personnel to be assigned (where possible, individual staff members and titles should be provided), and costs, taking into account the proposed timeline for completion of the Work indicated in the RFB.
- A list of equipment with size expected to be on the project (Including proposed fire safety).
- A written statement affirming your ability to undertake and complete specific phases of this work in a timely fashion from roughly September 30th, 2018 through on or before April 30th, 2019.
- A signed statement that you can and shall provide the Insurance requirement as listed.

Bids must not contain any erasures, interlineations, or other corrections unless each such correction is suitably authenticated by affixing in the margin immediately opposite the correction the surname or surnames of the person or persons signing the Bid, in the named person's own handwriting. In order for a Bid to be considered responsive, it must contain all of the documents and information which are required by this RFB, with signatures and notarization as indicated, and it must: (i) cover the complete scope of work as defined in the RFB; (ii) not include any exclusions or qualifications and (iii) include additive, alternate, unit and lump sum costs as listed on the bid forms. Bid prices must (where applicable) be F.O.B. at the Site, with all transportation and handling charges paid by the Bidder.

Bid Form
Engineering for North Bank Working Landscapes Project

Coos Soil and Water
Conservation District
Attn: Caley Sowers
379 North Adams St.
Coquille OR 97423

This Bid is being made to The Coos Soil and Water Conservation District, (“Coos SWCD” or “Owner”) in the form of a sealed bid (the “Bid”) with respect to the project known as “North Bank Working Landscapes Project” (the “Project”), located northeast of the town of Bandon, in Coos County, Oregon (the “Site”). The undersigned (“Bidder”) is making this Bid pursuant to the terms of the Request for Bids for the Project, dated July 30th 2018 (the “RFB”), a copy of which was supplied to Bidder by or on behalf of Coos SWCD and has been reviewed in its entirety by Bidder. The RFB and all of the documentation required of a proposed bidder on the Project under the terms of the RFB are sometimes hereinafter referred to collectively as the “Bid Documents”.

Name of Bidder: _____

Business License Number: _____ Federal Tax Id No: _____

Contact Person(s): _____

Place of Residence (if individual): _____

State of Incorporation/Formation (for entities): _____

Business Mailing Address: _____

Shipping Address (if different): _____

Telephone Number: _____ Fax Number: _____

Email: _____

Pursuant to and in compliance with the RFB, the undersigned Bidder, having become familiar with the conditions at the Site and otherwise affecting the performance of the Project; the cost of the work to be done in carrying out the Project (collectively, the “Work”); the terms of the Bid Documents; and the form of the Contract to be awarded to the successful bidder (the “Contract”); hereby proposes and agrees to perform the Work within the time stipulated in the Bid Documents and to provide and furnish any and all labor, materials, equipment, transportation, utilities, and services necessary to perform and complete the Work in a workmanlike manner and in strict conformity with the requirements contained in the Bid Documents, including any addenda referenced below, for the amount(s) and/or at the rates indicated below (collectively, the “Bid Price”).

By signing and submitting this Bid to Coos SWCD, Bidder hereby represents, warrants, acknowledges, and agrees to and with Coos SWCD, or certifies to Coos SWCD (as applicable), as follows:

1. Bid. Bidder hereby offers to carry out and complete the Work for the Bid Price, made up of the price(s) and/or rates, and according to the budget, which are more particularly described in Schedule 1 to this Bid, and Bidder has checked all of the figures contained in this Bid carefully and understands that Coos SWCD will not be responsible for any errors or omissions on the part of Bidder in making this Bid.

2. Quantities. Bidder understands that the quantities mentioned in the RFB are approximate only and are subject to increase or decrease, and hereby proposes to perform all quantities of work as either increased or decreased in accordance with the terms of the Contract.

3. Bid to Remain Open. This Bid, unless withdrawn prior to the scheduled closing time for receipt of Bids, or thereafter when permitted under the terms of the RFB, shall remain valid and will not be withdrawn by the undersigned Bidder for a period of thirty (30) days after the scheduled closing time for receipt of Bids.

4. Responses to Coos SWCD Concerns. Bidder hereby responds to Coos SWCD's concerns about the following issues as indicated below, with such responses being continued/contained on attached schedules to the extent indicated below in each case:

(a) Minority- and Women- Owned Business Enterprises. Is the Bidder's firm at least 51% minority- or women-owned, controlled and operated: Yes No

If the answer is "yes", identify the % of minority- or women-ownership, control and operation:

(b) Additional Information. Please provide any other information you feel would help Coos SWCD's selection committee evaluate your firm for this Work.

5. License(s). By execution of this Bid, the undersigned Bidder declares that Bidder holds the following license(s) relevant to the Work, in accordance with the applicable licensing laws where the Project is to take place, as follows:

Classification: _____
License number: _____
Expiration date: _____

6. Interested Persons. The names of all persons interested in this Bid as principals are as follows:

If Bidder or another interested person is a corporation, state the legal name of the corporation, its state of incorporation, and the names of the president, secretary, treasurer, and manager thereof.

If Bidder or another interested person is a partnership or other form of legal entity, state the name and form of the entity, its state of formation, and the names of all the individual partners, members, joint venturers or others with an interest in the entity.

If Bidder or another interested person is an individual, the person's state of legal residence, and the first and last names in full, and give all fictitious names under which the individual does business.

7. Notices. Bidder understands that, except as noted below, notice of acceptance of this Bid, any requests for additional information, and any other notices to Bidder with respect to this Bid shall be given in writing and addressed to Bidder at the business address for Bidder which is set out above. Each such notice or request shall be deemed given either upon actual delivery (or attempted delivery) to such address

(whether personally or via courier), or three calendar days after being placed in the US mail, postage prepaid, addressed to Bidder at such address. However, Bidder understands that Coos SWCD may, if it chooses, elect to respond by email to questions from Bidder, at the email address provided in this Bid.

8. Attachments. Attached to these Bid cover pages and incorporated into this Bid by this reference are the following required items, in the forms required under the RFB:

- (a) Schedule 1 – Bid Price sheet with the details of the Bid Price (an Excel spread sheet may be used instead of the form provided);
- (b) Schedule 2 – List of references for similar projects completed;
- (c) Schedule 3 – List of proposed subcontractors and suppliers;
- (d) Schedule 4 – Insurance requirements

9. Requirements Upon Award. If this Bid is accepted by Coos SWCD and notice of such acceptance is timely delivered to the undersigned, then the undersigned shall, within ten (10) days after receipt of such notice, execute and deliver to Coos SWCD:

- (a) the Contract, in the form required under the RFB, as prepared by Coos SWCD;
- (b) the insurance certificates required under the RFB and the Contract; and
- (c) such other documentation as may be required under the Contract.
Thereafter, the undersigned will commence and complete the Work within the time required by the Contract.

10. Bidder's Acknowledgment, Certification, and Agreement as to its Bid. By submitting this Bid, Bidder shall be deemed to acknowledge, certify, and agree to and with Coos SWCD that Bidder:

- (a) has taken steps reasonably necessary to ascertain the nature of and location of the Work;
- (b) has investigated and satisfied itself as to the general and local conditions that can affect the Work or its cost, including but not limited to:
 - (1) conditions bearing upon acquisitions, transportation, disposal, handling, and storage of materials;
 - (2) the availability of labor, materials, water, electric power, and access via roads or waterway;
 - (3) uncertainties of weather, river stages, tides, or similar physical conditions at the Site;
 - (4) the conformation and condition of the ground and any shoreline or riparian area;
 - (5) the character of equipment and facilities needed preliminary to and during Work performance; and
 - (5) the Site's biological, chemical, and associated physical hazards;
- (c) has satisfied itself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered, insofar as this information is reasonably ascertainable from an inspection of the Site as well as from the Bid Documents and other information made a part of the RFB; and
- (d) has satisfied itself as to the adequacy of time allowed for the completion of the Work.

11. Addenda. Bidder has received, reviewed, and understands, the following Addenda to the original Bid Documents (list all Addendums associated with this Bid packet):

Addendum Number	Date of Addendum

In witness whereof, this Bid is being executed and delivered by Bidder as of the date(s) set forth below

If Bidder consists of or includes one or more corporations, partnerships, or other forms of legal entity, the full legal name of the entity shall be set forth in the signature block below, together with the signature(s) of the officers, partners, or other individuals authorized to sign contracts on behalf of and to bind the entity.

By: _____ (Signature)
Print Name: _____ Print Title: _____ Print
Date: _____

If Bidder consists of or includes one or more individuals, the following form of signature block is to be used for each of such individuals:

Signature: _____ Print Name: _____ Print
Date: _____

Schedule 1

Bid Price Sheet

Bid Item	Units	Contract Quantity	Unit Price	Extended Cost
Site Survey of Elevations and Evaluation of Current Dike Condition; Bathymetry Assessment to Determine Site Hydrology;				
Hydrologic/Hydraulic Analysis for Culvert/Tidegate				
Engineering/Design/Layout of Hydrologically/Ecologically Functional Channel Network				
Engineering/Design of Culvert and Tidegate to Meet Hydrological/Ecological and State and Federal Fish Passage guidelines				
Development of a "Project Implementation" cost assessment including all aspects of the project (culvert installation; tidegate construction installation; dike maintenance; tidal channel construction; other items)				
Developing an erosion control plan for "Project Implementation"				
Development of DSL/USACE/NMFS/County Planning Required Floodplain Certification.				
Travel to Coquille, Oregon and present the restoration alternative at each the 30%, 60% and 90% design levels to the primary partners of the project to describe the alternative, answer questions and receive input.				
Other: Please line item and justify additional expenses for the completion of the design and engineering of the Project				
Total:				

Schedule 2

Bidder's References for Similar Projects Completed

Please list references, including name, address, and telephone number of those who have personal knowledge of Bidder's abilities to undertake and complete projects of similar scope and complexity.

Project Name	Reference	Address	Telephone Number

References will be contacted. If possible, provide a brief description of each project.

Schedule 3

List of Proposed Subcontractors and Suppliers

Please list the name and the location of the place of business of each proposed subcontractor or supplier who will perform work or labor or render service or materials to the prime contractor as part of the Work. List only one subcontractor for each such portion as is defined by the prime contractor in this bid. Bidder understands and agrees that, if its Bid is accepted, Bidder shall not: (i) substitute any subcontractor for one that was listed in its Bid; (b) permit any subcontract to be voluntarily assigned or transferred by the original subcontractor or allow it to be performed by anyone other than the original subcontractor listed here; or (c) subcontract any portion of the Work to any subcontractor except as listed here, except as authorized by Coos SWCD in writing.

Portion of Work	Name of Subcontractor	Address of Subcontractor

Check this box if no subcontractors will be used.

Material Supplied	Name of Supplier	Address of Supplier

Exhibit B:

Maps and Site Information

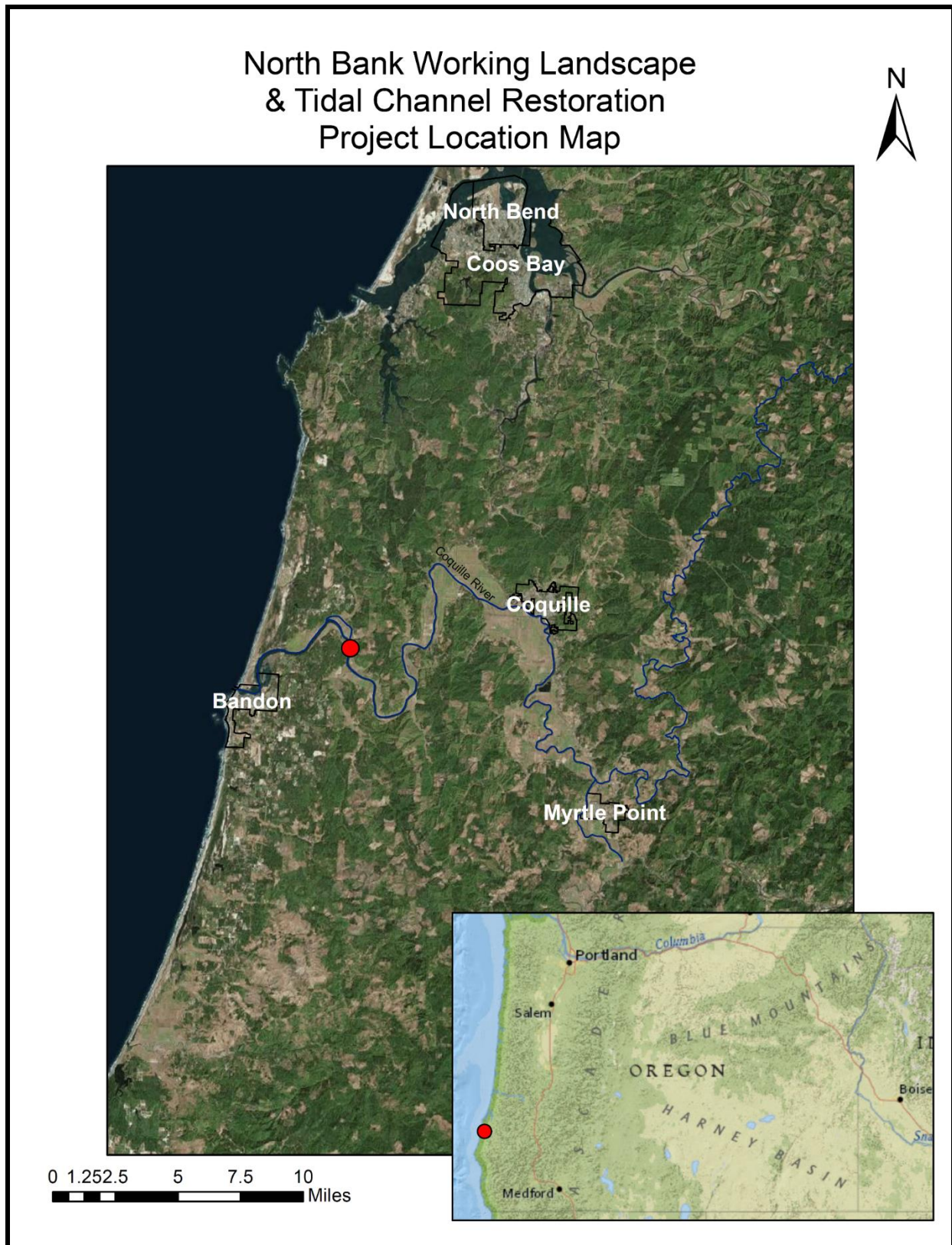


Figure 1. Map of the overall project location.

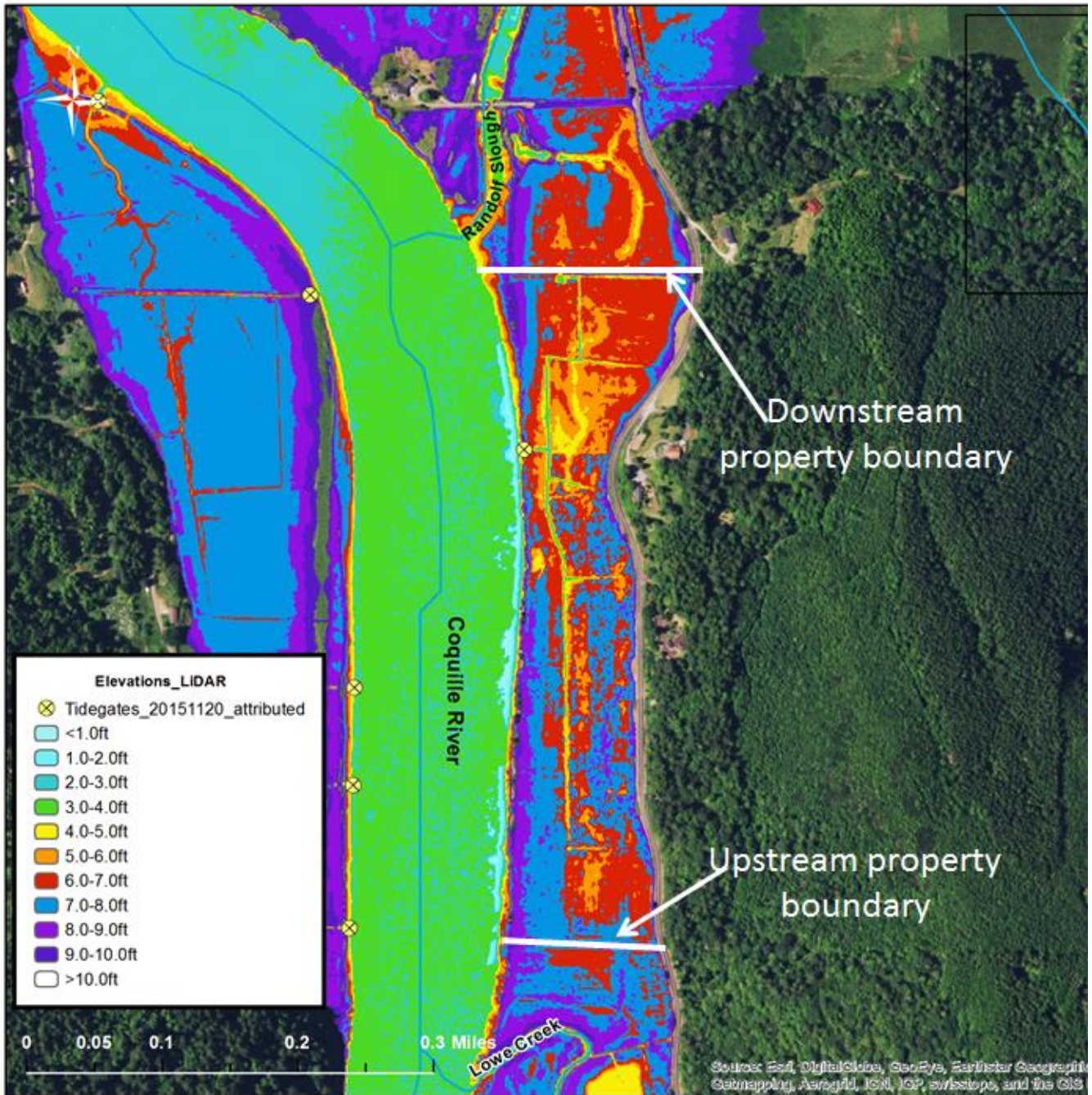


Figure 2. LiDAR image map of project site.

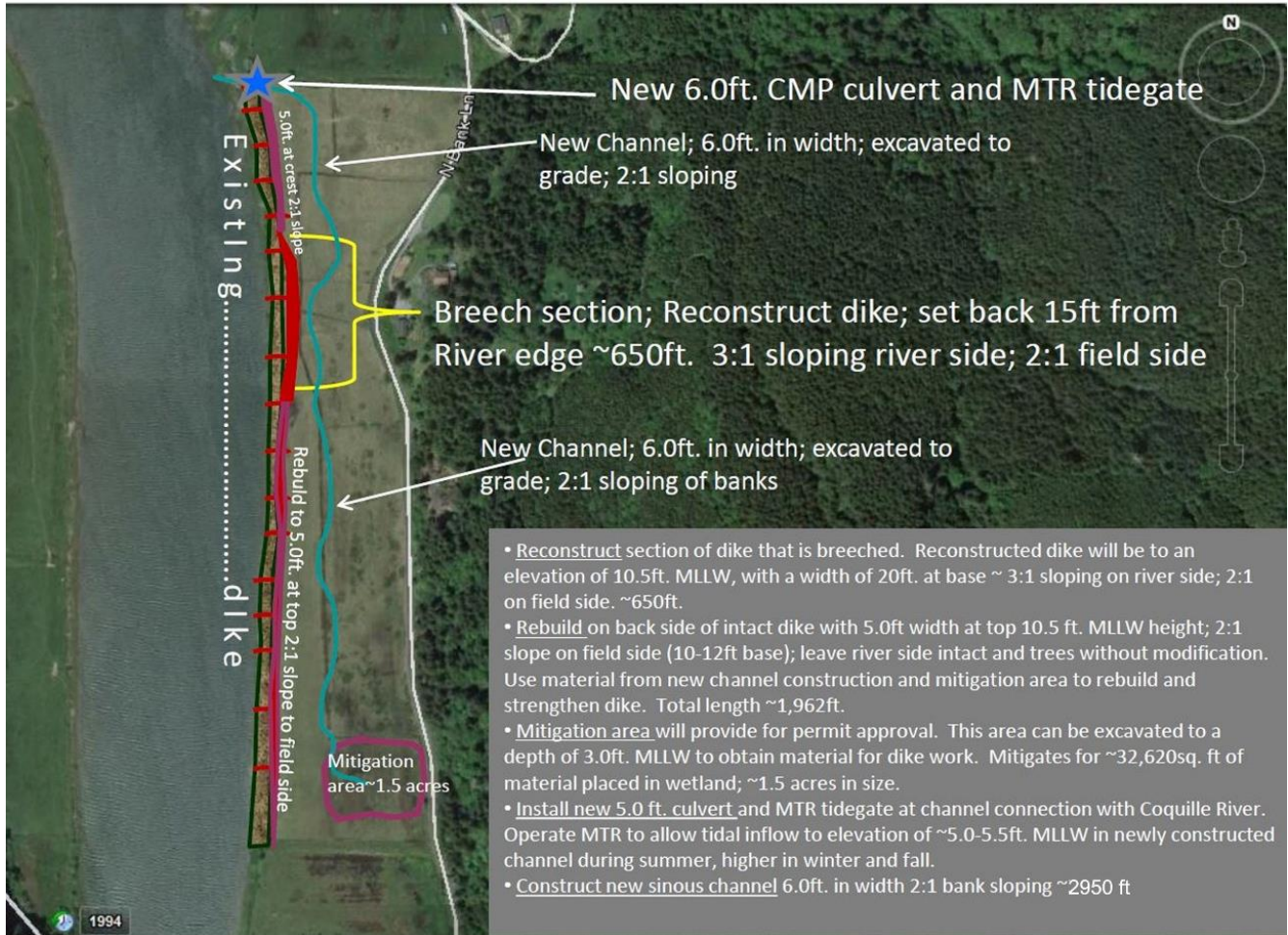


Figure 3. North Bank Lane Tidal Channel Restoration depiction sinuous channel following construction.

Table 1. North Bank Lane Tidal Channel project assessment for existing and new channel construction

	Channels	Width	Depth	Area	Area	Volume	Volume
	length (ft)	avg (ft)	avg (ft)	ft ²	m ²	ft ³	yds ³
Existing Channels							
<i>Linear</i>	4,340	3	1.5	13,020	1,210	19,530	
Total	4,340	3	1.5	13,020	1,210	19,530	
Proposed Channels							
<i>Sinuous Primary</i>	2,948	6	3.5	17,688	1,643	61,908	2,293
<i>Secondary (small)</i>	1,566	3	2.5	4,698	436	11,745	435
Total Proposed	4514	4.5	3	22,386	2,079	73,653	2,728

North Bank Working Landscapes & Tidal Channel Restoration Proposed Channel Modifications

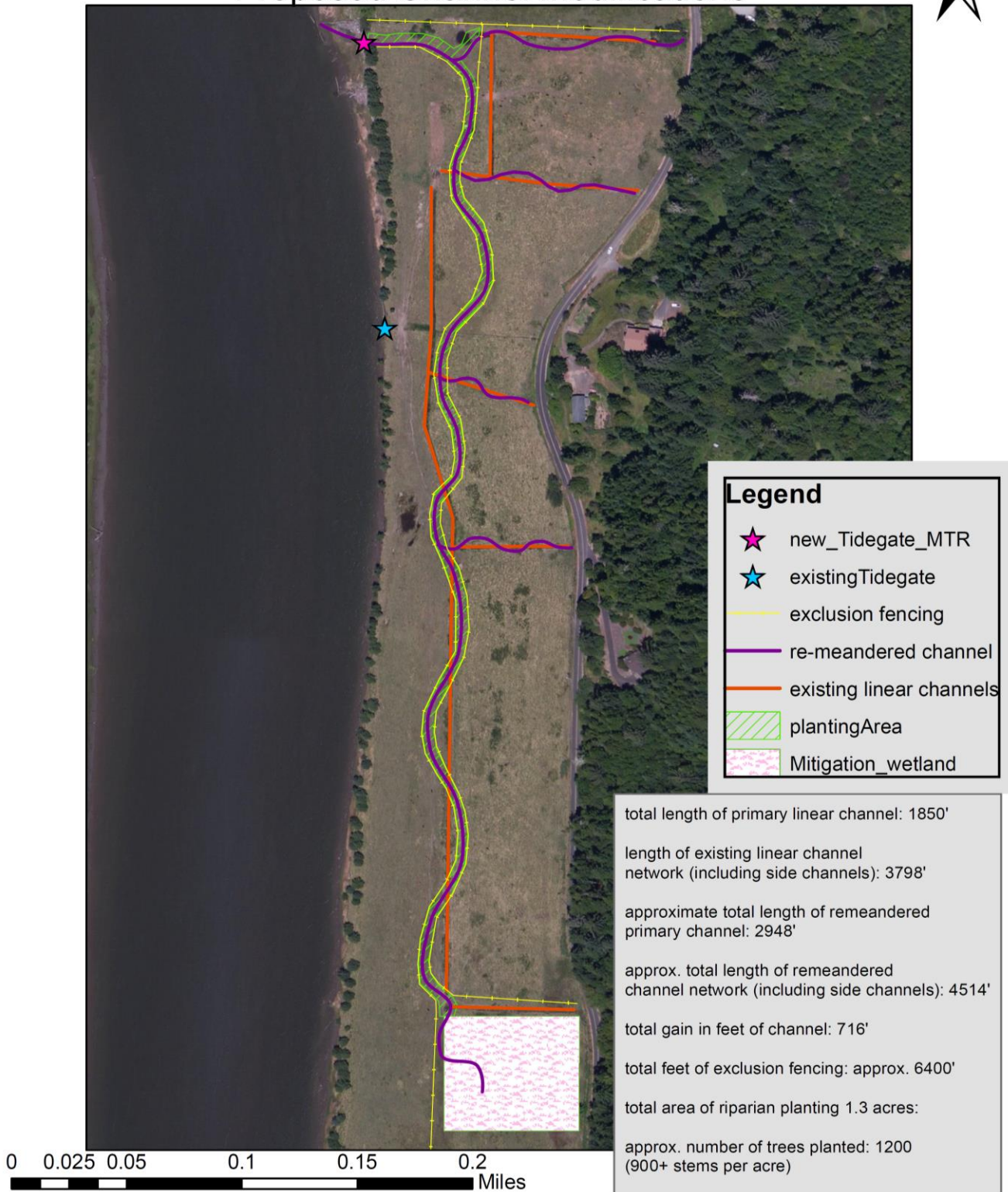


Figure 4. Proposed channel reconstruction

Table 2.DRAFT Project Timeline

Element	Start Date	End Date
Develop & submit Requests For Bids; Solicitation/Tour	7/1/2018	7/30/2018
Review of RFB solicitations/hiring of Engineer/Arch. consultant	9/1/2018	9/30/2018
Engineer review & analysis of existing data, maps	10/2018	1/2019
Initial site visit with Engineer and Tech	10/1/2018	10/15/2018
Coordination with State/tribal/other for NHPA concerns (SHPO)	7/2017	10/2019
Engineer geotechnical investigation and assessment	10/2018	02/1/2019
Develop 30% engineered design, submit to Restoration Review Team (RRT)	10/2018	5/15/2019
RRT site visit & input on 30% design/coordination	5/15/2019	6/15/2019
Develop River Restoration Analysis Tools & submit to RRT	2/1/2019	5/15/2019
Engineer develops hydraulic model for tidal influence & elevation scenarios	1/2019	5/1/2019
Review hydraulic analysis and return to engineer	5/1/2019	6/1/2019
2nd Review: Hydraulic Analysis/Coordination with Landowner	6/1/2019	6/30/2019
Landowner coordination; project design review/approval	6/1/2019	6/30/2019
landowner review/approval of Draft Water Management Plan	6/1/2019	6/30/2019
Submit Landowner approved design/ water management scenarios to engineer	6/1/2019	6/30/2019
Finalize approved design and water management scenarios	7/1/2019	7/10/2019
Produce DRAFT Water Management Plan based on approved design	7/10/2019	7/15/2019
Submit draft Water Management Plan to NMFS/ODFW/RRT	7/10/2019	7/16/2019
NMFS/ODFW Review and approval of Draft Water Management Plan	7/20/2019	8/20/2019
Finalize Water Management Plan based on above reviews	8/20/2019	9/1/2019
Develop and Submit Fish Passage Plan to ODFW	8/2019	9/2019
Produce & Submit 60% Design to RRT for review	7/2019	8/1/2019
RRT input on 60% design	8/1/2019	9/10/2019
Produce Adaptive Management &	9/15/2019	9/15/2019

Monitoring Plan		
Finalize 60% design based on RRT reviews	9/2019	9/30/2019
Develop & submit DSL/USACE/NMFS/County Planning permits	9/30/2019	10/20/2019
Receive DSL/USACE/ODFW/NMFS permits	10/20/2019	3/1/2020
*RESTORATION IMPLEMENTATION PROJECT PHASE		
Apply to OWEB & other granting entities for restoration funds	4/2020	5/2020
Temp monitoring; minimum of 4 Onset temperature loggers	5/2019	10/2022
Receive notification of Restoration funding	8/2020	9/2020
Consult/coordinate with tidegate contractor	10/2020	3/2021
Develop & submit Request For Bids; Solicitation/Tour	10/2020	3/2021
Attend pre-bid meeting, respond to contractor questions/comments	3/1/2021	3/10/2021
Receive bids for channel excavation & fencing	3/15/2020	3/31/2020
Hire contractor; develop workplan; coordination with partners	4/1/2020	4/30/2021
Pre-stage materials (rock, culverts, tidegate)	5/1/2021	5/30/2021
Project construction oversight and technical assurance	7/2021	10/2021
Implement removal of tidegates and installation of new culvert	7/2021	9/2021
Install new tidegate on culvert and testing of function	7/2021	9/2021

*Restoration Implementation Phase will be part of a separate bid/contract and is not part of this RFB. Information is included here for reference only.

ATTACHMENT 1:

**North Bank Working Landscapes Preservation
&
Tidal Channel Restoration**

Pre-Project Site Photos



5. Breached section of dike on project area that has failed; photographed during winter high tide/ storm surge



6. Section of existing diked river bank; note approx. 25 year old spruce trees toppling over due to being planted originally too close to the river and on top of the dike.



7. Failing section of dike photographed during summer months, 2014



8. Intact section of dike with spruce



9. Typical pasture plant community with a segment of dike in background



10. Low-elevation area of pasture directly in front of dike breach; drainage is limited due to poorly connected tidal channel network



11. Pasture view looking north along river edge of property



12. Undercut banks where spruce are toppling due to being planted too close to river historically.



13. Typical eroded section of river bank



14. *Evidence of past efforts to protect and reinforce the dike; pilings originally placed at toe of dike. River has eroded toe of dike due to poor placement.*



15. Southerly end of the dike is largely still intact; however, as forces of erosion continue to undercut the banks, more trees will likely fall, each pulling sections of earth out along with root mass and potentially creating additional breaches in the dike.

ATTACHMENT 2:

**Emergency Dike Repair Conducted by Landowners
Oct 16-19th, 2017**



Dirt spoils from old ditch dredging is harvested. This dirt is loose and crumbly.



Sod in area of new dike base is removed so new clay from riverbank can make a tight seal.



Clay soil from river bank is peeled back creating base and river face of new dike berm. Sandbags will be buried beneath dike.



Gentle slope of new riverbank is faced with packed clay. Archaeologist is monitoring the depth of the cut and the southern extent of the repair. She is looking for any evidence of prehistoric human artifacts and protecting known fishing weir stakes in the river.



Ditch spoils and sod from beneath new berm are used on the uppermost part and field-side face of new dike berm.



Last scoop of dirt from excavator seals the new and old dike.



The river and field sides are seeded with mixture of grasses and then mulched with hay. After three days of working in the sunshine, it began raining that evening.



View of repaired dike
from the hill.