AGREEMENT FOR CONSULTING ENGINEERING SERVICES
(Yamhill County and David Evans & Associates, Inc.)

THIS AGREEMENT ("Agreement") is made effective the last date set forth adjacent to the signatures of the parties below between **Yamhill County**, a political subdivision of the State of Oregon, acting through its Department of Public Works (referred to as County in this Agreement) and **David Evans and Associates, Inc**, doing business as an Oregon Corporation (referred to as Contractor in this Agreement) for the consulting engineering services for which proposals responsive to County'sRFP were opened **Thursday, March 31, 2022** (referred to in this Agreement as the "Project").

STATEMENT OF PURPOSE AND IDENTIFICATION OF CONTRACT DOCUMENTS

A. County has budgeted funds to perform the Project. County conducted a competitive selection process to select the best qualified proposer to complete the Project. Contractor was the deemed the best qualified proposer. This Agreement is made to specify the mutual obligations of County and Contractor for completion of the Project.

B. This Agreement includes by reference the following Contract Documents that are part of the Project:

(A) Request for Proposals
(B) Addenda (if any)
(C) Responsive Proposal
(D) This Agreement
(E) Agreement Amendments (if any)
(F) Insurance Certificates
(G) Notice to Proceed
(H) Change Orders (if any)
(I) Project Acceptance
(J) Exhibit A – Scope of work

AGREEMENT: In consideration of the mutual covenants contained below, County and Contractor hereby agree as follows:

1. **Scope of work**. The Contractor will commence and complete the Project in accordance with the Contract Documents identified above consistent with the degree of care and skill ordinarily exercised by members of Contractor's profession currently practicing under similar circumstances and in the same locality. The Contractor acknowledges receiptof all Contract Documents in existence at the date it executed this Agreement.

B.O. 22-168

2. **Agreement performed at Contractor's expense as Independent Contractor.** The Contractor will furnish all of the materials, supplies, tools, equipment, labor, and other services necessary for the construction and completion of the Project as described in the Contract Documents. The Contractor is an Independent Contractor under this Agreement.

3. **Commencement and completion date.** The Contractor will commence the work required by the Contract Documents within 7 calendar days after the County's approval of this Agreement and will complete the same no later than **Friday October 27, 2023,** unless the Contract Period is extended or otherwise modified by written notice or executed Change Order.

4. **Termination.** County may terminate this Agreement if the Contractor fails to comply with a material term of this Agreement. If this Agreement is terminated, the County will pay for all work accepted by the Project Supervisor prior to termination.

5. **Compensation.** The Contractor agrees to perform all of the Work described in the Contract Documents and comply with the terms therein at the hourly rates set forth in Contractor's responsive proposal; provided, however, that the maximum amount due Contractor for completion of the scope of work is **$539,663.21** unless the Contract Price is modified by executed Change Order. Payment shall be made by County either in a single payment following final acceptance of the project by the Yamhill County Surveyor, or at Contractor's option, in monthlyprogress payments for work accepted by the Project Supervisor.

6. **Incorporation of statutory provisions required for public contracts.** The Contractor certifies it shall comply with all applicable Public Contract Laws to including, but not limited to, ORS 279B.200 through 279B.240 and ORS 279C.500 through 279C.530. ORS 279B.200 through 279B.240 and ORS 279C.500 through 279C.530 are incorporated into this Agreement by reference.

7. **Workers' compensation.** The Contractor, its subcontractors, if any, and all employers working under this Agreement or contract are subject employers under the Oregon Workers' Compensation Law and shall comply with ORS 656.017, which requires them to provide workers' compensation coverage for all their subject workers.

8. **Certification of compliance with tax laws.** The Contractor certifies, under penalty of perjury, that the Contractor's Company is not in violation of any Oregon tax laws and that Contractor has complied with the tax laws of the state of Oregon or a political subdivision of the state of Oregon, including ORS 305.620, 305.380(4) and ORS Chapters 316, 317 and 318.

9. **Certification of reading and understanding of documents.** The Contractor certifies it has read and fully understands all Contract Documents including Solicitation Documents and terms and conditions. The Contractor understands and acknowledges that in signing this Agreement the Contractor waives all rights to plead any misunderstandings regarding the same.

10. **Status of the Project Supervisor.** Greg Haffner, Engineering Manager, is the Project Supervisor (the "Supervisor"). The Supervisor or their designee shall perform technical inspections of work and shall have authority to stop the work whenever such stoppage shall be necessary to insure proper execution of the contract. The Supervisor or his designee may reject all work and materials that do not conform to the standard of care and shall decide questions that arise in the execution of the work. The Supervisor has authority to reject or accept the work, subject to the standard of care.

11. **Prohibition of Discrimination.** In hiring employees for performance of work under this contract, no contractor, subcontractor or any person acting on their behalf shall by reason of race, religion, age, color, creed, physical handicap, sex or sexual orientation discriminate against a person who is qualified and available to perform work to which employment relates.

12. **Risk of Loss.** The risk of loss or damage to the subject matter of this contract arising from any cause whatsoever, including acts of God, shall be upon the Contractor until such time as the County has accepted the work as provided in this Agreement.

13. **Indemnification.**

13.1 **Claims for other than Professional Liability.** The Contractor shall indemnify and hold harmless Countyfrom and against any suits, actions, legal or administrative proceedings, demands, claims, liabilities, fines, penalties, losses, injuries, damages, expenses or costs, including reasonable attorney fees, in any way connected with any injury to any person or damage to any propertyto the extent caused by Contractor's or Contractor's subcontractors' prosecution of work under this agreement.

13.2 **Claims for Professional Liability.** The Contractor shall indemnify and hold harmless Countyfrom and against any suits, actions, legal or administrative proceedings, demands, claims, liabilities, fines, penalties, losses, injuries, damages, expenses or costs, including reasonable attorney fees, in any way connected with any injury to any person or damage to any propertyto the extent caused by Contractor's or Contractor's subcontractors' negligent acts, errors or omissions in prosecution of work under this agreement.

14. **Nonwaiver.** No waiver of any breach of this Agreement shall be held to be a waiver of any other or subsequent breach. All remedies afforded in this Agreement shall be taken and construed as cumulative, that is, in addition to every other remedy provided therein or by law. The failure of County or Contractor to enforce at any time any of the terms of this Agreement, or to exercise any option which is provided, or to require at any time performance by Contractor or County of any of the provisions, shall in no way be construed to be a waiver of such provisions, nor in any way to affect the validity of any part of this Agreement, or the right of County or Contractor to thereafter enforce eachand every provision.

15. **Contractor's Representation.** Contractor, by entering into this Agreement, represents that its proposal for this project is made without connection with any person, firm or corporation making or refraining from making a proposal for the same or similar project and was in all respects fair and without collusion or fraud.

16. **Severability.** Should any clause or section of this Agreement be declared by court to be

void or voidable, the remainder of this Agreement shall remain in full force and effect.

17. **Dispute resolution through mediation and arbitration.** Any dispute between the parties to this Agreement shall be resolved according to the following process:

(a) The parties first shall submit to mediation of the dispute to be conducted by a mutually acceptable mediator. If the parties cannot agree on a mediator, they shall request a mediator to be appointed by the U.S. Mediation and Arbitration service or a similar mediation and arbitration service located in Portland, Oregon. The mediator's charges and expenses shall be borne exclusively by the party requiring the service or for which payment is to be made.

(b) If the dispute is not resolved in mediation, the parties shall then submit the dispute to binding arbitration. Arbitration shall be conducted by and in accordance with the Construction Industry rules of the American Arbitration Association. The decision of the arbitrator shall be final and binding on the parties. The party that does not substantially prevail, as determined by the arbitrator, shall pay the arbitrator's fees and expenses in arbitration. All other expenses, including attorney fees and costs, shall be borne exclusively by the party requiring the service or for which payment is to be made.

18. **Attorney fees and costs.** In the event that either party to this Agreement shall take any action, judicial or otherwise, to enforce or interpret any of the terms of this contract, each party shall be wholly responsible for its own expenses which it may incur in taking such action, including costs and attorney fees, whether incurred in a suit or action or appeal from a judgment or decree therein or in connection with any nonjudicial action.

19. **Applicable laws.** This Agreement is executed in the State of Oregon and is subject to Oregon law and jurisdiction in Yamhill County.

20. **Subcontractors.** The Contractor may not engage any subcontractor(s) to perform work under this Agreement without the express written consent of the County. If the County does grant consent, the Contractor covenants and agrees to bind any and all Subcontractor(s) for performance of work under this Agreement. Any reference to Contractor shall include any and all Subcontractor(s) ad infinitum.

21. **Written changes required.** The rights and duties under this Contract shall not be modified, delegated, transferred, or assigned, except upon written signed consent of both parties.

22. **Successors bound.** This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

23. Insurance requirements. At a minimum, the resulting agreement with the Consultant will require the following insurance in connection with the Project:

INSURANCE DESCRIPTION	MINIMUM REQUIRED COVERAGE
1. Workers Compensation	Statutory
2. General Liability	$1,000,000 per occurrence/$3,000,000
3. Professional Liability/E&O	$1,000,000 per claim/aggregate
4. Automobile Liability/Property Damage	$1,000,000 Combined Limit

23.1.1 Evidence: Changes. Evidence of such insurance shall be furnished to the County before commencing with work at the Project site. The County shall receive thirty (30) days prior written notice of any material change or reduction that does not meet the requirements of this Agreement. The Consultant shall procure substitute insurance (to the extent reasonably available) so as to assure the County that the minimum limits of coverage are maintained continuously throughout the period of the resulting agreement.

23.1.2 County as Named-Insured. The general liability/property damage and automobile/property damage insurance policy required shall name the County, and its officers, agents and employees as additional insured for the insurance and shall contain a waiver of subrogation against the County.

THIS AGREEMENT AND THE CONTRACT DOCUMENTS CONSTITUTE THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE IN TERMS OF THIS CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE, IF MADE, SHALL BE EFFECTIVE ONLY FOR THE SPECIFIC INSTANCE AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS OR REPRESENTATIONS, ORAL OR WRITTEN NOTICE SPECIFIED HEREIN REGARDING THIS CONTRACT. THE CONTRACTOR, BY SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT HE/SHE HAS READ THIS CONTRACT, UNDERSTANDS IT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed on the date indicated by their duly authorized officials, this Agreement in duplicate, each of which shall be deemed an original on the date executed by all parties.

[Name of contractor]

By: Amanda Marie Blankenship 2022.05.24 08:36:36-07'00'
(Signature)

Date: 5/19/2022

Amanda Blankenship
(Printed name)

Title: Senior Associate

Fed. Tax I.D. No: 93-0661195

Contractor
Registration No: na

By: Yin-Lwin Hwee Digitally signed by Yin-Lwin Hwee DN: C=US, E=yh@dea.inc.com, O=David Evans and Associates Inc., OU=Transportation Business Unit, CN=Yin-Lwin Hwee Date: 2022.05.24 11:51:04-07'00'

Lwin Hwee
(Printed name)

Title: Vice President

YAMHILL COUNTY, OREGON

Lindsay Berschauer, Chair

Date: 6-2-2022

KEN HUEFER
County Administrator

Date: 6/2/2022

APPROVED AS TO FORM

By:
CHRISTIAN BOENISCH,
Yamhill County Legal Counsel

Accepted by Yamhill County Board of Commissioners on 6-2-2022 by Board Order # 22-168

Exhibit A

STATEMENT of WORK

for

Engineering & Construction Services for Bridge Replacement Gopher Valley Road

	County's Project Manager ("CPM")		Consultant's Project Manager ("PM")
Name:	Greg Haffner	Name:	Amanda Blankenship
Address:	Yamhill County Public Works 2060 NE Lafeyette Ave McMinnville, OR 97128	Address:	David Evans and Associates, Inc. 5121 Skyline Village Loop S, Suite 200 Salem OR, 97306
Phone:	503-434-7515	Phone:	503-480-1322
Email:	Haffnerg@co.yamhill.or.us	Email:	amst@deainc.com

A. PROJECT DESCRIPTION and OVERVIEW of SERVICES

Yamhill County ("County") is contracting with David Evans and Associates, Inc. ("Consultant") for Services in connection with the following project (the "Project").

Background

The existing bridge has one span with an apparent concrete spread footing, steel girders, and steel orthotropic deck. The current sufficiency rating is 49.0. The paint system has failed and there is section loss in the steel girders and steel deck. The Bent 2 concrete footing has undermining due to scour. The existing bridge is narrow at 20-feet wide, while the gravel approach roadways are wider and accommodate two lanes. To address these issues and provide a wider bridge that better accommodates two lanes of traffic, the County has elected to replace the existing bridge with a new structure.

Project Description

The selected consulting firm will provide design, assist with permitting, develop full engineering plans, contract specifications and construction schedule for the Gopher Valley Road Bridge, in Yamhill County, Oregon. Improvements will include the removal and replacement of the existing bridge and associated roadway design.

Project scope includes preliminary and final design services for the replacement of the existing 1962 single span, 20' wide by 32' long steel girder and steel deck pan bridge. County would like to replace the existing bridge with a wider bridge, 28-30' wide from curb to curb. Deer Creek has been identified with ESA fish (Coho) so care to avoid unnecessary environmental triggers are essential. Scope shall include review of owner provided topographic survey and determination of any additional survey required for design. Survey work scope to include any legal descriptions for temporary construction easements if needed. Design team will be responsible for completion of any environmental permits, including Army Corps, DSL, ODFW, DEQ, and SHPO. The Design team will also be responsible for flood plain analysis, design for bridge low cord clearances 1' above the 50 years storm event, and bridge Scour analysis. Work to also include bidding support and utility coordination. Any Construction Management (CM) work will require an addendum to the contract and does not require ODOT level records as this funding will be 100% county funded.

Closure of the existing bridge would require a long detour so full closure of the bridge is unacceptable. The phasing concept should include a single lane to remain open at all times in order to pass a log truck during construction of the new bridge. It is possible that the county would entertain the idea of accelerated construction providing the duration is acceptable (+/- 4

days). Record drawings have not been located.

Project Limits
The project limits are defined as 25-feet wider than the existing road Right-of-Way, extending 350-feet to the north and south of the bridge.

County Responsibilities
County will:

- Provide existing relevant Project data
- Provide internal County communication and Project coordination
- Obtain County Planner signature for Joint Permit Application
- Review, sign and submit Project permits to permitting agencies
- Acquire County Floodplain Permit (if required)
- Participate in Project meetings and work sessions
- Provide the project topographic survey and basemap and DTM
- Review Consultant's progress reports and process invoices
- Review, comment and provide concurrence Design Criteria discussion
- Review, comment and provide concurrence on the 30%, 60%, Unsigned PS&E and Signed Final PS&E submittals
- Provide review comments to Consultant within ten (10) business days of receipt of review documents
- Consolidate all review comments from County staff and provide one (1) set of review comments per deliverable to the Consultant
- Address conflicting review comments made by County staff prior to providing comments to Consultant
- Provide access to private property
- Provide R/W conveyance documents (if required)
- Provide road closure notification for geotechnical subsurface investigation
- Provide edits to the 'Section 100's' Special Provisions for bid documents
- Print and distribute electronic bid documents
- Yamhill County to advertise the Project for bids
- Yamhill County to Distribute bid documents to bidders and maintain plan holders list
- Evaluate bids, audits, and awards

Summary of Tasks Provided by Consultant
Consultant shall provide the following Services for this Project:

- Project management of Consultant's services
- Obtain and review existing relevant Project data provided by County
- Schedule, facilitate and attend Project meetings
- Provide Environmental Compliance documentation and completion of:
  - Wetland/Waters Delineation and Technical Memorandum
  - Wetland Delineation Report (if required)
  - Stormwater Management Plan
  - Joint USACE/DSL/DEQ permit applications
  - Fish Passage Plan

- Coordinate and negotiate with state and federal agencies for environmental compliance and clearances, including Section 7 informal or formal consultation under the Endangered Species Act
- Pay DSL and DEQ permit review fees if applicable, and request reimbursement from County
- Complete an archaeological pedestrian survey, baseline report, and recommend whether additional clearance work is warranted
- Complete Cultural Resources Report
- Complete utility identification, contact and coordination
- Complete R/W acquisition (if required)
- Complete geotechnical field explorations and material analysis
- Provide geotechnical bridge foundation information
- Perform surface hydraulic assessment and stormwater quality design
- Develop erosion control plans
- Develop traffic control staging
- Develop roadway approach design and drawings
- Develop bridge design and provide bridge drawings
- Prepare technical special provisions using 2021 Oregon Standard Specifications for Construction
- Perform value engineering review and constructability review
- Resolve County review comments, maintain comment log and provide written comment resolution
- Prepare engineer's construction cost estimate and schedule
- Provide assistance during bidding
- Prepare up to one (1) bid addendum

B. STANDARDS and GENERAL REQUIREMENTS

The following shall apply to this WOC:

1. Software Requirements

Consultant shall perform services using AutoCAD Civil 3D 2019 design software, and provide deliverables in a form suitable to these programs. Special provisions must be submitted in Microsoft Office compatible format.

2. Design Criteria and Project Assumptions/Conditions

County will designate the basic premises and criteria for the design of County roads. All specifications for the Project must be in compliance with the 2021 Oregon Standard Specifications for Construction and modified by the special provisions, as necessary.

Procedures for development of construction plans and specifications must be consistent with the provisions of the current editions of the various manuals pertaining to design, which are published or endorsed by the County. Consultant shall make such minor changes, modifications, or revisions in the details of the work as may be requested by the County consistent with the progression of the development of the work as defined in the detailed Project schedule submitted by Consultant. When alternatives are considered, County will jointly have the right of selections.

The County reserves the right to initiate conferences within this scope of services with Consultant to review the work in progress.

The County will assign a Project Leader to provide coordination with Consultant and to monitor the work in progress. Consultant work will be reviewed and concurrence provided by the County for conformance with County office practices, standards, and related report formats during the preliminary engineering and design phases of the Project.
Consultant shall perform all work in compliance with the design standards, guidelines, requirements, and methodologies as set forth above and the editions of the design documents listed in this section that are current at the initiation of this WOC. The list is not intended to be exhaustive.

General and Administrative

- Oregon Standard Specifications for Highway Construction, ODOT current version
- Oregon Standard Drawings

Environmental

- Environmental Guide Book, U.S. Department of Transportation, Federal Highway Administration, current version
- Wetland Delineation Manual, USACE/EPA current version
- Oregon Fish Passage Law
- SLOPES (Version V) Programmatic Biological Opinion

Hydraulic

- Hydraulics Manual, ODOT current version
- Local drainage master plan

Roadway

- AASHTO A Policy on Geometric Design of Streets and Highways, current version
- Highway Design Manual, ODOT current version, English
- Contract Plans Development Guide, ODOT
- AASHTO Roadside Design Guide

Structures

- AASHTO LRFD Bridge Design Specifications, current version
- ODOT Bridge Design Manual, current version
- ODOT Geotechnical Design Manual, current version

Traffic

- MUTCD Manual on Traffic Control Devices
- Traffic Line Manual

The following items are excluded from Consultant's SOW:

- Work to address Section 4(f) or 6(f) issues is not required.
- Programmatic Section 4(f) Evaluations are not required.
- Project is eligible for SLOPES programmatic BO. An individual Biological Assessment is not required.
- Noise and air analysis and assessments are not required.
- Level 1 HAZMAT Environmental Site Assessment and Report and hazardous material sampling and testing
- County Conditional Use Permit is not required.
- Permanent Signal designs are not required.

- Roadside and curbside landscaping, besides that required for restoration work, is not required.
- A Roadside inventory form is not required.
- A highway access form is not required.

C. REVIEW, COMMENT and SCHEDULE OVERVIEW

- Consultant shall coordinate with County staff as necessary and shall revise draft deliverables to incorporate County draft review comments.
- Consultant shall incorporate comments within ten (10) business days from receipt by County and return the Final to County staff, unless a different timeframe is specified for specific tasks or otherwise agreed to in writing by County.

D. FORMAT REQUIREMENTS

- Consultant shall submit draft deliverables in electronic format via email (and hard copy if requested).
- Consultant shall also submit all graphic files accompanying reports separately in .jpg or .tif formats unless specified differently by County.
- Each draft and final text-based or spreadsheet-based deliverable shall be provided in MS Office file formats (i.e., MS Word, Excel, etc.) and must be fully compatible with version used by County.
- Additional format requirements may be listed with specific tasks/deliverables in the SOW.

E. TASKS, DELIVERABLES and SCHEDULE

Unless the WOC is terminated or suspended, Consultant shall complete all tasks and provide all deliverables (collectively, the "Services") included in this WOC and in accordance with the performance requirements and delivery schedules included in this WOC. For purposes of standardization, the task numbering in this SOW may be non-sequential. The delivery schedule is consolidated in a table at the end of Section E.

TASK 1 PROJECT MANAGEMENT DURING DESIGN

For the purposes of defining the scope of this project management and administration task, the duration of work prior to construction is assumed to be nine (9) months, from May 2022 through January 2023.

Task 1.1 Project Management
Consultant shall provide Project management throughout the duration of the Project. This includes the work necessary to guide and direct Consultant's overall processes and Consultant's Project team. Consultant shall manage the Consultant's production efforts including administering the contract, monitoring progress, and directing Consultant's quality control activities.

Production Management
Consultant shall provide leadership, direction, and control of the Consultant's production efforts. Consultant shall:

- Program, coordinate, and supervise Consultant's Project work.
- Direct Consultant's Project Team with regard to overall Project activities and team meetings.
- Maintain liaison and coordination between Consultant and County staff.

Contract Administration
Consultant shall provide day-to-day administration of Consultant's Project contract. Consultant shall:

- Develop and manage sub-consultant contracts.
- Monitor Consultant's Project budgets and costs.

- Prepare invoices and backup data.

It is assumed that 9 invoices will be prepared.

Progress Monitoring
Consultant shall provide scheduling, monitoring, controlling, and reporting progress on Consultant's Project activities. Consultant shall:

- Prepare, maintain and update Project activity schedule at design milestone submittals.
- Prepare and submit monthly progress reports.

Quality Management
Consultant shall provide a formalized mechanism for internal review of Consultant's work activities and products before delivery of final products. Consultant shall:

- Develop and maintain a quality management plan, designating responsibility for review of Consultant's technical work and deliverable products.
- Respond to the County review comments in writing.

Task 1.1 Consultant Deliverables

- Monthly invoice and back up data
- Project activity schedule
- Monthly progress report

TASK 2 PUBLIC INVOLVEMENT
County will perform Public Involvement. It is assumed that Consultant shall spend up to 18 hours for public involvement related tasks such as consultation and exhibit development. It is assumed that the Consultant will not attend any meetings.

Task 2 Consultant Deliverables

- Up to 3 exhibits to support County Public Involvement activities

TASK 3 PROJECT MEETINGS

Task 3.1 Project Meetings
Every-Other Week Coordination Meetings – During the design phase, the consultant shall schedule, prepare for, attend and facilitate every-other week Coordination Meetings to be held over Zoom. It is assumed 18 meetings will be held. The Consultant Project Manager will attend each meeting and on three different occasions, another project staff may attend a meeting.

Design Criteria Meeting and Site Visit - Consultant shall schedule, prepare for, attend and facilitate a 1 hour Design Criteria Meeting to be held in the County office and on the same day, a project site visit. The Consultant Project Manager, Lead Civil Engineer, Bridge Engineer, Environmental Permit Specialist, Civil Designer / Construction Inspector, Geotechnical Engineer, Hydraulic Engineer, and Construction Project Manager will attend the meeting and site visit.

30% TS&L Review Meeting - Consultant shall schedule, prepare for, attend and facilitate a 1 hour 30% TS&L Review Meeting to be held over Zoom. The Consultant Project Manager, Lead Civil Engineer, Bridge Engineer, Environmental Permit Specialist, Civil Designer / Construction Inspector, Geotechnical Engineer, Hydraulic Engineer, and Construction Project Manager will attend the meeting.

60% Review Meeting - Consultant shall schedule, prepare for, attend and facilitate a 1 hour 60% Review Meeting to be held over Zoom. The Consultant Project Manager and up to 4 additional staff will attend the meeting.

Unsigned PS&E Review Meeting - Consultant shall schedule, prepare for, attend and facilitate a 1 hour Unsigned PSE Meeting to be held over Zoom. The Consultant Project Manager and up to 4 additional staff will attend meeting.

Task 3.1 Consultant Deliverables

- Meeting agendas and minutes as requested

TASK 4 ENVIRONMENTAL COMPLIANCE/PERMITTING

Consultant shall complete the appropriate environmental compliance documentation based on 60% plans. Consultant shall coordinate with County and regulatory staff as needed to facilitate permitting needs and environmental compliance certification. This Project falls under the Class II Categorical Exclusion. The specific components of this task are described below.

Task 4.1 Wetland/Waters Technical Memorandum

Consultant's wetland biologist shall review the County provided Ordinary High Water (OHW) mapping and shall also review the Project area to confirm potential jurisdictional wetland areas and waters as defined by the 1987 U.S. Army Corps of Engineers ("USACE") Wetlands Delineation Manual (the "Manual") and the 2010 Regional Supplement to that document ("Supplement"). Published information including county soil surveys, national and local wetlands inventories, and any available site-specific documents must be reviewed for relevant information. Consultant shall perform a site investigation to check for field indicators of wetland vegetation, soils, hydrology, and regulatory criteria for roadside ditches. Consultant shall collect sample plot data to document any wetland boundaries and shall prepare formal data forms under Task 4.2, if authorized. Consultant shall delineate and flag any changes to the OHWM of Waters of the State and U.S., and shall delineate and flag any Waters of the State and U.S. including ditches, streams and wetlands found within the study areas as part of this task. Consultant shall recover the locations of flags under Task 5.4 and display the OHWM and wetlands on the Project plans.

If wetland impacts will be avoided, Consultant shall summarize site conditions and the wetland and OHWM delineation field work performed in a draft and final Wetlands/Waters Technical Memorandum. Consultant shall submit draft to County for review. Consultant shall address the County comments in the final submittal to the County. The memorandum must state whether wetlands are present or not present within the study area and describe all jurisdictional waters identified. Using an aerial photograph, Consultant shall produce a sketch map to show the approximate location and extent of designated waters of the State and U.S and wetlands for inclusion in the memorandum. If wetland impacts cannot be avoided, a Wetland Delineation Report (Contingency Task) will be prepared in lieu of a technical memorandum. The water and wetland boundaries will be used to plan avoidance and minimization impacts to jurisdictional features and calculate areas of impacts, if any.

Task 4.1 Consultant Deliverables, if wetland impacts will be avoided:

- Draft Wetland/Waters Technical Memo
- Final Wetland/Waters Technical Memo

Task C4.2 Wetland Delineation Report (CONTINGENCY)

This task identifies specific deliverables that County, at its discretion, may elect to authorize Consultant to produce. Consultant shall only complete this task and the identified deliverables pursuant to written (email acceptable) NTP issued to Consultant by CPM. A separate NTP is required to authorize this task. If jurisdictional wetlands within the Project area will be impacted, Consultant shall prepare a draft and final Wetland Delineation Report in accordance with Oregon Administrative Rules Chapter 141 Division 090, and shall submit it to DSL for review and concurrence. Consultant shall provide the draft Wetland Delineation Report to the County for review prior to submittal to DSL. Consultant shall resolve DSL and County comments and incorporate necessary revisions into the final report. A site visit with DSL is not anticipated and is excluded from this task. This task will only be implemented if wetlands are located in the study area and will be impacted. Consultant shall pay wetland delineation report fee to DSL and seek reimbursement from County.

Task C4.2 Consultant Deliverables:

- Draft Wetland Delineation Report
- Final Wetland Delineation Report

Task C4.3 Stream Functional Assessment Method (CONTINGENCY)

Consultant shall complete a Stream Functional Assessment if impacts to non-wetland waters are unavoidable, and if the project does not qualify for an exemption to the Stream Functional Assessment. If the impacts are not excepted, the assessment must be function-based in accordance with the current DSL requirements outlined in OAR 141-085-0765(3). Assessment methods must follow the current version of the Stream Function Assessment Method User Manual from the Environmental Protection Agency ("EPA") and DSL. The stream function assessment must include, but is not limited to, field work and mapping required to make the assessment, an assessment of the current hydrologic, geomorphic, biological, and chemical and nutrient functions and values provided by all impacted on-site non-wetland waters. The assessment should be subjective and qualitative, and should include a discussion of the anticipated changes in stream function and value post-construction to determine if a net gain, net loss, or no net change in the assessed functions and values will occur as a result of the Project. Consultant shall document the results of the assessment in the Joint Permit Application prepared under Task 4.6. Field work for this task will be completed under Task 4.1.

Task C4.3 Consultant Deliverables:

- Stream Functional Assessment results included in Task 4.6 deliverables

Task 4.4 Fish Passage Plan

Consultant shall prepare draft and final Fish Passage Plan for Oregon Department of Fish and Wildlife ("ODFW") approval. The Fish Passage Plan must document Project compliance with Oregon's fish passage law (OAR 635-412-0035). Consultant shall prepare the Fish Passage Plan using the ODFW Stream Crossing form for submittal to ODFW. Consultant shall provide hydraulic or streambed simulation information as necessary to demonstrate compliance with the fish passage law. Consultant shall incorporate all features and conditions established in the approved Fish Passage Plan into the Advance and Final PS&E.

Task 4.4 Consultant Deliverables

- Draft Fish Passage Form
- Final Fish Passage Form

Task 4.5 SLOPES Compliance

Consultant shall review the Standard Local Operating Procedures for Endangered Species (SLOPES) Biological Opinion ("BO") to determine Project eligibility. Consultant shall offer to conduct a site visit with the U.S. Army Corps of Engineer and/or National Marine Fisheries Service ("NMFS") prior to completion of the Concept Plans (Task 10). The purpose of the meeting is to discuss salient aspects of the Project and to establish a mutually agreed upon preliminary eligibility determination and identify potential mitigation requirements with NMFS. Consultant's biologist shall coordinate and review proposed design with SLOPES design criteria, including stormwater management and treatment, bridge removal, bridge design, and construction means and methods. Consultant shall prepare and submit the SLOPES Compliance documentation as a component of the Joint Permit Application (Task 4.6).

Consultant shall coordinate with the Project team at preliminary and final design milestones for document compliance with SLOPES BO.

Task 4.5 Consultant Deliverables

- Documentation to be incorporated into JPA (Task 4.6)

Task 4.6 Joint Permit Applications (U.S. Army Corps of Engineers/Department of State Lands)
Consultant shall prepare a draft Joint Permit Application ("JPA") following confirmation of the preferred design configuration by the County. Consultant shall coordinate an on-site meeting with USACE, DSL, and ODFW during the SLOPES site visit with NMFS. During the on-site meeting, Consultant shall facilitate resolution of County and regulatory agency concerns and identify the special conditions, conservation and avoidance measures, compensatory mitigation plans, and permitting requirements that will need to be implemented into the JPA for expedited approval.

Consultant shall prepare the final JPA for a USACE Section 404 Nationwide Permit ("NWP") and a DSL State General Permit ("GP") or General Authorization ("GA") to authorize work within the jurisdictional waters, including wetlands (if required). Consultant shall check that features and impacts are correctly identified for the permit application. Consultant shall prepare all necessary Project narratives, alternatives analysis, drawings, maps, and photographic documentation required for inclusion in the JPA.

Wetland impacts, if any, are expected to be less than 0.2 acre. Compensatory wetland mitigation, if necessary, is anticipated to be provided through the purchase of credits from DSL's In-Lieu Fee Program or by one of the mitigation banks with service areas that incorporate the Project site. Stream Functional Assessment documentation completed under Task 4.3 shall be submitted along with the JPA, if Task 4.3 is activated.

The federal Section 404 permit requires compliance with the federal Endangered Species Act. Federally listed fish in Deer Creek will be addressed using the SLOPES V BO. This scope of work assumes No Effect to federally listed plants or wildlife.

Consultant shall submit the Stormwater Management and Treatment Plan completed under Task 8.2 with the JPA.

Consultant shall submit the draft JPA for the County review and signature prior to submittal to regulatory agencies. Consultant shall respond to questions or comments raised by USACE, DSL, DEQ and other resource agencies during review of the permit application. Consultant shall develop appropriate responses to questions regarding the information submitted to the agencies. Consultant shall correspond and clarify the JPA in the form of telephone calls, letters, and e-mails, as needed, to facilitate the issuance of the USACE, DSL, and DEQ permit for this Project.

County will obtain the County Planning Department affidavit information and signatures as required in the JPA.

Consultant shall pay Removal-Fill application review fee to DSL, and 401 WQC review fee to DEQ, and seek reimbursement from the County.

Task 4.6 Consultant Deliverables

- Draft Joint Permit Application
- Final Joint Permit Application

Task 4.7 Erosion and Sediment Control Plan

Consultant shall develop Project-wide, permit-level draft and final Erosion and Sediment Control Plan ("ESCP"), establishing the requirements to be followed during construction. Consultant shall submit draft to the County for review. Consultant shall address the County comments in the final submittal to the County. Consultant shall develop plans, details and narrative for inclusion as an appendix to the Joint Permit Application (Task 4.6). Consultant shall incorporate all features established in the ESCP into the Advance and Final PS&E.

Task 4.8 Cultural Resource Study

The purpose of this task is to perform a baseline cultural resource study needed for the Project. The study must satisfy Section 106 of the National Historic Preservation Act ORS 358, and in accordance with State Historic Preservation Office ("SHPO") guidelines. Consultant will not need to collect information specific to satisfying Section 6(f) of the LWCF Act. The cultural resources study must be done by Consultant staff meeting the Professional Qualifications Standards of the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation.

The study area will include the existing and proposed right-of-way extending westward from SW Gopher Valley Road to approximately 140 meters (460 ft) west of Deer Creek Bridge, within the Area of Potential Effect ("APE"), which will include temporary staging and parking areas.

Tribal consultation will be conducted by the USACE, or by the County for areas not under USACE jurisdiction.

Historic Resources Survey

Consultant shall conduct a field survey of the Project area to identify resources greater than forty-five (45) years of age that may be historically significant.

Consultant shall inventory historic resources within the project APE and shall provide recommendations for eligibility of historic resources to be listed in the National Register of Historic Places (NRHP). One historic resource is assumed to be in the project APE. The historic resource will be documented on a Section 106 Documentation Form that will include a Determination of Eligibility and a Finding of Effect. The methodology and results of the historic resources survey will be summarized in the Cultural Resources Report, and the Section 106 Documentation Form will be appended to the report for the review and concurrence of USACE and SHPO. The historic resource is assumed to be not eligible for listing in the NRHP.

Literature Review

Consultant shall conduct record searches and literature review for the APE provided by County and a one (1) mile radius, prior to any fieldwork. Consultant shall examine the following databases and documents:

- the SHPO database in Salem, OR;
- appropriate Tribal Historic Preservation Office ("THPO") database if APE is within a recognized reservation boundary;
- General Land Office maps;
- historic topographic maps;
- Sanborn Fire Insurance Maps; and
- other published or non-published records and records archives for known prehistoric and historic archaeological resources within a one (1) mile radius of APE.

Archaeological Pedestrian Surveys
Consultant shall conduct pedestrian field surveys within the APE.

Pedestrian survey methods must be consistent with the following SHPO guidelines: (http://www.oregon.gov/OPRD/HCD/ARCH/docs/draft_field_guidelines.pdf). The maximum spacing of transects must be thirty (30) meters apart; the minimum spacing of transects must be ten (10) meters; depending on terrain features and/or ground visibility. Consultant shall determine transect spacing based on professional judgment to maximize discovery of site locations within the study area. All cultural resources observable on the surface and in exposed subsurface profiles during the inventory must be identified and recorded. It is assumed up to one high probability area or up to one archaeological resource will be identified in the APE during the survey. Shovel testing may be recommended to test the high probability area or to delineate and document the archaeological resource.

Cultural Resources Technical Report
The archaeological and historic resource survey results will be reported in a single combined cultural resources survey report. Consultant shall provide a draft (in WORD format) and final Cultural Resources Technical Report. Consultant shall submit draft to the County for review. Consultant shall address the County comments in the final submittal to the County. The report must include:

- A purpose statement and full Project description including:
  - Location and legal description.
  - General environmental description.
  - Historic context.
  - Proposed construction activities.
  - Defined APE and APE map.
  - Total acreage of impact.
  - Anticipated direct, indirect and cumulative impacts.
- Results of SHPO/THPO data base searches including:
  - Brief summary of previous archaeological research completed within one (1) mile of APE.
  - Brief summary of recorded archaeological features within one (1) mile of APE.
  - Results of GLO and Sanborn map review including:
  - Brief summary of features (trails, buildings, etc.) depicted on maps and within APE.
  - Discussion of ethno-historic information and historic context of APE and surrounding environment.
  - Description of historic resources inventory methods, including date(s) of survey and names and duties of personnel conducting the survey
  - Description of pedestrian survey methods including date(s) of survey, types of transects used, and names and duties of personnel conducting the survey.

- Results of pedestrian survey including ground conditions (percent visibility) and difficulties encountered, if any; descriptions of any archaeological artifacts encountered and other pertinent information.
- Description of shovel testing methods and results of shovel testing, if conducted.
- A summary with recommendations that must include a discussion of the site(s) and historic resource(s) identified and whether or not they meet National Register of Historic Places (NRHP) criteria and maintain integrity.
- List of references cited.
- Location map at 1:24,000 scale; aerial image (Google map acceptable) showing APE; and representative digital images of current conditions within APE.
- Site forms or isolate forms for up to one newly discovered archaeological site or isolate. Consultant shall also complete the SHPO Online Site or Isolate Form.
- A Section 106 Documentation Form for one historic resource.
-

Task 4.8 Consultant Deliverables

- Draft Cultural Resources Report
- Final Cultural Resources Report

Task C4.9 Archaeological Shovel Testing (CONTINGENCY)

High probability areas for archaeological resources or archaeological resources may be identified during the pedestrian survey. The consultant will provide recommendations for shovel testing within these high probability areas or at the archaeological resources after the pedestrian survey.

Shovel testing on County land would require a SHPO archaeological permit. An archaeological permit is in review for 30 days upon receipt of the permit application. If artifacts are encountered during shovel testing on County land under an archaeological permit, the artifacts must be collected, analyzed and curated along with field records, photographs, analysis data and the report at the University of Oregon Museum of Natural and Cultural History (MNCH). The curation fee is $400 per cubic foot.

It is assumed up to one archaeological resource will be identified and documented in the APE. It is assumed up to eight shovel tests will be excavated on County land. It is assumed up to 10 artifacts will be collected during shovel testing and curated at MNCH.

Task C4.9 Consultant Deliverables

- Results of the Archaeological Shovel Testing will be incorporated into the Draft and Final Cultural Resources Report from Task 4.8.

TASK 5 FIELD SURVEYING

Consultant shall collect additional topographic data within the Project limits and add information to the County provided topographic base map.

Task 5.1 Survey Research

Consultant shall perform survey records research to support Project activities as called for in subsequent tasks.

Existing Vesting Deeds and Property Ownerships

Consultant shall obtain a "Trio listing kit" (typically provided by a title company) for any properties where new R/W or easements are required. Consultant shall identify property ownership within and adjacent to the Project site by investigating property deeds and county tax records, where R/W or

easements are required. Consultant shall include all called deeds referenced in the Property Vesting Deeds if needed to resolve property boundary, where R/W or easements are required (up to four R/W or easements).

Existing County Records
Consultant shall research and obtain available copies of surveys, subdivision plats, and land partition plats filed in the county surveyor's office related to the properties impacted by the Project. Consultant shall use this information to find monuments that impact the Project and to establish property lines for area calculations when new R/W is acquired.

Consultant shall research and obtain available copies of county assessor maps, General Land Office plats, and county road records related to the properties potentially impacted by the Project.
Consultant shall research and obtain available data about Government Public Lands Survey Corners and their references in the Project area.

Existing Horizontal/Vertical Datum
Consultant shall perform the survey using the Oregon Coordinate Reference System, Salem Zone and NAVD88 as the horizontal and vertical datums for the project. Selected datums will conform with county provided topographic survey data which is to be supplemented.

Existing Utility Records
Consultant shall research and obtain available facility maps and as-built construction plan data pertaining to all utilities in or near the Project area from One-Call Service, County, or other governmental agencies and utility companies.

Task 5.1 Consultant Deliverables:

- "Trio listing kit" with Property Vesting Deeds in electronic, where new R/W or easements are required, up to four.
- All County Assessor Maps in ".pdf" and hard copy format.
- All General Land Office Plats in hard copy and ".pdf" format.
- All County Road establishment records in hard copy and electronic format.
- All County Road vacation records in hard copy and electronic format.
- All Subdivision and Land Partition Plats in hard copy and electronic format.
- All County Surveys of record in hard copy and electronic format.
- All Maps and Data related to Government Public Lands – Survey Corners and any references.
- All vesting and reference deeds.
- All maps and data pertaining to utilities in hard copy and electronic format.

Task 5.2 Survey Control
The purpose of this task is to provide the means by which a Project can be located relative to horizontal and vertical datum, map projection, and coordinate systems. Consultant shall obtain prior existing survey control data from Yamhill County which was used to prepare the existing topographic survey. Consultant shall recover and verify existing survey control and notify County of any discrepancies discovered. Existing survey control shall be supplemented as needed to collect additional topographic data and perform any right-of-way retracement as described below.

Task 5.3 Monument Recovery

The purpose of this task is to address the requirements of ORS 209.150 and 209.155, and other survey related statutes. The existing right-of-way does not appear to have been retraced since the 1930's and may or may not conform to the existing roadway location.

Consultant shall perform due diligence with regards to records research and analysis to locate the existing right-of-way based on the road records and monuments. If the existing right of way does not match the constructed (traveled) road then the Consultant shall coordinate with the County Surveyor to locate the apparent road right-of-way based on the constructed (traveled) road and match into the existing partition plat lines to the north of the bridge location.

In either case, existing monuments near the bridge site shall be documented as required by the said ORS and a survey filed with Yamhill County.

Field Survey of Recovered Monuments
Consultant shall survey for the following: Government corners, R/W monuments, property boundary markers, and roadway alignment markers. Consultant shall complete the monument recovery necessary to resolve the Right-of-Way or locate the apparent right-of-way based on the constructed roadway for the entire Project area as described in this SOW.

Consultant shall take measurements (survey) to the monuments recovered and tied (surveyed) from the control network. Consultant shall double tie the found monuments with conventional total station or GPS RTK methods. RTK methods must include tying recovered monuments the second time separated by a minimum ninety (90) minutes or by using a second base running at the same time to produce closing vector to each point.

Consultant shall locate, measure and document the location of all survey markers and monuments of record for property boundaries and R/W needed within the areas described above. Prepare and file with Yamhill County Survey, a Pre-Construction Record of Survey in compliance with ORS as noted above.

Task 5.3 Consultant Deliverables:

- Monument recovery documents, including:
  - One (1) scanned copy of the original field notes in ".pdf" format
  - ASCII file containing the following information, in this order: Point number, Northing, Easting, Elevation, Alpha Feature Code
  - An AutoCAD file in ".dwg" format, containing all the tied monuments
  - Pre-Construction Record of Survey filed with Yamhill County

Task 5.4 Topographic Data
Consultant shall collect additional existing topographic data of manmade and natural features using a variety of methods to supplement the existing provided base map. These methods may include but are not limited to: Collecting the data using terrestrial (Theodolite and EDM), GPS ("RTK"), High Definition Scanning ("HDS"), and aerial mapping.

Topographic Data Collection
As needed to supplement the existing provided base map, Consultant shall collect additional topographic features, manmade or natural, which must be tied within the limits of the Project described above and which must have three-dimensional ("3d") coordinates associated with each feature. Consultant shall collect these tied features using accepted collection methods. Trees within 100 feet of the existing bridge which are not included in the existing base map and are over 8" DBH within the topographic survey limits will be located and identified by either "conifer" or "deciduous".

As required by the design team, topographic survey will include up to four (4) additional cross sections of Deer Creek upstream and downstream to supplement the existing provided survey data. Additional cross sections shall not be more than 500 feet from the existing bridge location. Trees will not be included in cross section data.

Consultant shall collect wetland and waterway boundaries and data points flagged by Consultant biologists. Consultant shall also map the location of any geotechnical borings in place at the time of the survey.

It is anticipated that all topographic data collection can be completed in five days.

Basemap
Consultant shall update the County provided base map file with the topographic data collected in tasks above. Basemap must have all added features drafted to County standards.

Digital Terrain Model ("DTM")
As appropriate, Consultant update the County provided 3D Digital Terrain Model surface using the additional topographical data.

Task 5.4 Consultant Deliverables:

- PDF copy of field notes taken in the field
- ASCII file containing the following information in this order, Point number, Northing, Easting, Elevation, alpha feature code.
- An updated DTM containing all the tied topographic features
- An updated basemap containing all the tied utility and topographic features.

Task C5.5 Easement and Right of Way Acquisitions (Contingency)

DEA will provide up to four (4) legal descriptions and exhibits for proposed easements or right-of-way acquisitions. Documents will be prepared to Oregon Department of Transportation Standards unless otherwise specified by County. DEA will respond to one (1) round of comments or edits by the client. Any additional revisions requested beyond this first round will be deemed additional services.

Right-of-way consultant will provide a current title report for each proposed acquisition to be used in the preparation of the legal description and exhibits.

The four (4) proposed easements or right-of-way acquisitions will be staked by the Consultant in the proposed locations at major angle points and not more than 100-foot intervals using wooden lath, on one occasion for appraisal purposes.

Task C5.5 Consultant Deliverables:

- Four Legal Descriptions and Exhibits

TASK C6 RIGHT-OF-WAY (CONTINGENCY)

Task C6.1 Programming Cost Estimate/General Information Notices (Contingency)
Consultant shall prepare and submit a Programming Cost Estimate spreadsheet and memo outlining detailed acquisition costs for each property impacted by the Project. Upon receipt of authorization to proceed with ROW Acquisition, Consultant shall setup ROW parcel files and deliver a General Information Notice ("GIN"), acquisition and relocation brochures, and a copy of the applicable portion of the ROW Acquisition map (marked Preliminary and showing the parcel(s) to be purchased) to all owners and occupants of affected properties. The GIN must be on County letterhead. The Consultant shall hand-deliver or mail the GIN packet via certified mail and shall document it in the diary of contact report, noting all attachments to the GIN.

Consultant shall deliver or mail GINs to up to four landowners. GINs shall be mailed certified mail with return receipt requested.

Task C6.1 Consultant Deliverables (Contingency)

- Programming Estimate
- General Information Notices

Task C6.2 Title Reports and Document Requests (Contingency)
Consultant shall assemble information needed in accordance with the ODOT Right of way & Rail/Utility Contractor Services Guide, Section V. Title. Paragraph B. Consultant shall order and pay for up to four preliminary title reports. Preliminary title reports may be needed for development of the legal descriptions and may need to be ordered prior to the preparation of legal descriptions.

Task C6.2 Consultant Deliverables (Contingency)

- Up to four Preliminary Title Reports

Task C6.3 Appraisals and Appraisal Reviews Coordination (Contingency)
Consultant shall provide up to four taking and damages Real Estate Appraisals conforming to standards contained in the Uniform Standards of Appraisal Practice ("USPAP") and ODOT Right of Way Manual. All appraisals must be prepared using Agency approved forms or formats. All appraisals must be conducted by Appraisers experienced in Eminent Domain and included on ODOT's list of qualified appraisers ("QAL"). Consultant shall provide no fewer than fifteen (15) calendar day's written notice to owners of a planned appraisal inspection. Consultant shall provide the property owner and designated representative, if any, an invitation to accompany the appraiser on any inspection of the property for appraisal purposes. The 15-day appraisal notice and right to accompany shall be hand delivered or mailed certified and documented in the diary of contact report. The appraisals must be Value Finding or Taking and Damage reports in a summary format for up to four properties with impacts to the properties which result in minimal to no damages.

Consultant shall perform an appraisal review for each appraisal conducted by an appraiser on ODOT's list of qualified appraisers and forward both appraisal and review to Agency and County for final approval.

The same appraisal firm must not perform both the appraisals and appraisal reviews.

County Responsibilities
County will establish just compensation and notify the Consultant.

The number of properties will be adjusted if any of the properties are donated.

Task C6.3 Consultant Deliverables (Contingency)

- Up to four Taking and Damage Appraisals
- Up to four Appraisal Reviews

Task C6.4 Negotiation and Final Offer (Contingency)
Consultant shall conduct negotiations for acquisitions of real property on up to four files based on Appraisal Review and in accordance with all applicable state and federal laws in place at time of Project. Consultant shall provide all property owners a complete copy of Appraisal and all essential documents at the initiation of negotiations, to include: Project information letters, acquisition and relocation brochures, summary statements, offer-benefit letters on County letterhead, and instrument of conveyance. The Consultant shall hand deliver or mail Offer Packet to property owner via certified mail and document it in the diary of contact report, noting all attachments.

Consultant shall make every reasonable effort to acquire ROW expeditiously by negotiation. Consultant shall give property owners reasonable opportunity to consider the offer (statutorily forty (40) calendar days) and to present information the owner believes is relevant to determining the value of the property.

- IF the OFFER is ACCEPTED, Consultant shall present a Final Report Packet covering the acquisition of ROW to County for final approval, payment, conveyance of title and recording.
- IF a COUNTER OFFER is received, Consultant shall submit the proposed COUNTER OFFER (exceeding the estimate of just compensation) with a justification letter and owner supplied supporting documentation to County for approval. If accepted, see above.
- IF an acceptable agreement is not reached after three substantive negotiation attempts, Consultant shall prepare and submit a Recommendation for Condemnation and return the file to the County.

For property owners considering donation, Consultant shall inform property owners, in writing, of their right to just compensation; such property owners may elect to donate by signing a waiver of their rights.

Consultant shall maintain written diaries of contact with property owners and tenants to record all events such as efforts to achieve amicable settlements, owner's suggestions for changes in plans, and responses to owner's counter proposals. The delivery of GIN packet, fifteen (15) day appraisal inspection letter and Offer Packet must be included in the diary of contact report.

Task C6.4 Consultant Deliverables (Contingency)

- Offer Benefit Packets Counter Offers with Justification, and Owner Supplied Supporting Documentation
- Final Reports
- Recommendation for Condemnations, if needed

Assumptions

- The County will provide Conveyance Documents to Consultant.
- The County will record documents and make payment to property owners.

- Number of parcels is up to four
- There are four parcels identified, and it is assumed that there are no larger parcels.
- The County will draft and approve a Resolution of Necessity prior to the initiation of negotiations.
- Rights of Entry are not needed for this project.
- Relocation services are not needed for this project.
- The appraisals will be Taking and Damages reports. If it is determined that a Before and After appraisals are necessary, appraisal and review fees will be adjusted accordingly.

TASK 7 GEOTECHNICAL INVESTIGATIONS/ANALYSIS/DESIGN

Consultant geotechnical services at bridge site shall be completed in accordance with the most recent version of the ODOT Geotechnical Design Manual.

Consultant shall perform geotechnical field explorations, field and laboratory testing and engineering analysis, and provide recommendations for bridge foundations and approach embankments. The findings will be summarized in a Geotechnical Report and Foundation Data Sheet.

Task 7.1 Site Reconnaissance and Field Explorations

Consultant shall conduct a geologic reconnaissance to identify the geologic conditions, any geologic hazards present and their impacts to the proposed Project elements. Consultant shall locate proposed boring locations in the field during the reconnaissance.

The site reconnaissance must include the following work:

- Observe surface conditions indicative of subsurface conditions as well as past or ongoing geologic processes (e.g., areas of seeps or springs, erosion, unstable slopes, shallow groundwater, roadway settlement, offsets and depressions, existing earthwork performance, and exposed soil and bedrock units).
- Identify site constraints and staging concerns (for exploration and construction).
- Identify potential exploration locations.

The site reconnaissance must facilitate an understanding of the site constraints for field explorations, construction, and traffic staging. Consultant shall stake or paint proposed boring locations on the ground.

Field Exploration Work Plan

Consultant shall prepare a Field Exploration Work Plan showing the proposed drilling locations, outlining the drilling and sampling procedures and the traffic control plan prior to beginning the work. No field work is to be performed, other than the site reconnaissance, before the Field Exploration Work Plan is reviewed and approved by County. The Field Exploration Work Plan must describe the borehole locations and geotechnical activities to be conducted, including site access, subsurface exploration means and methods, site restoration, traffic control, and health and safety of workers on site.

Consultant shall develop a Field Safety Plan (FSP) for fieldwork and a Traffic Control Plan (TCP) for submittal to County prior to the start of investigation work. The TCP must address a minor road encroachment as well as a single lane closure for activities associated with drilling exploratory borings from the roadway surface and pavement restoration. County shall provide traffic control as necessary for explorations within the existing County right-of-way. Single lane closures are required for all borings. Traffic control will be required for up to two day.

Field Exploration

Consultant shall perform geotechnical field explorations to determine subsurface conditions and develop foundation design recommendations. The explorations for bridge site must include:

- Two borings drilled at the proposed two bridge abutments. Each boring will be advanced to an approximate depth of 30 to 40 feet. These borings will be used to characterize subsurface soil and bedrock conditions for the bridge foundations, abutment walls and approach embankments.
- Up to three (3) vacuum excavations at one (1) of the existing bridge abutments to locate the heel of the existing spread footing. Each vacuum excavation will be advanced to an approximate depth of 10 feet. These vacuum excavations will be used to determine the approximate dimensions of the existing bridge footings.

Disturbed soil samples must be collected in the borings at 2.5- to 5-foot increments using a split-spoon sampler in conjunction with Standard Penetration Testing. Recovery of up to four (4), relatively undisturbed Shelby tube samples may also be attempted if fine-grained soil is encountered. Rock coring must be accomplished using HQ-sized equipment. Up to 20 feet of rock coring will be performed in each boring. All field work must be observed and recorded by qualified geotechnical staff. Upon completion of drilling, the boreholes must be abandoned and backfilled according to Oregon Water Resources Department regulations.

Field exploration must include a surface reconnaissance of the stream beds and approaches to observe the location of any rock outcrops. Borings must be advanced using mud-rotary drilling or hollow stem auger drilling and HQ wire-line coring techniques. Consultant shall provide a support truck with a poly tank to provide water for drilling and coring. Drill cuttings must be drummed and removed from the site.

Vacuum excavations will be performed using a vac-trailer. No soil sampling will be performed for the vacuum excavations.

Consultant shall obtain up to three bucket samples of the stream bed material for the purpose of determining the D_{50} grain size for scour analysis. The samples will include the 3-inch minus fraction of the bed material.

Assumptions:

- All borings will be drilled during daylight hours and will be located within the existing roadway and the public R/W. A single lane closure and traffic control will be required for the drill rig.
- Road will remain open to traffic during work. Traffic control will consist of flaggers around the work zone and will be provided by the County.
- Site will be explored utilizing a truck drilling rig.
- Any required permit fees will be waived.
- Any right-of-entry permits will be provided by the County.
- No soil or groundwater contamination is present on or near the Bridge site.

A summary of the planned explorations is provided in the following table.

STRUCTURE	EXPLORATION	ESTIMATED BORING DEPTH
Gopher Valley Road Bridge	2 Borings	Each boring to 30-40 feet with up to 20 feet of rock core each
Gopher Valley Road Bridge Existing Footings	3 Vacuum Excavations	Each excavation up to 10 feet

Field exploration results shall be submitted under Task 7.5.

Task 7.2 Laboratory Testing
Consultant shall perform laboratory tests on soil samples and rock core obtained from the explorations to characterize the soils and rock to develop parameters for the design of Bridge foundations. The laboratory testing program shall be performed in accordance with standard ASTM and Agency practices to include the following:

- Moisture content (up to 10);
- Atterberg limits (up to 2);
- Gradation test on stream bed sample (for establishing a D_{50} particle size for scour calculations);
- Gradation (up to 4 minus No. 200 sieve wash);
- Unconfined compression tests on rock core samples (up to 6), if suitable rock core specimens are obtained.

Up to one (1) corrosivity test suite (pH, resistivity, chloride, and sulfate content) shall be completed on a selected soil sample for the evaluation of corrosion potential. Test results must be submitted under Task 7.5.

Task 7.3 Geotechnical Analysis and Design
Consultant shall complete a geotechnical study and provide design parameters and construction recommendations for the Project. The engineering evaluation and analyses must be performed in accordance with the most recent ODOT Geotechnical Design Manual and the most current AASHTO LRFD Bridge Design Specifications. Consultant shall:

- Provide recommendations for earthwork including site preparation, excavation, cut and fill slopes, structural fill material, fill placement and compaction, and wet weather construction.
- Perform a seismic hazard evaluation including the peak horizontal acceleration on rock for the "Operational" and "Life Safety" seismic design criteria ground motions according to the ODOT BDM and hazard at the bridge and retaining walls due to potential liquefaction and lateral spreading.
- Provide recommendations for the new Bridge foundations including:
  - Evaluating spread footing, driven pile, micropile, and drilled shaft foundation alternatives.
  - Providing design recommendations for one (1) selected foundation options including: strength limit and service limit state axial resistance of deep foundations, soil lateral resistance parameters for deep foundations, strength limit and service limit state

nominal bearing resistance and sliding coefficients for shallow foundations and resistance factors for all proposed foundation types.
    - Evaluating constructability of the bridge foundations.
- Provide recommendations for abutment walls and embankments including:
    - Lateral earth pressures for abutment walls, wing walls, or sheet pile cut-off walls as needed.
    - Appropriate cut and fill slopes, global stability, and estimated settlement for embankments.
    - Geotechnical related construction considerations for shoring and staging.
- Perform a streambed material analysis according to the ODOT Hydraulics Manual, Appendix A, using samples taken just upstream from the existing bridges. The analysis will be used to determine the particle size (D_{50}) of the stream's bed material. Results will be provided on a grain-size distribution (GSD) curve. Data will be used in Task 8.1 for scour analysis.

Geotechnical evaluation and design recommendations must be submitted under Task 7.4.

Task 7.4 Geotechnical Report and Foundation Data Sheets
Consultant shall prepare a draft and final Geotechnical Report for the bridge site according to the ODOT Geotechnical Design Manual. The report must:

- Summarize design and construction recommendations.
- Summarize field and laboratory test results.
- Summarize the results of the geotechnical engineering evaluation and design.
- Identify general specification criteria for the construction document and provide recommendations for special provisions (if required).
- Provide design and construction recommendations for the preferred bridge foundation system, embankments, and cut or fill slopes.

Consultant shall incorporate County review comments into the final Geotechnical Design Report. Consultant shall submit the final report with Signed Final PS&E.

Consultant shall prepare one (1) Foundation Data Sheet ("FDS") based on the base map developed for the project site. Draft Foundation Data Sheet must be submitted for review with the draft Geotechnical Report. The FDS must be finalized following review by the County and design team. The FDS must be submitted under Task 10.

Task 7.4 Consultant Deliverables

- Draft Geotechnical Report
- Final Geotechnical Report
- Foundation Data Sheet

Task 7.5 Review of Geotechnical Related Plans and Specifications
Consultant shall review the geotechnical related plans and special provisions at the Advance and Final PS&E review stages for consistency with the geotechnical recommendations provided in the final Geotechnical Design Report. Deliverable must be included in Task 10.

TASK 8 BRIDGE HYDRAULICS, STORMWATER/SURFACE WATER PLAN AND REPORT

Task 8.1 Bridge Hydraulic Study

Consultant shall develop and perform a hydraulic analysis, calculate bridge backwater and scour depths, design abutment scour protection, and prepare documentation to meet the needs and requirements of the Project.

Data Review
Consultant shall review available information from County personnel data files prior to conducting hydraulics work.

Site Reconnaissance
Consultant shall conduct a site reconnaissance and perform the following field observations and activities:

- Note lateral channel stability; document any signs of stream migration that could affect stability for piers, bents or abutments. Note degradation (headcutting) or aggradation (deposits) in the channel, document conditions with color photographs.
- Estimate Manning's "n" value for the main channel and overbank areas, document with color photographs.
- Determine size of existing riprap at abutments and piers, note any riprap failure.
- Determine bed material size by visual inspection as required for values for variables in scour prediction.
- Note evidence of scour.
- Note existing abutment/pier alignment; note skew or normal to flow.
- Note hydraulic controls from channel constrictions, dams, etc.
- Note apparent or observed highwater marks.
- Note evidence of debris.
- Have conversations with local residents if available, and County Maintenance personnel about flooding.

Hydrology
Consultant shall develop site hydrology and use appropriate information to develop the 2-year through 500-year flows for the hydraulic model and scour evaluation. The County shall provide any stage or discharge data that may be available for all locations. If no data is available, then USGS regression equations will be used to determine base hydrology.

The Consultant shall contact the County to obtain information (studies, hydrologic and hydraulic models, and monitoring information) for flows on the Deer Creek. If there is no information available, the Consultant shall use engineering judgment to determine flow with the County's approval.

Hydraulic Analyses
Consultant shall develop hydraulic models, using the Hydrologic Engineering Center – River Analysis System (HEC-RAS) computer model and the survey data, for existing and proposed bridges. Consultant's work shall include:

- Modeling the "natural conditions" with no bridge or roadway, modeling the existing bridge condition, and modeling the proposed bridge condition.
- Calculating backwater against "natural conditions" for the existing and proposed bridges for the 2-year through 500-year flood required by the bridge design.
- Determine the roadway overtopping flood and frequency at sites where the water overtops the roadway/bridge before the 500-year flood peak.

Bridge Scour Analysis

Consultant shall calculate bridge scour using procedures described in ODOT's Scour Guidelines and HEC-18 and compare any historical surveys to determine changes in the channel geometry.

Revetment Design
Consultant shall design revetment using methods described in HEC-11, HEC-l8, HEC-23 and Agency Scour Guidelines.

Reports
Consultant shall prepare a draft and final Hydraulic Report, in accordance with guidelines described in 2014 ODOT Hydraulics Manual.

Support for Permits
Consultant shall provide support and documentation necessary to obtain County floodplain permits (prepared by County) and the DSL permit. Consultant shall respond to comments received relative to the hydraulic design during the permit process. Consultant shall provide a "max 1 foot-rise" certification.

Task 8.1 Consultant Deliverables

- Draft Bridge Hydraulic Report
- Final Bridge Hydraulic Report

Task 8.2 Stormwater/Management Plan and Report
Consultant shall perform a surface water hydraulic analysis and develop stormwater treatment plans in order to comply with SLOPES programmatic design standards and DEQ water quality certification requirements. Consultant shall develop a draft and final Stormwater Quality Management Report in accordance with County, SLOPES guidelines, and DEQ requirements. Consultant shall submit draft to the County for review. Consultant shall address County comments in the final submittal to the County.

Surface Water Hydraulic Analysis and Stormwater Quality Management Report
Consultant shall perform a field investigation to document existing drainage patterns and to attempt to locate historic drainage problems. Consultant shall compile complaint logs, maintenance logs, and available as-built plans and record drawings. County will supply Consultant with as-built plans of existing drainage systems, if available. Consultant shall investigate options for providing water quality and quantity control, as required, for roadway runoff based on environmental compliance agreements. Consultant shall pay particular attention to providing water quality and quantity control prior to the runoff entering the receiving waters. The hydrologic analysis must focus on the specific areas of improvement and must not include basin-wide master planning or analysis. Stormwater quality and quantity control facilities needed to meet County, State and Federal standards and will be accommodated within the proposed R/W. Consultant shall document the hydraulic and hydrologic investigation, analysis and design in a draft and final Stormwater Management Report.

Stormwater Drainage and Treatment Plans
Consultant shall develop preliminary, advance and final stormwater drainage plans. Drainage analysis and design must comply with federal and state environmental requirements.

Consultant shall develop up to two (2) advance and final Stormwater Drainage and Treatment Plan sheets illustrating and describing the required elements of the stormwater collection and treatment plan for submittal with Tasks 10, 11, and 12. Consultant shall prepare and submit plan sheets for review at each subsequent completion level stage. The Plans must include plans, profiles, and site grading plans for water quality and quantity control facilities and stormwater conveyance facilities, an Operations and

Maintenance Manual to serve the new bridges and roadways, hydraulic control structures for water quality facilities (if necessary), and details for providing treatment of runoff prior to entering the receiving waters to meet NOAA Fisheries and DEQ guidelines unless otherwise recommended by the Project biologist.

Task 8.2 Consultant Deliverables

- Draft Stormwater Quality Management Plan and Report
- Final Stormwater Quality Management Plan and Report

TASK 9 RESERVED

TASK 10 DESIGN

Consultant shall prepare for and attend the Task 1 Design Criteria Meeting and Site Visit described in Task 3.1. A list of the project design criteria will be presented at this meeting and confirmed during the meeting with the County.

Task 10.1 30% TS&L

Roadway alignment will consider up to three alignments: approximately 19-foot alignment shift for staged construction, approximately 7-foot alignment shift for staged demolition and staged construction, and a third alignment that matches the existing alignment. It is anticipated that the replacement bridge will be a single-span bridge. Consultant shall confirm the length based on grade profile, minimum horizontal and vertical clearances, SLOPES requirements and hydraulic constraints to produce a "No Rise" condition.

Consultant shall use the County provide basemap to develop the following deliverables:

- 30% Roll Plot of up to three (3) Alternatives showing:
  - Roadway estimated project limits
  - Bridge and sheet pile (if necessary) estimated location
  - Staging and parking areas estimated location
  - Impacted utilities
  - Work isolation estimated location
  - Estimated temporary construction easement and permanent ROW acquisition areas
- Bridge Plan and Elevation Drawing for up to three (3) bridge alternative
- Project construction cost estimate for the recommended roadway and bridge alternative
- TS&L Design Memo documenting the recommended bridge type and bridge construction technique. The memo shall provide brief narrative on up to three alignments.

Draft Geotechnical and Draft Hydraulic report recommendations will be incorporated into the 30% TS&L deliverables.

Prior to delivering the 30% TS&L Deliverables, consultant shall have a bridge engineer not directly involved in this project provide a value engineering review of the entire project with an estimated effort of 4 hours.

Task 10.2 60% Design

Consultant shall provide labor, equipment and materials as needed to develop 60% PS&E. Comments from the 30% TS&L Meeting will be incorporated into the 60% deliverables.

Prior to delivering the 60% Plans, consultant shall have an engineer experienced with construction, not directly involved in this project, provide a constructability review of the entire project with an estimated effort of 4 hours.

Consultant shall:

- Prepare a plan and profile sheet with Erosion Control callouts and a separate construction note sheet with quantities.
- Define and show limits of the Project, catch points, and construction limits.
- Develop alignment plans
- Develop R/W requirements, and easement requirements for permanent and temporary easements (if needed)
- Show Staging Areas in Plans
- Prepare Project title sheet and index of sheets.
- Prepare roadway typical section and details sheets
- Prepare traffic control sheets
- Prepare bridge drawings. This task assumes that the bridge is a prefabricated contractor-designed bridge constructed under a full roadway closure. The following Bridge plans will be prepared:
    1. Plan and Elevation
    2. General Notes Specifying required materials and limiting features
    3. Stage Construction sheet describing required construction sequencing
- Prepare Site Restoration Plans
- Identify required Special Provisions to the Standard Specifications and compile available boilerplates
- Calculate quantities and prepare an engineer's estimate of construction costs
- Prepare Construction schedule

Task C10.3 60% Consultant-Designed Bridge (CONTINGENCY)

If the selected bridge alternative requires a consultant-designed solution for either the bridge foundations or superstructure (or both), the Bridge plans listed in Task 10.3 will be replaced by a plan set necessary for a complete consultant design. Sheets are assumed to be:

1. Plan and Elevation
2. Typical Section & General Notes
3. Construction Staging Details
4. Geotechnical Data Sheet
5. Foundation Plan and Work Isolation Plan
6. Deck Plan
7. Typical Section
8. Girder Schedule
9. Bent Plan and Elevation
10. Bent Details
11. Wingwall Details

Task 10.4 Unsigned PS&E Design

Consultant shall provide labor, equipment and materials as needed to develop Unsigned PS&E and Construction schedule. Comments from the 60% Review Meeting will be incorporated into the Unsigned PS&E deliverables.

Prior to delivering the Unsigned PS&E deliverables, consultant shall have an engineer experienced with construction, not directly involved in this project, provide a constructability review of the entire project with an estimated effort of 4 hours.

Consultant shall advance the deliverables from the Task 10.3 60% Design Phase.

Prepare unsigned Special Provisions to the Oregon Standard Specifications.

Task C10.5 Unsigned PS&E Consultant-Designed Bridge (CONTIGNECY)

If the selected bridge alternative requires a consultant-designed solution, the Bridge plans submitted as part of Task 10.5 will be replaced by the following:

Consultant shall advance the deliverables from the Task 10.4 60% Consultant Designed Bridge task.

Task 10.6 Signed PS&E
Consultant shall provide labor, equipment and materials as needed to develop Signed PS&E and Construction schedule. Comments from the Unsigned PS&E Review Meeting will be incorporated into the Signed PS&E deliverables. Final Geotechnical and Final Hydraulic report recommendations will be incorporated into the Final (100%) PS&E deliverables.

Consultant shall:

- Prepare final, signed Special Provisions to the Oregon Standard Specifications.
- Update the bid tab list of construction items anticipated for the Project
- Submit Final PS&E Package and construction schedule to County including electronic pdf plans, final specifications, Engineer's cost estimate, certifications, and forms required to advance the Project to bid advertisement.

Task C10.7 Signed PS&E Consultant-Designed Bridge (CONTINGENCY)

If the selected bridge alternative requires a consultant-designed solution, the Bridge plans submitted as part of Task 10.7 will be replaced by the following:

Consultant shall advance the deliverables from the Task 10.6 Unsigned PS&E Consultant-Designed Bridge task.

Task C10.8 Consultant-Designed Bridge Load Rating (CONTINGENCY)
Consultant shall prepare load rating calculations and check of calculations for the new bridge. The load rating package will be finalized at the end of construction with the as-built drawings. If requested an electronic copy of the load rating and supporting files will be delivered to the County.

Task 10 Consultant Deliverables:
All deliverables will be provided in electronic format only be email or posting to a file sharing site.

- Project Design Criteria
- TS&L Design Memo

- 30% Plans and Construction Cost Estimate
- 60% PS&E
- Unsigned PS&E and Construction Schedule
- Signed PS&E and Construction Schedule
- Bridge Load Rating Summary and Supporting Files (if requested)

TASK 13 UTILITY COORDINATION

Task 13.1 Utility Coordination

Consultant shall initiate contacts with utilities and coordinate relocation plans needed for construction of the Project. If any utility is nonresponsive or uncooperative, Consultant shall notify County, and County will communicate with the utility to affect a solution.

Consultant shall:

- Determine possible construction conflicts with known utilities.
- Prepare and send preliminary Project plans and a "Utility Conflict Letter and List" to each affected utility.
- Prepare and send "Utility Timing Requirements Letter" to each affected utility.
- Prepare and submit a "Utility Certification Report".

Note: This SOW is not intended to modify the statutory duties associated with underground utilities and construction Projects. Development of extensive electronic mapping or potholing of existing utilities is not included in this SOW. Design of or environmental compliance for relocation of utilities is not included in this SOW.

Task 13.1 Consultant Deliverables

- Utility Conflict Letter and List
- Utility Timing and Requirements Letter
- Utility Certification Report

TASK 14 BID SUPPORT

Consultant shall respond to questions from construction contractors and suppliers about the plans and specifications, during the Project construction bidding process (and fully document those questions and answers for the County's reference). Consultant shall prepare a plan for responding to these questions during the bidding phase. Consultant shall prepare up to one bid addendum to provide clarification to the bid documents. Consultant shall submit the addendum to County for distribution to construction contractors.

ANTICIPATED SCHEDULE

Notice to Proceed	May 19, 2022
Design Criteria Meeting & Site Visit	9 weeks from NTP
30% Plans and Estimate	14 weeks after NTP
60% PS&E	21 weeks after NTP
Unsigned PS&E Submittal	28 weeks after NTP
Signed PS&E Submittal	34 weeks after NTP
Bid Opening	April 6, 2023

DELIVERABLES

The following table lists deliverables and deadlines for this Project. The table lists both non-Contingency and Contingency tasks. The numbers of copies and submittal dates are only an estimate, and must be confirmed or revised by Consultant in coordination with County.

Documents prepared by Consultant pursuant to this WOC will be property of County. Consultant may retain copies for its records. Reuse of work product created by Consultant for a purpose not originally intended by parties shall be at the sole risk of such user.

TASK	DELIVERABLE	DUE DATE
1.1	Monthly invoice and back up data	20th of each month
1.1	Project activity schedule	By the Design Criteria Meeting
1.1	Monthly progress report	20th of each month
1.1	Project Communication Directory	By the Design Criteria Meeting
2.0	Up to 3 exhibits to support County Public Involvement activities	As requested at design milestone submittal
3.1	Meeting Agendas and Minutes	Within 1 week of meeting
4.1	Draft Wetland/Waters Technical Memo	8 weeks after NTP
4.1	Final Wetland/Waters Technical Memo	2 weeks after comment resolution
C4.2	Draft Wetland Delineation Report (**CONTINGENCY**)	Within 6 weeks of activating contingency task
C4.2	Final Wetland Delineation Report (**CONTINGENCY**)	2 weeks after comment resolution
C4.3	Stream Functional Assessment (**CONTINGENCY**)	2 weeks after 60% deliverables
4.4	Draft Fish Passage Form	2 weeks after 60% deliverables
4.4	Final Fish Passage Form	2 weeks after comment resolution
4.5	SLOPES Compliance Documentation	(submit with JPA)
4.6	Draft Joint Permit Application	2 weeks after 60% deliverables
4.6	Final Joint Permit Application	4 weeks after comment resolution
4.8	Draft Archaeological Baseline Report	With 30% Plans
4.8	Final Archaeological Baseline Report	2 weeks after comment resolution
4.8	Draft Cultural Resources Report	With 60% Plans
4.8	Final Cultural Resources Report	2 weeks after comment resolution

C4.9	Results of Shovel Testing (**CONTINGENCY**)	Incorporated after NTP into Cultural Resource Report
5.3	Monument recover documents	8 weeks after NTP
5.4	Topographic Data Updated basemap	Within 3 weeks from completion of field work
C5.5	Legal Descriptions and Exhibits for ROW Acquisitions	3 weeks after NTP
C6.1	Programming Cost Estimate / General Information Notices (**CONTIGENCY**)	2 weeks after 60% Plans approval
C6.2	Title Reports and Document Requests (**CONTIGENCY**)	2 weeks after programming estimate
C6.3	Appraisals and Appraisal Reviews (**CONTIGENCY**)	16 weeks after ROW phase NTP
C6.4	Offer Letter Packets/ Final Reports/ Recommendation for Condemnation, if needed (**CONTIGENCY**)	Within 1 week of receiving just compensation approval from County
7.4	Draft Geotechnical Report	With 30% Plans
7.4	Final Geotechnical Report	With Signed PS&E
7.4	Draft Foundation Data Sheets	With 60% Plans & Unsigned PS&E Plans
7.4	Final Foundation Data Sheets	With Signed PS&E Plans
8.1	Draft Bridge Hydraulic Analysis and Report	With 30% Plans
8.1	Final Bridge Hydraulic Analysis and Report	With Signed PS&E Plans
8.2	Draft Stormwater Quality Management Plan and Report	With 30% Plans
8.2	Final Stormwater Quality Management Plan and Report	With Signed PS&E Plans
10.1	30% Role plot of site for up to three alternatives	16 weeks after NTP
10.1	30% Bridge Plan and Elevation Drawings for up to three alternatives	16 weeks after NTP
10.1	Construction Cost estimate for up to three alternatives	16 weeks after NTP
10.1	TS&L Design Memo	16 weeks after NTP
10.2	60% Plans	6 weeks after 30% submittal
10.2	60% Construction Cost Estimate	6 weeks after 30% submittal
10.2	60% Special Provision Boiler Plates	6 weeks after 30% submittal
10.2	60% Construction Schedule	6 weeks after 30% submittal
C10.3	60% Consultant Designed Plans (Contingency)	6 weeks after 30% submittal
C10.3	60% PS&E Consultant Designed Bridge Plans (**CONTINGENCY**)	21 weeks after NTP
10.4	Unsigned PS&E Plans	8 weeks after 60% submittal
10.4	Unsigned PS&E Construction Cost Estimate	8 weeks after 60% submittal
10.4	Unsigned PS&E Special Provisions	8 weeks after 60% submittal
10.4	Unsigned PS&E Construction Schedule	8 weeks after 60% submittal
C10.5	Unsigned PS&E Consultant Designed Bridge Plans (**CONTINGENCY**)	8 weeks after 60% submittal
10.6	Signed PS&E Plans	6 weeks after Unsigned PS&E submittal
10.6	Signed PS&E Construction Cost Estimate	6 weeks after Unsigned PS&E submittal

10.6	Signed PS&E Special Provisions	6 weeks after Unsigned PS&E submittal
10.6	Signed PS&E Construction Schedule	6 weeks after Unsigned PS&E submittal
C10.7	Signed PS&E Consultant Designed Bridge Plans **(CONTINGENCY)**	6 weeks after Unsigned PS&E submittal
C10.8	Consultant-Designed Bridge Load Rating **(CONTINGENCY)** electronic files (if requested)	6 weeks after Unsigned PS&E submittal
13.1	Utility Conflict Letter and List	With 30% Plans
13.1	Utility Timing and Requirements Letter	With 30% Plans
13.1	Utility Certification Report	With Signed PS&E Plans
14.0	Bidding Question and Answer documentation	As needed
14.0	Up to one (1) bid addendum to provide clarification to the bid documents	As requested

F. CONTINGENCY TASKS

The table above includes a summary of contingency tasks that County, at its discretion, may authorize Consultant to perform. Details of the contingency tasks and associated deliverables are stated in the Task section of the SOW. Consultant shall complete only the specific contingency task(s) identified and authorized via written (email acceptable) Notice-to-Proceed ("NTP") issued by County's CPM. If requested by County, Consultant shall submit a detailed cost estimate for the agreed-to contingency Services (within the NTE amount(s) in the Contingency Task Summary Table) within the scope of the contingency task.

If County chooses to authorize some or all of these tasks, Consultant shall complete the authorized tasks and deliverables per the schedule identified for each task. The NTP will include the contingency task name and number, agreed-to due date for completion and NTE for the authorized contingency task.

Each contingency task is only billable (up to the NTE amount identified for the task) if specifically authorized per NTP. In the table below, the "NTE for Each" amount for a contingency task includes all labor, overhead, profit, and expenses for the task. The funds budgeted for contingency tasks may not be applied to non-contingency tasks without an amendment to the WOC. Each authorized contingency task must be billed as a separate line item on Consultant's invoice.

G. COMPENSATION

The method(s) of compensation and payment option(s) selected below (and as specified for any Contingency Tasks in the table in Section F).

G.1 Non-Contingency Tasks

The method(s) of compensation for non-contingency tasks in this WOC is:

☒ Time and Materials with Not-To-Exceed ("T&M")

G. 2 Payment Options - RESERVED

G.3 Fixed Fee (for CPFF)- RESERVED

G.4 Total WOC T&M NTE Amount – See separate document.

G.5 Invoices

Invoices must be in conformance with the County Invoice Requirements Guide and any other Contract requirements.

Consultant shall submit invoices electronically via email to County.

WOC ATTACHMENTS

ATTACHMENT A – ACRONYMS & DEFINITIONS

AASHTO – American Association of State Highway and Transportation Officials	**LPA** – Local Public Agency
ADT – Average Daily Traffic	**LRFD** – Load Resistance Factor Design
Agency – Oregon Dept. of Transportation	**MWESB** – Minority, Women & Emerging Small Businesses
APE – Area of Potential Effect	**NTE** – Not to Exceed
APM – Agency's Project Manager	**NTP** – Notice to Proceed
ASTM – American Society for Testing and Materials	**ODEQ** – Oregon Department of Environmental Quality
BDDM – ODOT Bridge Design/Drafting Manual	**ODFW** – Oregon Department of Fish and Wildlife
BOC – Breakdown of Costs	**ODOT** – Oregon Department of Transportation
CE – Construction Engineering	**ORS** – Oregon Revised Statute
County – Columbia County	**PA** – Price Agreement
USACE – U.S. Army Crps of Engineers	**PE** – Preliminary Engineering
Consultant – David Evans and Associates, Inc.	PM – Consultant's Project Manager
CPFF – Cost Plus Fixed Fee	**PS&E** – Plans, Specifications & Estimate
CPM – County Project Manager	**QC** – Quality Control
DBE – Disadvantaged Business Enterprise	**R/W** – Right of Way
DLC – Donation Land Claim	**SHPO** – State Historic Preservation Office
DSL – Oregon Department of State Lands	**SOW** – Statement of Work
DTM – Digital Terrain Model	**T&M** – Time and Materials
ESA – Environmental Site Assessment	**TM** – Technical Memorandum
FHWA – Federal Highway Administration	**TP&DT** – Temporary Protection and Direction of Traffic
FOE – Finding of Effect	**TS&L** – Type, Size, and Location
FP – Fixed Price	**USGS** – United States Geologic Survey
HAZMAT – Hazardous Materials	**USPAP** – Uniform Standards of Professional Appraisal Practice
LDD – Land Development Desktop	**WOC** – Work Order Contract

ATTACHMENT B - BREAKDOWN OF COSTS FOR SERVICES

The Breakdown of Costs (BOC) dated **5/11/2022** is not physically attached but incorporated into this WOC by this reference with the same force and effect as though fully set forth herein. A copy of the final BOC has been provided to Consultant prior to WOC execution.

Yamhill County Contract #

David Evans and Associates, Inc.
Engineering Construction Services for Bridge Replacement Gopher Valley Road Project

SUMMARY OF ESTIMATE FOR SERVICES
LABOR HOURS / COSTS BY TASK
Attachment A

David Evans and Associates, Inc.

		Project Management			Survey						
	Billing Rate	$206.14	$138.74	$83.62	$245.47	$147.24	$105.57	$123.31	$113.50	$103.37	$162.56
	Name/Classification	Amanda Blankenship ENG5 (Project Manager and Structural Lead)	Michelle Phelps PJM1 (Project Manager I- Deputy PM)	Stephanie Yuzon PJC2 (Project Coordinator II)	Pat Gaylord SVM4 Survey Manager IV (Survey Lead)	Gordon Wilson FSV3 (Project Surveyor III)	Tyson Mizell SAN1 (Survey Analyst I)	Tim Schweitzer SAN2 (Survey Analyst II)	Shaun Potter PCH3 (Party Chief III)	Mike Bosca FST4 (Field Survey Technician IV)	Loren Stucker SCN 1 Scientist IV - Environmental Lead)
Task 1.0 Project Management During Design											
1.1	Project Management	194	36	27							
	Total Task 1 Hours	194	36	27	0	0	0	0	0	0	0
	Total Task 1 Cost	$ 39,991.16	$ 4,944.84	$ 2,256.14	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 2.0 Public Involvement											
2.0	Public Involvement	4.00									
	Total Task 2 Hours	4	0	0	0	0	0	0	0	0	0
	Total Task 2 Cost	$ 824.56	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 3.0 Project Meetings											
3.1	Project Meetings	49									6
	Total Task 3 Hours	49	0	0	0	0	0	0	0	0	6
	Total Task 3 Cost	$ 10,100.86	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 975.48
Task 4.0 Environmental Compliance/Permitting											
4.1	Wetland/Waters Technical Memorandum										28
C4.2	Wetland Delineation Report (CONTINGENCY)										16
C4.3	Stream Functional Assessment Method (CONTINGENCY)										8
4.4	Fish Passage Plan										20
4.5	SLOPES Compliance										24
4.6	Joint Permit Application (USACE/DSL)										28
4.7	Erosion and Sediment Control Plan										4
4.8	Cultural Resource Study										2
C4.9	Archaeological Shovel Testing (CONTINGENCY)										
	Total Task 4 Hours	0	0	0	0	0	0	0	0	0	128
	Total Task 4 Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,810.24
Task 5.0 Field Surveying											
5.1	Survey Research				2.00	12.00					
5.2	Survey Control				1.00	8.00	8.00	4.00	20.00	20.00	
5.3	Monument Recovery				8.00	60.00	16.00	60.00	50.00	50.00	
5.4	Topographic Data				2.00	8.00	8.00	24.00	30.00	30.00	
C5.5	Easement and ROW Acquisitions (CONTINGENCY)				4.00	32.00	4.00	32.00	20.00	20.00	
	Total Task 5 Hours	0	0	0	17	120	36	120	120	120	0
	Total Task 5 Cost	$ -	$ -	$ -	$ 4,223.99	$ 17,665.80	$ 3,800.52	$ 14,797.20	$ 13,620.00	$ 12,404.40	$ -
Task C6.0 Right-of-Way (CONTINGENCY)											
C6.1	Programming Cost Estimate/General Information Notices (CONTINGENCY)										
C6.2	Title Reports and Document Requests (CONTINGENCY)										
C6.3	Appraisals and Appraisal Review Coordination (CONTINGENCY)										
C6.4	Negotiation and Final Offer (CONTINGENCY)										
	Total Task 6 Hours	0	0	0	0	0	0	0	0	0	0
	Total Task 6 Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 7.0 Geotechnical Investigations/Analysis/Design											
7.1	Site Reconnaissance and Field Explorations										
7.2	Laboratory Testing										
7.3	Geotechnical Analysis and Design										
7.4	Geotechnical Report and Foundation Data Sheets										
7.5	Review of Geotechnical Related Plans and Specifications										
	Total Task 7 Hours	0	0	0	0	0	0	0	0	0	0
	Total Task 7 Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 8.0 Bridge Hydraulics, Stormwater/Surface Water Plan and Report											
8.1	Bridge Hydraulic Study										1
8.2	Stormwater Management Plan and Report										6
	Total Task 8 Hours	0	0	0	0	0	0	0	0	0	7
	Total Task 8 Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,138.66
Task 9.0 Reserved											
	Total Task 9 Hours	0	0	0	0	0	0	0	0	0	0
	Total Task 9 Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 10.0 Design											
10.1, 10.2, 10.4, and 10.6	Design	31		5							
C10.3, C10.5, C10.7, and C10.8	Consultant Designed Bridge (CONTINGENCY)	22		4							
	Total Task 10 Hours	53	0	9	0	0	0	0	0	0	0
	Total Task 10 Cost	$ 10,925.42	$ -	$ 745.38	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 13.0 Utility Coordination											
13.1	Utility Coordination										
	Total Task 13 Hours	0	0	0	0	0	0	0	0	0	0
	Total Task 13 Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 14.0 Bid Support											
14.0	Bid Support	6									
	Total Task 14 Hours	6	0	0	0	0	0	0	0	0	0
	Total Task 14 Cost	$ 1,236.84	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Subtotal (NON CONTINGENCY and CONTINGENCY)											
Subtotal CONTINGENCY											
Design Subtotal (NON CONTINGENCY AND CONTINGENCY)											
Design Subtotal (CONTINGENCY)											
Construction Subtotal (NON CONTINGENCY AND CONTINGENCY)											
Construction Subtotal (CONTINGENCY)											
Task XX.0 Extra Work as Authorized											
XX.0	Extra Work as Authorized										
	Total Task 13 Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Subtotal with Extra Work as Authorized											

PROJECT SUMMARY (Excluding Extra Work as Authorized)										
Total Project Hours	306.00	36.00	36.00	17.00	120.00	36.00	120.00	120.00	120.00	141.00
Total Salary Cost	$ 63,078.84	$ 4,944.84	$ 3,001.52	$ 4,223.99	$ 17,665.80	$ 3,800.52	$ 14,797.20	$ 13,620.00	$ 12,404.40	$ 22,923.78
Total Direct, Non-Labor Expenses Cost										
Total DEA Cost										

David Evans and Associates, Inc.
Engineering Construction Services for Bridge Replacement Gopher Valley Road Project

SUMMARY OF ESTIMATE FOR SERVICES
LABOR HOURS / COSTS BY TASK
Attachment A

David Evans and Associates, Inc.

		Environmental			Stormwater/Hydraulics			Utility Coordination	Civil Engineering	
	Billing Rate	$128.22	$147.24	$136.50	$193.25	$122.70	$131.90	$145.71	$106.14	$121.00
	Name/Classification	Valerie Thompson SCI1 (Scientist III)	Phil Rickus SCI4 (Scientist IV)	Melissa Fultz GIA4 (GIS Analyst IV)	Alaila Raskin ENG5 (Engineer V - Stormwater / Hydraulics Lead)	David Wright ENG3 (Engineer III - Stormwater / Hydraulics Designer)	Christine Benavidez DES2 (Designer II - Stormwater / Hydraulics Designer)	Chris Weber PJM1 (Project Manager I - Utility Coordination Lead)	Paul Teppana CIV4 (Construction Manager IV - Civil Engineering Lead)	David Filgenio CIN3 (Construction Inspector III - Civil Design / Construction Inspection)
Task 1.0 Project Management During Design										
	1.1 Project Management									
	Total Task 1 Hours	0	0	0	0		0	0	0	0
	Total Task 1 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -
Task 2.0 Public Involvement										
	2.0 Public Involvement								2.00	2.00
	Total Task 2 Hours	0	0	0	0		0	0	2	2
	Total Task 2 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ 392.28	$ 242.00
Task 3.0 Project Meetings										
	3.1 Project Meetings				7				8	7
	Total Task 3 Hours	0	0	0	7		0	0	8	7
	Total Task 3 Cost	$ -	$ -	$ -	$ 1,352.75		$ -	$ -	$ 1,569.12	$ 833.30
Task 4.0 Environmental Compliance/Permitting										
	4.1 Wetland/Waters Technical Memorandum	4	2	18						
	C4.2 Wetland Delineation Report (CONTINGENCY)	6	8	10						
	C4.3 Stream Functional Assessment Method (CONTINGENCY)	12	30	6						
	4.4 Fish Passage Plan	2		2						
	4.5 ELOPES Compliance	4								
	4.6 Joint Permit Application (USACE/DSL)	26		10						
	4.7 Erosion and Sediment Control Plan				4					4
	4.8 Cultural Resource Study									
	C4.9 Archaeological Shovel Testing (CONTINGENCY)									
	Total Task 4 Hours	54	40	46	4	0	0	0	0	4
	Total Task 4 Cost	$ 6,923.88	$ 5,889.60	$ 6,279.00	$ 773.00		$ -	$ -	$ -	$ 487.00
Task 5.0 Field Surveying										
	5.1 Survey Research									
	5.2 Survey Control									
	5.3 Monument Recovery									
	5.4 Topographic Data									
	C5.5 Easement and ROW Acquisitions (CONTINGENCY)									
	Total Task 5 Hours	0	0	0	0		0	0	0	0
	Total Task 5 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -
Task C6.0 Right-of-Way (CONTINGENCY)										
	C6.1 Programming Cost Estimate/General Information Notices (CONTINGENCY)									
	C6.2 Title Reports and Document Requests (CONTINGENCY)									
	C6.3 Appraisals and Appraisal Review Coordination (CONTINGENCY)									
	C6.4 Negotiation and Final Offer (CONTINGENCY)									
	Total Task 6 Hours	0	0	0	0		0	0	0	0
	Total Task 6 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -
Task 7.0 Geotechnical Investigations/Analysis/Design										
	7.1 Site Reconnaissance and Field Explorations									
	7.2 Laboratory Testing									
	7.3 Geotechnical Analysis and Design									
	7.4 Geotechnical Report and Foundation Data Sheets									
	7.5 Review of Geotechnical Related Plans and Specifications									
	Total Task 7 Hours	0	0	0	0		0	0	0	0
	Total Task 7 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -
Task 8.0 Bridge Hydraulics, Stormwater/Surface Water Plan and Report										
	8.1 Bridge Hydraulic Study				60	60				
	8.2 Stormwater Management Plan and Report				80	118	94			
	Total Task 8 Hours	0			140	178	94	0	0	0
	Total Task 8 Cost	$ -	$ -	$ -	$ 27,045.00	$ 21,840.60	$ 12,398.80	$ -	$ -	$ -
Task 9.0 Reserved										
	Total Task 9 Hours	0	0	0	0		0	0	0	0
	Total Task 9 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -
Task 10.0 Design										
	10.1, 10.2, 10.4, and 10.6 Design								32	270
	C10.3, C10.5, C10.7, and C10.8 Consultant Designed Bridge (CONTINGENCY)									
	Total Task 10 Hours	0	0	0	0	0	0	0	32	270
	Total Task 10 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ 6,276.48	$ 32,670.00
Task 13.0 Utility Coordination										
	13.1 Utility Coordination							34.0		
	Total Task 13 Hours	0	0	0	0		0	34	0	0
	Total Task 13 Cost	$ -	$ -	$ -	$ -		$ -	$ 4,954.14	$ -	$ -
Task 14.0 Bid Support										
	14.0 Bid Support								2	8
	Total Task 14 Hours	0	0	0	0		0	0	2	8
	Total Task 14 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ 392.28	$ 970.20
Subtotal (NON CONTINGENCY and CONTINGENCY)										
Subtotal CONTINGENCY										
Design Subtotal (NON CONTINGENCY AND CONTINGENCY)										
Design Subtotal (CONTINGENCY)										
Construction Subtotal (NON CONTINGENCY AND CONTINGENCY)										
Construction Subtotal (CONTINGENCY)										
Task XX.0 Extra Work as Authorized										
	XX.0 Extra Work as Authorized									
	Total Task 13 Cost	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -
Subtotal with Extra Work as Authorized										

PROJECT SUMMARY (Excluding Extra Work as Authorized)										
	Total Project Hours	54.00	40.00	46.00	151.00	178.00	94.00	34.00	44.00	291.00
	Total Salary Cost	$ 6,923.88	$ 5,889.60	$ 6,279.00	$ 29,190.75	$ 21,840.60	$ 12,398.80	$ 4,954.14	$ 8,630.16	$ 35,472.50
	Total Direct, Non-Labor Expenses Cost									
	Total DEA Cost									

Yamhill County Contract #

David Evans and Associates, Inc.
Engineering Construction Services for Bridge Replacement Gopher Valley Road Project

SUMMARY OF ESTIMATE FOR SERVICES
LABOR HOURS / COSTS BY TASK
Attachment A

David Evans and Associates, Inc.

				Bridge Engineering						Construction
	Billing Rate	$113.60	$148.59	$184.06	$110.57	$132.15	$174.85	$109.26	$119.63	$138.38	$123.52
	Name/Classification	Corey Spielman CAD4 (CADD Technician IV)	Cyndi Twite QAC3 (QA/QC Specialist (B) Specifications Writer	Josh Goodall ENG4 (Design Engineer)	Liam Kuzey ENG4 (Design Engineer)	Makenzie Elliot ENG3 (Design Engineer)	Anthony Calcagno ENG4 (Bridge Reviewer)	Jim Culpepper DES4 (Designer IV)	Cory Schreiner CAD4 (CADD Technician IV)	Dustin Altenburg CAD5 (CADD Technician V)	Eric Eatherly CSI42 (Construction Manager II - QA/Construction PM)
Task 1.0 Project Management During Design											
1.1 Project Management											
Total Task 1 Hours		0	0	0	0	0	0	0	0	0	0
Total Task 1 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 2.0 Public Involvement											
2.0 Public Involvement										4.00	
Total Task 2 Hours		0	0	0	0	0	0	0	0	4	0
Total Task 2 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 553.12	$ -
Task 3.0 Project Meetings											
3.1 Project Meetings						7					6
Total Task 3 Hours		0	0	0	0	7	0	0	0	0	6
Total Task 3 Cost		$ -	$ -	$ -	$ -	$ 923.05	$ -	$ -	$ -	$ -	$ 833.12
Task 4.0 Environmental Compliance/Permitting											
4.1 Wetland/Waters Technical Memorandum											
C4.2 Wetland Delineation Report (CONTINGENCY)											
C4.3 Stream Functional Assessment Method (CONTINGENCY)											
4.4 Fish Passage Plan											
4.5 SLOPES Compliance										6	
4.6 Joint Permit Application (USACE/DSL)										6	
4.7 Erosion and Sediment Control Plan											
4.8 Cultural Resource Study											
C4.9 Archaeological Shovel Testing (CONTINGENCY)											
Total Task 4 Hours		0	0	0	0	0	0	0	0	12	0
Total Task 4 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,658.36	$ -
Task 5.0 Field Surveying											
5.1 Survey Research											
5.2 Survey Control											
5.3 Monument Recovery											
5.4 Topographic Data											
C5.5 Easement and ROW Acquisitions (CONTINGENCY)											
Total Task 5 Hours		0	0	0	0	0	0	0	0	0	0
Total Task 5 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task C6.0 Right-of-Way (CONTINGENCY)											
C6.1 Programming Cost Estimate/General Information Notices (CONTINGENCY)											
C6.2 Title Reports and Document Requests (CONTINGENCY)											
C6.3 Appraisals and Appraisal Review Coordination (CONTINGENCY)											
C6.4 Negotiation and First Offer (CONTINGENCY)											
Total Task 6 Hours		0	0	0	0	0	0	0	0	0	0
Total Task 6 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 7.0 Geotechnical Investigations/Analysis/Design											
7.1 Site Reconnaissance and Field Explorations											
7.2 Laboratory Testing											
7.3 Geotechnical Analysis and Design											
7.4 Geotechnical Report and Foundation Data Sheets											
7.5 Review of Geotechnical Related Plans and Specifications											
Total Task 7 Hours		0	0	0	0	0	0	0	0	0	0
Total Task 7 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 8.0 Bridge Hydraulics, Stormwater/Surface Water Plan and Report											
8.1 Bridge Hydraulic Study											
8.2 Stormwater/Management Plan and Report											
Total Task 8 Hours		0	0	0	0	0	0	0	0	0	0
Total Task 8 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 9.0 Reserved											
Total Task 9 Hours		0	0	0	0	0	0	0	0	0	0
Total Task 9 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 10.0 Design											
10.1, 10.2, 10.4, and 10.6 Design		100	40	59	27	74	19	11	70		11
C10.3, C10.5, C10.7, and C10.8 Consultant Designed Bridge (CONTINGENCY)				96	36	89	18	14	81		14
Total Task 10 Hours		100	40	155	63	163	37	25	151	0	25
Total Task 10 Cost		$ 11,360.00	$ 5,943.60	$ 28,527.75	$ 7,943.91	$ 21,548.45	$ 6,469.45	$ 4,231.50	$ 18,064.13	$ -	$ 3,088.00
Task 13.0 Utility Coordination											
13.1 Utility Coordination											
Total Task 13 Hours		0	0	0	0	0	0	0	0	0	0
Total Task 13 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 14.0 Bid Support											
14.0 Bid Support		4	2			6					8
Total Task 14 Hours		4	2	0	0	6	0	0	0	0	8
Total Task 14 Cost		$ 455.20	$ 297.18	$ -	$ -	$ 792.90	$ -	$ -	$ -	$ -	$ 833.12
Subtotal (NON CONTINGENCY and CONTINGENCY)											
Subtotal CONTINGENCY											
Design Subtotal (NON CONTINGENCY AND CONTINGENCY)											
Design Subtotal (CONTINGENCY)											
Construction Subtotal (NON CONTINGENCY AND CONTINGENCY)											
Construction Subtotal (CONTINGENCY)											
Task XX.0 Extra Work as Authorized											
XX.0 Extra Work as Authorized											
Total Task 13 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Subtotal with Extra Work as Authorized											

PROJECT SUMMARY (Excluding Extra Work as Authorized)											
Total Project Hours	104.00	42.00	155.00	63.00	176.00	37.00	25.00	151.00	16.00	37.00	
Total Salary Cost	$ 11,815.20	$ 6,240.78	$ 28,527.75	$ 7,943.91	$ 23,358.48	$ 6,469.45	$ 4,231.50	$ 18,064.13	$ 2,212.48	$ 3,754.24	
Total Direct, Non-Labor Expenses Cost											
Total DEA Cost											

Yamhill County Contract #

David Evans and Associates, Inc.
Engineering Construction Services for Bridge Replacement Gopher Valley Road Project

SUMMARY OF ESTIMATE FOR SERVICES
LABOR HOURS / COSTS BY TASK
Attachment A

David Evans and Associates, Inc.

	Name/Classification	Billing Rate / Total Hours	DEA Staff Total	DEA Expenses	DEA Total	LABOR ONLY: Epic Land Solutions, Inc.	Ahlstrom & Wilson, Inc.	AHW	Subconsultant Expenses	Task Total
Task 1.0	Project Management During Design									
	1.1 Project Management	257.0	$ 46,573.84	$ -	$ 46,573.84	$ -	$ -	$ -	$ -	$ 46,573.84
	Total Task 1 Hours									
	Total Task 1 Cost		$ 46,573.84	$ -	$ 46,573.84	$ -	$ -	$ -	$ -	$ 46,573.84
Task 2.0	Public Involvement									
	2.0 Public Involvement	12.0	$ 2,013.76	$ -	$ 2,013.76	$ -	$ -	$ -	$ -	$ 2,013.76
	Total Task 2 Hours									
	Total Task 2 Cost		$ 2,013.76	$ -	$ 2,013.76	$ -	$ -	$ -	$ -	$ 2,013.76
Task 3.0	Project Meetings									
	3.1 Project Meetings	90.0	$ 16,700.68	$333.76	$ 17,093.44	$ -	$ 1,170.00	$ -	$ 84.33	$ 18,327.79
	Total Task 3 Hours									
	Total Task 3 Cost		$ 16,700.68	$ 393.76	$ 17,093.44	$ -	$ 1,170.00	$ -	$ 84.33	$ 18,327.79
Task 4.0	Environmental Compliance/Permitting									
	4.1 Wetland/Waters Technical Memorandum	52.0	$ 7,816.00	$ 115.00	$ 7,931.00	$ -	$ -	$ -	$ -	$ 7,931.00
	C4.2 Wetland Delineation Report (CONTINGENCY)	40.0	$ 5,013.52	$ 500.00	$ 5,413.52	$ -	$ -	$ -	$ -	$ 5,413.52
	C4.3 Stream Functional Assessment Method (CONTINGENCY)	56.0	$ 6,070.48	$ 100.00	$ 6,150.48	$ -	$ -	$ -	$ -	$ 6,170.48
	4.4 Fish Passage Plan	24.0	$ 3,781.04	$ -	$ 3,781.04	$ -	$ -	$ -	$ -	$ 3,781.04
	4.5 SLOPES Compliance	54.0	$ 5,344.48	$ 62.00	$ 5,336.48	$ -	$ -	$ -	$ -	$ 5,336.48
	4.6 Joint Permit Application (USACE/DSL)	68.0	$ 9,755.48	$ 1,870.00	$ 11,625.48	$ -	$ -	$ -	$ -	$ 11,625.48
	4.7 Erosion and Sediment Control Plan	12.0	$ 1,810.92	$ -	$ 1,810.92	$ -	$ -	$ -	$ -	$ 1,810.92
	4.8 Cultural Resource Study	2.0	$ 325.18	$ -	$ 325.18	$ -	$ -	$ 21,413.42	$ 175.50	$ 21,914.09
	C4.9 Archaeological Shovel Testing (CONTINGENCY)	0.0	$ -	$ -	$ -	$ -	$ -	$ 18,936.02	$ 907.25	$ 19,843.27
	Total Task 4 Hours									
	Total Task 4 Cost		$ 47,870.68	$ 2,680.00	$ 45,504.68	$ -	$ -	$ 37,351.44	$ 1,082.75	$ 83,938.87
Task 5.0	Field Surveying									
	5.1 Survey Research	14.0	$ 2,263.82	$ -	$ 2,263.82	$ -	$ -	$ -	$ -	$ 2,263.82
	5.2 Survey Control	61.0	$ 7,101.59	$ 300.00	$ 7,401.59	$ -	$ -	$ -	$ -	$ 7,401.59
	5.3 Monument Recovery	244.0	$ 30,753.38	$ 900.00	$ 31,653.38	$ -	$ -	$ -	$ -	$ 31,653.38
	5.4 Topographic Data	102.0	$ 11,884.06	$ 300.00	$ 12,284.06	$ -	$ -	$ -	$ -	$ 12,284.06
	C5.5 Easement and ROW Acquisitions (CONTINGENCY)	112.0	$ 14,411.18		$ 14,411.18	$ -	$ -	$ -	$ -	$ 14,411.18
	Total Task 5 Hours									
	Total Task 5 Cost		$ 66,514.91	$ 1,500.00	$ 68,014.91	$ -	$ -	$ -	$ -	$ 68,014.91
Task C6.0	Right-of-Way (CONTINGENCY)									
	C6.1 Programming Cost Estimate/General Information Notices (CONTINGENCY)	0.0	$ -	$ -	$ -	$ 3,453.00	$ -	$ -	$ 660.00	$ 4,125.00
	C6.2 Title Reports and Document Requests (CONTINGENCY)	0.0	$ -	$ -	$ -	$ 1,785.00	$ -	$ -	$ 1,400.00	$ 3,185.00
	C6.3 Appraisals and Appraisal Review Coordination (CONTINGENCY)	0.0	$ -	$ -	$ -	$ 1,870.00	$ -	$ -	$ 21,000.00	$ 23,870.00
	C6.4 Negotiation and Final Offer (CONTINGENCY)	0.0	$ -	$ -	$ -	$ 15,575.00	$ -	$ -	$ 100.95	$ 15,675.95
	Total Task 6 Hours									
	Total Task 6 Cost		$ -	$ -	$ -	$ 22,705.00	$ -	$ -	$ 23,160.95	$ 45,865.95
Task 7.0	Geotechnical Investigations/Analysis/Design									
	7.1 Site Reconnaissance and Field Explorations	0.0	$ -	$ -	$ -	$ -	$ 5,920.00	$ -	$ 6,658.05	$ 12,578.05
	7.2 Laboratory Testing	0.0	$ -	$ -	$ -	$ -	$ 220.00	$ -	$ 3,753.75	$ 3,973.75
	7.3 Geotechnical Analysis and Design	0.0	$ -	$ -	$ -	$ -	$ 10,010.00	$ -	$ -	$ 10,010.00
	7.4 Geotechnical Report and Foundation Data Sheets	0.0	$ -	$ -	$ -	$ -	$ 13,210.00	$ -	$ -	$ 13,210.00
	7.5 Review of Geotechnical Related Plans and Specifications	0.0	$ -	$ -	$ -	$ -	$ 1,170.00	$ -	$ -	$ 1,170.00
	Total Task 7 Hours									
	Total Task 7 Cost		$ -	$ -	$ -	$ -	$ 30,530.00	$ -	$ 10,411.80	$ 40,941.80
Task 8.0	Bridge Hydraulics, Stormwater/Surface Water Plan and Report									
	8.1 Bridge Hydraulic Study	121.0	$ 19,119.58	$ -	$ 19,119.58	$ -	$ -	$ -	$ -	$ 19,119.58
	8.2 Stormwater Management Plan and Report	268.0	$ 43,312.68	$ -	$ 43,312.68	$ -	$ -	$ -	$ -	$ 43,312.68
	Total Task 8 Hours									
	Total Task 8 Cost		$ 62,432.26	$ -	$ 62,432.26	$ -	$ -	$ -	$ -	$ 62,432.26
Task 9.0	Reserved									
	Total Task 9 Hours									
	Total Task 9 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 10.0	Design									
	10.1, 10.2, 10.4, and 10.6 Design	779.0	$ 107,893.29	$ 268.00	$ 108,161.29	$ -	$ -	$ -	$ -	$ 108,161.29
	C10.3, C10.5, C10.7, and C10.8 Consultant Designed Bridge (CONTINGENCY)	344.0	$ 50,355.78		$ 50,355.78	$ -	$ -	$ -	$ -	$ 50,355.78
	Total Task 10 Hours									
	Total Task 10 Cost		$ 158,249.07	$ 268.00	$ 158,517.07	$ -	$ -	$ -	$ -	$ 158,517.07
Task 13.0	Utility Coordination									
	13.1 Utility Coordination	34.0	$ 4,854.14	$ -	$ 4,854.14	$ -	$ -	$ -	$ -	$ 4,854.14
	Total Task 13 Hours									
	Total Task 13 Cost		$ 4,854.14	$ -	$ 4,854.14	$ -	$ -	$ -	$ -	$ 4,854.14
Task 14.0	Bid Support									
	14.0 Bid Support	34.0	$ 5,083.72	$ -	$ 5,083.72	$ -	$ -	$ -	$ -	$ 5,083.72
	Total Task 14 Hours									
	Total Task 14 Cost		$ 5,083.72	$ -	$ 5,083.72	$ -	$ -	$ -	$ -	$ 5,083.72
Subtotal (NON CONTINGENCY and CONTINGENCY)		2799.0	$ 405,513.16	$ 4,833.76	$ 410,196.92	$ 22,705.00	$ 31,700.00	$ 37,351.44	$ 37,719.85	$ 538,983.21
Subtotal CONTINGENCY		552.0	$ 78,753.84	$ 600.00	$ 78,300.84	$ 22,705.00	$ -	$ 16,936.02	$ 27,008.20	$ 145,970.16
Design Subtotal (NON CONTINGENCY AND CONTINGENCY)										$ 538,983.21
Design Subtotal (CONTINGENCY)										$ 145,970.16
Construction Subtotal (NON CONTINGENCY AND CONTINGENCY)										$ -
Construction Subtotal (CONTINGENCY)										$ -
Task XX.0	Extra Work as Authorized									
	XX.0 Extra Work as Authorized		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Total Task 15 Cost		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Subtotal with Extra Work as Authorized			$ 405,513.16	$ 4,833.76	$ 410,196.92	$ 22,705.00	$ 31,700.00	$ 37,351.44	$ 37,719.85	$ 538,983.21

PROJECT SUMMARY (Excluding Extra Work as Authorized)	Totals
Total Project Hours	2,799.00
Total Salary Cost	$ 405,513.16
Total Direct, Non-Labor Expenses Cost	$ 4,833.76
Total DEA Cost	$ 410,196.92

Award Request with all Contingencies

B.O. 22-168
Exhibit "A"
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