WATERWAYS CONSULTING, INC.

Ecological Restoration Design ~ Civil Engineering ~ Natural Resource Management

January 21, 2025

Becky Bucar
Town of Truckee
10183 Truckee Airport Road
Truckee, CA 96161

Exhibit A: Scope of Services, Project No. 08-663L, **Trout Creek Restoration – Reach 1 Phase 2 - Design Services through 65%**

Ms. Bucar,

Thank you for your interest in our services. Per your request, we prepared the following Scope of Services and attached Budget (Exhibit B) to provide design consultation and construction phase services in support of the above referenced project. If the scope and budget meet your approval and you wish to proceed, please contact us to discuss preparation of an agreement to authorize our work.

PROJECT UNDERSTANDING

The Trout Creek Restoration Project encompasses 6 reaches, extending from the Highway 80 crossing to the Truckee River. Restoration work has been implemented throughout most of the restoration area including a portion of Reach 1 and all of Reaches 2 through 5. Engineering designs were previously developed for most of Reach 1 but only a portion was constructed due to a lack of easements through a portion of the reach and the high cost of replacing both the Jibboom and School Street crossing. Given the Town's commitment to achieving 100-year flood protection throughout the entire restoration area, the Town would like to move forward with designs with the goal of producing final bid documents and bid the remaining portion of the project. This area, referred to as Reach 1B, extends from the pocket park at Jibboom Street to the second parcel east of the School Street crossing where the former project ended. Given that over ten years have passed since the original design was developed there have been improvements and changes made in the project area. Furthermore, requirements associated with the crossings and road improvements have changed including the need for sidewalks and bike lanes which have the potential to impact the original design through changes in the size and alignment of the various project elements. These changes will need to be evaluated within the hydraulic model to ensure that 100-year flood protection is being obtained and additional survey data will need to be collected to update to the current baseline conditions. In addition, the Town would like the bid documents to be prepared such that the project may be constructed in two phases if necessary. One phase would be the School Street crossing portion and the other phase would be the Jibboom Street crossing portion.

Given unknowns about grant funding and how the project will be phased, the initial phase of the design will focus on preparation of the 65% engineering drawings, cost estimate, and preparation of an updated Basis of Design Report. These products would support preparation of regulatory permits, which would be prepared by others, and grant funding applications. Tasks

associated with the final design and construction phase services will be contracted under a separate agreement or amendment.

SCOPE OF SERVICES

Based on our project understanding, we intend to provide the following services:

Task 1 - Project Management, Coordination, and Meetings

The task 1 budget covers time spent performing project management and administration duties, including correspondence, coordination, and documentation directly related to our performance of the work. This task effort includes coordination of sub consultants and preparation of sub consultant agreements, invoices, and other related administration.

Deliverables: Meeting Notes and Monthly Invoices (.pdf)

Task 2 - Revised Engineering Drawings and BOD Report (Permit Set - Single Phase)

Prior to any work being conducted, the survey subconsultant (Sage) will update the basemap to reflect current site conditions and provide property boundaries, as necessary, to support the project. Waterways will utilize this information, in coordination with Acumen and the Town, to update the site layout and the alignment of the restored creek corridor to achieve both the channel restoration and the 100-year flood capacity objective. This effort will be run in parallel with updates to the hydraulic model to ensure that the project will ultimately be able to convey the 100-year flood and submit a Letter of Map Revision for all of Reach 1 that confines the Zone AE limits to the creek channel. This may require an iterative design process to ensure that all of the development requirements, habitat uplift, flood protection, and utility protection objectives are being met. We anticipate that the design will proceed in the following steps:

- Step 1: Site visit and coordination with the Town and Design Team to update the channel and road alignment and determine the appropriate crossing footprints to accommodate the updated Town standards that would include adding sidewalks and bike lanes. A schematic layout of the whole project and the two potential phases will be developed to support an initial phase of hydraulic modeling (see Task 3) to evaluate changes to the 100-year floodplain and ensure that 100-year flood protection is achieved under the whole project scenario. Base information used in this initial analysis will include the Town aerial photo, existing topography, and LIDAR.
- Step 2: Updated survey and basemap to support development of a draft 65% design
- Step 3: Final 65% design that would complete this phase of the design process and pause to better understand potential project phasing, grant funding, and submittal of permit applications (by others).

Acumen will coordinate with TDPUD Electric, AT&T, Optimum, parcel owners and others as necessary to underground the power in the project area and remove the utility poles along Church Street, School Street and E Street. On E Street, the overhead utilities will be undergrounded to the existing service connection on the structures, where possible. Many existing utility poles also have streetlights that provide lighting to the area. Acumen will coordinate with the Town, property owners and residents to determine which poles with

streetlights may remain or may be replaced with other lighting. Acumen will utilize rectified aerial images provided by the Town to show the location of the utility undergrounding.
It is anticipated approximately twelve structures within the project area may require additional equipment near the existing service entrance to convert overhead power to underground power. We have contracted with JP Engineering to perform the electrical design for this work. See attached scope of work from JP Engineering.

Approximately three structures are commercial structures and will require easement figures for the underground utility trenches to the structure. Acumen will coordinate the easements with the utility providers and provide the limits and location of the easements to Sage for legal descriptions. The scope also includes coordination with SW Gas to provide service and facilitate easements for the parcel on the corner of E Street and School Street. Dry Utility plan sheets, specifications, and cost estimates will be developed for permit level submittal.
With the removal of utility poles; the revised configuration of the creek; revisions to the crossings of Jibboom Street and School Street; and property boundary information provided by Sage, the proposed geometry will need to be updated. The Jibboom and School Street crossings are proposed to be wider than the original design to include bike lanes and sidewalks. The removal of the utility pole and placement of a pad mounted transformer at the Recreation Center will require redesign of the parking lot layout for more efficient parking. The removal of utility poles in head-in parking areas may also require redesign of head-in parking areas. In addition, signing and striping within the project area will be reviewed to accommodate these changes and update existing signs to current standards as necessary. Acumen will utilize the existing survey, supplemented with the additional survey to be provided by Sage and rectified aerial images as a basis to perform the work. AutoCAD geometry layout; Signing and Striping plan sheets, specifications and cost estimate will be developed for permit level submittals.

The outcome of the first stage of the design will be a permit-level drawing set that will include the Trout Creek improvements, crossings, transportation layout, and all utilities. The permit-level (65%) drawings will be sufficiently accurate and complete to determine project layout, impacts, opportunities, constraints and quantities. The 65% cost estimate will be in a format that represents the anticipated final bid form, with recommended units of measurement specified for individual work items. A more detailed structural design is anticipated to be developed for the Jibboom crossing since it is not expected to be a pre-cast structure. The design for the School Street crossing will include the civil layout but will ultimately rely on structural design from the manufacturer and/or contractor based on a performance specification that will be developed in the 90% design phase and included in the bid documents. NV5 will be involved in the geotechnical support for the project based on previous assessments. Their role in the 65% design phase will be to review past reports and provide an updates, as needed with the bulk of their effort occurring in later design phases associated with final design elements and preparation of technical specifications.

In addition to the engineering designs, a Basis of Design Report will be provided to outline the approach, calculations and results and to provide a detailed narrative to support the permit applications.

Deliverables: 65% design drawings (.pdf), cost estimate (.pdf and .xlsx), and Basis of Design Report (.pdf and .doc).

Task 3 –Hydraulic Analysis

A key objective of the project is to confine the 100-year flood event to the restored channel and ultimately revise the FEMA flood mapping, via a Letter of Map Revision, to remove adjacent structures from the regulated floodplain. In addition, hydraulic modeling would be used to support the design process and determine substrate sizing and appropriate parameters to identify potential erosion risks. Existing hydrology, used in previous project phases and as part of downstream LOMR's will be used for Reach 1. Existing models, where appropriate, will also be used. We anticipate this task will consist of two primary steps:

1) Step 1: Evaluate flood capacity in parallel with revisions to the engineering design to ensure 100-year flood protection through all of Reach 1. This portion of the task would be completed prior to full development of the 65% engineering drawings. A brief memorandum would be prepared summarizing the approach and verifying that 100-year flood protection would be achieved. Following review and approval from the Town the project team would move forward with preparation of the 65% designs.
2) Step 2: Use of the model to support all remaining phases of the design. The results of the modeling would be incorporated into the Basis of Design Report

Our scope of services does not currently include preparation of a no-rise analysis, CLOMR, or other reporting to FEMA. We anticipate that these services will be provided following implementation of the project under a separate contract.

Task 4 – Permit and Grant Application Support

Our scope assumes the Client will take the lead in permitting the project and that Waterways' role will be to provide technical support at the Client's request. Permit support services typically include participation in permit-related meetings or conference calls, preparation of written responses to agency comments, or preparation and submittal of calculations or figures required to support permit applications. Our budget estimate for this task is based on our experience with similar projects in this area. Actual costs will be dependent on the level of assistance requested by the Client and may exceed our budget estimate. These services will be performed on a time and materials basis, at the request of the Client up to the level of effort estimated in our attached budget.

SCHEDULE

Step 1	**Timeline**
Initial Lay-out Discussion	Late February
Meeting and Site Walk (weather dependent)	Early March
Schematic Layout (includes whole project and phased implementation)	Mid-March
Preliminary Hydraulic Modeling and Memo	Mid to late March
Title Reports and Boundary Research	February through May
Step 2	
Topographic and Boundary Survey (weather dependent)	May or June
Basemap Development	June
Step 3	

Draft 65% Design, Cost Estimate, and Draft BOD	Early August
Final 65% Design, Cost Estimate, and BOD	Mid-September

OPTIONAL FUTURE TASK ITEMS

Task 5 – Draft and Final Plans, Specifications, and Estimates – 2 Phases

Task 5.1 - 90% Plans, Specifications, and Estimates – 2 Phases

The 90% drawings will be close to completion, including details, and will incorporate Client and agency comments made on the 65% drawings. The 90% cost estimate will be in a format that represents the bid items and will accurately reflect the design. The 90% specifications will include all technical specifications for the project, provided in CSI format. The 90% Drawings will include the following:

- Title Sheet and Location Map
- Existing site topography
- Proposed Site Improvements & Grading Plan
- Typical cross sections
- Quantities & materials
- Limits of disturbance
- Technical Specifications for materials and placement (to be included on plans)
- Typical details for key project features
- Dewatering plan (as necessary)
- Site access and construction phasing plan
- Erosion Control and Construction BMP's

Deliverables:

- *Design drawings (.pdf)*
- *Cost Estimate (.pdf and .xlsx)*
- *Technical specifications (.pdf & MSWord)*

Task 5.2 - 100% Plans, Specifications, and Estimates – 2 Phases

Waterways will review comments received from the Project Team, the permitting agencies, and other project stakeholders on the 90% Drawings and will incorporate revisions into the 100% plans, where appropriate. The 100% Plans will be at a suitable level to competitively bid and construct the project.

Deliverables:

- *Design drawings: (.pdf)*
- *Cost Estimate: (.pdf and .xlsx), and*
- *Technical specifications: (.pdf & MSWord)*

Task 6 –Preparation of SWPPP

Waterways will prepare a SWPPP for the proposed work, in compliance with the requirements of the State Water Resources Control Board NPDES General Permit No. CAS000002 for stormwater discharges associated with construction activity. The SWPPP will be prepared, wet stamped and signed by a qualified civil engineer and Qualified SWPPP Developer (QSD). The SWPPP will be uploaded to the Storm Water Multiple Application and Report Tracking System (SMARTS) database for review by the Regional Water Quality Control Board (RWQCB). Issuance of a Waste Discharge Identification (WDID) number will occur following review and approval of the SWPPP by the RWQCB and payment of the SWPPP fees by the Legally Responsible Party (LRP). The LRP will be designated by the Client. The SWPPP will be finalized after selection of a Contractor, as part of the QSD Responsibilities during Construction as outlined in Task 5 below. Our budget does not include General Permit fees, or construction phase services of the Qualified SWPPP Practitioner (QSP) in support of the SWPPP implementation.

Task 7 - Assistance with Bid Process

Waterways, Acumen, and other team members, as appropriate, will be available to review bids, respond to RFIs, or assist in the selection of qualified contractors. The exact time requirements will be dependent on the project delivery mode selected by Client. Our budget assumption is based on past experience with similar projects. The consultant ream will be available on a time and materials basis for services outside this budget and directly requested by the Client.

Task 8 - Construction Phase Services

Waterways, Acumen, and other team members, as appropriate, will attend one pre-construction meeting with the Contractor and will attend up to two construction site meetings (in addition to scheduled observations) as requested by the Client. Preparation of meeting agendas, minutes and coordination will be performed by the Client, if determined necessary. Our budget assumes that the entire project will be id and constructed as a single phase. If additional project phases occur the work outlined under Tasks 7, 8, and 9 will be performed under a separate contract.

<u>Construction Observation</u>

The project budget assumes that construction will last approximately 3 months and that the Town will act as the on-site construction manager and inspector with Waterways, Acumen, and other team members observing at key project points but not overseeing the project continuously. Daily photo logs and site journals will be prepared to document progress and verify requests for payment.

The Project Team will:

- Visit the site at key milestones to review the quality of work and compliance with the plans and specifications
- Reject work that does not conform to the requirements of the contract documents
- Provide plan clarification and responses to Requests for Information (RFI's) throughout the construction period as requested by the Client
- Observe tests
- Issue supplemental instructions or field orders

- Review RFIs, Potential Change Orders (PCOs) and Change Orders (COs) and make recommendations to the Client, as requested
- Review submittals and shop drawings and provide written approval, rejection, or correction directives
- Review proposed substitutions for conformance with drawings and technical specifications, if any
- Conduct (1) one pre-final acceptance/start of maintenance walk-through and assist the Client in preparing a punch list, if necessary
- Review Contractor close-out documents, such as "As-Builts", warranties, equipment manuals, and anything else required for final acceptance
- Assist the Client with project close-out and Notice of Completion

The Project Team will not:

- Authorize deviations from the contract documents without Client approval
- Personally conduct tests or confirm Contractor's adherence to line and/or grade
- Assume any of the Contractor's responsibilities, including the proper establishment of line and grade.
- Advise on construction means, methods, or techniques.
- Approve substitute materials without Client's review and approval
- Expedite the work of the Contractor without consulting with the Client
- Certify record drawings
- Reject work authorized by the Client
- Issue work change directives, except in case of emergency
- Approve change orders
- Stop work

Special Inspections will be ordered, scheduled, and contracted directly by the Contractor or the Client. The Contractor shall be responsible for permit compliance. Payment requests shall be submitted directly to the Client. The Project Team will be available to assist in determining percentage of work completed in response to payment requests, at the request of the Client. Field inspections and/or the provision of construction stakes do not relieve the Contractor of their sole responsibility for establishing accurate constructed lines and grades, as specified.

Client agrees that in accordance with generally accepted construction practices, the construction contractor and construction subcontractors will be required to assume sole and complete responsibility for job site conditions during construction of the project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. Neither the professional activities of Waterways nor the presence of Waterways employees or sub consultants at a construction site shall relieve the contractor and it subcontractors of their responsibilities including, not limited to, construction means, methods, sequence, techniques or procedures necessary for performing, superintending or coordinating all portions of the work of construction in accordance with the contract documents and applicable health or safety requirements of any regulatory agency or of state law.

The Project Team is not responsible for: continuous inspection or supervision, construction means and methods, project site safety, or contractor's failure to perform. The Project Team is

not authorized to stop the work of the Contractor or to approve changes to the designs. The Project Team may make recommendations during construction, based on unforeseen conditions that could result in Owner-approved changes to the work as shown on the permitted design documents. If such changes are approved by the Owner and implemented by the Contractor, the Project Team makes no guaranty that modifications will be acted upon favorably by any governmental agency.

Task 9 - Record Drawings

Record drawings will be prepared from contractor markups of the drawings showing changes during construction. A draft of the record drawings will be sent to the Town and the contractor for verification and to confirm there are no other construction changes to note. Once the changes have been verified, the drawings will be sent to the utilities for their input and confirmation. When all changes have been verified, the AutoCAD drawings will be modified and the AutoCAD record drawing files and electronic record drawing pdf files will be transmitted to the Town. In addition, the record drawing package will include any relevant GIS files, prepared by the Project Team. These files will be compatible with ArcGIS and meet the FGDC (Federal Geographic Data Committee) CSDGM (Content Standard for Digital Geospatial Metadata) standard.

At the completion of construction, Waterways will prepare a project completion letter for submittal to the Town that will include input and signatures from the appropriate subconsultants. The letter will document our construction observations and the degree to which the completed project conforms to with the plans and specifications. The completion letter will not include geotechnical engineering observations and conclusions. A separate letter from the geotechnical engineer may be required and is not included in our scope of services.

Deliverables: Record survey and associated GIS files in digital format (.pdf and .dwg); Signed project completion letter (.pdf)

PROPOSED COST

Refer to attached Exhibit B for a detailed breakdown of our anticipated budget. We will not exceed this estimate without prior written approval of the Client. The estimated budget is valid for a period of 180 days beyond the date of this proposal.

Costs have been allocated to individual tasks to determine the total estimated budget. Waterways may reallocate costs among tasks, as needed, provided the total price is not exceeded for the scope of work proposed, without previous written authorization from the Client.

Our fees for construction phase services will be billed on a time and materials basis in accordance with the attached Schedule of Fees, and will reflect the actual work and costs incurred, as dictated by the project requirements. Our fees are highly dependent on the Contractor's schedule and performance, which are beyond our control.

Printed and/or wet-signed copies of design documents will be prepared at Client's request and billed at our standard rates (Attached).

ADDITIONAL SERVICES

Waterways shall be available for additional services on a time and materials basis, at our prevailing rates. Additional services are defined as those that are not specifically identified under the scope of proposed services or those that are required as a result of unforeseen circumstances that arise during the permitting process. Examples "additional services" may include:

- Services beyond the scope of services in the agreement.
- Services which need to be provided beyond the time schedule set forth in the agreement.
- Services required as a result Client providing incomplete or incorrect project information.
- Services related to redesigning documents or rebidding contracts due to no fault of Engineer.
- Services related to revising drawings and specifications occasioned by substituting materials or equipment.
- Reproduction of reports drawings, and specifications, except as provided under scope of services.
- Providing renderings or models.
- Additional or extended services made necessary by defective, negligent, or delayed work by prime contractors or others.
- Additional or extended services during construction made necessary by the acceleration of the progress schedule involving services beyond normal working hours.
- Evaluation of claims or providing testimony in connection with a hearing, arbitration, or litigation.

We look forward to assisting you with your project. If you have any questions, please contact me at 503-227-5979.

Sincerely,

John Dvorsky
Principal Scientist/Owner
Waterways Consulting, Inc.

LIMITATIONS & EXCLUSIONS

1. Waterways shall not be held responsible for the accuracy of existing mapping or data collection performed by others and made available by the Client. If existing products made available by others are found to be inaccurate or incomplete, during the process of our work, our budget, scope, and/or schedule shall be adjusted to account for unexpected expenses or delays incurred because of these deficiencies.

2. Waterways Consulting does not provide boundary surveying services. Our scope of services excludes boundary surveying, unless otherwise stated in the scope and budget. When these services are offered by Waterways, it is through a Subconsultant, and will be explicitly identified as such.

3. The scope of work does not include a "line of sight" study, unless specifically included as a task item.

4. Schedules, Budgets, and Estimates of Cost: Any schedules or completion dates, budgets, or estimates of cost prepared by Waterways represent Waterways' professional judgment based on its experience and available information. Since neither Waterways nor Client has control over the cost of labor, materials, or equipment, or contractor's methods of determining prices, or over competitive bidding, permit requirements, or market conditions, Waterways cannot and does not warrant or represent that actual schedules or completion dates or actual costs will not vary from schedules or completion dates, budgets, or estimates of cost prepared by Waterways or proposed, established, or approved by Client.

5. If the scopes of services to be provided by Waterways pursuant to the terms of this agreement includes the preparation of grading drawings but excludes construction staking services, Client acknowledges that such staking services normally include coordinating civil engineering services and the preparation of record drawings based upon information provided by others, and Client will be required to retain such services from another consultant or pay Waterways for such services pursuant to this agreement.

6. If the scope of services includes Waterways' assistance in applying for governmental permits or approvals, this work does not include the preparation of additional studies or analysis requested by governmental agencies and not specifically included in our scope (e.g., archeological investigations, wetland delineations, geologic studies, etc.). Waterways' assistance with permit preparation and/or submittal will not constitute a representation, warranty, or guarantee that such permits or approvals will be acted upon favorably by any governmental agency.

7. Waterways makes no representations concerning soils or geological conditions unless specifically included in writing in this agreement, or by amendments to this agreement, and will not be responsible for any liability that may arise out of performing or failure to perform soils or geological surveys, subsurface soils or geological tests, or general soils or geological testing.

8. The Client acknowledges that the design services performed pursuant to this agreement are based upon field and other conditions existing at the time these services were performed. Client further acknowledges that field and other conditions may change by the time project construction occurs and clarification, adjustments, modifications, and other changes shall be paid for by Client as extra services in accordance with the agreement.

9. Waterways does not provide geotechnical engineering services. If required, these services will be provided by subcontractors and clearly identified in our scope and budget. If required and not included herein, they may be requested under an amended scope of services.

10. If the scope of services includes Waterways' assistance in developing designs to place large woody debris within a waterway capable of mobilizing these materials, Client acknowledges that these materials have the potential to be relocated by large floods, even when constructed with mechanical anchoring devices, such as cable or chain. Client acknowledges that placing a buoyant structure in a dynamic environment may result in failure of the structure, for reasons beyond the control of the engineer.

ASSUMPTIONS

1. Client is aware that differences may exist between the electronic files delivered and the printed hard copy construction documents. In the event of a conflict between the signed construction documents prepared by Waterways and electronic files, the signed and stamped or sealed hard copy construction documents shall govern.

2. After Client's acceptance of the preliminary drawings (65% level of completion), should new information, changed conditions, agency/public comments on the preliminary drawings, or other factors require additional mapping, data collection, graphic modifications, or conceptual changes, the budget may need to be amended to cover these unanticipated costs.

3. The Client shall be responsible for obtaining all necessary easements for both temporary construction-related access and for permanent access and parking, where required.

4. Where the Waterways scope includes preparation of specifications, Waterways will only be responsible for preparation of technical specifications. The Client shall prepare general and front-end provisions for the project, if required.

5. All permitting shall be handled by the Client. Waterways will be available for permitting assistance on a time and materials basis, at the firm's prevailing hourly rates. If permitting agencies request submittal of design reports, detailed hydraulic modeling or calculations, beyond what is deemed by Waterways to be necessary to complete the design, this work will be considered extra, unless specifically outlined in the scope of services.

6. Our design services are not typically performed to meet a specific total project cost, as the cost is often beyond our control. When total project budget is expected to guide the design approach, this expectation should be clearly defined in the Agreement.

7. Waterways will have no responsibility for the discovery, presence, handling, removal, or disposal of hazardous or toxic materials or substances in any form at Project sites, including but not limited to, asbestos, asbestos products or polychlorinated biphenyl (PCB) except for such hazardous or toxic materials or substances introduced on to the project site by Waterways or any damage or injuries resulting from Waterways' negligence.

8. When hazardous or toxic materials or substances are known, assumed, or suspected to exist at a site, Client shall take appropriate precautions to protect health and safety of Waterways' personnel, to comply with applicable laws and regulations, and to follow procedures that Client deems prudent to minimize physical risks to employees and the public. Client shall inform

Waterways of any hazardous or toxic materials or substances known by Client to exist at a Project site on which Waterways is providing services.

9. Client agrees not to use or permit any other person to use final maps, exhibits, legal descriptions, surveys, or other work product ("Work Product") prepared by Consultant, which Work Product is not final, and which is not signed, and stamped or sealed by Consultant. Client agrees that Consultant is not responsible for any such use of non-final Work Product and waives any right to claim liability against Consultant, therefore. Client further agrees that final Work Product is for the sole use of Client for the specific purpose described in this Agreement. Such final Work Product may not be altered or reproduced in any way nor used on any other project or for any other purposes than as specifically authorized by Consultant in writing prior to any such use, alteration, or reproduction. Client may use preliminary products for permit review submittals. However, Client is advised that design details may change as designs are finalized. Waterways cannot be held liable for the cost of additional permitting effort or project delays that may result from these changes.

EXHIBIT B - ESTIMATED BUDGET FOR CONSULTING SERVICES **1/21/2025**

Client: Town of Truckee
Project Name: Trout Creek Restoration - Reach 1 Phase 2 - through 65% Design
Waterways Project No.: 08-663L

		Waterways					Acumen			
		Principal Scientist	Principal Engineer	Senior Engineer	Staff Engineer-2	Hydrologist/ Modeler	Principal Engineer	Engineer	Designer	Budget Allocation
		(Dvorsky)	(Weld)	(Hofeld)	(Hutchinson)	(Lovrin)				
#	Task Description	$185	$200	$170	$155	$150	$200	$175	$150	
1	Project Administration and Coordination	60	12	20						$16,900
2	Revised Engineering Drawings and BOD Report (Permit Set - Single Phase)									
2.1	Trout Creek Restoration and Crossings (Waterways Lead)	40	28	50	80					$33,900
2.2	Geometry and Layout (Acuman Lead)						65		40	$19,000
2.3	Underground Utilities (Acumen Lead)						18	90	62	$28,650
3	Hydraulic Analysis	12	4	28		70				$18,280
4	Permit and Grant Application Support	22		6	6					$6,020
										$122,750.00
	Optional Future Tasks (Final Design and Construction Phase)									
5	Draft and Final Plans Specs and Estimates - 2 Phases									
5.1	Trout Creek Restoration and Crossings (Waterways Lead)	16	24	70	90					$33,610
5.2	Final Underground and Striping Plans						65	65	105	$40,125
6	Preparation of SWPPP	2	6	18	34					$9,900
7	Assistance with Bid Process		16	18	10		31	5	27	$18,935
8	Construction Phase Services	50	90	24	8		24	24	12	$43,370
9	Record Drawings		4	14	20		3	6	40	$13,930
										$159,870.00

Direct Expenses (through 65% Design)	**Allocation**
Waterways Direct Expenses (Travel, field supplies, etc)	$2,040.00
Structural Subconsultant (Streeter Group)	$20,000.00
Survey Subconsultant	$20,000.00
Geotechnical Engineering (NV5)	$5,000.00
Electrical Subconsultant (JP Engineering)	$13,125.00
Revegetation and Irrigation Subconsultant (ECI)	$9,000.00
10% Service Charge	$6,916.50
Subtotal	$76,081.50

Direct Expenses (Final Design and Construction Phase)	
Waterways Direct Expenses (Travel, field supplies, etc)	$8,260.00
Structural Subconsultant (Streeter Group)	$13,000.00
Survey Subconsultant	$6,000.00
Geotechnical Engineering (NV5)	$10,000.00
Revegetation and Irrigation Subconsultant (ECI)	$6,000.00
10% Service Charge	$4,326.00
Subtotal	$47,586.00
Total (through 65% Design)	**$198,831.50**
Total (Optional Task Items)	**$207,456.00**