

DESIGN SERVICES AGREEMENT

THIS AGREEMENT is entered into between the **CITY AND COUNTY OF DENVER** (the "City"), a municipal corporation of the State of Colorado, and **DAVID EVANS AND ASSOCIATES, INC.**, (the "Design Consultant"), an Oregon corporation, whose address is 2100 Southwest River Parkway, Portland, Oregon 97201.

SECTION 1 – ENGAGEMENT

1.01 Engagement. The City engages the Design Consultant to furnish professional design services for the Project as set forth in this Agreement. The Design Consultant accepts such engagement upon, subject to and in accordance with the terms, conditions and provisions of this Agreement.

1.02 Line of Authority for Contract Administration. The City's Executive Director of Public Works ("Director" or "Manager") is the City's representative responsible for authorizing and approving the work performed under this Agreement. The Director hereby designates the City Engineer as the Director's authorized representative for the purpose of designating a Project Manager, for the purpose of issuing a written Notice to Proceed and for purposes of administering, coordinating and finally approving the work performed by the Design Consultant under this Agreement. The Project Manager shall be responsible for the day-to-day administration, coordination and approval of work performed by the Design Consultant, except for approvals which are specifically identified in this Agreement as requiring the Director's approval. The Director expressly reserves the right to designate another authorized representative to perform on the Director's behalf by written notice to the Design Consultant.

1.03 Independent Contractor. The Design Consultant is an independent contractor retained to perform professional or technical services for limited periods of time. Neither the Design Consultant nor any of its employees are employees or officers of the City under Chapter 18 of the Denver Revised Municipal Code, or for any purpose whatsoever.

1.04 Scope of Design Consultant's Authority. The Design Consultant shall have no authority to act on behalf of the City other than as expressly provided in this Agreement. The Design Consultant is not authorized to act as a general agent for or to undertake, direct or modify any contracts on behalf of the City. The Design Consultant lacks any authority to bind the City on any contractual matters. Final approval of all contractual matters that purport to obligate the City must be executed by the City in accordance with the City's Charter and the D.R.M.C.

SECTION 2 – DESIGN CONSULTANT'S SERVICES

2.01 General. The Design Consultant shall provide professional design services for the Project in accordance with the terms and conditions of this Agreement. The Design Consultant's basic services shall consist of all of those services described in this Agreement and in **Exhibit A**.

2.02 Professional Responsibility.

(a) All of the work performed by the Design Consultant under this Agreement shall be performed in accordance with the standards of care, skill and diligence provided by competent professionals who perform work of a nature similar to the Work described in this Agreement.

(b) The Design Consultant agrees to strictly conform to and be bound by written standards, criteria, budgetary considerations and memoranda of policy furnished to it by the City and further agrees to design each project in compliance with applicable laws, statutes, codes, ordinances, rules and regulations, and industry standards.

(c) All professional services, plans and specifications and other work, or deliverables provided under this Agreement for the Project shall be adequate and sufficient for the proper construction of the Project and its intended purpose.

(d) All drawings, specifications and other products shall be prepared so the Project, when constructed in accordance with such drawings and specifications, is in compliance with all applicable laws, statutes, codes, ordinances, and rules and regulations of the City, the State and the Federal government.

(e) Any design changes required by changes in such applicable laws, statutes, codes, ordinances or rules and regulations of the City, the state or the federal government, which are enacted after the City's acceptance of Construction Documents, defined herein, will be outside the scope of the Design Consultant's basic services and basic fee, and will be compensated for approval as an additional service, subject to the additional services budget for that project.

(f) The Design Consultant shall prepare the plans, specifications and other materials for the Project in a format that complies with all City requirements as well as all state and federal requirements for the Project. No funds will be paid to the Design Consultant for the preparation of contract documents in a form other than that considered usual and customary by the Department of Public Works. It shall be the responsibility of the Design Consultant to contact the reviewing agencies and determine the acceptable format for the final documents. No documents will be considered final until approved by the City, even though any responsible federal and state agencies have approved such documents.

(g) The City reserves the right to proceed with the construction of the Project using either the City's standard general contractor bidding approach, on call contractors or using construction management techniques. The Design Consultant agrees to organize its Contract Documents for either construction technique and to coordinate the construction documents into selected bid packages, as appropriate. The City will notify the Design Consultant prior to the completion of the Design Development Design Phase which method will be used and the amount of work or the limits of construction to be included in the proposed bid package(s).

(h) The reports, studies, drawings and specifications and other products prepared by the Design Consultant under this Agreement, when submitted by the Design Consultant to the Director and the user agency for any identified phase of the Project, must represent a thorough study and competent solution for the project as per usual and customary professional standards and shall reflect all architectural and engineering skills applicable to that phase of the project.

(i) The responsibilities and obligations of the Design Consultant under this Agreement shall not be relieved or affected in any respect by the presence on the site of any agent, consultant or subconsultant, or an employee of the City.

(j) The Design Consultant shall provide all professional services required by the City in defending all claims against the City, which relate in any way to alleged default

hereunder, errors or omissions of the Design Consultant or its subconsultants, without additional compensation.

2.03 Program and Budget.

(a) The Design Consultant agrees to review the City's program and budget for the Project and further agrees, unless it has timely notified the City that the Project cannot be accomplished within such budget, to accomplish the Project within the intent of the program and established budget. Should the Design Consultant determine that The Project cannot be accomplished within the established budget, the Design Consultant shall immediately notify the City, in writing, so that the project scope or project budget can be reviewed and modified if necessary.

(b) The term "Project Construction Cost" shall mean the estimated cost to the City of actually constructing the Project, but such cost shall not include any Design Consultant's or special consultant's fees or reimbursements or the cost of equipment installed by the City under separate contract, unless the Design Consultant is required by the City to prepare drawings and specifications for such equipment. The initial Project Construction Cost has been provided to the Design Consultant.

(c) The Design Consultant agrees to design the Project within the estimated Project Construction Cost for the Project. Should all responsive bids or proposal received for the Project work provided for in the design exceed such cost, the Design Consultant agrees to redesign the Project at no additional cost to City and, in a manner acceptable to the City.

2.04 Coordination and Cooperation.

(a) The Design Consultant agrees to perform under this Agreement in such a manner and at such times that the City or any Contractor who has work to perform, or contracts to execute, can do so without unreasonable delay.

(b) Coordination with the City and other involved agencies shall be a continuing work item through all phases of each assigned project. Such coordination shall consist of regular progress and review meetings with the City, work sessions with the City's Public Works, and other user agencies or as otherwise directed by the City. Such coordination may also include field and office reviews of plans and documents as required during the development of the design for any specific project. The Design Consultant shall document all such conferences and distribute notes to the City.

2.05 Personnel Assignments.

(a) The key professional personnel identified in **Exhibit B** will be assigned by the Design Consultant or its subconsultants to perform the services required under this Agreement, as appropriate.

(b) The Design Consultant's services shall be diligently performed by the regular professional and technical staff of the Design Consultant. In the event the Design Consultant does not have as part of its regular staff certain professional consultants, then such consulting services shall be performed, with City approval, by practicing professional consultants outside of the employ of the Design Consultant.

(c) The Design Consultant agrees, at all times during the term of this Agreement, to maintain on its payroll or to have access to through outside subconsultants,

professional design personnel and technicians in sufficient strength to meet the requirements of the City. Such personnel and technicians shall be of the classifications referenced in **Exhibit B**. The hourly rates specified therein include all costs except those specifically referenced as reimbursables in the appropriate hourly rate schedule.

(d) Prior to designating an outside professional to perform subconsultant work, the Design Consultant shall submit the name of such subconsultant, together with a resume of training and experience in work of like character and magnitude of the project being contemplated, to the City and receive prior approval in writing.

(e) It is the intent of the Parties hereto that all key professional personnel be engaged to perform their specialty for all such services required by this Agreement and that the Design Consultant's and the subconsultant's key professional personnel be retained for the life of this Agreement to the extent practicable and to the extent that such services maximize the quality of work performed hereunder.

(f) If the Design Consultant or a subconsultant decides to replace any of its key professional personnel, the Design Consultant shall notify the Director in writing of the desired change. No such changes shall be made until replacement personnel are recommended by the Design Consultant and approved in writing by the Director, which approval shall not be unreasonably withheld.

(g) If, during the term of this Agreement, the Director determines that the performance of approved key personnel or a subconsultant is not acceptable, she shall notify the Design Consultant and give the Design Consultant the time which the Director considers reasonable to correct such performance. Thereafter, she may require the Design Consultant to reassign or replace such key personnel. If the Director notifies the Design Consultant that certain of its key personnel or a subconsultant should be replaced, Design Consultant will use its best efforts to replace such key personnel or a subconsultant within ten (10) days from the date of the Director's notice.

(h) Neither the Design Consultant nor any subconsultant shall have other interests which conflict with the interests of the City, including being connected with the sale or promotion of equipment or material which may be used on a project to which they may be assigned, and the Design Consultant shall make written inquiry of all of its subconsultants concerning the existence of a potential for such conflict. In unusual circumstances, and with full disclosure to the City of such conflict of interest, the City, in its sole discretion, may grant a written waiver for the particular consultant or subconsultant.

(i) Actions taken by the City under this Article shall not relieve the Design Consultant of its responsibility for contractual or professional deficiencies, errors or omissions.

(j) The Design Consultant shall submit to the Director a list of any additional key professional personnel who will perform work under this Agreement within thirty (30) days after this Agreement has been executed, together with complete resumes and other information describing their ability to perform the tasks which may be assigned. Such additional personnel must be recommended by the Design Consultant and approved by the Director before they are assigned to a specific project.

(k) The Director shall respond to the Design Consultant's written notice regarding replacement of key professional personnel within fifteen (15) days after the Director

receives the list of changes. If the Director or his designated representative does not respond within that time, the changes shall be deemed to be approved.

2.06 Basic Services – General.

(a) These services shall be diligently performed by the regular professional and technical staff of the Design Consultant. In the event the Design Consultant does not have as part of its regular staff certain professional consultants, then such consulting services shall be performed, with City approval, by practicing professional consultants outside of the employ of the Design Consultant.

(b) Prior to designating an outside professional to perform work or services under this Agreement, the Design Consultant shall submit the name of such professional, together with a resume of training and experience in work of like character and magnitude as the project being contemplated, to the City and receive prior approval in writing.

(c) All professional consultants and subconsultants must be retained for the life of the Project to the extent practicable, except that acceptable replacements may be substituted with prior written approval from the City as set out in Section 2.05.

(d) The Design Consultant's basic services for the Project shall consist of the phases described below and shall include, but not be limited to, architectural, structural, mechanical, civil and electrical engineering services appropriate to each Project for each phase.

(e) The Design Consultant shall obtain written authorization from the City before proceeding with each phase.

(f) Nothing in this Agreement shall be construed as placing any obligation on the City to proceed with any phase beyond the latest phase authorized in writing by City.

(g) The responsibilities and obligations of the Design Consultant under this Agreement shall not be relieved or affected in any respect by the presence on the site of any agent, consultant, subconsultant, or employee of the City.

2.07 Basic Services - Phase Specific. In the interest of tracking progress towards completion of all work items necessary to complete the Project specified herein, the required Basic Services tasks which must be performed on each Project have been separated into phases. As applicable for the Project, the Design Consultant shall satisfactorily complete all work necessary to complete each phase as specifically set out in **Exhibit A**.

2.08 Additional Services.

(a) If the Design Consultant performs services in addition to its Basic Services, as a result of material changes in the Project or due to other circumstances beyond the Design Consultant's control, and if such services (1) are pre-approved in writing; (2) will not cause the total compensation payable to the Design Consultant to exceed the Maximum Contract Amount; and (3) are not occasioned by any neglect, breach or default of the Design Consultant, then the Design Consultant will be reimbursed its pre-approved cost for performance of such service(s).

(b) Before providing any such services, the Design Consultant first shall file with the City, and secure the City's written approval of, a complete description of the proposed services including an estimate of the maximum cost of any and all such services, on the basis set

out in **Exhibits A and B**, of rates per hour, per day, or other basis of cost. Such description shall also include a statement from the Design Consultant that the maximum cost of such services will not cause the total amount payable to the Design Consultant under this Agreement to exceed the maximum contract amount. In no event shall any form of authorization or pre-approval of additional services be deemed valid or binding upon either the City or the Design Consultant if the maximum cost of such services would cause the aggregate amount payable under this Agreement to exceed the maximum contract amount. Payment for additional services shall not, in any event, exceed the cost estimated by the Design Consultant and approved in writing by the City.

(c) The cost of such additional service shall be deemed to be the lesser of the estimated maximum cost or:

(1) The actual time card cost of all design personnel including principal designer's time at the rates as set out in **Exhibit B**;

(2) The actual cost to the Design Consultant for other necessary outside services, such as structural, mechanical or electrical engineering performed by independent consultants; and

(3) The Design Consultant's actual reproduction cost for drawings.

(d) The Design Consultant shall maintain an accurate and acceptable cost accounting as to all such additional expenses and shall make available to the City all records, canceled checks and other disbursement media to substantiate any and all requests for payment for additional services.

(e) Payment to the Design Consultant for such additional services shall not, in any event, exceed the maximum additional services amount set forth in Section 3.

2.09 Surveying and Testing.

(a) The Design Consultant shall obtain all necessary surveying, tests and reports to properly design and administer the construction of each project, including, but not limited to, soils and hazardous materials testing. The Design Consultant shall be responsible for the accuracy, adequacy and content of such tests, surveying and reports.

(b) The Design Consultant and its appropriate subconsultant shall review all survey and test results reports and shall follow the recommendation of the soils engineer or other subconsultant unless, in the exercise of appropriate professional judgment, the Design Consultant or appropriate subconsultant discovers, or should in the exercise of professional judgment discover, factors indicating the report or results are not reliable.

(c) If any such inadequacy or any inconsistency, based upon such exercise of professional judgment, is noted the Design Consultant and/or its appropriate subconsultant shall report such inconsistency or inadequacy promptly to the City and require such inadequacy or inconsistency to be addressed by the soils engineer, testing laboratory or land surveyor before any further use is put to the data.

(d) The Design Consultant shall require all surveying, engineering and testing entities it selects to carry and maintain Comprehensive Auto Liability and Property Damage Insurance, General Commercial Liability and Property Damage Insurance and Professional Errors and Omissions coverage as required by the City's Office of Risk Management which will

adequately protect the interests of the City and third parties from the acts and omissions of the testing entity.

(e) The amount of surveying or testing, the cost, and the types of reports required must be approved by the Director prior to the Design Consultant actually ordering any such work to be accomplished. Such approvals by the City shall be for purposes of compensation only and shall not relieve the Design Consultant of any responsibility for determining the scope and amount of surveying and testing necessary for the design of the project.

(f) It is understood and agreed that this Agreement does not include the investigation, sampling, testing, planning, abatement design, and remediation management of asbestos or other hazardous waste material. Should the presence of asbestos or other hazardous waste material be known to exist on a specific project or if the Design Consultant shall observe the presence of asbestos or hazardous waste material on any project site during its performance of services under this Agreement, the Design Consultant shall notify the City in writing immediately.

(g) Payment to the Design Consultant for such surveying, testing, and abatement shall not exceed the surveying and testing budget set forth in the project specific proposal for each project.

2.10 Compliance with M/WBE Requirements.

(a) This Agreement is subject to Article III, Divisions 1 and 3 of Chapter 28, Denver Revised Municipal Code (D.R.M.C.), designated as Sections 28-31 to 28-36 and 28-52 to 28-90 D.R.M.C. (the "M/WBE Ordinance") and any Rules or Regulations promulgated pursuant thereto. The Design Consultant identified in its Proposal MBE and/or WBE firms with which it intends to subcontract under this Agreement, with a total participation level by such firms of **23.5%**. The project goal for M/WBE participation established for this Agreement by the Division of Small Business Opportunity (DSBO) is **22%**.

(b) Under § 28-72 D.R.M.C., the Design Consultant has an ongoing, affirmative obligation to maintain for the duration of this Agreement, at a minimum, compliance with its originally achieved level of MBE and WBE participation upon which this Agreement was awarded, unless the City initiates a material alteration to the scope of work affecting MBEs or WBEs performing on this Agreement through change order, contract amendment, force account, or as otherwise described in § 28-73 D.R.M.C. The Design Consultant acknowledges that:

(1) It must establish and maintain records and submit regular reports, as required, which will allow the City to assess progress in achieving the M/WBE participation goal.

(2) If change orders or any other contract modifications are issued under the Agreement, the Design Consultant shall have a continuing obligation to immediately inform DSBO in writing of any agreed upon increase or decrease in the scope of work of such contract, upon any of the bases discussed in § 28-73, D.R.M.C., regardless of whether such increase or decrease in scope of work has been reduced to writing at the time of notification.

(3) If change orders or other contract modifications are issued under the contract, that include an increase in scope of work of this Agreement, whether by

amendment, change order, force account or otherwise which increases the dollar value of the contract, whether or not such change is within the scope of work designated for performance by an M/WBE at the time of contract award, such change orders or contract modification shall be immediately submitted to DSBO for notification purposes. Those amendments, change orders, force accounts or other contract modifications that involve a changed scope of work that cannot be performed by existing project subconsultants or by the Design Consultant shall be subject to a goal for M/WBEs equal to the original goal on the contract which was included in the proposal. The Design Consultant shall satisfy such goal with respect to such changed scope of work by soliciting new M/WBEs in accordance with § 28-73, D.R.M.C., as applicable, or the Design Consultant must show each element of modified good faith set out in § 28-75(c) D.R.M.C. The Design Consultant shall supply to the director the documentation described in § 28-75-(c) D.R.M.C. with respect to the increased dollar value of the contract.

(4) Failure to comply with these provisions may subject the Design Consultant to sanctions set forth in the M/WBE Ordinance. Should any questions arise regarding specific circumstances, the Design Consultant must consult the M/WBE Ordinance or contact the Project's designated DSBO representative at (720) 913-1999.

SECTION 3 – COMPENSATION, PAYMENT, AND FUNDING

The City shall compensate the Design Consultant for its service performed and expenses incurred under this Agreement as follows.

3.01 Fee for basic services. The City agrees to pay the Design Consultant, as full compensation for its basic services rendered hereunder, a fee not to exceed **SEVEN HUNDRED SIXTEEN THOUSAND SEVEN HUNDRED SEVENTY DOLLARS AND THIRTY THREE CENTS (\$716,770.33)**, in accordance with the billing rates and project budget stated in **Exhibits A and B**. The amounts budgeted for phases may be increased or decreased, and the amounts allocated for services and expenses adjusted, upon written approval of the Director or his designee, and subject to the Maximum Contract Amount stated in this Section 3.

3.02 Reimbursable Expenses. Except for those reimbursable expenses specifically identified in **Exhibit A**, or approved in writing by the City as reasonably related to or necessary for the Design Consultant's services, all other expenses shall be included in the Design Consultant's fee and will not be reimbursed hereunder. The maximum amount to be paid for all reimbursable expenses under this Agreement is **FORTY NINE THOUSAND NINE HUNDRED NINETY NINE DOLLARS AND ZERO CENTS (\$49,999.00)** unless an additional amount is approved by the Director or his designee in writing, subject to the Maximum Contract Amount stated herein. Unless this Agreement is amended in writing according to its terms to increase the Maximum Contract Amount, any increase in the maximum amount of reimbursable expenses will reduce the Design Consultant's maximum fee amount accordingly.

3.03. Additional Services. If pre-approved additional services are performed by the Design Consultant, the City agrees to pay the Design Consultant for such additional services in accordance with Section 2.08. The maximum amount to be paid by the City for all additional services under this contract is **TWENTY FIVE THOUSAND DOLLARS AND ZERO CENTS (\$25,000.00)**.

3.04 Invoicing and Payment. The City will make monthly progress payments for all services performed under this Agreement based upon the Design Consultant's monthly invoices.

Such invoices shall be in a form acceptable to the City and shall include detail of the time worked by the Design Consultant's own personnel, billings from subcontractors, and all other information necessary to assess the Design Consultant's progress. Invoices shall be accompanied by documentation of expenses for which reimbursement is sought, and all other supporting documentation required by the City. The City's Prompt Payment Ordinance, §§ 20-107 to 20-118, D.R.M.C., applies to invoicing and payment under this Agreement. Final Payment to the Design Consultant shall not be made until after the Project is accepted, and all certificates of completion, record drawings and reproducible copies are delivered to the City, and the Agreement is otherwise fully performed by the Design Consultant. The City may, at the discretion of the Director, withhold reasonable amounts from billing and the entirety of the final payment until all such requirements are performed to the satisfaction of the Director. However, no deductions shall be made from the Design Consultant's compensation on account of penalty, liquidated damages or other sums withheld from payments to contractor(s).

3.05 Maximum Contract Amount.

(a) Notwithstanding any other provision of the Agreement, the City's maximum payment obligation will not exceed **SEVEN HUNDRED NINETY ONE THOUSAND SEVEN HUNDRED SIXTY NINE DOLLARS AND THIRTY THREE CENTS (\$791,769.33)** (the "Maximum Contract Amount"). The City is not obligated to execute an Agreement or any amendments for any further services, including any services performed by Design Consultant beyond that specifically described in **Exhibit A**. Any services performed beyond those set forth therein are performed at Design Consultant's risk and without authorization under the Agreement.

(b) The City's payment obligation, whether direct or contingent, extends only to funds appropriated annually by the Denver City Council, paid into the Treasury of the City, and encumbered for the purpose of the Agreement. The City does not by the Agreement irrevocably pledge present cash reserves for payment or performance in future fiscal years, and the Agreement does not and is not intended to create a multiple-fiscal year direct or indirect debt or financial obligation of the City.

(c) The Design Consultant understands and agrees that the provision of any services by the Design Consultant, which would cause the total amount payable to the Design Consultant to exceed the amount of previously appropriated and encumbered funds, is strictly prohibited. In the event the continuation of services by the Design Consultant would cause the amount payable to the Design Consultant to exceed such amounts, the Design Consultant agrees to give to the Project Director at least two (2) weeks notice of the exhaustion of available funds. In the event additional funds are not made available within such two (2) week period, the Design Consultant agrees to stop providing services until such time as additional funds are appropriated and encumbered for the purposes of the this Agreement, and amounts which remain available for payment to the Design Consultant

SECTION 4 – TERM AND TERMINATION

4.01 Term.

The Agreement will commence on January 11, 2018 and expire on January 10, 2021 unless sooner terminated, upon final completion of the Project.

4.02 Termination.

(a) Nothing herein shall be construed as giving the Design Consultant the right to perform the services contemplated under this Agreement beyond the time when its services become unsatisfactory to the Director.

(b) The Director may terminate this Agreement for cause at any time if the Design Consultant's services become unsatisfactory, in the sole discretion of the Director. The City shall have the sole discretion to permit the Design Consultant to remedy the cause of a contemplated termination for cause without waiving the City's right to terminate the Agreement.

(c) In the event of a termination for cause, or in the event the Design Consultant becomes unable to serve under this Agreement, the City may take over work to be done under this Agreement and prosecute the work to the completion by contract or otherwise, and the Design Consultant shall be liable to City for all reasonable cost in excess of what the City would have paid the Design Consultant had there been no termination for cause.

(d) The City may, for convenience, cancel and terminate this Agreement by giving not less than thirty (30) days' prior written notice to the Design Consultant, which notice shall state the date of cancellation and termination.

(e) If the Design Consultant's services are terminated, postponed or revised, or if the Design Consultant shall be discharged before all the work and services contemplated have been completed, or if the project is, for any reason, stopped or discontinued, the Design Consultant shall be paid only for the portion of work or services which has been satisfactorily completed at the time of such dismissal, termination, cancellation, postponement, revision or stoppage.

(f) All drawings, specifications, and other documents relating to the design or administration of work completed or partially completed shall be delivered by the Design Consultant to the City in the event of any dismissal, termination, cancellation, postponement, revision or stoppage.

(g) In the event of any dismissal, termination, cancellation, postponement, revision or stoppage, the Design Consultant shall cooperate in all respects with the City. Such cooperation shall include, but not be limited to, delivery of drawings, specifications, and other documents referred to herein, and assisting the City during a transition to another Design Consultant, if applicable.

SECTION 5 – GENERAL PROVISIONS

5.01 City's Responsibilities.

(a) The City shall provide available information regarding its requirements for each project, including related budgetary information, and shall cooperate fully with the Design Consultant at all times. However, the City does not guarantee the accuracy of any such information and assumes no liability therefore. The Design Consultant shall notify City in writing of any information or requirements provided by the City which the Design Consultant believes to be inaccurate or inappropriate to the design or construction of the project.

(b) If the City observes or otherwise becomes aware of any fault or defect in the project or non-conformance with Contract Documents, it shall give prompt notice thereof to Design Consultant.

5.02 Ownership of Documents.

(a) The City shall have title and all intellectual and other property rights, in and to all phased and final Design documents, and all data used in the development of the same, including the results of any tests, surveys or inspections at the Project site, and all photographs, drawings, drafts, studies, estimates, reports, models, notes and any other materials or work products, whether in electronic or hard copy format, created by the Design Consultant pursuant to this Agreement, in preliminary and final forms and on any media whatsoever (collectively, the "Documents"), whether the Project for which the Documents were created is executed or not. Any reuse or modification of the Documents without the prior written consent of the Consultant shall be at the sole risk of the City. The Design Consultant shall identify and disclose, as requested, all such Documents to the City.

(b) To the extent permitted by the U.S. Copyright Act, 17 USC § 101 *et seq.*, as the same may be amended from time to time, the Documents are a "work made for hire," and all ownership of copyright in the Documents shall vest in the City at the time the Documents are created. To the extent that the Documents are not a "work made for hire," the Design Consultant hereby assigns and transfers all right, title and interest in and to the Documents to the City, as of the time of the creation of the Documents, including the right to secure copyright, patent, trademark, and other intellectual property rights throughout the world and to have and to hold such copyright, patent, trademark, and other intellectual property rights in perpetuity.

(c) The Design Consultant shall provide (and cause its employees and subcontractors to provide) all assistance reasonably requested in securing for the City's benefit any patent, copyright, trademark, service mark, license, right or other evidence of ownership of such Documents, and shall provide full information regarding the Documents and execute all appropriate documentation in applying for or otherwise registering, in the City's name, all rights to such Documents.

(d) The Design Consultant agrees to allow the City to review any of the procedures used in performing the work and services hereunder, and to make available for inspection the field notes and other documents used in the preparation for and performance of any of the services performed hereunder.

(e) The Design Consultant shall be permitted to retain reproducible copies of all of the Documents for the information and reference, and the originals of all of the Documents, including all CAD disks, shall be delivered to the City promptly upon completion thereof, or if authorized by the City's Project Manager, upon termination or expiration of this Agreement.

5.03 Taxes and Licenses. The Design Consultant shall promptly pay, when they are due, all taxes, excises, license fees and permit fees of whatever nature applicable to the work and services which it performs under this Agreement, and shall take out and keep current all required municipal, county, state or federal licenses required to perform its services under this Agreement. The Design Consultant shall furnish the Director, upon request, duplicate receipts or other satisfactory evidence showing or certifying to the proper payment of all required licenses and/or registrations and taxes. The Design Consultant shall promptly pay all owed bills, debts and obligations it incurs performing work under this Agreement and shall not allow any lien, verified claim, mortgage, judgment or execution to be filed against land, facilities or improvements owned or beneficially owned by the City as a result of such bills, debts or obligations.

5.04 Design Consultant's Records. Records of the Design Consultant's direct personnel, consultant and reimbursable expenses pertaining to this Project and records of accounts between the City and the Design Consultant shall be kept on a generally recognized accounting basis. The Design Consultant agrees that any duly authorized representative of the City, including the City Auditor, shall, until the expiration of three (3) years after the final payment under this Agreement, have access to and the right to examine any books, documents, papers and records of the Design Consultant, involving transactions related to this Agreement.

5.05 Assignment and Subcontracting. The City is not obligated or liable under this Agreement to any party other than the Design Consultant named herein. The Design Consultant understands and agrees that it shall not assign or subcontract with respect to any of its rights, benefits, obligations or duties under this Agreement except upon prior written consent and approval of the City to such assignment or subcontracting. Any attempt by the Design Consultant to assign or subcontract its rights hereunder without such prior written consent of the City shall, at the option of the City, automatically terminate this Agreement and all rights of the Design Consultant hereunder. Such consent may be granted or denied at the sole and absolute discretion of the City. In the event any such subcontracting shall occur, with the City's approval, such action shall not be construed to create any contractual relationship between the City and such subcontractor, and the Design Consultant named herein shall in any and all events be and remain responsible to the City according to the terms of this Agreement.

5.06 No Discrimination in Employment. In connection with the performance of work under this Agreement, the Consultant may not refuse to hire, discharge, promote or demote, or discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, gender identity or gender expression, marital status, or physical or mental disability. The Consultant shall insert the foregoing provision in all subcontracts.

5.07 Insurance.

(a) **General Conditions:** Consultant agrees to secure, at or before the time of execution of this Agreement, the following insurance covering all operations, goods or services provided pursuant to this Agreement. Consultant shall keep the required insurance coverage in force at all times during the term of the Agreement, or any extension thereof, during any warranty period, and for eight (8) years after termination of the Agreement. The required insurance shall be underwritten by an insurer licensed or authorized to do business in Colorado and rated by A.M. Best Company as "A-"VIII or better. Each policy shall contain a valid provision or endorsement requiring notification to the City in the event any of the required policies be canceled or non-renewed before the expiration date thereof. Such written notice shall be sent to the parties identified in the Notices section of this Agreement. Such notice shall reference the City contract number listed on the signature page of this Agreement. Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal unless due to non-payment of premiums for which notice shall be sent ten (10) days prior. If such written notice is unavailable from the insurer, Consultant shall provide written notice of cancellation, non-renewal and any reduction in coverage to the parties identified in the Notices section by certified mail, return receipt requested within three (3) business days of such notice by its insurer(s) and referencing the City's contract number. If any policy is in excess of a deductible or self-insured retention, the City must be notified by the Consultant. Consultant shall be responsible for the payment of any deductible or self-insured retention. The insurance coverages specified in this

Agreement are the minimum requirements, and these requirements do not lessen or limit the liability of the Consultant. The Consultant shall maintain, at its own expense, any additional kinds or amounts of insurance that it may deem necessary to cover its obligations and liabilities under this Agreement.

(b) **Proof of Insurance:** Consultant shall provide a copy of this Agreement to its insurance agent or broker. Consultant may not commence services or work relating to the Agreement prior to placement of coverages required under this Agreement. Consultant certifies that the certificate of insurance attached as **Exhibit C**, preferably an ACORD certificate, complies with all insurance requirements of this Agreement. The City requests that the City's contract number be referenced on the Certificate. The City's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Consultant's breach of this Agreement or of any of the City's rights or remedies under this Agreement. The City's Risk Management Office may

(c) **Additional Insureds:** For Commercial General Liability, Auto Liability and Excess Liability/Umbrella (if required), Consultant and subcontractor's insurer(s) shall include the City and County of Denver, its elected and appointed officials, employees and volunteers as additional insured.

(d) **Waiver of Subrogation:** For all coverages required under this Agreement, Consultant's insurer shall waive subrogation rights against the City.

(e) **Subcontractors and Subconsultants:** All subcontractors and subconsultants (including independent contractors, suppliers or other entities providing goods or services required by this Agreement) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of the Consultant. Consultant shall include all such subconsultants as additional insured under its policies (with the exception of Workers' Compensation) or shall ensure that all such subcontractors and subconsultants maintain the required coverages. Consultant agrees to provide proof of insurance for all such subcontractors and subconsultants upon request by the City.

(f) **Workers' Compensation/Employer's Liability Insurance:** Consultant shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 per occurrence for each bodily injury claim, \$100,000 per occurrence for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Consultant expressly represents to the City, as a material representation upon which the City is relying in entering into this Agreement, that none of the Consultant's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Agreement, and that any such rejections previously effected, have been revoked as of the date Consultant executes this Agreement.

(g) **Commercial General Liability:** Consultant shall maintain a Commercial General Liability insurance policy with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate.

(h) **Business Automobile Liability:** Consultant shall maintain Business

Automobile Liability with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-owned vehicles used in performing services under this Agreement.

(i) **Professional Liability (Errors & Omissions):** Consultant shall maintain limits of \$1,000,000 per claim and \$1,000,000 policy aggregate limit.

(j) **Additional Provisions:**

(a) For Commercial General Liability, the policy must provide the following:

(i) That this Agreement is an Insured Contract under the policy;

(ii) Defense costs are outside the limits of liability;

(iii) A severability of interests or separation of insureds provision (no insured vs. insured exclusion); and

(iv) A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by the City.

(b) For claims-made coverage:

(i) The retroactive date must be on or before the contract date or the first date when any goods or services were provided to the City, whichever is earlier

(c) Consultant shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Consultant will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

5.08 Defense & Indemnification.

(a) To the fullest extent permitted by law, the Consultant agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities, claims, judgments, suits or demands for damages to persons or property arising out of, resulting from, or related to the work performed under this Agreement that are attributable to the negligence or fault of the Consultant or the Consultant's agents, representatives, subcontractors, or suppliers ("Claims"). This indemnity shall be interpreted in the broadest possible manner consistent with the applicable law to indemnify the City.

(b) Consultant's obligation to defend and indemnify may be determined after Consultant's liability or fault has been determined by adjudication, alternative dispute resolution, or otherwise resolved by mutual agreement between the parties. Consultant's duty to defend and indemnify City shall relate back to the time written notice of the Claim is first provided to City regardless of whether suit has been filed and even if Consultant is not named as a Defendant.

(c) Consultant will defend any and all Claims which may be brought or threatened against City and will pay on behalf of City any expenses incurred by reason of such Claims including, but not limited to, court costs and attorney fees incurred in defending and investigating such Claims or seeking to enforce this indemnity obligation. Such payments on behalf

of City shall be in addition to any other legal remedies available to City and shall not be considered City's exclusive remedy.

(d) Insurance coverage requirements specified in this Agreement shall in no way lessen or limit the liability of the Consultant under the terms of this indemnification obligation. The Consultant shall obtain, at its own expense, any additional insurance that it deems necessary for the City's protection.

(e) This defense and indemnification obligation shall survive the expiration or termination of this Agreement.

5.09 Colorado Governmental Immunity Act. The parties hereto understand and agree that the City is relying upon, and has not waived, the monetary limitations (presently \$150,000 per person, \$600,000 per occurrence) and all other rights, immunities and protection provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, *et seq.*

5.10 Contract Documents; Order of Precedence. This Agreement consists of Sections 1 through 5, which precede the signature page, and the following attachment, which is incorporated herein and made a part hereof by reference:

| | |
|-----------|--------------------------------|
| Exhibit A | Scope of Work/Rates |
| Exhibit B | Key Personnel |
| Exhibit C | ACORD Certificate of Insurance |

In the event of an irreconcilable conflict between a provision of Sections 1 through 5 and the listed attachments, or between provisions of any attachments, such that it is impossible to give effect to both, the order of precedence to determine which provision shall control to resolve such conflict, is as follows:

- Sections 1 through 5
- Exhibit A
- Exhibit B
- Exhibit C

5.11 When Rights and Remedies Not Waived. In no event shall any payment by the City constitute a waiver of any breach of covenant or default which may then exist on the part of the Design Consultant. No assent, expressed or implied, to any breach of the Agreement shall be held to be a waiver of any later or other breach.

5.12 Governing Law; Venue. This Agreement shall be construed and enforced in accordance with the laws of the State of Colorado, the Charter and Revised Municipal Code of the City and County of Denver, and the ordinances, regulations and Executive Orders enacted or promulgated pursuant to the Charter and Code, including any amendments. The Charter and Revised Municipal Code of the City and County of Denver, as the same may be amended from time to time, are hereby expressly incorporated into this Agreement. Venue for any action arising hereunder shall be in the City and County of Denver, Colorado.

5.13. Conflict of Interest.

(a) The parties agree that no employee of the City shall have any personal or beneficial interest in the services or property described herein, and the Design Consultant further agrees not to hire or contract for services with any employee or officer of the City which would

be in violation of the Revised Municipal Code Chapter 2, Article IV, Code of Ethics or Denver City Charter provisions 1.2.9 and 1.2.12.

(b) The Design Consultant agrees that it will not engage in any transaction, activity or conduct that would result in a conflict of interest under this Agreement. The Design Consultant represents that it has disclosed any and all current or potential conflicts of interest. A conflict of interest shall include transactions, activities or conduct that would affect the judgment, actions or work of the Design Consultant by placing the Design Consultant's own interests, or the interests of any party with whom the Design Consultant has a contractual arrangement, in conflict with those of the City. The City, in its sole discretion, shall determine the existence of a conflict of interest and may terminate this Agreement in the event such a conflict exists after it has given the Design Consultant written notice which describes the conflict. The Design Consultant shall have thirty (30) days after the notice is received to eliminate or cure the conflict of interest in a manner that is acceptable to the City.

5.14 No Third Party Beneficiaries. Enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the City and the Design Consultant, and nothing contained in this Agreement shall give or allow any claim or right of action by any other or third person under this Agreement. It is the express intention of the parties that any person other than the City or the Design Consultant receiving services or benefits under this Agreement shall be deemed to be an incidental beneficiary only.

5.15 Time is of the Essence. The parties agree that in the performance of the terms, conditions and requirements of this Agreement by the Design Consultant, time is of the essence.

5.16 Taxes, Charges and Penalties. The City and County of Denver shall not be liable for the payment of taxes, late charges, or penalties of any nature except as provided in the City's Prompt Payment Ordinance.

5.17 Proprietary or Confidential Information.

(a) City Information: The Design Consultant acknowledges and accepts that, in performance of its work under the terms of this Agreement, the Design Consultant may have access to Proprietary Data or confidential information which may be owned or controlled by the City and that the disclosure of such data or information may be damaging to the City or third parties. As such, the Design Consultant agrees that all information provided or otherwise disclosed by the City to the Design Consultant be held in confidence and used only in the performance of its obligations under this Agreement. The Design Consultant shall exercise the same standard of care to protect such information as a reasonably prudent Design Consultant would to protect its own proprietary or confidential data. "Proprietary Data" shall mean geographic materials or Geographic Information Systems ("GIS") data owned by the City and County of Denver including but not limited to maps, computer programs, aerial photography, methodologies, software, diagnostics and documents; or any other materials or information which may be designated or marked "Proprietary" or "Confidential" and provided to or made available to the Design Consultant by the City. Such Proprietary Data may be in hardcopy, printed, digital or electronic format.

(b) Design Consultant's Information: The parties understand that all the material provided or produced under this Agreement may be subject to the Colorado Open Records Act, C.R.S. 24-72-201, et seq., and that in the event of a request to the City for disclosure of such information, the City shall advise the Design Consultant of such request in order to give the Design

Consultant the opportunity to object to the disclosure of any of its proprietary or confidential material. In the event of the filing of a lawsuit to compel such disclosure, the City will tender all such material to the court for judicial determination of the issue of disclosure and the Design Consultant agrees to intervene in such lawsuit to protect and assert its claims of privilege and against disclosure of such material or waive the same. The Design Consultant further agrees to defend, indemnify and save and hold harmless the City, its officers, agents and employees, from any claim, damages, expense, loss or costs arising out of the Design Consultant's intervention to protect and assert its claim of privilege against disclosure under this Article including, but not limited to, prompt reimbursement to the City of all reasonable attorney fees, costs and damages that the City may incur directly or may be ordered to pay by such court.

5.18 Use, Possession or Sale of Alcohol or Drugs. The Design Consultant, its officers, agents, and employees shall cooperate and comply with the provisions of Executive Order 94 and Attachment A thereto concerning the use, possession or sale of alcohol or drugs. Violation of these provisions or refusal to cooperate with implementation of the policy can result in the City's barring the Design Consultant from City facilities or participating in City operations.

5.19 No Employment of Illegal Aliens to Perform Work Under the Agreement.

(a) This Agreement is subject to Division 5 of Article IV of Chapter 20 of the Denver Revised Municipal Code, and any amendments (the "Certification Ordinance").

(b) The Consultant certifies that:

(1) At the time of its execution of this Agreement, it does not knowingly employ or contract with an illegal alien who will perform work under this Agreement.

(2) It will participate in the E-Verify Program, as defined in § 8-17.5-101(3.7), C.R.S., to confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement.

(c) The Consultant also agrees and represents that:

(1) It shall not knowingly employ or contract with an illegal alien to perform work under the Agreement.

(2) It shall not enter into a contract with a subconsultant or subcontractor that fails to certify to the Consultant that it shall not knowingly employ or contract with an illegal alien to perform work under the Agreement.

(3) It has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement, through participation in the E-Verify Program.

(4) It is prohibited from using the E-Verify Program procedures to undertake pre-employment screening of job applicants while performing its obligations under the Agreement, and that otherwise requires the Consultant to comply with any and all federal requirements related to use of the E-Verify Program including, by way of example, all program requirements related to employee notification and preservation of employee rights.

(5) If it obtains actual knowledge that a subconsultant or subcontractor performing work under the Agreement knowingly employs or contracts with an illegal alien, it will notify such subconsultant or subcontractor and the City within three (3) days. The Consultant will also then terminate such subconsultant or subcontractor if within three (3) days after such notice the subconsultant or subcontractor does not stop employing or contracting with the illegal alien, unless during such three-day period the subconsultant or subcontractor provides

information to establish that the subconsultant or subcontractor has not knowingly employed or contracted with an illegal alien.

(6) It will comply with any reasonable request made in the course of an investigation by the Colorado Department of Labor and Employment under authority of § 8-17.5-102(5), C.R.S., or the City Auditor, under authority of D.R.M.C. 20-90.3.

(d) The Consultant is liable for any violations as provided in the Certification Ordinance. If Consultant violates any provision of this section or the Certification Ordinance, the City may terminate this Agreement for a breach of the Agreement. If the Agreement is so terminated, the Consultant shall be liable for actual and consequential damages to the City. Any such termination of a contract due to a violation of this section or the Certification Ordinance may also, at the discretion of the City, constitute grounds for disqualifying Consultant from submitting bids or proposals for future contracts with the City.

5.20 Disputes. All disputes between the City and Design Consultant regarding this Agreement shall be resolved by administrative hearing pursuant to the procedure established by D.R.M.C. § 56-106(b), *et seq.* For the purposes of that procedure, the City official rendering a final determination shall be the Director.

5.21 Waiver of C.R.S. 13-20-802, et seq. The Design Consultant specifically waives all the provisions of Chapter 8 of Article 20 of Title 13, Colorado Revised Statutes (also designated C.R.S. 13-20-802 *et seq.*) relating to design defects in the Project under this Agreement.

5.22 Survival of Certain Contract Provisions. The parties understand and agree that all terms and conditions of this Agreement, together with the exhibits and attachments hereto, which, by reasonable implication, contemplate continued performance or compliance beyond the termination of this Agreement, (by expiration of the term or otherwise), shall survive such termination and shall continue to be enforceable as provided herein. Without limiting the generality of the foregoing, the Design Consultant's obligations for the provision of insurance and to indemnify the City shall survive for a period equal to any and all relevant statutes of limitation, plus the time necessary to fully resolve any claims, matters, or actions begun within that period."

5.23 Advertising And Public Disclosure. The Design Consultant shall not include any reference to this Agreement or to services performed pursuant to this Agreement in any of its advertising or public relations materials without first obtaining the written approval of the Director, which will not be unreasonably withheld. Any oral presentation or written materials related to services performed under this Agreement shall include only services that have been accepted by the City. The Director shall be notified in advance of the date and time of any such presentation. Nothing in this provision shall preclude the transmittal of any information to officials of the City, including without limitation the Mayor, the Director, City Council or the Auditor.

5.24 Legal Authority. Design Consultant represents and warrants that it possesses the legal authority, pursuant to any proper, appropriate and official motion, resolution or action passed or taken, to enter into this Agreement. Each person signing and executing this Agreement on behalf of Design Consultant represents and warrants that he has been fully authorized by Consultant to execute this Agreement on behalf of Design Consultant and to validly and legally bind Design Consultant to all the terms, performances and provisions of this Agreement. The

City shall have the right, in its sole discretion, to either temporarily suspend or permanently terminate this Agreement if there is a dispute as to the legal authority of either Design Consultant or the person signing the Agreement to enter into this Agreement.

5.25 Notices. Notices, bills, invoices or reports required by this Agreement shall be sufficiently delivered if sent in the United States mail, postage prepaid, to the Parties at the following addresses:

to the City: Executive Director of Public Works
201 West Colfax Avenue, Dept. 608
Denver, Colorado 80202

to the Design Consultant: David Evans and Associates, Inc
2100 Southwest Parkway
Portland, Oregon 97201

The addresses may be changed by the Parties by written notice.

5.26 Severability. It is understood and agreed by the parties hereto that, if any part, term, or provision of this Agreement, except for the provisions of this Agreement requiring prior appropriation and limiting the total amount to be paid by the City, is by the courts held to be illegal or in conflict with any law of the State of Colorado, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term or provision held to be invalid.

5.27 Agreement as Complete Integration-Amendments. This Agreement is intended as the complete integration of all understandings between the parties. No prior or contemporaneous addition, deletion or other amendment shall have any force or effect, unless embodied herein in writing. No subsequent novation, renewal, addition, deletion or other amendment hereto shall have any force or effect unless embodied in a written amendatory or other agreement executed by the parties and signed by the signatories to the original Agreement. This Agreement and any amendments shall be binding upon the parties, their successors and assigns.

5.28 Electronic Signatures and Electronic Records. Design Consultant consents to the use of electronic signatures by the City. The Agreement, and any other documents requiring a signature hereunder, may be signed electronically by the City in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Agreement solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Agreement in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

[ELECTRONIC SIGNATURES FOLLOW]

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Contract Control Number:

IN WITNESS WHEREOF, the parties have set their hands and affixed their seals at Denver, Colorado as of

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By _____

By _____

By _____



Contract Control Number: PWADM-201839479-00

Contractor Name: David Evans and Associates, Inc.

By: 

Name: Anthony R. Marcello
(please print)

Title: Vice President
(please print)

ATTEST: [if required]

By: 

Name: Jennifer C. Wood P.E.
(please print)

Title: Project Manager
(please print)



Exhibits

A through C

Exhibit A

Consultant's Scope of Work

Professional Design and Engineering Services
W. 8th Avenue over the S. Platte River Bridge Replacement Project
Project Control No. PWT2016-064
Scope of Services
12-22-17

A. Project Understanding

This project includes professional services necessary to provide full design, specifications, cost estimates, and construction bid documents necessary for the replacement of the West 8th Ave Bridge over the South Platte River. This scope assumes that services will conclude by December 31, 2020. Services include, but are not limited to, bridge engineering, surveying, hydraulic analysis, project management, geotechnical investigations, evaluation of environmental impacts, roadway and trail design and detours, utility coordination, and public involvement. The basis of the design concept is included in “8TH AVENUE OVER PLATTE RIVER BRIDGE: Conceptual Replacement Bridge Layout and Funding Summary Report” prepared by Felsburg Holt & Ullevig, dated May 2016. Support services during construction are excluded from this scope but may be added once the construction documents are complete.

The project consists of removal and replacement of the existing bridge, which carries West 8th Avenue over the South Platte River. This bridge serves as an important transportation link to and from Interstate 25 for critical local truck access to nearby industrial uses. It is one of the only local crossings of the South Platte River in the area, serving businesses and populations to the east and west. At 89 years old, the existing structure has far exceeded its initial life expectancy of 50 to 75 years. Built in 1928 and subsequently rehabilitated after the 1965 flood, this 171-ft, 6-in long, three-span bridge steel superstructure consists of riveted exterior girders, riveted floor beams, and steel stringers. The bridge has an 8-in concrete deck with a 2½-in asphalt overlay. Some of the steel members are considered “fracture critical,” indicating that the failure of certain members would cause a partial or complete collapse of the bridge. The bridge is also functionally obsolete due to its narrow lanes. Continued scour of the southeast pier also heightens the urgency to replace this structure, and the existing condition of the riding surface and the lack of pedestrian facilities are constant reminders to the public that this bridge is in need of replacement.

In addition to the bridge replacement, a new South Platte River Trail connection bordering the west side of the existing Frog Hollow Park parking lot will be designed. The trail connection will tie to the trail near the existing pedestrian bridge, which spans over the South Platte River to the south of West 8th Avenue to the crosswalks at the West 8th Avenue/Zuni Street intersection. The project will also replace and bring up to current standard approximately 450 ft of the South Platte River Trail along the west bridge abutment. Existing connections from West 8th Avenue to the South Platte River Trail will be evaluated for removal or reconstruction, as warranted.

Preliminary indications from Denver traffic engineers are that, if justified, and with appropriate detours, West 8th Avenue will be allowed to be completely closed at the bridge site while the existing bridge is being demolished and the new bridge is being built. For this scope, it is assumed that the full closure of West 8th Avenue will be justified. The design team will prepare a memo for signature of the City and County of Denver (CCD) traffic group recommending full closure of the bridge and will include supporting data to support this recommendation. It is anticipated that construction will be scheduled such that work in the river channel will occur in low flow season only.

Funding from CCD is currently available for design of the project. Funds for ROW and construction were recently approved in the CCD bond program and are expected to be available in 2018.

B. Project Scope and Tasks

This Scope of Work is for Professional Services necessary to evaluate potential environmental impacts, complete the preliminary and final design drawings, specifications, and cost estimates and construction bid documents for the full and final design of the project. Professional Services during construction are specifically excluded from this scope. CCD may in its sole discretion decide to add Professional Services during construction by a future written amendment. Scope and fee for those services will be negotiated at that time.

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Anticipated fees for this scope include the following:

Labor: \$716,770

Additional Services: \$25,000

Direct Expenses: \$49,999

Total: \$791,769

Anticipated tasks for this scope include the following:

Task 1 - Project Management

This task is in support of the CCD's Project Manager and Project Management Team with the management of this project. Individual tasks include:

- A. Coordinate project tasks, including project meetings, with the CCD's Public Works Project Manager, and other CCD personnel and departments as required.
- B. Review sub-consultant invoices; prepare and submit monthly invoices and progress reports. Invoices must meet CCD's format and requirements.
- C. Develop and maintain a project schedule in Microsoft Office Project; update monthly and include with monthly invoice.
- D. Manage and coordinate work efforts of the Consultant Team.
- E. Prepare and submit a QA/QC plan and adhere to the process throughout the project.

Task 2 – Survey

This task includes full field survey and related services as needed in order to complete the design of the project, including survey needed for bridge replacement and hydraulic analysis, Right-of-Way (ROW) acquisition, and for approach road and trail work. Individual tasks include:

- A. Conduct/Attend coordination meetings with CCD staff (including CCD Survey Department).
- B. Provide required traffic control for survey activities.
- C. Depict topography, physical features and utilities on the base mapping along with existing ROW and property ownership. Prepare survey control map depicting locations of project monuments. All work of surveying and installation of monuments shall be in accordance with CCD requirements and applicable State statutes.
- D. Locate subsurface investigation test holes in association with Task 3.
- E. Locate utility potholes in association with Task 11.
- F. Produce a planimetric map of the project area. Features located will include, but not be limited to, the existing bridge and approach roadway, edges of pavements, the existing trails, park, sidewalks, paths and parking lots, railings, the existing river channel, surface and subsurface drainage features, irrigation, signs, light poles, fences, driveways and/or curb cuts, curbs, and all other existing features.
- G. Prepare a Survey Control Diagram
- H. Obtain utility location maps from the Utility Companies, which identify utility facility locations in the project area. The field survey will locate utility poles, manholes, valves, pedestals, guy wires, and other visible utility features. Underground utilities will be shown as marked by utility companies. Obtain

Professional Design and Engineering Services
W. 8th Avenue over the S. Platte River Bridge Replacement Project
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invert elevations of manholes and vaults. Utility surveys will be accomplished within the project limits. Show the horizontal and vertical locations in the design plans and cross-sections. "Potholing" of utilities will be performed at critical locations. Attend Utility Coordination meetings as requested (see Tasks 10 and 11).

- I. Locate storm sewer pipes and inlets and determine invert elevations.
- J. Establish existing and proposed Right of Way linework – use to identify partial takes and easements necessary for completion of the project.

Task 2A – Right of Way Documents

This task includes developing necessary final ROW plans and legal descriptions as described below. These documents will be done in accordance with the same format used by CDOT. It is anticipated that acquisition of right of way will be needed because of the proximity of adjacent properties and due to the fact that the new bridge will be longer and wider than the existing bridge. Individual tasks include:

- A. Determine what partial takes and easements are necessary to construct and maintain all items constructed by the project.
- B. Prepare an Ownership map and tabulation.
- C. Prepare legal exhibits and descriptions for all land acquisitions and remnant parcels, and temporary construction and permanent easements. These will be reviewed and approved by the City Surveyor's Office for content and format.
- D. Prepare final ROW plans.
- E. Conduct/Attend a ROWPR with city engineering and city survey staff.
- F. Revise the ROW plans based on comments received at the ROWPR.
- G. Conduct/Attend project coordination meetings with CCD.
- H. Revise and submit the ROW plans to CCD that address revisions resulting from negotiations during the ROW acquisition.
- I. All ROW Plans and Legal Descriptions shall bear the seal of a Colorado Registered Professional Land Surveyor

Task 2B – Support for Right of Way Acquisition Team

This task includes supporting the CCD Real Estate Division, their consultant, and the CCD Project Management Team by providing technical support during the acquisition period. Appraisals, title work, determination of offers to property owners, sending offer letters, negotiations with property owners, closings, and any necessary relocation issues will be done by the Denver Real Estate Division and their consultant.

Individual tasks include:

- A. Attend meetings to give technical explanations of what the project will entail and why partial takes and easements are needed.
- B. As requested by CCD during negotiations with property owners, locate and mark in the field current and proposed property lines, limits of easements, and other features in order to facilitate negotiations and exchange of information between CCD and property owners. Project appraisers and negotiators (hired by the Denver Real Estate Division) and others involved and/or affected by the project may request that these items be marked in the field.

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- C. In accordance with the requirements in Task 2, revise and eventually finalize ROW Plans, Legal Descriptions, and other documents as requested by CCD based upon the outcome of the CCD's negotiations with property owners.

Task 3 - Geotechnical Investigations and Analysis

This task includes the subsurface investigation and analysis for the purposes of final bridge and wall structural foundation recommendations, roadway pavement design, roadway and structural fill recommendations, and rip-rap or other items in the river. Path thicknesses will be based on current CCD standards. The task also includes providing boring log plan sheets and materials-related project specifications. Depending on findings of the Phase I Environmental Site Assessment (ESA) (see Task 4), perform additional design as required to address any existing non-hazardous or hazardous materials removal or remediation. Individual tasks include:

- A. Notify Utility Notification Center of Colorado of the intent to bore and request utility locates.
- B. Obtain soil and water samples for soil categorization and analysis. Each boring will be field screened for non-specific volatile organic compounds using a photo ionization detector.
- C. Upon completion of drilling, groundwater levels will be measured and then the boreholes will be backfilled in accordance with the requirements of the CCD permit with the exception of one borehole which will be chosen by CCD.
- D. File a notice of intent to construct a monitoring well (Form GWS-51) with the State Engineer's Office (SEO). Following drilling and well completion, a well construction and test report (SEO form GWS-31) and monitoring/observation water well permit application (SEO form GWS-46) will be filed. CCD will be listed as the owner of the well.
- E. Install one 2-inch diameter groundwater monitoring well. The well will be constructed with a silica sand pack around a 10-foot screened interval and the remainder of the borehole will be backfilled with bentonite chips. The well will not be installed in borings drilled within the roadway. The well will be completed with a well cover mounted flush to the parking area/bike path/ground surface.
- F. Measure and develop the groundwater level upon completion of well construction. Water generated during well development will be drummed and removed from the site.
- G. Provide CCD with a key to the monitoring well so a groundwater sample may be collected for analytical testing.
- H. Drum and remove drill cuttings from the borings.
- I. Transport the geotechnical samples to the laboratory for further observation and laboratory testing. Depending on the lithology of the materials encountered, tests may include natural moisture content, unit weight, grain size distribution, Atterberg limits, corrosion, swell, and Rvalue.
- J. Incorporate final geotechnical recommendations into an engineering geology plan sheet.
- K. Provide design parameters for all features listed above.
- L. Finalize and provide design recommendations in a Report sealed by a Colorado Registered Professional Engineer. The report shall include recommendations for type, size and tip (bottom) elevation of the required foundation. Specify if pre-drilling, pile tip, casing, dewatering, etc., are needed for foundation construction.
- M. Assist in writing project special provisions.

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- N. Conduct/attend coordination meetings with CCD. Assume one kickoff meeting and two design review meetings.

Assumptions

1. During geotechnical drilling activities, a CCD Department of Environmental Health (CCD – DEH) representative will field screen soil samples for non-specific VOCs. The CCD – DEH representative will also collect a groundwater sample from the monitoring well in a separate mobilization after well development is completed. Analytical tests performed on the sample will include the constituents of concern listed in Attachment 1 of the CDPHE construction dewatering permit (semi-volatile organic compounds [SVOCs], volatile organic compounds (VOCs), and RCRA 8 metals). The CCD – DEH representative will also collect soil samples for subsequent analytical testing if evidence of suspect hazardous materials is observed during drilling activities. These services will be completed by an outside contractor approved under CCD – DEH’s on-call contract.
2. During geotechnical drilling activities, a certified asbestos building inspector will oversee the borehole drilling to evaluate for potential buried asbestos-containing building materials. Debris that is removed from boreholes will be appropriately collected and submitted to the CCD-approved laboratory. These services will be completed by CCD – DEH’s contractor.
3. Well abandonment is not included in the scope of work. The monitoring well will require abandonment by others and submittal of SEO Form GWS-09 within 18 months of installation, or it will need to be converted to a permanent monitoring well. The well abandonment will be performed by CCD – DEH’s contractor.

Task 4 – Evaluate and Address Environmental Impacts

This task includes evaluating potential environmental impacts resulting from the proposed bridge design and construction; identifying and incorporating appropriate mitigation measures; and obtaining or preparing information to obtain required federal, state, and local environmental permits. Although the project likely does not have a federal nexus that would require CCD to obtain environmental clearance through the National Environmental Policy Act (NEPA), a similar level of due diligence is required by CCD to determine the types and magnitudes of any environmental hazards or concerns, and to identify appropriate avoidance, minimization, or mitigation of impacts. For this scope, it is assumed that the project will not have a federal nexus. It is anticipated that construction will be scheduled such that work in the river channel will occur in low flow season only. Individual tasks include:

- A. Understanding of Existing Conditions and Environment – Collect data and information necessary to identify and evaluate potential short- and long-term impacts to environmental and human resources that may directly or indirectly result from the project. Conduct desk-top data and database searches, mapping, limited field reconnaissance, and other information as needed that is related to localized air quality, historic and archaeological resources, environmental justice, hazardous materials, construction noise, threatened and endangered species, vegetation, wildlife, and fisheries as well as wetlands and waters of the US. Prepare resource reports and mapping as needed to characterize the existing environment and to identify resources that may be adversely affected by the project.
- B. Evaluate Potential Environmental Impacts and Mitigation – Using data collected in the previous task and applying 30% conceptual bridge design plans prepared in other concurrent tasks, evaluate the potential impacts to resources within the study area. The level of effort will depend on the resource types and anticipated magnitude or severity of impact, either directly or indirectly. Work with the design team to modify the project design to avoid or reduce impacts where possible, and identify potential mitigation measures to be incorporated into the project design or implemented individually.

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- C. Incorporate Sustainable and Resilient Project Elements – Work with the project design team to incorporate sustainability measures into the project, including, but not limited to, the use of recycled materials, minimizing waste materials, habitat restoration, designing for structural resiliency during storm events, and reducing long-term life cycle costs. Following the FHWA’s INVEST Sustainability rating model or similar model, evaluate the proposed bridge design concepts against the rating criteria to identify sustainable elements of the design and recommend measures that may substantially improve the sustainability and resiliency of the preferred design. Include any requirements for permanent water quality, if needed. The Project must comply with CCD’s MS-4 Permit.
- D. Incorporate Environmental Requirements into the Contract Bid Documents – Review and follow the requirements of the referenced “Memorandum – Environmental Review for Replacement of 8th Avenue Bridge Spanning South Platte River (Memorandum), Denver Department of Environmental Health, dated February 23, 2017.” Prepare and include a Materials Management Plan in the Contract Bid Documents based on the soil and groundwater sampling results collected during the geotechnical drilling activities. Testing for lead based paint and asbestos containing materials as a component of the bridge shall be performed by the consultant, and abatement of these materials shall occur per the directives of the Memorandum.
- E. Obtain Environmental Permits and Clearances – Identify and obtain as required, federal, state and local permits and clearances to address environmental impacts or conditions including a United States Army Corps of Engineers (USACE) Section 404 permit. The Section 404 permit is a federal permit and therefore requires Section 7 threatened and endangered species consultation and Section 106 historic information be provided to the USACE for purposes of their internal NEPA clearance.
- F. Public Outreach and Project Coordination – See Tasks 13 and 14 for Public Outreach and Project Coordination requirements.

The following table references the environmental resources that will be completed as part of the project and the anticipated level of analysis and deliverable.

| Resources | Anticipated Deliverables |
|------------------------------|---|
| Air Quality | Lead Team Member - Illingworth and Rodkin |
| | Level of analysis and documentation required - Prepare a technical memorandum that will include a qualitative analysis, a quantitative Hot Spot carbon monoxide and PM 10/2.5 analysis, and air quality impacts during construction. Modeling will not be included in the analysis. |
| Archaeology | Lead team member - Metcalf Archaeological Consultants |
| | Level of analysis and documentation required – Prepare a technical memorandum that includes an investigation of prehistoric and Native American resources and a file review of the Office of Archaeology and Historic Preservation’s (OAHP) on-line Compass database, with recommendations for their management or treatment in light of the project. A site visit will not be required. |
| Environmental Justice | Lead Team Member - DEA |
| | Level of analysis and documentation required – Complete a cursory review that includes a summary of the minority and low-income data for a ½ mile area surrounding the project. This data will be collected from the US Census by block group. Transit dependency and/or property acquisition impacts will not be included as a part of the evaluation. This review will not follow the typical Federal Highway Administration Environmental Justice Analysis. Additionally, an evaluation of noise impacts will not be completed. It is not anticipated that telephone or door-to-door interviews and/or surveys with adjacent and potentially impacted land owners will be completed. Furthermore, it is not anticipated that graphics will be prepared and/or community or neighborhood association meetings will be attended as a part of this task. |

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| Resources | Anticipated Deliverables |
|---|---|
| Hazardous/Solid Waste | Lead team member - DEA |
| | Level of analysis and documentation required - Collect suspect asbestos containing materials and lead based paint, if these materials are observed as a component of the bridge and have not been previously sampled. It is assumed that CCD will prepare a Phase I Environmental Site Assessment due to the property acquisition at the southwest corner of the study area. One soil and groundwater sample will be collected as part of the geotechnical assessment and results will be included within the geotechnical report. Additionally, due to the presumed presence of discarded building materials that may be encountered during construction activities, a certified asbestos building inspector, under contract with CCD, will be present to inspect on-site soils during the geotechnical assessment. Based on the soil and groundwater sampling results collected during the geotechnical drilling activities, a Material Management Plan will be prepared by DEA. |
| Historic Resources | Lead team member - Mead and Hunt |
| | Level of analysis and documentation required – An Area of Potential Effect (APE) will be developed followed by a Compass database search of the OAHHP within the appropriate project area. Following research, an intensive-level field survey will be conducted to photograph and document eligible historic properties within the APE. Based on this initial review, it is expected that up to seven potentially eligible historic properties will be recorded as part of the intensive level historic survey. Documentation of determinations of eligibility for up to seven historic properties will be prepared for consultation between CCD and SHPO and consulting parties concerning NRHP-eligibility findings and determinations of effects. This scope also includes assistance in the resolution of adverse effects including the drafting of a Memorandum of Agreement (MOA) between CCD and SHPO. |
| Noise | Lead team member – DEA |
| | Level of analysis and documentation required – Full evaluation is not anticipated. Standard construction noise text will be included within the plans. |
| Section 6(f) | Lead team member – DEA |
| | Level of analysis and documentation required - Coordinate with Colorado Parks and Wildlife to determine if this segment of the South Platte River Greenway Trail and Frog Hollow Park are eligible Section 6(f) resources. If so, prepare a map and description of potential impacts to the trail and/or park for CCD/CPW consultation on effects. This scope does not include tasks associated with the Section 6(f) park conversion process. |
| Biological Resources including Threatened and Endangered Species | Lead team member - Mead and Hunt |
| | Level of analysis and documentation required - Prepare a technical memorandum using a combination of field work, research, and impact analysis to potential sensitive threatened and endangered species, migratory bird treaty act (MBTA) species, and the vegetative communities within the study area. A cursory-level field survey will be conducted to photograph and document the presence of existing vegetation communities, identify and evaluate potential bridge infrastructure where MTBA species may be nesting and/or roosting, and collect GPS data to identify impact locations of sensitive species occurrence or habitats. If migratory bird nests are identified in the field survey, prepare plan specifications and notes to document avoidance and mitigation requirements of the MBTA. |
| Wetlands and Waters of the US | Lead team member - Mead and Hunt |
| | Level of analysis and documentation required - Prepare a technical memorandum using a combination of research, field survey, and impact analysis to evaluate for the occurrence of potential USACE Waters of the US (WOUS) within the study area. A site assessment that determines the extent of impacts to current WOUS and associated riparian habitat will be conducted and GPS data will be collected to identify impact locations of sensitive species occurrence or habitats. |

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Assumptions

1. CCD – DEH will conduct a Phase I ESA for properties and/or easements that are identified for acquisition and identify any known or potentially hazardous materials or contaminated sites.
2. An evaluation of the following resources will not be completed as part of this project.
 - Land Use
 - Parks and Recreation

Task 5 – Hydraulic Analysis, Drainage and Permitting

This task includes hydraulic analysis of the river needed to set the low chord elevation of the bridge and to determine impacts to water surface elevation and floodplain boundaries caused by the new construction. This task also includes performing scour analysis to ensure that the new installation is scour resistant. Drainage/hydraulic issues on the approach roadways, adjacent park, trails, parking lot and adjacent areas are also included. It is anticipated that construction will be scheduled such that work in the river channel will occur in low flow season only. However, if this should change for any reason, significant provisions requiring additional hydraulic analysis will have to be made to ensure that no property impacts occur during construction in the event of a 100-yr flood in high flow season, and special considerations including level of protection/diversion/in-river BMP's for work in waterway during high flows will have to be considered. Individual tasks include:

- A. Conduct detailed hydraulic analysis of the river as necessary in order to ensure, to the maximum extent practicable, that a minimum of three feet of freeboard (100-yr WSEL to Low Chord) is obtained. If three feet of freeboard cannot be achieved due to physical constraints, as much freeboard as possible must be provided and the project must then be designed and constructed to minimize potential debris impacts to the bridge, and damage/impacts caused by flooding that could occur as a result of debris blockage must be minimized as well. The considerations include, but are not limited to: structural design that accounts for debris raft in accordance with AASHTO Bridge Design Specifications, design of bridge to withstand uplift and overtopping, and bridge design that facilitates passage of debris approaching low chord of the bridge (e.g., tapered upstream face, etc...). The latest Flood Hazard Area Delineation (FHAD) hydraulic model from UDFCD shall be used for freeboard calculations. FEMA approved discharges from South Platte River Hydrology CLOMR, Case #16-08-330R, may be used if not already incorporated into the FHAD model.
- B. Provide a full FEMA CLOMR & ~~LOMR~~ analyses. If the bridge is designed as a no-rise bridge, a CLOMR may not be required. CLOMR & ~~LOMR~~ analyses must use FEMA effective hydrology and hydraulic models. No-rise analysis may utilize latest FHAD model and SPR Hydrology CLOMR as basis for comparing existing and proposed conditions, if desired.
- C. Coordinate with UDFCD and Denver Public Works regarding ongoing planning efforts, particularly the Urban Waterways Restoration (UWR) study with the USACE.
- D. Coordinate with UDFCD and Denver Public Works regarding ongoing flood studies, particularly the UDFCD Flood Hazard Area Delineation (FHAD) study.
- E. Perform drainage design in accordance with the City and County of Denver Storm Drainage Design & Technical Criteria Manual, including any requirements for permanent water quality, if needed. The Project must comply with Denver's MS-4 Permit.
- F. Perform scour analysis and design such that new installation is scour resistant for general scour issues and for 100-yr and 500-yr scour analyses.

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- G. It is anticipated that construction will be scheduled such that work in the river channel will occur in low flow season only. However, if this should change for any reason, significant provisions requiring additional hydraulic analysis will have to be made such that property is protected during construction in the event of a 100-yr flood in high flow season, and special considerations including level of protection/diversion/in-river BMP's.
- H. Develop 30%, 90%, and final bid plans, specifications, drainage reports, drainage quantity tabulations and cost estimates for river and drainage design elements and removals.
- I. Obtain CCD Sewer Use and Drainage Permit for floodplain use.
- J. Conduct/Attend coordination meetings with CCD, UDFCD, and others as needed.
- K. Support obtaining 404 permit and ESA compliance.

Task 6 – Structural/Bridge Engineering

This task includes the design, detailing, specifications, and quantity and cost estimates of and for the new bridge, retaining walls, and all other minor structures as required. This task does not include an analysis of possible scenarios and construction phasing sequences that might allow portions of the existing bridge to remain open and carry traffic while portions of the new bridge are being constructed, alleviating the need to close 8th Avenue entirely while construction of the new bridge is taking place. Instead, it is assumed that 8th Avenue can be closed and the bridge is constructed in a single phase. Individual tasks include:

- A. Preliminary Phasing: Preliminary indications from Denver traffic engineers are that, if justified, and with appropriate detours, West 8th Avenue will be allowed to be completely closed at the bridge site while the existing bridge is being demolished and the new bridge is being built. For this scope, it is assumed that the full closure of West 8th Avenue will be justified. The design team will prepare a memo for signature of the City and County of Denver (CCD) traffic group recommending full closure of the bridge and will include supporting data to support this recommendation. If requested, additional scope for phasing analysis including scenarios which allow 8th Avenue to remain open (with one lane of through traffic open in each direction on 8th Avenue during construction) by phasing the bridge construction may be added. Both standard bridge construction methods and accelerated bridge construction techniques may be included in the analysis.
- B. Produce a Structure Selection Memorandum for the new bridge and walls. The memo shall include existing structure data, project site plan, roadway vertical and horizontal alignments and cross sections of the structure, utilities on and near the site, hydraulics (including 500-year high water elevation, scour, and channel erosion protection), preliminary geology information and structure foundation types, and architectural requirements. The Memorandum assumes:
 - a. Evaluation of 2- and 3-span layouts and shall compare the costs of only two (2) super-structure types 1) Adjacent box girders, and 2) Bulb-Tee girders.
 - b. The wall portion of the memo shall provide a brief discussion of wall types and costs, but shall not include any drawings at this level of design.
 - c. A Life Cycle Cost (LCC) estimate shall not be performed. It is assumed the deck protection treatment will be waterproofing membrane.
- C. Perform the structural analysis, design, and detailing of the new bridge, retaining walls (assumes two (2) walls under the west abutment), and other minor structures associated with the project (up to two (2) structures). Design shall be in accordance with AASHTO, CDOT, and CCD requirements. Provide design calculations, detail notes, and computer outputs.

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- D. Coordinate and develop aesthetic enhancement details as required on the bridge and walls.
- E. Perform independent design checks for the structures (bridge and retaining walls).
- F. Develop 30%, 90%, and final bid plans, specifications, quantities and cost estimate for all structures.
- G. LRFD Bridge Ratings, in accordance with the CDOT Bridge Rating Manual and the AASHTO Manual for Bridge Evaluation, will be provided in a future construction phase contract. The AASHTO Ware Bridge Rating software shall be used at that time. A cursory rating will be performed during the design phase to verify the bridge will rate as required.
- H. Assume attendance at the following meetings: Scoping Meeting, structure selection review meeting, traffic recommendation meeting with CCD Traffic, and one each for the 30%, 90%, and final set reviews.

Task 7 – Roadway and Trail Design

This task includes preliminary and final design of roadway elements, including approach roadways and trails for the project as described in the Project Description and Overview. Also included are trails near and under the bridge on the west side of the river, roadway/trail signing and striping design, and the design of traffic signal and curb ramp upgrades at the Zuni Street/8th Avenue intersection.. Individual tasks include:

- A. Design horizontal and vertical alignments of approach roadways and trails in accordance with CDOT's Standard Specification for Road and Bridge Construction, CCD Transportation Standards and Details and all ADA compliance requirements.
- B. Develop profiles, cross sections, geometrics, grading, and pavement/trail sections based on the above referenced requirements. Pavement design recommendations will be included in the geotechnical scope of work for the approach roadways. Trail thicknesses will be based on current depth, CCD standards and/or CCD recommendations.
- C. Provide alignments, toes of slope and pertinent design features, including permanent and temporary impacts, to the ROW, Utility and Environmental task leads.
- D. Develop removal plans where applicable.
- E. Develop restoration plans for affected landscaping and any affected irrigation systems.
- F. Develop 30%, 90%, final bid plans, specifications, quantities, and cost estimate for all elements.
- G. Conduct/Attend coordination meetings.

Task 8 - Construction Detours and Construction Traffic Control

This task includes developing construction detours and traffic control plans for construction of the project as described in the overview. Detours and traffic control plans will be required for both affected roadways and bike paths. Individual tasks include:

- A. Design detour and traffic control, including plans, signs, striping, and any necessary typical sections, horizontal alignment, profiles or cross-sections for a single vehicle detour route. Access to adjacent properties shall be maintained continuously throughout the duration of construction. The detour of the bike path shall be designed in such a way to provide a high ease-of-use/trail-like experience whenever possible. If an on-street detour is needed, it shall be designed to be amenable to trail users when possible. This is particularly of concern given the land uses in this area. Provide memo to CDOT indicating impacts to I-25 are not anticipated.
- B. Develop construction traffic control specification.

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- C. Develop a schedule of construction traffic control items based on traffic control required for detours and construction phasing.
- D. Develop 30%, 90%, and final bid plans, specifications, quantities and cost estimate for construction detour and traffic control.

Task 9 – Electrical and Lighting Analysis & Design

This task includes final design of pedestrian and street lighting within the project limits. Street lighting on 8th Avenue and pedestrian lighting under the bridge are included. The lighting will be Xcel owned, operated and maintained. They will be placed on CCD's Street Lighting tariff, SL Individual tasks include:

- A. Prepare electrical and lighting design within project limits with the following information shown on the plan sheets:
 - a. Circuit type and voltage of power source
 - b. Luminaire type and lumens
 - c. Light standard type
 - d. Foundation details
 - e. Size and location of electrical conduit
 - f. Locations of power sources(s)/lighting control center(s)
 - g. Location of direct burial cable
 - h. Size of wiring and/or direct burial cable
- B. Coordinate electrical utility design in association with Tasks 10 and 11.
- C. Develop 30%, 90%, final bid plans, specifications, quantities, and cost estimate for all elements.
- D. Conduct/Attend electrical and lighting design coordination meetings with CCD and appropriate utility agencies.

Task 10 - Utility Coordination

This task is in support of the City & County of Denver's efforts to coordinate with utility companies and obtain utility agreements with the affected utility companies for the project described in the overview.

Individual tasks include:

Obtain outstanding utility key maps (approximately 4 companies). Contact identified utility owners to confirm the presence of facilities in the project area and to obtain location maps and information on planned facilities. Provide maps to surveyor for utility survey. Field verify location maps and utility survey. (Related to Task 2.H)

- A. Meet one-on-one with utility companies and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies. Set up meetings, develop agendas, facilitate meetings, and develop meeting minutes.
- B. Obtain easements, license agreements, and relocation agreements from Utility companies as applicable and provide to CCD.
- C. Conduct/Attend utility coordination meetings with CCD, Denver Water, Xcel, and all other impacted utilities, separate from one-on-one utility meetings mentioned above.

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- D. After 90% plan review, conduct as needed coordination/comment resolution meetings with utility owners on wet and dry utility design.
- E. Prepare the utility specification for the 90% and beyond submittals, which shall carefully detail the contractor's responsibilities and the Utility's responsibilities.
- F. Prepare, coordinate and obtain utility clearance letters with the affected utility agencies after the 90% design review meeting. Assume three letters.
- G. Complete Xcel Energy work order request form and coordinate relocation of light poles with Xcel. Obtain estimates of probable cost for any utility relocations that are a cost to the project.

Task 11 - Utility Design

This task includes potholing, developing existing utility plans and identifying utilities that will be affected by the final design within the project limits, and relocation design of affected wet & dry utilities within the project limits. Individual tasks include:

- A. Identify potential utility conflicts between existing utilities and proposed improvements for coordination with design team and utility companies.
- B. Conduct supplemental Utility potholing- assume 6 potholes with temporary patches over 1 day.
- C. Create pothole location map and log plan sheet(s).
- D. Prepare existing utility plan sheets showing existing utility facilities, existing utility easements and conflicts with proposed construction.
- E. Prepare a summary table of all utilities within the project limits, noting utility adjustments, relocations and / or replacement.
- F. Create an existing manhole log plan sheet(s).
- G. Coordinate design for utility relocations.
- H. Develop 30%, 90%, final bid plans, specifications, quantities, and cost estimate for utility relocations.
- I. Develop utility relocation quantity tabulations and cost estimate for 30%, 90%, and final bid.
- J. Develop tabulation of utility removals and adjustments.
- K. Check utility clearances and existing utility locations as they relate to proposed grading.

Task 12 - Erosion Control Analysis & Design

Individual tasks include:

- A. Develop 30%, 90%, and final bid plans, specifications and cost estimate for construction and permanent erosion control.
- B. Develop erosion control quantity tabulations for 30%, 90%, and final bid.
- C. Assist CCD in obtaining miscellaneous permits from CCD departments and outside entities with regard to construction.

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Task 13 - Public Outreach and Information

This task is in support of the City and County of Denver’s public outreach efforts for the project. Individual tasks include:

- A. Prepare a Public Communication Contact List.
- B. Prepare content for CCD Public Works project web page updates. Coordinate the updates with Denver Public Works.
- C. Coordinate meetings with adjacent property owners, business owners, neighborhood associations, adjacent projects/developments, Mayor’s Bicycle Advisory Committee, Mayor’s Pedestrian Advisory Committee, and any special districts.
- D. Develop graphics, handouts, and other useful media for Public Outreach and communications.

Task 14 - Multi Agency Involvement & Coordination, Stakeholder Coordination

This task is in support of the City and County of Denver’s coordination efforts with other Denver agencies and with outside agencies and stakeholders related to the project. Individual tasks include:

- A. Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor’s Bicycle Advisory Committee, Mayor’s Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others.
- B. Coordinate with project stakeholders.
- C. Conduct/Attend coordination meetings with coordinating agencies.
- D. Submittals to affected agencies will be coordinated with CCD.

Task 15 – Design Progress / Coordination Meetings

This task covers project management coordination meetings, consultant team coordination meetings and miscellaneous meetings with CCD staff and outside entities. Individual tasks include:

- A. Attend project management meetings.
- B. Attend consultant team coordination meetings.
- C. Attend outside agency coordination meetings as described in other tasks and as required.
- D. Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, and 90%, and final review meetings and associated comment resolution meetings.
- E. Prepare agendas, exhibits, handouts, conduct and write minutes for above-mentioned meetings. Minutes will be completed and distributed within seven days of the meetings.

Task 16 – Additional Services

This task covers unanticipated items or additional services as approved by CCD’s Project Manager.

Miscellaneous Requirements

- A. Plans and Specifications shall follow CDOT format.
- B. Development of topographic data shall follow CCD CAD Standards.

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- C. Electronic information shall be organized using CCD's file directory structure.
- D. Electronic Files shall be transmitted to CCD upon completion of the project organized in accordance with the CCD file directory structure.
- E. All documents shall be provided in a pdf format in addition to the file created by the original program.
- F. Plan and Specification packages shall be submitted in accordance with Denver Public Works Engineering, Regulatory & Analytics Office requirements and CDOT's final PS&E checklist.

Work Product

At a minimum, the Consultant work products shall include:

- A. Reports
- B. Environmental Documents as referenced in Task 4.
- C. 30% Plans and Estimates consistent with CDOT Field Inspection Review requirements.
- D. 90% Plans, Specifications, and Cost Estimates consistent with CDOT Final Office Review requirements.
- E. 100%, Final Construction (100%) Plans, Specifications, Cost Estimate
- F. Advertisement/Bid Plans, Specifications, Calculations and Cost Estimate. Bid Plans, Specifications, and calculations shall bear the seal of a Professional Engineer registered in the State of Colorado.
- G. Project Coordination
- H. Schedules
- I. Meeting Minutes
- J. Environmental permits, Utility, and ROW Documents
- K. Professional Engineer Stamped Record Sets

PROJECT REPORTS AND INFORMATION

The following items have been developed in support of the project and if not already, will be provided by CCD

- A. 8th Avenue over Platte River Bridge: Conceptual Replacement Bridge Layout and Funding Summary Report, Felsburg Holt & Ullevig, May 2016
- B. W. 8th Ave. Bridge over South Platte River Plans - Dated 1928
- C. Flood Repair Plans to W. 8th Ave. Bridge over S. Platte River - Dated 1965
- D. 2014 Inspection Report, Structure D-02-PR-150, 8th Ave. over the Platte River Bridge, CDOT Inspection of Bridge Fracture Critical Members
- E. Memorandum – Environmental Review for Replacement of 8th Avenue Bridge Spanning South Platte River, Denver Department of Environmental Health, February 23, 2017
- F. 8th St. over Platte River Bridge Underwater Inspection, ASI Constructors, Inc., March 7, 2016
- G. 8th Avenue over South Platte River-Structural Analysis, AECOM, Revision 1, March 18, 2016
- H. Condition Assessment Study for the 8th Ave. Bridge over the South Platte River, Parsons Brinckerhoff Quade & Douglas, Inc., August 27, 2003

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- I. Plans for Rehabilitation of 8th Ave Bridge over the South Platte River, Parsons Brinckerhoff Quade & Douglas, Inc., August 10, 2004. These plans are associated with the Condition Assessment referenced above, and the work shown on these plans was never constructed.

All of these materials are available electronically at:

www.denvergov.org/content/denvergov/en/contract-administration/current-bidding-opportunities/2017/documentation.html

Exhibit B

Key Personnel

Fee Summary



**DAVID EVANS
AND ASSOCIATES INC.**

December 22, 2017

James Geist, PE
Senior Engineer/Project Manager
City and County of Denver
Department of Public Works
Capital Projects Management
201 W. Colfax Ave., Dept. 506
Denver, CO 80202

SUBJECT: W. 8th over the S. Platte River Bridge Replacement Project

Dear Mr. Geist,

The attached package contains the Scope of Services, Cost Spreadsheet, and Cost Summary for the West 8th Avenue over the S Platte River Bridge Replacement Project. Additional information included in this letter includes fee summary, consultant billing titles and rates, and consultant direct expenses.

Please contact me if you have any questions regarding the information attached.

Fee Summary

- Fee
 - Basic Services: \$716,770.33
 - Additional Services: \$25,000
 - Direct Expenses: \$49,999
 - Total: \$791,769.33
- End Contract Date: December 31, 2020

Prime and Subconsultant Fees and Expenses

| Title | Rate |
|---|-------|
| Prime | |
| David Evans and Associates, Inc. | |
| Project Management | |
| Vice President | \$275 |
| Principal Engineer | \$235 |
| Sr. Project Administrator | \$110 |
| Graphics Specialist | \$90 |
| Roadway Design | |
| Engineering Task Manager | \$190 |
| Jr Engineer/Designer | \$110 |
| Hydraulics and Drainage Design | |
| Senior Project Manager | \$200 |
| Senior Engineer | \$145 |



| | |
|--|-----------------|
| Engineering Technician | \$100 |
| Structures Design | |
| Principal Engineer | \$235 |
| Senior Project Engineer | \$165 |
| Project Engineer | \$135 |
| Senior CADD Technician | \$90 |
| Junior Engineer/Designer | \$110 |
| Traffic | |
| Senior Project Manager | \$200 |
| Senior Engineer | \$145 |
| Biologist/Planner | \$110 |
| Environmental | |
| Planning Task Leader | \$160 |
| Environmental Planner | \$125 |
| Junior Engineer/Designer | \$110 |
| Senior Environmental Planner | \$145 |
| Direct Expenses | |
| Direct Expenses | \$10,294 |
| Subconsultants | |
| Clanton and Associates, Inc. | |
| Senior Principal | \$260 |
| Principal | \$180 |
| Sr. Designer | \$115 |
| Engineer | \$95 |
| Direct Expenses | \$100 |
| Goodbee & Associates, Inc. | |
| PM III | \$150 |
| PM II | \$135 |
| Designer II | \$110 |
| CAD I | \$80 |
| Administrator | \$105 |
| Direct Expenses | \$3,200 |
| Harris Kocher Engineering Group, Inc. | |
| Associate Principal | \$165 |
| Survey Project Manager | \$120 |
| Project Surveyor | \$105 |
| One Man Crew | \$130 |
| Two Man Crew | \$175 |
| Direct Expenses | \$1,790 |
| Illingworth & Rodkin, Inc. | |
| Senior Consultant | \$195 |
| Consultant | \$165 |
| Staff Consultant | \$145 |



| | |
|---|-----------------|
| Direct Expenses | \$0 |
| Mead & Hunt, Inc. | |
| Senior Historian | \$168.67 |
| Historian | \$95.21 |
| GIS | \$120.98 |
| Technical Editor/Administrative Assistant | \$85.36 |
| Senior Planner/Scientist | \$194.65 |
| Planner/Scientist | \$140.20 |
| Direct Expenses | \$1,064 |
| Metcalf Archaeological Consultants, Inc. | |
| Principal Investigator | \$105 |
| Project Director | \$85 |
| GIS Specialist | \$80 |
| Admin Support | \$85 |
| Direct Expenses | \$0 |
| Paleo Solutions, Inc. | |
| Principal Investigator | \$140 |
| Assistant Project Manager | \$85 |
| GIS Specialist | \$85 |
| Direct Expenses | \$100 |
| Regnier & Associates, LLC | |
| Outreach Specialist | \$135 |
| Admin | \$75 |
| Graphics | \$95 |
| Direct Expenses | \$0 |
| San Engineering, LLC | |
| Structural Engineer/Manager | \$130 |
| Senior Project Engineer | \$120 |
| Staff Engineer | \$115 |
| Direct Expenses | \$0 |
| Shannon & Wilson, Inc. | |
| Senior Vice President | \$250 |
| Senior Professional III | \$145 |
| Professional II | \$90 |
| Senior Professional II | \$130 |
| Drafter II | \$90 |
| Administrative II | \$70 |
| Direct Expenses | \$33,451 |
| Shrewsbury & Associates, LLC | |
| Engineer 7 (Principal) | \$220.63 |
| Engineer 5 (Project Manager) | \$164.85 |
| Engineer 4 | \$138.40 |



| | |
|------------------------|------------|
| Engineer 2 | \$90.94 |
| Engineer 1 | \$85.00 |
| Landscape Architect 4 | \$116.40 |
| Landscape Architect 3 | \$96.63 |
| Landscape Architect 1 | \$60.26 |
| Direct Expenses | \$0 |

Sincerely,
DAVID EVANS AND ASSOCIATES, INC.

Jennifer Wood, PE
Project Manager

Cost Summary

Project: 8th Avenue over South Platte Bridge Replacement

Client: City and County of Denver

All on 8th over S Platte Contract

Date: December 22, 2017

Fee by Task

| <u>Fee Breakdown</u> | <u>Labor</u> | <u>Expenses</u> | <u>Total</u> |
|--|------------------|-----------------|------------------|
| 1 Task 1- Project Management | \$76,150 | | \$76,150 |
| 2 Task 2 - Survey | \$34,040 | | \$34,040 |
| 2A Task 2A - Right of Way Documents | \$16,095 | | \$16,095 |
| 2B Task 2B - Support for Right of Way Acquisition | \$940 | | \$940 |
| 3 Task 3 - Geotechnical Investigations and Pavement Design | \$31,168 | | \$31,168 |
| 4 Task 4 - Evaluate and Incorporate Environmental Impacts | \$69,245 | | \$69,245 |
| 5 Task 5 - Hydraulic Analysis, Drainage and Permitting | \$73,940 | | \$73,940 |
| 6 Task 6 - Structural/Bridge Engineering | \$140,820 | | \$140,820 |
| 7 Task 7 - Roadway and Trail Design | \$113,464 | | \$113,464 |
| 8 Task 8 - Construction Detours and Construction Traffic Control | \$39,130 | | \$39,130 |
| 9 Task 9 - Electrical and Lighting Analysis & Design | \$17,155 | | \$17,155 |
| 10 Task 10 - Utility Coordination | \$13,290 | | \$13,290 |
| 11 Task 11 - Utility Design | \$20,390 | | \$20,390 |
| 12 Task 12 - Erosion Control Analysis & Design | \$12,166 | | \$12,166 |
| 13 Task 13 - Public Outreach and Information | \$8,580 | | \$8,580 |
| 14 Task 14 - Multi Agency Involvement & Coordination, Stakeholder Coordination | \$4,835 | | \$4,835 |
| 15 Task 15 - Design Progress / Coordination Meetings | \$45,364 | | \$45,364 |
| Additional Services | \$25,000 | | \$25,000 |
| <u>Direct Expenses</u> | | | |
| Traffic Control | | \$7,450 | \$7,450 |
| Utility Locates | | \$440 | \$440 |
| Potholing with temporary patch | | \$2,000 | \$2,000 |
| Geotechnical Drilling | | \$22,050 | \$22,050 |
| Analytical Testing Geotechnical Laboratory | | \$0 | \$0 |
| Laboratory | | \$4,791 | \$4,791 |
| Misc Geotech Expenses | | \$1,610 | \$1,610 |
| Permit | | \$0 | \$0 |
| Public meetings | | \$0 | \$0 |
| Reproduction of Submittal Sets | | \$500 | \$500 |
| Traffic Counts | | \$8,800 | \$8,800 |
| Survey Control | | \$200 | \$200 |
| Travel | | \$400 | \$400 |
| Lodging | | \$350 | \$350 |
| Meals | | \$150 | \$150 |
| OAHP file search/scans | | \$164 | \$164 |
| ACM samples | | \$84 | \$84 |
| LBP samples | | \$60 | \$60 |
| Regulatory Database | | \$350 | \$350 |
| Museum Research Fee | | \$100 | \$100 |
| Scissor Lift | | \$500 | \$500 |
| Total = | \$741,770 | \$49,999 | \$0 |
| | | | \$791,769 |

Cost Spreadsheet

LABOR RATES

Cost Spreadsheet

LABOR RATES

| Task | Consultant's Billing Rate | Project Management | | | | Roadway Design | Roadway Design | | Hydraulics and Drainage Design | Hydraulics and Drainage Design | | |
|----------|--|--------------------|--------------------|---------------------------|---------------------|----------------|--------------------------|------------------------|--------------------------------|--------------------------------|-----------------|------------------------|
| | | Vice President | Principal Engineer | Sr. Project Administrator | Graphics Specialist | | Engineering Task Manager | Jr Engineer / Designer | | Sr Project Manager | Senior Engineer | Engineering Technician |
| | | \$275.00 | \$235.00 | \$110.00 | \$90.00 | | \$190.00 | \$110.00 | | \$200.00 | \$145.00 | \$100.00 |
| 3 | Task 3 - Geotechnical Investigations and Pavement Design | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Task 4 - Evaluate and Incorporate Environmental Impacts | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 9.0 | 0.0 | 9.0 | 0.0 | 9.0 | 0.0 |
| A | 1) Collect data and necessary information | | | | | | | | | | | |
| | 1a) Biological | | | | | | | | | | | |
| | 1b) Historical | | | | | | | | | | | |
| | 1c) Archaeological | | | | | | | | | | | |
| | 1d) Air Quality | | | | | | | | | | | |
| | 1e) Noise | | | | | | | | | | | |
| | 1f) Environmental Justice | | | | | | | | | | | |
| | 1g) Section 6(f) | | | | | | | | | | | |
| | 1h) Paleontology | | | | | | | | | | | |
| B | Evaluate Potential Environmental Impacts and Mitigation | | | | | | | | | | | |
| | 2a) Biological | | | | | | | | | | | |
| | 2b) Historical | | | | | | | | | | | |
| | 2c) Archaeological | | | | | | | | | | | |
| | 2d) Air Quality | | | | | | | | | | | |
| | 2e) Noise | | | | | | | | | | | |
| | 2f) Environmental Justice | | | | | | | | | | | |
| | 2g) Section 6(f) | | | | | | | | | | | |
| | 2h) Paleontology | | | | | | | | | | | |
| | 3) Prepare Materials Management Plan | | | | | | | | | | | |
| C | Incorporate Sustainable and Resilient Project Elements | | | | | | | | | | | |
| | 1) Gather information from sustainability scoring systems; develop Denver specific Sustainability Scorecard spreadsheet, develop project sustainability goals. | | | | | | | | | | | |
| | 2) Hold Sustainability Scoring Workshops (3) at Kickoff, 30% & 90% (Consultant attendees include: PM, Roadway Lead, Hydraulics Lead, Sustainability Lead, Bridge Task Lead, & Traffic Lead). | | | | | | 9.0 | | | 9.0 | | |
| | 3) Evaluate Sustainability throughout design (life-cycle cost analysis, coordination etc.) | | | | | | | | | | | |
| | 4) Develop Sustainability Summary (1-2 page memo or pamphlet summarizing practices used on project) | | | | | | | | | | | |
| D | Incorporate Environmental Requirements into the Contract Bid Documents | | | | | | | | | | | |
| E | Obtain Environmental Permits and Clearances | | | | | | | | | | | |
| | Management of Environmental Subconsultants | | | | | | | | | | | |
| F | Quality Control / Quality Assurance | | | | | | | | | | | |
| 5 | Task 5 - Hydraulic Analysis, Drainage and Permitting | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 604.0 | 40.0 | 212.0 | 352.0 |
| A | Conduct detailed hydraulic analysis | | | | | | | | | 16.0 | 70.0 | 50.0 |
| B | Provide a full FEMA CLOMR | | | | | | | | | 4.0 | 10.0 | |
| C | Coordinate with UDFCD and Denver Public Works regarding ongoing planning efforts | | | | | | | | | 1.0 | 8.0 | |
| D | Coordinate with UDFCD and Denver Public Works regarding ongoing flood studies | | | | | | | | | 1.0 | 8.0 | |
| E | Perform drainage design | | | | | | | | | 4.0 | 30.0 | 70.0 |
| F | Perform scour analysis | | | | | | | | | 2.0 | 10.0 | |
| G | Design provisions to protect property during a 100 yr flood event during construction | | | | | | | | | | | |
| H | Develop 30%, 90%, and final bid plans, specifications and drainage reports | | | | | | | | | 4.0 | 50.0 | 210.0 |

Cost Spreadsheet

LABOR RATES

| Task | Consultant's Billing Rate | Project Management | | | | Roadway Design | | | Hydraulics and Drainage Design | | | | |
|------|---|--------------------|----------------|--------------------------------|----------------|--------------------|---------------------------|---------------------|--------------------------------|------------------------|--------------------|-----------------|------------------------|
| | | Project Management | Roadway Design | Hydraulics and Drainage Design | Vice President | Principal Engineer | Sr. Project Administrator | Graphics Specialist | Engineering Task Manager | Jr Engineer / Designer | Sr Project Manager | Senior Engineer | Engineering Technician |
| | | Project Management | Roadway Design | Hydraulics and Drainage Design | Vice President | Principal Engineer | Sr. Project Administrator | Graphics Specialist | Engineering Task Manager | Jr Engineer / Designer | Sr Project Manager | Senior Engineer | Engineering Technician |
| | | | \$275.00 | \$235.00 | \$110.00 | \$90.00 | | \$190.00 | \$110.00 | \$200.00 | \$145.00 | \$100.00 | |
| I | Develop Hydraulic and drainage quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | | 2.0 | 8.0 | 12.0 | |
| J | Obtain CCD Sewer Use and Drainage Permit for floodplain use | | | | | | | | | | 2.0 | | |
| K | Conduct/Attend coordination meetings with CCD, UDFCD, and others as needed | | | | | | | | | 2.0 | 10.0 | | |
| L | Support Obtaining 404 permit and ESA compliance | | | | | | | | | | 2.0 | 2.0 | |
| M | Quality Control / Quality Assurance | | | | | | | | | 4.0 | 4.0 | 8.0 | |

Cost Spreadsheet

LABOR RATES

| Task | Consultant's Billing Rate | Project Management | | | | Roadway Design | Roadway Design | | Hydraulics and Drainage Design | Hydraulics and Drainage Design | | |
|--|---------------------------|--------------------|--------------------|---------------------------|---------------------|----------------|--------------------------|------------------------|--------------------------------|--------------------------------|-----------------|------------------------|
| | | Vice President | Principal Engineer | Sr. Project Administrator | Graphics Specialist | | Engineering Task Manager | Jr Engineer / Designer | | Sr Project Manager | Senior Engineer | Engineering Technician |
| | | \$275.00 | \$235.00 | \$110.00 | \$90.00 | | \$190.00 | \$110.00 | | \$200.00 | \$145.00 | \$100.00 |
| 6 Task 6 - Structural/Bridge Engineering | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| A Preliminary phasing analysis | | | | | | | | | | | | |
| B Structure Selection Memo for bridge and walls | | | | | | | | | | | | |
| C Structural analysis, design, and detailing of the new bridge, retaining walls, and other minor structures (assumes 2 walls along bike path) | | | | | | | | | | | | |
| D Coordinate and develop aesthetic enhancement details | | | | | | | | | | | | |
| E Conduct Design Check of Original Cals | | | | | | | | | | | | |
| F Develop 30%, 90%, final review and bid plans and specifications | | | | | | | | | | | | |
| G Develop structure quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | | | | | |
| H Develop LRFR's (load and resistance factor ratings) | | | | | | | | | | | | |
| I Coordinate and attend two detour phasing meetings, one for structure selection report, and one each for the 30%, 90%, and final set reviews | | | | | | | | | | | | |
| J Quality Control / Quality Assurance | | | | | | | | | | | | |
| 7 Task 7 - Roadway and Trail Design | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 414.0 | 84.0 | 330.0 | 0.0 | 0.0 | 0.0 | |
| A Design horizontal and vertical alignments of approach roadways and trails | | | | | | | 8.0 | 30.0 | | | | |
| B Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | | | | | | | 12.0 | 74.0 | | | | |
| C Provide alignments, toes of slope and pertinent design features. Develop intersection detail plan with sidewalks and curb ramps. | | | | | | | 24.0 | 72.0 | | | | |
| D Develop removal plans | | | | | | | 0.0 | 16.0 | | | | |
| E Develop restoration plans for affected landscaping and any affected irrigation systems | | | | | | | | | | | | |
| F Develop 30%, 90%, final bid plans, specifications | | | | | | | 16.0 | 60.0 | | | | |
| G Develop roadway and trail quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | 8.0 | 46.0 | | | | |
| H Develop signal and sign/stripe quantity tabulations for 30%, 90%, final review and bid plans (10 sheets). Shrewsberry preparing trail plans | | | | | | | | | | | | |
| I Conduct/Attend coordination meetings | | | | | | | | | | | | |
| J Multi-modal operations integration | | | | | | | | | | | | |
| K Design traffic signal | | | | | | | | | | | | |
| L Design signing/stripping | | | | | | | | | | | | |
| M Quality Control / Quality Assurance | | | | | | | 16.0 | 32.0 | | | | |

Cost Spreadsheet

| | | LABOR RATES | | | | | | | | | | | |
|--------------|--|--------------------|----------------|--------------------|---------------------------|---------------------|----------------|--------------------------|--------------------------------|--------------------------------|--------------------|-----------------|------------------------|
| | | Project Management | | | | Roadway Design | | | Hydraulics and Drainage Design | | | | |
| | | Project Management | Vice President | Principal Engineer | Sr. Project Administrator | Graphics Specialist | Roadway Design | Engineering Task Manager | Jr Engineer / Designer | Hydraulics and Drainage Design | Sr Project Manager | Senior Engineer | Engineering Technician |
| | | Project Management | \$275.00 | \$235.00 | \$110.00 | \$90.00 | Roadway Design | \$190.00 | \$110.00 | Hydraulics and Drainage Design | \$200.00 | \$145.00 | \$100.00 |
| Task | Consultant's Billing Rate | | | | | | | | | | | | |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | 16.0 | | | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | | | | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 88.0 | 0.0 | 88.0 | 0.0 | 0.0 | 24.0 | 24.0 | 0.0 | 24.0 | 12.0 | 12.0 | 0.0 |
| A | Attend project management meetings. | | | 14.0 | | | | | | | | | |
| B | Attend consultant team coordination meetings. | | | 24.0 | | | | 24.0 | | | 12.0 | 12.0 | |
| C | Attend outside agency coordination meetings as described in other tasks | | | 10.0 | | | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | 16.0 | | | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | 24.0 | | | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Not in Contract | | | | | | | | | | | | |
| B | Not in Contract | | | | | | | | | | | | |
| Total | | 440.0 | 8.0 | 384.0 | 48.0 | 0.0 | 447.0 | 117.0 | 330.0 | 637.0 | 52.0 | 233.0 | 352.0 |
| HOURS | | | 8.0 | 384.0 | 48.0 | 0.0 | | 117.0 | 330.0 | | 52.0 | 233.0 | 352.0 |

Cost Spreadsheet

| | | LABOR RATES | | | | | | | | | | | |
|---------------------------------|---------------------------|--------------------|-------------------------|--------------------|---------------------------|---------------------|----------------|--------------------------------|------------------------|--------------------------------|--------------------|-----------------|------------------------|
| | | Project Management | | | | Roadway Design | | Hydraulics and Drainage Design | | | | | |
| Task | Consultant's Billing Rate | Project Management | Vice President | Principal Engineer | Sr. Project Administrator | Graphics Specialist | Roadway Design | Engineering Task Manager | Jr Engineer / Designer | Hydraulics and Drainage Design | Sr Project Manager | Senior Engineer | Engineering Technician |
| | | | \$275.00 | \$235.00 | \$110.00 | \$90.00 | | \$190.00 | \$110.00 | | \$200.00 | \$145.00 | \$100.00 |
| LABOR REVENUE | | \$97,720.00 | \$2,200 | \$90,240 | \$5,280 | \$0 | \$58,530.00 | \$22,230 | \$36,300 | \$79,385.00 | \$10,400 | \$33,785 | \$35,200 |
| ADDITIONAL SERVICES | | | \$25,000 | | | | | | | | | | |
| DIRECT EXPENSES | | | | | | | | | | | | | |
| Traffic Control | | | | | | | | | | | | | |
| Utility Locates | | | | | | | | | | | | | |
| Potholing with temporary patch | | | | | | | | | | | | | |
| Geotechnical Drilling | | | | | | | | | | | | | |
| Analytical Testing Geotechnical | | | | | | | | | | | | | |
| Laboratory | | | | | | | | | | | | | |
| Misc Geotech Expenses | | | | | | | | | | | | | |
| Permit | | | | | | | | | | | | | |
| Public meetings | | | | | | | | | | | | | |
| Reproduction of Submittal Sets | | | \$500.00 | | | | | | | | | | |
| Traffic Counts | | | | | | | | | | | | | |
| Survey Control | | | | | | | | | | | | | |
| Travel | | | | | | | | | | | | | |
| Lodging | | | | | | | | | | | | | |
| Meals | | | | | | | | | | | | | |
| OAHP file search/scans | | | | | | | | | | | | | |
| ACM samples | | | | | | | | | | | | | |
| LBP samples | | | | | | | | | | | | | |
| Regulatory Database | | | | | | | | | | | | | |
| Museum Research fee | | | | | | | | | | | | | |
| Scissor Lift | | | | | | | | | | | | | |
| | | Project Management | \$25,500 Total Expenses | | | | Roadway Design | \$0 Total Expenses | | Hydraulics and Drainage Design | \$0 Total Expenses | | |
| | | | \$123,220.00 | | | | | \$58,530.00 | | | \$79,385.00 | | |

Cost Spreadsheet

Cost Spreadsheet

| Task | Consultant's Billing Rate | Structures Design | | | | | Structures Support - San Engineering | Structures Support - San Engineering | | | |
|-----------|--|--------------------|---------------------|------------------|---------------------|------------------------|--------------------------------------|--------------------------------------|----------------------|----------------|------|
| | | Principal Engineer | Sr Project Engineer | Project Engineer | Sr. CADD Technician | Jr Engineer / Designer | | Structural Eng. Mgr. | Sr. Project Engineer | Staff Engineer | |
| | | \$235.00 | \$165.00 | \$135.00 | \$90.00 | \$110.00 | | \$130.00 | \$120.00 | \$115.00 | |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 24.0 | 0.0 | 0.0 | 24.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| A | Attend project management meetings. | | | | | | | | | | |
| B | Attend consultant team coordination meetings. | | | 24.0 | | | | | | | |
| C | Attend outside agency coordination meetings as described in other tasks | | | | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| A | | | | | | | | | | | |
| B | | | | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| A | Not in Contract | | | | | | | | | | |
| B | Not in Contract | | | | | | | | | | |
| | Total | 1,167.0 | 18.0 | 87.0 | 254.0 | 390.0 | 418.0 | 142.0 | 18.0 | 78.0 | 46.0 |
| | HOURS | | 18.0 | 87.0 | 254.0 | 390.0 | 418.0 | | 18.0 | 78.0 | 46.0 |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Structures Design | | | | | Structures Support - San Engineering | | |
|---------------------------------|---------------------------|--------------------|---------------------|------------------|---------------------|------------------------|--------------------------------------|----------------------|----------------|
| | | Principal Engineer | Sr Project Engineer | Project Engineer | Sr. CADD Technician | Jr Engineer / Designer | Structural Eng. Mgr. | Sr. Project Engineer | Staff Engineer |
| | | \$235.00 | \$165.00 | \$135.00 | \$90.00 | \$110.00 | \$130.00 | \$120.00 | \$115.00 |
| LABOR REVENUE | \$133,955.00 | \$4,230 | \$14,355 | \$34,290 | \$35,100 | \$45,980 | \$2,340 | \$9,360 | \$5,290 |
| ADDITIONAL SERVICES | | | | | | | | | |
| DIRECT EXPENSES | | | | | | | | | |
| Traffic Control | | | | | | | | | |
| Utility Locates | | | | | | | | | |
| Potholing with temporary patch | | | | | | | | | |
| Geotechnical Drilling | | | | | | | | | |
| Analytical Testing Geotechnical | | | | | | | | | |
| Laboratory | | | | | | | | | |
| Misc Geotech Expenses | | | | | | | | | |
| Permit | | | | | | | | | |
| Public meetings | | | | | | | | | |
| Reproduction of Submittal Sets | | | | | | | | | |
| Traffic Counts | | | | | | | | | |
| Survey Control | | | | | | | | | |
| Travel | | | | | | | | | |
| Lodging | | | | | | | | | |
| Meals | | | | | | | | | |
| OAHP file search/scans | | | | | | | | | |
| ACM samples | | | | | | | | | |
| LBP samples | | | | | | | | | |
| Regulatory Database | | | | | | | | | |
| Museum Research fee | | | | | | | | | |
| Scissor Lift | | | | | | | | | |
| | | \$0 | | | | | \$0 Total Expenses | | |
| | | | | \$133,955.00 | | | \$16,990.00 | | |

Cost Spreadsheet

Cost Spreadsheet

| Task | Consultant's Billing Rate | Traffic | | | Environmental | Environmental | | | | |
|--|---------------------------|--------------------|-------------|---------------------|---------------|----------------------|-----------------------|-----------------------|------------------------|--------------------------|
| | | Sr Project Manager | Sr Engineer | Biologist / Planner | | Planning Task Leader | Environmental Planner | Environmental Planner | Jr Engineer / Designer | Sr Environmental Planner |
| | | \$200.00 | \$145.00 | \$110.00 | | \$160.00 | \$125.00 | \$125.00 | \$110.00 | \$145.00 |
| Task 7 – Trail Design Shrewsberry | | | | | | | | | | |
| M Preliminary Trail Layout and Sections | | | | | | | | | | |
| N Design horizontal and vertical alignments for trails | | | | | | | | | | |
| O Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | | | | | | | | | | |
| P Provide alignments, toes of slope and pertinent design features | | | | | | | | | | |
| Q Develop removal plans | | | | | | | | | | |
| R Wall Elevations and Aesthetics | | | | | | | | | | |
| S Placemaking and Monumentation | | | | | | | | | | |
| T Streetscape Enhancements | | | | | | | | | | |
| U Trail Railing Design and Detailing | | | | | | | | | | |
| V Restoration Plans for affected Landscape Areas | | | | | | | | | | |
| W Restoration Plans for affected Irrigation Systems | | | | | | | | | | |
| X Landscape Plans for Frontage of Frog Hollow Park | | | | | | | | | | |
| Y Native Bank Seeding Plan | | | | | | | | | | |
| Z 30% plans | | | | | | | | | | |
| AA 90% plans | | | | | | | | | | |
| AB Final Bid Plans | | | | | | | | | | |
| AC 30% specifications | | | | | | | | | | |
| AD 90% specifications | | | | | | | | | | |
| AE Final Bid Specifications | | | | | | | | | | |
| AF 30% tabulations | | | | | | | | | | |
| AG 90% tabulations | | | | | | | | | | |
| AH Final Bid Tabulations | | | | | | | | | | |
| AI Conduct/Attend coordination meetings | | | | | | | | | | |
| AJ Quality Control / Quality Assurance | | | | | | | | | | |
| 8 Task 8 - Construction Detours and Construction Traffic Control | | 272.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A 1) Design detour and traffic control | | | 4.0 | 150.0 | | | | | | |
| 2) Design trail detour | | | 4.0 | 16.0 | | | | | | |
| B Develop construction traffic control specification | | | 4.0 | | | | | | | |
| C Develop a schedule of construction traffic control items | | | | | | | | | | |
| D Develop 30%, 90%, final review and bid plans and specifications | | | 6.0 | 60.0 | | | | | | |
| E Develop Detour and traffic control quantity tabulations for 30%, 90%, final review and bid plans. | | | 4.0 | 16.0 | | | | | | |
| F Coordination meetings (2) | | | 4.0 | | | | | | | |
| G Transit assessment and coordination with RTD on detour | | | | | | | | | | |
| H Detour/Construction traffic operations evaluation | | | 8.0 | 40.0 | | | | | | |
| I Detour/Construction traffic operations evaluation memo | | | 6.0 | 18.0 | | | | | | |
| J Quality Control / Quality Assurance | | | 4.0 | | | | | | | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Traffic | | | Environmental | Environmental | | | | |
|-----------|--|--------------------|-------------|---------------------|---------------|----------------------|-----------------------|-----------------------|------------------------|--------------------------|
| | | Sr Project Manager | Sr Engineer | Biologist / Planner | | Planning Task Leader | Environmental Planner | Environmental Planner | Jr Engineer / Designer | Sr Environmental Planner |
| | | \$200.00 | \$145.00 | \$110.00 | | \$160.00 | \$125.00 | \$125.00 | \$110.00 | \$145.00 |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 24.0 | 12.0 | 12.0 | 0.0 | 24.0 | 0.0 | 24.0 | 0.0 | 0.0 |
| A | Attend project management meetings. | | | | | | | | | |
| B | Attend consultant team coordination meetings. | | 12.0 | 12.0 | | | 24.0 | | | |
| C | Attend outside agency coordination meetings as described in other tasks | | | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | | | | | | | | | | |
| B | | | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Not in Contract | | | | | | | | | |
| B | Not in Contract | | | | | | | | | |
| | Total | 441.0 | 86.0 | 268.0 | 87.0 | 180.0 | 8.0 | 162.0 | 4.0 | 6.0 |
| | HOURS | | 86.0 | 268.0 | 87.0 | | 8.0 | 162.0 | 4.0 | 6.0 |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Traffic | | | Environmental | | | | | | |
|---------------------------------|---------------------------|-------------|-------------------------------|-------------|---------------------|---------------|-----------------------------|-----------------------|-----------------------|------------------------|--------------------------|
| | | Traffic | Sr Project Manager | Sr Engineer | Biologist / Planner | Environmental | Planning Task Leader | Environmental Planner | Environmental Planner | Jr Engineer / Designer | Sr Environmental Planner |
| | | | \$200.00 | \$145.00 | \$110.00 | | \$160.00 | \$125.00 | \$125.00 | \$110.00 | \$145.00 |
| LABOR REVENUE | | \$65,630.00 | \$17,200 | \$38,860 | \$9,570 | \$22,690.00 | \$1,280 | \$20,250 | \$500 | \$660 | \$0 |
| ADDITIONAL SERVICES | | | | | | | | | | | |
| DIRECT EXPENSES | | | | | | | | | | | |
| Traffic Control | | | | | | | | | | | |
| Utility Locates | | | | | | | | | | | |
| Potholing with temporary patch | | | | | | | | | | | |
| Geotechnical Drilling | | | | | | | | | | | |
| Analytical Testing Geotechnical | | | | | | | | | | | |
| Laboratory | | | | | | | | | | | |
| Misc Geotech Expenses | | | | | | | | | | | |
| Permit | | | | | | | | | | | |
| Public meetings | | | | | | | | | | | |
| Reproduction of Submittal Sets | | | | | | | | | | | |
| Traffic Counts | | | \$8,800.00 | | | | | | | | |
| Survey Control | | | | | | | | | | | |
| Travel | | | | | | | | | | | |
| Lodging | | | | | | | | | | | |
| Meals | | | | | | | | | | | |
| OAHP file search/scans | | | | | | | | | | | |
| ACM samples | | | | | | | \$84 | | | | |
| LBP samples | | | | | | | \$60 | | | | |
| Regulatory Database | | | | | | | \$350 | | | | |
| Museum Research fee | | | | | | | | | | | |
| Scissor Lift | | | | | | | \$500 | | | | |
| | | | \$8,800 Total Expenses | | | | \$994 Total Expenses | | | | |
| | | \$65,630.00 | | | | \$22,690.00 | | | | | |
| | | | \$74,430 | | | | | \$23,684 | | | |

Cost Spreadsheet

Cost Spreadsheet

| Task | Consultant's Billing Rate | Environmental Support | Environmental Support | | | | | | | | | |
|------|--|-----------------------|--------------------------------|-------------------------|-------------------|---|--|-----------------------------------|--|-----------------------------------|---|--------------------------------------|
| | | | Mead and Hunt Senior Historian | Mead and Hunt Historian | Mead and Hunt GIS | Mead and Hunt Technical Editor/Administrative Assistant | Mead and Hunt Senior Planner / Scientist | Mead and Hunt Planner / Scientist | Illingworth and Rodkin Senior Consultant | Illingworth and Rodkin Consultant | Illingworth and Rodkin Staff Consultant | Metcalf Arceo Principal Investigator |
| | | | \$168.67 | \$95.21 | \$120.98 | \$85.36 | \$194.65 | \$140.20 | \$195.00 | \$165.00 | \$145.00 | \$105.00 |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | | | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | | | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Attend project management meetings. | | | | | | | | | | | |
| B | Attend consultant team coordination meetings. | | | | | | | | | | | |
| C | Attend outside agency coordination meetings as described in other tasks | | | | | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | | | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | | | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | | | | | | | | | | | | |
| B | | | | | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Not in Contract | | | | | | | | | | | |
| B | Not in Contract | | | | | | | | | | | |
| | Total | 310.0 | 62.0 | 84.0 | 10.0 | 46.0 | 38.0 | 32.0 | 13.0 | 8.0 | 8.0 | 2.5 |
| | HOURS | | 62.0 | 84.0 | 10.0 | 46.0 | 38.0 | 32.0 | 13.0 | 8.0 | 8.0 | 2.5 |

Cost Spreadsheet

| | | Environmental Support | | | | | | | | | | |
|--|---------------------------|-----------------------|--------------------------------|-------------------------|-------------------|---|--|-----------------------------------|--|-----------------------------------|---|--------------------------------------|
| Task | Consultant's Billing Rate | | Mead and Hunt Senior Historian | Mead and Hunt Historian | Mead and Hunt GIS | Mead and Hunt Technical Editor/Administrative Assistant | Mead and Hunt Senior Planner / Scientist | Mead and Hunt Planner / Scientist | Illingworth and Rodkin Senior Consultant | Illingworth and Rodkin Consultant | Illingworth and Rodkin Staff Consultant | Metcalf Archo Principal Investigator |
| | | | \$168.67 | \$95.21 | \$120.98 | \$85.36 | \$194.65 | \$140.20 | \$195.00 | \$165.00 | \$145.00 | \$105.00 |
| | | \$44,064.64 | | | | | | | | | | |
| | LABOR REVENUE | | \$10,458 | \$7,998 | \$1,210 | \$3,927 | \$7,397 | \$4,486 | \$2,535 | \$1,320 | \$1,160 | \$263 |
| ADDITIONAL SERVICES DIRECT EXPENSES Traffic Control Utility Locates Potholing with temporary patch Geotechnical Drilling Analytical Testing Geotechnical Laboratory Misc Geotech Expenses Permit Public meetings Reproduction of Submittal Sets Traffic Counts Survey Control Travel Lodging Meals OAHP file search/scans ACM samples LBP samples Regulatory Database Museum Research fee Scissor Lift | | | | | | | | | | | | |
| | | | | | | | | | | | | \$1,164 |
| | | | \$45,229 | | | | | | | | | |

Cost Spreadsheet

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Cost Spreadsheet

| | | | | | | | | Utilities - Goodbee | | | | |
|-----------|---|------------------------------------|----------------------------------|---------------------------------|---|---|-----------------------------------|---------------------|----------|----------|-------------|---------|
| | | Metcalf Archeo Project Director | Metcalf Archeo GIS Specialist | Metcalf Archeo Admin Support | Paleo Solutions Principal Investigator | Paleo Solutions Assistant Project Manager | Paleo Solutions GIS Specialist | Utilities - Goodbee | PM III | PM II | Designer II | CAD I |
| | | \$85.00 | \$80.00 | \$85.00 | \$140.00 | \$85.00 | \$85.00 | | \$150.00 | \$135.00 | \$110.00 | \$80.00 |
| Task | Consultant's Billing Rate | | | | | | | | | | | |
| 9 | Task 9 – Electrical and Lighting Analysis & Design | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Prepare electrical and lighting design within project limits | | | | | | | | | | | |
| B | Coordinate electrical utility design in association with Tasks 10 and 11 | | | | | | | | | | | |
| C | Develop 30%, 90%, final bid plans, specifications | | | | | | | | | | | |
| D | Conduct/Attend electrical and lighting design coordination meetings with CCD and appropriate utility agencies | | | | | | | | | | | |
| E | Develop Lighting quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | | | | |
| F | Quality Control / Quality Assurance | | | | | | | | | | | |
| 10 | Task 10 - Utility Coordination | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 73.0 | 63.0 | 4.0 | 0.0 | 6.0 |
| A | Obtain outstanding utility key maps (approximately 4 companies). Contact identified utility owners to confirm the presence of facilities in the project area and to obtain location maps and information on planned facilities. Provide maps to surveyor for utility survey. Field verify location maps and utility survey. (related to Task 2.H) | | | | | | | | 6.0 | | | 6.0 |
| B | Meet one-on-one with utility companies and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies. Set up meetings, develop agendas, facilitate meetings, and develop meeting minutes. Assume one day of meetings with six utility owners. | | | | | | | | 16.0 | | | 0.0 |
| C | Obtain easements, license agreements, and relocation agreements from Utility companies as applicable and provide to CCD. | | | | | | | | 1.0 | | | |
| D | Conduct/Attend utility coordination meetings with CCD, Denver Water, Xcel, and all other impacted utilities, separate from one-on-one utility meetings mentioned above. Assume two meetings. | | | | | | | | 8.0 | | | 0.0 |
| E | After 90% plan review, conduct as needed coordination/comment resolution meetings with utility owners on wet and dry utility design. Assume two meetings. | | | | | | | | 8.0 | | | |
| F | Prepare the utility specification for the 90%, final review and bid submittals. | | | | | | | | 8.0 | | | |
| G | Prepare, coordinate and obtain utility clearance letters after the 90% design review meeting. Assume three letters. | | | | | | | | 8.0 | | | |
| H | Complete Xcel Energy work order request form and coordinate relocation of light poles with Xcel. | | | | | | | | 4.0 | | | |
| I | Obtain estimates of probable cost for utility relocations that are a cost to the project (assume no wet utility relocations) | | | | | | | | 2.0 | | | |
| J | Quality Control / Quality Assurance | | | | | | | | 2.0 | 4.0 | | |

Cost Spreadsheet

| | | | | | | | | Utilities - Goodbee | | | | |
|------|--|------------------------------------|----------------------------------|---------------------------------|---|---|-----------------------------------|---------------------|----------|----------|-------------|---------|
| | | Metcalf Archeo Project Director | Metcalf Archeo GIS Specialist | Metcalf Archeo Admin Support | Paleo Solutions Principal Investigator | Paleo Solutions Assistant Project Manager | Paleo Solutions GIS Specialist | Utilities - Goodbee | PM III | PM II | Designer II | CAD I |
| Task | Consultant's Billing Rate | \$85.00 | \$80.00 | \$85.00 | \$140.00 | \$85.00 | \$85.00 | | \$150.00 | \$135.00 | \$110.00 | \$80.00 |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | | | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | | | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.0 | 24.0 | 0.0 | 0.0 | 0.0 |
| A | Attend project management meetings. | | | | | | | | | | | |
| B | Attend consultant team coordination meetings. | | | | | | | | 24.0 | | | |
| C | Attend outside agency coordination meetings as described in other tasks | | | | | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | | | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | | | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | | | | | | | | | | | | |
| B | | | | | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Not in Contract | | | | | | | | | | | |
| B | Not in Contract | | | | | | | | | | | |
| | Total | 5.0 | 1.0 | 0.5 | 7.0 | 19.0 | 2.0 | 296.0 | 160.0 | 12.0 | 0.0 | 118.0 |
| | HOURS | 5.0 | 1.0 | 0.5 | 7.0 | 19.0 | 2.0 | | 160.0 | 12.0 | 0.0 | 118.0 |

Cost Spreadsheet

| Task | Consultant's Billing Rate | | | | | | | | | Utilities - Goodbee | | | |
|---------------------------------|---------------------------|------------------------------------|----------------------------------|---------------------------------|---|---|-----------------------------------|---------------------|----------|------------------------|-------------|-------------|--|
| | | Metcalf Archeo Project Director | Metcalf Archeo GIS Specialist | Metcalf Archeo Admin Support | Paleo Solutions Principal Investigator | Paleo Solutions Assistant Project Manager | Paleo Solutions GIS Specialist | Utilities - Goodbee | PM III | PM II | Designer II | CAD I | |
| | | \$85.00 | \$80.00 | \$85.00 | \$140.00 | \$85.00 | \$85.00 | | \$150.00 | \$135.00 | \$110.00 | \$80.00 | |
| LABOR REVENUE | | \$425 | \$80 | \$43 | \$980 | \$1,615 | \$170 | \$35,690.00 | \$24,000 | \$1,620 | \$0 | \$9,440 | |
| ADDITIONAL SERVICES | | | | | | | | | | | | | |
| DIRECT EXPENSES | | | | | | | | | | | | | |
| Traffic Control | | | | | | | | | \$1,200 | | | | |
| Utility Locates | | | | | | | | | \$0 | | | | |
| Potholing with temporary patch | | | | | | | | | \$2,000 | | | | |
| Geotechnical Drilling | | | | | | | | | | | | | |
| Analytical Testing Geotechnical | | | | | | | | | | | | | |
| Laboratory | | | | | | | | | | | | | |
| Misc Geotech Expenses | | | | | | | | | | | | | |
| Permit | | | | | | | | | | | | | |
| Public meetings | | | | | | | | | | | | | |
| Reproduction of Submittal Sets | | | | | | | | | | | | | |
| Traffic Counts | | | | | | | | | | | | | |
| Survey Control | | | | | | | | | | | | | |
| Travel | | | | | | | | | | | | | |
| Lodging | | | | | | | | | | | | | |
| Meals | | | | | | | | | | | | | |
| OAHP file search/scans | | | | | | | | | | | | | |
| ACM samples | | | | | | | | | | | | | |
| LBP samples | | | | | | | | | | | | | |
| Regulatory Database | | | | | | | | | | | | | |
| Museum Research fee | | | | | \$100 | | | | | | | | |
| Scissor Lift | | | | | | | | | | | | | |
| | | | | | | | | | | \$3,200 Total Expenses | | | |
| | | | | | | | | | | | | \$38,890.00 | |

Cost Spreadsheet

Cost Spreadsheet

| Task | Consultant's Billing Rate | \$105.00 |
|--|---|----------|
| 1 Task 1- Project Management | | |
| A | Coordinate project tasks with the CCD Project Manager and other CCD personnel | 6.0 |
| B | Review sub invoices; prepare and submit monthly invoices and progress reports. Prepare subconsultant agreements | 6.0 |
| C | Develop and maintain a project schedule | |
| D | Manage and coordinate work efforts | |
| E | Prepare submit and adhere to QA/QC plan | |
| F | Prepare Project Specila Provisions for 30%,90% and Final Design | |
| G | Prepare Cost Estimate for 30%, 90% and Final Design | |
| 2 Task 2 - Survey | | |
| A | Conduct/Attend coordination meetings with CCD including CCD Survey Department | |
| B | Provide required traffic control for survey activities. | |
| C | Prepare Base map & survey control map | |
| D | Locate subsurface investigation test holes in Association with Task 3 | |
| E | Locate utility potholes in association with Task 11 | |
| F | Produce a planimetric map of the project area | |
| G | Prepare a Survey Control Diagram | |
| H | Utility surveys | |
| I | Locate storm sewer pipes and inlets and determine invert elevations. | |
| J | Establish existing and proposed Right of Way (ROW) linework | |
| K | Quality Control / Quality Assurance | |
| 2A Task 2A - Right of Way Documents | | |
| A | Determine partial takes and easements are necessary for construction | |
| B | Prepare Ownership map and tabulation | |
| C | Prepare legal exhibits and descriptions | |
| D | Prepare final ROW plans | |
| E | Conduct/Attend a ROWPR with city engineering and city survey staff. | |
| F | Revise the ROW plans based on comments received at the ROWPR | |
| G | Conduct/Attend project coordination meetings with CCD. | |
| H | Revise and submit the ROW plans that address revisions resulting from negotiations during the ROW acquisition | |
| I | Quality Control / Quality Assurance | |
| 2B Task 2B - Support for Right of Way Acquisition | | |
| A | Attend meetings to give technical explanations of what the project will entail and why partial takes and easements are needed | |
| B | As requested by the City during negotiations with property owners, locate and mark in the field current and proposed property lines, limits of easements, and other features in order to facilitate negotiations and exchange of information between the City and property owners | |
| C | Revise and eventually finalize ROW Plans, Legal Descriptions, and other documents as requested by the City based upon the outcome of the City's negotiations with property owners. | |

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| Administrator |
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Cost Spreadsheet

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| Administrator |
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| Task | Consultant's Billing Rate | \$105.00 |
|--|---------------------------|----------|
| 3 Task 3 - Geotechnical Investigations and Pavement Design | | 0.0 |
| 4 Task 4 - Evaluate and Incorporate Environmental Impacts | | 0.0 |
| A 1) Collect data and necessary information | | |
| 1a) Biological | | |
| 1b) Historical | | |
| 1c) Archaeological | | |
| 1d) Air Quality | | |
| 1e) Noise | | |
| 1f) Environmental Justice | | |
| 1g) Section 6(f) | | |
| 1h) Paleontology | | |
| B Evaluate Potential Environmental Impacts and Mitigation | | |
| 2a) Biological | | |
| 2b) Historical | | |
| 2c) Archaeological | | |
| 2d) Air Quality | | |
| 2e) Noise | | |
| 2f) Environmental Justice | | |
| 2g) Section 6(f) | | |
| 2h) Paleontology | | |
| 3) Prepare Materials Management Plan | | |
| C Incorporate Sustainable and Resilient Project Elements | | |
| 1) Gather information from sustainability scoring systems; develop Denver specific Sustainability Scorecard spreadsheet, develop project sustainability goals. | | |
| 2) Hold Sustainability Scoring Workshops (3) at Kickoff, 30% & 90% (Consultant attendees include: PM, Roadway Lead, Hydraulics Lead, Sustainability Lead, Bridge Task Lead, & Traffic Lead). | | |
| 3) Evaluate Sustainability throughout design (life-cycle cost analysis, coordination etc.) | | |
| 4) Develop Sustainability Summary (1-2 page memo or pamphlet summarizing practices used on project) | | |
| D Incorporate Environmental Requirements into the Contract Bid Documents | | |
| E Obtain Environmental Permits and Clearances | | |
| Management of Environmental Subconsultants | | |
| F Quality Control / Quality Assurance | | |
| 5 Task 5 - Hydraulic Analysis, Drainage and Permitting | | 0.0 |
| A Conduct detailed hydraulic analysis | | |
| B Provide a full FEMA CLOMR | | |
| C Coordinate with UDFCD and Denver Public Works regarding ongoing planning efforts | | |
| D Coordinate with UDFCD and Denver Public Works regarding ongoing flood studies | | |
| E Perform drainage design | | |
| F Perform scour analysis | | |
| G Design provisions to protect property during a 100 yr flood event during construction | | |
| H Develop 30%, 90%, and final bid plans, specifications and drainage reports | | |

Cost Spreadsheet

| Task | Consultant's Billing Rate |
|---|---------------------------|
| | Administrator |
| | \$105.00 |
| I Develop Hydraulic and drainage quantity tabulations for 30%, 90%, final review and bid plans. | |
| J Obtain CCD Sewer Use and Drainage Permit for floodplain use | |
| K Conduct/Attend coordination meetings with CCD, UDFCD, and others as needed | |
| L Support Obtaining 404 permit and ESA compliance | |
| M Quality Control / Quality Assurance | |

Cost Spreadsheet

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|---------------|
| Administrator |
|---------------|

| Task | Consultant's Billing Rate | \$105.00 |
|--|---------------------------|----------|
| 6 Task 6 - Structural/Bridge Engineering | | 0.0 |
| A Preliminary phasing analysis | | |
| B Structure Selection Memo for bridge and walls | | |
| C Structural analysis, design, and detailing of the new bridge, retaining walls, and other minor structures (assumes 2 walls along bike path) | | |
| D Coordinate and develop aesthetic enhancement details | | |
| E Conduct Design Check of Original Cals | | |
| F Develop 30%, 90%, final review and bid plans and specifications | | |
| G Develop structure quantity tabulations for 30%, 90%, final review and bid plans. | | |
| H Develop LRFR's (load and resistance factor ratings) | | |
| I Coordinate and attend two detour phasing meetings, one for structure selection report, and one each for the 30%, 90%, and final set reviews | | |
| J Quality Control / Quality Assurance | | |
| 7 Task 7 – Roadway and Trail Design | | 0.0 |
| A Design horizontal and vertical alignments of approach roadways and trails | | |
| B Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | | |
| C Provide alignments, toes of slope and pertinent design features. Develop intersection detail plan with sidewalks and curb ramps. | | |
| D Develop removal plans | | |
| E Develop restoration plans for affected landscaping and any affected irrigation systems | | |
| F Develop 30%, 90%, final bid plans, specifications | | |
| G Develop roadway and trail quantity tabulations for 30%, 90%, final review and bid plans. | | |
| H Develop signal and sign/stripe quantity tabulations for 30%, 90%, final review and bid plans (10 sheets). Shrewsberry preparing trail plans | | |
| I Conduct/Attend coordination meetings | | |
| J Multi-modal operations integration | | |
| K Design traffic signal | | |
| L Design signing/stripping | | |
| M Quality Control / Quality Assurance | | |

Cost Spreadsheet

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| |
| Administrator |
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| Task | Consultant's Billing Rate |
|---|---------------------------|
| Task 7 – Trail Design Shrewsberry | \$105.00 |
| M Preliminary Trail Layout and Sections | |
| N Design horizontal and vertical alignments for trails | |
| O Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | |
| P Provide alignments, toes of slope and pertinent design features | |
| Q Develop removal plans | |
| R Wall Elevations and Aesthetics | |
| S Placemaking and Monumentation | |
| T Streetscape Enhancements | |
| U Trail Railing Design and Detailing | |
| V Restoration Plans for affected Landscape Areas | |
| W Restoration Plans for affected Irrigation Systems | |
| X Landscape Plans for Frontage of Frog Hollow Park | |
| Y Native Bank Seeding Plan | |
| Z 30% plans | |
| AA 90% plans | |
| AB Final Bid Plans | |
| AC 30% specifications | |
| AD 90% specifications | |
| AE Final Bid Specifications | |
| AF 30% tabulations | |
| AG 90% tabulations | |
| AH Final Bid Tabulations | |
| AI Conduct/Attend coordination meetings | |
| AJ Quality Control / Quality Assurance | |
| 8 Task 8 - Construction Detours and Construction Traffic Control | 0.0 |
| A 1) Design detour and traffic control | |
| 2) Design trail detour | |
| B Develop construction traffic control specification | |
| C Develop a schedule of construction traffic control items | |
| D Develop 30%, 90%, final review and bid plans and specifications | |
| E Develop Detour and traffic control quantity tabulations for 30%, 90%, final review and bid plans. | |
| F Coordination meetings (2) | |
| G Transit assessment and coordination with RTD on detour | |
| H Detour/Construction traffic operations evaluation | |
| I Detour/Construction traffic operations evaluation memo | |
| J Quality Control / Quality Assurance | |

Cost Spreadsheet

| Task | Consultant's Billing Rate |
|--|---------------------------|
| | Administrator |
| | \$105.00 |
| 9 Task 9 – Electrical and Lighting Analysis & Design | 0.0 |
| A Prepare electrical and lighting design within project limits | |
| B Coordinate electrical utility design in association with Tasks 10 and 11 | |
| C Develop 30%, 90%, final bid plans, specifications | |
| D Conduct/Attend electrical and lighting design coordination meetings with CCD and appropriate utility agencies | |
| E Develop Lighting quantity tabulations for 30%, 90%, final review and bid plans. | |
| F Quality Control / Quality Assurance | |
| 10 Task 10 - Utility Coordination | 0.0 |
| A Obtain outstanding utility key maps (approximately 4 companies). Contact identified utility owners to confirm the presence of facilities in the project area and to obtain location maps and information on planned facilities. Provide maps to surveyor for utility survey. Field verify location maps and utility survey. (related to Task 2.H) | |
| B Meet one-on-one with utility companies and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies. Set up meetings, develop agendas, facilitate meetings, and develop meeting minutes. Assume one day of meetings with six utility owners. | |
| C Obtain easements, license agreements, and relocation agreements from Utility companies as applicable and provide to CCD. | |
| D Conduct/Attend utility coordination meetings with CCD, Denver Water, Xcel, and all other impacted utilities, separate from one-on-one utility meetings mentioned above. Assume two meetings. | |
| E After 90% plan review, conduct as needed coordination/comment resolution meetings with utility owners on wet and dry utility design. Assume two meetings. | |
| F Prepare the utility specification for the 90%, final review and bid submittals. | |
| G Prepare, coordinate and obtain utility clearance letters after the 90% design review meeting. Assume three letters. | |
| H Complete Xcel Energy work order request form and coordinate relocation of light poles with Xcel. | |
| I Obtain estimates of probable cost for utility relocations that are a cost to the project (assume no wet utility relocations) | |
| J Quality Control / Quality Assurance | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | \$105.00 |
|--|---------------------------|----------|
| 11 Task 11 - Utility Design | | 0.0 |
| A Identify potential utility conflicts. Coordinate with design team to mitigate conflicts with design adjustments. | | |
| B Conduct supplemental Utility potholing - assume 6 potholes over 1 day | | |
| C Create pothole location map and log plan sheet(s) | | |
| D Prepare existing utility plans sheets | | |
| E Prepare a summary table of all utilities within the project limits | | |
| F Create existing manhole log plan sheet | | |
| G Design utility relocations. Assume no wet relocations. Assume dry utility owners will design their own relocation(s) and Goodbee will coordinate with utility owners and show proposed utilities on utility plans starting at 90%. | | |
| H Develop 30%, 90%, final review and bid plans, specifications and cost estimate for utility relocations. Coordinate with design team to show existing utilities on 30% roadway and trail plans. Assume no more than 12 utility plan sheets (1 cover/PH log, 1 tab, 10 plan sheets). | | |
| I Develop utility relocation quantity tabulations for 30%, 90%, final review and bid | | |
| J Develop tabulation of utility removals and adjustments | | |
| K Check utility clearances and existing utility locations as they relate to proposed grading (included in task 11.A) | | |
| L Quality Control / Quality Assurance | | |
| 12 Task 12 - Erosion Control Analysis & Design | | 0.0 |
| A 30% plans (8 sheets total) | | |
| B 90% plans | | |
| C Bid Plans | | |
| D 30% specifications | | |
| E 90% specifications | | |
| F Bid Specifications | | |
| G 30% tabulations and cost estimate | | |
| H 90% tabulations and cost estimate | | |
| I Final Bid Tabulations and cost estimate | | |
| M Assist CCD in obtaining miscellaneous permits from CCD departments and outside entities with regard to construction | | |
| N Quality Control / Quality Assurance | | |
| 13 Task 13 - Public Outreach and Information | | 0.0 |
| A Prepare a Public Communication Contact List | | |
| B Prepare content for project web page updates. Coordinate the updates with Denver Public Works. | | |
| C Coordinate meetings with adjacent property owners and business owners | | |
| D Develop graphics, handouts, and other useful media for Public Meetings | | |
| E Prepare for, send out announcements for, and attend up to two Public Meetings | | |
| F Document all comments received at Public Meetings | | |
| G Quality Control / Quality Assurance | | |
| 14 Task 14 - Multi Agency Involvement & Coordination, Stakeholder Coordination | | 0.0 |

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| |
| Administrator |
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Cost Spreadsheet

| Task | Consultant's Billing Rate | |
|------|--|---------------|
| | | Administrator |
| | \$105.00 | |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | |
| B | Coordinate with project stakeholders | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 0.0 |
| A | Attend project management meetings. | |
| B | Attend consultant team coordination meetings. | |
| C | Attend outside agency coordination meetings as described in other tasks | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | |
| 16 | Task 16 | 0.0 |
| A | | |
| B | | |
| 17 | Task 17 | 0.0 |
| A | Not in Contract | |
| B | Not in Contract | |
| | Total | 6.0 |
| | HOURS | 6.0 |

Cost Spreadsheet

| Task | Consultant's Billing Rate | |
|---------------------------------|---------------------------|----------|
| | | \$105.00 |
| | | |
| LABOR REVENUE | | \$630 |
| ADDITIONAL SERVICES | | |
| DIRECT EXPENSES | | |
| Traffic Control | | |
| Utility Locates | | |
| Potholing with temporary patch | | |
| Geotechnical Drilling | | |
| Analytical Testing Geotechnical | | |
| Laboratory | | |
| Misc Geotech Expenses | | |
| Permit | | |
| Public meetings | | |
| Reproduction of Submittal Sets | | |
| Traffic Counts | | |
| Survey Control | | |
| Travel | | |
| Lodging | | |
| Meals | | |
| OAHP file search/scans | | |
| ACM samples | | |
| LBP samples | | |
| Regulatory Database | | |
| Museum Research fee | | |
| Scissor Lift | | |

Cost Spreadsheet

Cost Spreadsheet

| Task | | Geotechnical - Shannon & Wilson | | | | | | |
|-----------|---|---------------------------------|-------------------|-------------------------|-----------------|------------------------|------------|-------------------|
| | | Geotechnical - Shannon & Wilson | Sr Vice President | Senior Professional III | Professional II | Senior Professional II | Drafter II | Administrative II |
| | | Consultant's Billing Rate | \$250.00 | \$145.00 | \$90.00 | \$130.00 | \$90.00 | \$70.00 |
| 1 | Task 1- Project Management | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | A Coordinate project tasks with the CCD Project Manager and other CCD personnel | | | | | | | |
| | B Review sub invoices; prepare and submit monthly invoices and progress reports. Prepare subconsultant agreements | | | | | | | |
| | C Develop and maintain a project schedule | | | | | | | |
| | D Manage and coordinate work efforts | | | | | | | |
| | E Prepare submit and adhere to QA/QC plan | | | | | | | |
| | F Prepare Project Specila Provisions for 30%,90% and Final Design | | | | | | | |
| | G Prepare Cost Estimate for 30%, 90% and Final Design | | | | | | | |
| 2 | Task 2 - Survey | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | A Conduct/Attend coordination meetings with CCD including CCD Survey Department | | | | | | | |
| | B Provide required traffic control for survey activities. | | | | | | | |
| | C Prepare Base map & survey control map | | | | | | | |
| | D Locate subsurface investigation test holes in Association with Task 3 | | | | | | | |
| | E Locate utility potholes in association with Task 11 | | | | | | | |
| | F Produce a planimetric map of the project area | | | | | | | |
| | G Prepare a Survey Control Diagram | | | | | | | |
| | H Utility surveys | | | | | | | |
| | I Locate storm sewer pipes and inlets and determine invert elevations. | | | | | | | |
| | J Establish existing and proposed Right of Way (ROW) linework | | | | | | | |
| | K Quality Control / Quality Assurance | | | | | | | |
| 2A | Task 2A - Right of Way Documents | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | A Determine partial takes and easements are necessary for construction | | | | | | | |
| | B Prepare Ownership map and tabulation | | | | | | | |
| | C Prepare legal exhibits and descriptions | | | | | | | |
| | D Prepare final ROW plans | | | | | | | |
| | E Conduct/Attend a ROWPR with city engineering and city survey staff. | | | | | | | |
| | F Revise the ROW plans based on comments received at the ROWPR | | | | | | | |
| | G Conduct/Attend project coordination meetings with CCD. | | | | | | | |
| | H Revise and submit the ROW plans that address revisions resulting from negotiations during the ROW acquisition | | | | | | | |
| | I Quality Control / Quality Assurance | | | | | | | |
| 2B | Task 2B - Support for Right of Way Acquisition | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | A Attend meetings to give technical explanations of what the project will entail and why partial takes and easements are needed | | | | | | | |
| | B As requested by the City during negotiations with property owners, locate and mark in the field current and proposed property lines, limits of easements, and other features in order to facilitate negotiations and exchange of information between the City and property owners | | | | | | | |
| | C Revise and eventually finalize ROW Plans, Legal Descriptions, and other documents as requested by the City based upon the outcome of the City's negotiations with property owners. | | | | | | | |

Cost Spreadsheet

| | | Geotechnical - Shannon & Wilson | | | | | | |
|----------|--|---------------------------------|-------------------|-------------------------|-----------------|------------------------|------------|-------------------|
| | | Geotechnical - Shannon & Wilson | | | | | | |
| | | | Sr Vice President | Senior Professional III | Professional II | Senior Professional II | Drafter II | Administrative II |
| | | | \$250.00 | \$145.00 | \$90.00 | \$130.00 | \$90.00 | \$70.00 |
| Task | Consultant's Billing Rate | | | | | | | |
| 3 | Task 3 - Geotechnical Investigations and Pavement Design | 269.5 | 10.0 | 43.5 | 100.0 | 78.0 | 28.0 | 10.0 |
| 4 | Task 4 - Evaluate and Incorporate Environmental Impacts | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | 1) Collect data and necessary information | | | | | | | |
| | 1a) Biological | | | | | | | |
| | 1b) Historical | | | | | | | |
| | 1c) Archaeological | | | | | | | |
| | 1d) Air Quality | | | | | | | |
| | 1e) Noise | | | | | | | |
| | 1f) Environmental Justice | | | | | | | |
| | 1g) Section 6(f) | | | | | | | |
| | 1h) Paleontology | | | | | | | |
| B | Evaluate Potential Environmental Impacts and Mitigation | | | | | | | |
| | 2a) Biological | | | | | | | |
| | 2b) Historical | | | | | | | |
| | 2c) Archaeological | | | | | | | |
| | 2d) Air Quality | | | | | | | |
| | 2e) Noise | | | | | | | |
| | 2f) Environmental Justice | | | | | | | |
| | 2g) Section 6(f) | | | | | | | |
| | 2h) Paleontology | | | | | | | |
| | 3) Prepare Materials Management Plan | | | | | | | |
| C | Incorporate Sustainable and Resilient Project Elements | | | | | | | |
| | 1) Gather information from sustainability scoring systems; develop Denver specific Sustainability Scorecard spreadsheet, develop project sustainability goals. | | | | | | | |
| | 2) Hold Sustainability Scoring Workshops (3) at Kickoff, 30% & 90% (Consultant attendees include: PM, Roadway Lead, Hydraulics Lead, Sustainability Lead, Bridge Task Lead, & Traffic Lead). | | | | | | | |
| | 3) Evaluate Sustainability throughout design (life-cycle cost analysis, coordination etc.) | | | | | | | |
| | 4) Develop Sustainability Summary (1-2 page memo or pamphlet summarizing practices used on project) | | | | | | | |
| D | Incorporate Environmental Requirements into the Contract Bid Documents | | | | | | | |
| E | Obtain Environmental Permits and Clearances | | | | | | | |
| | Management of Environmental Subconsultants | | | | | | | |
| F | Quality Control / Quality Assurance | | | | | | | |
| 5 | Task 5 - Hydraulic Analysis, Drainage and Permitting | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Conduct detailed hydraulic analysis | | | | | | | |
| B | Provide a full FEMA CLOMR | | | | | | | |
| C | Coordinate with UDFCD and Denver Public Works regarding ongoing planning efforts | | | | | | | |
| D | Coordinate with UDFCD and Denver Public Works regarding ongoing flood studies | | | | | | | |
| E | Perform drainage design | | | | | | | |
| F | Perform scour analysis | | | | | | | |
| G | Design provisions to protect property during a 100 yr flood event during construction | | | | | | | |
| H | Develop 30%, 90%, and final bid plans, specifications and drainage reports | | | | | | | |

Cost Spreadsheet

| | | Geotechnical - Shannon & Wilson | | | | | | |
|------|---|---------------------------------|-------------------|-------------------------|-----------------|------------------------|------------|-------------------|
| | | Geotechnical - Shannon & Wilson | | | | | | |
| | | | Sr Vice President | Senior Professional III | Professional II | Senior Professional II | Drafter II | Administrative II |
| Task | Consultant's Billing Rate | | \$250.00 | \$145.00 | \$90.00 | \$130.00 | \$90.00 | \$70.00 |
| I | Develop Hydraulic and drainage quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | |
| J | Obtain CCD Sewer Use and Drainage Permit for floodplain use | | | | | | | |
| K | Conduct/Attend coordination meetings with CCD, UDFCD, and others as needed | | | | | | | |
| L | Support Obtaining 404 permit and ESA compliance | | | | | | | |
| M | Quality Control / Quality Assurance | | | | | | | |

Cost Spreadsheet

| Task | | Consultant's Billing Rate | | Geotechnical - Shannon & Wilson | | | | | |
|----------|---|---------------------------|----------|---------------------------------|-------------------------|-----------------|------------------------|------------|-------------------|
| | | | | Geotechnical - Shannon & Wilson | | | | | |
| | | | | Sr Vice President | Senior Professional III | Professional II | Senior Professional II | Drafter II | Administrative II |
| | | \$250.00 | \$145.00 | \$90.00 | \$130.00 | \$90.00 | \$70.00 | | |
| 6 | Task 6 - Structural/Bridge Engineering | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| A | Preliminary phasing analysis | | | | | | | | |
| B | Structure Selection Memo for bridge and walls | | | | | | | | |
| C | Structural analysis, design, and detailing of the new bridge, retaining walls, and other minor structures (assumes 2 walls along bike path) | | | | | | | | |
| D | Coordinate and develop aesthetic enhancement details | | | | | | | | |
| E | Conduct Design Check of Original Cals | | | | | | | | |
| F | Develop 30%, 90%, final review and bid plans and specifications | | | | | | | | |
| G | Develop structure quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | |
| H | Develop LRFR's (load and resistance factor ratings) | | | | | | | | |
| I | Coordinate and attend two detour phasing meetings, one for structure selection report, and one each for the 30%, 90%, and final set reviews | | | | | | | | |
| J | Quality Control / Quality Assurance | | | | | | | | |
| 7 | Task 7 - Roadway and Trail Design | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| A | Design horizontal and vertical alignments of approach roadways and trails | | | | | | | | |
| B | Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | | | | | | | | |
| C | Provide alignments, toes of slope and pertinent design features. Develop intersection detail plan with sidewalks and curb ramps. | | | | | | | | |
| D | Develop removal plans | | | | | | | | |
| E | Develop restoration plans for affected landscaping and any affected irrigation systems | | | | | | | | |
| F | Develop 30%, 90%, final bid plans, specifications | | | | | | | | |
| G | Develop roadway and trail quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | |
| H | Develop signal and sign/stripe quantity tabulations for 30%, 90%, final review and bid plans (10 sheets). Shrewsberry preparing trail plans | | | | | | | | |
| I | Conduct/Attend coordination meetings | | | | | | | | |
| J | Multi-modal operations integration | | | | | | | | |
| K | Design traffic signal | | | | | | | | |
| L | Design signing/stripping | | | | | | | | |
| M | Quality Control / Quality Assurance | | | | | | | | |

Cost Spreadsheet

| Task | | Consultant's Billing Rate | | Geotechnical - Shannon & Wilson | | | | | |
|--|---|---------------------------|------------|---------------------------------|-------------------------|-----------------|------------------------|------------|-------------------|
| | | | | Geotechnical - Shannon & Wilson | | | | | |
| | | | | Sr Vice President | Senior Professional III | Professional II | Senior Professional II | Drafter II | Administrative II |
| | | \$250.00 | \$145.00 | \$90.00 | \$130.00 | \$90.00 | \$70.00 | | |
| Task 7 – Trail Design Shrewsberry | | | | | | | | | |
| M | Preliminary Trail Layout and Sections | | | | | | | | |
| N | Design horizontal and vertical alignments for trails | | | | | | | | |
| O | Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | | | | | | | | |
| P | Provide alignments, toes of slope and pertinent design features | | | | | | | | |
| Q | Develop removal plans | | | | | | | | |
| R | Wall Elevations and Aesthetics | | | | | | | | |
| S | Placemaking and Monumentation | | | | | | | | |
| T | Streetscape Enhancements | | | | | | | | |
| U | Trail Railing Design and Detailing | | | | | | | | |
| V | Restoration Plans for affected Landscape Areas | | | | | | | | |
| W | Restoration Plans for affected Irrigation Systems | | | | | | | | |
| X | Landscape Plans for Frontage of Frog Hollow Park | | | | | | | | |
| Y | Native Bank Seeding Plan | | | | | | | | |
| Z | 30% plans | | | | | | | | |
| AA | 90% plans | | | | | | | | |
| AB | Final Bid Plans | | | | | | | | |
| AC | 30% specifications | | | | | | | | |
| AD | 90% specifications | | | | | | | | |
| AE | Final Bid Specifications | | | | | | | | |
| AF | 30% tabulations | | | | | | | | |
| AG | 90% tabulations | | | | | | | | |
| AH | Final Bid Tabulations | | | | | | | | |
| AI | Conduct/Attend coordination meetings | | | | | | | | |
| AJ | Quality Control / Quality Assurance | | | | | | | | |
| 8 | Task 8 - Construction Detours and Construction Traffic Control | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| A | 1) Design detour and traffic control | | | | | | | | |
| | 2) Design trail detour | | | | | | | | |
| B | Develop construction traffic control specification | | | | | | | | |
| C | Develop a schedule of construction traffic control items | | | | | | | | |
| D | Develop 30%, 90%, final review and bid plans and specifications | | | | | | | | |
| E | Develop Detour and traffic control quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | |
| F | Coordination meetings (2) | | | | | | | | |
| G | Transit assessment and coordination with RTD on detour | | | | | | | | |
| H | Detour/Construction traffic operations evaluation | | | | | | | | |
| I | Detour/Construction traffic operations evaluation memo | | | | | | | | |
| J | Quality Control / Quality Assurance | | | | | | | | |

Cost Spreadsheet

| | | Geotechnical - Shannon & Wilson | | | | | | |
|-----------|---|---------------------------------|-------------------|-------------------------|-----------------|------------------------|------------|-------------------|
| | | Geotechnical - Shannon & Wilson | | | | | | |
| | | | Sr Vice President | Senior Professional III | Professional II | Senior Professional II | Drafter II | Administrative II |
| | | | \$250.00 | \$145.00 | \$90.00 | \$130.00 | \$90.00 | \$70.00 |
| Task | Consultant's Billing Rate | | | | | | | |
| 9 | Task 9 – Electrical and Lighting Analysis & Design | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Prepare electrical and lighting design within project limits | | | | | | | |
| B | Coordinate electrical utility design in association with Tasks 10 and 11 | | | | | | | |
| C | Develop 30%, 90%, final bid plans, specifications | | | | | | | |
| D | Conduct/Attend electrical and lighting design coordination meetings with CCD and appropriate utility agencies | | | | | | | |
| E | Develop Lighting quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | |
| F | Quality Control / Quality Assurance | | | | | | | |
| 10 | Task 10 - Utility Coordination | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Obtain outstanding utility key maps (approximately 4 companies). Contact identified utility owners to confirm the presence of facilities in the project area and to obtain location maps and information on planned facilities. Provide maps to surveyor for utility survey. Field verify location maps and utility survey. (related to Task 2.H) | | | | | | | |
| B | Meet one-on-one with utility companies and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies. Set up meetings, develop agendas, facilitate meetings, and develop meeting minutes. Assume one day of meetings with six utility owners. | | | | | | | |
| C | Obtain easements, license agreements, and relocation agreements from Utility companies as applicable and provide to CCD. | | | | | | | |
| D | Conduct/Attend utility coordination meetings with CCD, Denver Water, Xcel, and all other impacted utilities, separate from one-on-one utility meetings mentioned above. Assume two meetings. | | | | | | | |
| E | After 90% plan review, conduct as needed coordination/comment resolution meetings with utility owners on wet and dry utility design. Assume two meetings. | | | | | | | |
| F | Prepare the utility specification for the 90%, final review and bid submittals. | | | | | | | |
| G | Prepare, coordinate and obtain utility clearance letters after the 90% design review meeting. Assume three letters. | | | | | | | |
| H | Complete Xcel Energy work order request form and coordinate relocation of light poles with Xcel. | | | | | | | |
| I | Obtain estimates of probable cost for utility relocations that are a cost to the project (assume no wet utility relocations) | | | | | | | |
| J | Quality Control / Quality Assurance | | | | | | | |

Cost Spreadsheet

| Task | | Consultant's Billing Rate | Geotechnical - Shannon & Wilson | | | | | | |
|--------------|--|---------------------------|---------------------------------|-------------------|-------------------------|-----------------|------------------------|------------|-------------------|
| | | | Geotechnical - Shannon & Wilson | Sr Vice President | Senior Professional III | Professional II | Senior Professional II | Drafter II | Administrative II |
| | | | | \$250.00 | \$145.00 | \$90.00 | \$130.00 | \$90.00 | \$70.00 |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Attend project management meetings. | | | | | | | | |
| B | Attend consultant team coordination meetings. | | | | | | | | |
| C | Attend outside agency coordination meetings as described in other tasks | | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | | | | | | | | | |
| B | | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Not in Contract | | | | | | | | |
| B | Not in Contract | | | | | | | | |
| Total | | 269.5 | 10.0 | 43.5 | 100.0 | 78.0 | 28.0 | 10.0 | |
| HOURS | | | 10.0 | 43.5 | 100.0 | 78.0 | 28.0 | 10.0 | |

Cost Spreadsheet

| | | Geotechnical - Shannon & Wilson | | | | | | |
|---------------------|---------------------------------|---------------------------------|-------------------|-------------------------|-----------------|------------------------|------------|-------------------|
| | | Geotechnical - Shannon & Wilson | Sr Vice President | Senior Professional III | Professional II | Senior Professional II | Drafter II | Administrative II |
| Task | Consultant's Billing Rate | | \$250.00 | \$145.00 | \$90.00 | \$130.00 | \$90.00 | \$70.00 |
| | | \$31,167.50 | | | | | | |
| | LABOR REVENUE | | \$2,500 | \$6,308 | \$9,000 | \$10,140 | \$2,520 | \$700 |
| ADDITIONAL SERVICES | | | | | | | | |
| DIRECT EXPENSES | | | | | | | | |
| | Traffic Control | | \$5,000 | | | | | |
| | Utility Locates | | | | | | | |
| | Potholing with temporary patch | | | | | | | |
| | Geotechnical Drilling | | \$22,050 | | | | | |
| | Analytical Testing Geotechnical | | | | | | | |
| | Laboratory | | \$4,791 | | | | | |
| | Misc Geotech Expenses | | \$1,610 | | | | | |
| | Permit | | | | | | | |
| | Public meetings | | | | | | | |
| | Reproduction of Submittal Sets | | | | | | | |
| | Traffic Counts | | | | | | | |
| | Survey Control | | | | | | | |
| | Travel | | | | | | | |
| | Lodging | | | | | | | |
| | Meals | | | | | | | |
| | OAHP file search/scans | | | | | | | |
| | ACM samples | | | | | | | |
| | LBP samples | | | | | | | |
| | Regulatory Database | | | | | | | |
| | Museum Research fee | | | | | | | |
| | Scissor Lift | | | | | | | |
| | | | \$33,451 | | | | | |
| | | | \$64,619 | | | | | |

Cost Spreadsheet

Cost Spreadsheet

| Task | | Consultant's Billing Rate | | Streetscape Landscape and Trail Design - Shrewsberry | | | | | | | | | | |
|------|--|---------------------------|----------|--|------------------------|------------------------------|---------------|----------------|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Streetscape Landscape and Trail Design - Shrewsberry | | | | | | | | | | |
| | | | | Streetscape Landscape and Trail Design - Shrewsberry | Engineer 7 (Principal) | Engineer 5 (Project Manager) | Engineer 4 | Engineer 2 | Engineer 1 | Landscape Architect 4 | Landscape Architect 4 | Landscape Architect 3 | Landscape Architect 3 | Landscape Architect 1 |
| | | | | | Eric Rolle | Louis Anderson | Landen Yasuda | Sam Lamichhane | Regis Stinson | Nola Albrecht | Doug Decker | Chad Lothamer | Zach Beringer | Stephanie Powers |
| | | | \$220.63 | \$164.85 | \$138.40 | \$90.94 | \$85.00 | \$116.40 | \$116.40 | \$96.63 | \$96.63 | \$60.26 | | |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | | | | | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | 4.0 | 3.0 | | | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 9.0 | 0.0 | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| A | Attend project management meetings. | | | | | | | | | | | | | |
| B | Attend consultant team coordination meetings. | | | 4.0 | | | | | | | | | | |
| C | Attend outside agency coordination meetings as described in other tasks | | | | | | | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | 5.0 | | | | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | | | | | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| A | | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| A | Not in Contract | | | | | | | | | | | | | |
| B | Not in Contract | | | | | | | | | | | | | |
| | Total | 534.0 | 8.0 | 43.0 | 84.0 | 40.0 | 45.0 | 3.0 | 33.0 | 31.0 | 125.0 | 122.0 | | |
| | HOURS | | 8.0 | 43.0 | 84.0 | 40.0 | 45.0 | 3.0 | 33.0 | 31.0 | 125.0 | 122.0 | | |

Cost Spreadsheet

Cost Spreadsheet

| Task | | Lighting - Clanton | | | | | | |
|-----------|---|--------------------|-----------|-------------|----------|-------------|----------|---------|
| | | Lighting - Clanton | | | | | | |
| | | Sr Principal | Principal | Sr Designer | Engineer | Sr Designer | Engineer | |
| Task | Consultant's Billing Rate | Lighting - Clanton | \$260.00 | \$180.00 | \$115.00 | \$95.00 | \$115.00 | \$95.00 |
| 1 | Task 1- Project Management | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Coordinate project tasks with the CCD Project Manager and other CCD personnel | | | | | | | |
| B | Review sub invoices; prepare and submit monthly invoices and progress reports. Prepare subconsultant agreements | | | | | | | |
| C | Develop and maintain a project schedule | | | | | | | |
| D | Manage and coordinate work efforts | | | | | | | |
| E | Prepare submit and adhere to QA/QC plan | | | | | | | |
| F | Prepare Project Specila Provisions for 30%,90% and Final Design | | | | | | | |
| G | Prepare Cost Estimate for 30%, 90% and Final Design | | | | | | | |
| 2 | Task 2 - Survey | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Conduct/Attend coordination meetings with CCD including CCD Survey Department | | | | | | | |
| B | Provide required traffic control for survey activities. | | | | | | | |
| C | Prepare Base map & survey control map | | | | | | | |
| D | Locate subsurface investigation test holes in Association with Task 3 | | | | | | | |
| E | Locate utility potholes in association with Task 11 | | | | | | | |
| F | Produce a planimetric map of the project area | | | | | | | |
| G | Prepare a Survey Control Diagram | | | | | | | |
| H | Utility surveys | | | | | | | |
| I | Locate storm sewer pipes and inlets and determine invert elevations. | | | | | | | |
| J | Establish existing and proposed Right of Way (ROW) linework | | | | | | | |
| K | Quality Control / Quality Assurance | | | | | | | |
| 2A | Task 2A - Right of Way Documents | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Determine partial takes and easements are necessary for construction | | | | | | | |
| B | Prepare Ownership map and tabulation | | | | | | | |
| C | Prepare legal exhibits and descriptions | | | | | | | |
| D | Prepare final ROW plans | | | | | | | |
| E | Conduct/Attend a ROWPR with city engineering and city survey staff. | | | | | | | |
| F | Revise the ROW plans based on comments received at the ROWPR | | | | | | | |
| G | Conduct/Attend project coordination meetings with CCD. | | | | | | | |
| H | Revise and submit the ROW plans that address revisions resulting from negotiations during the ROW acquisition | | | | | | | |
| I | Quality Control / Quality Assurance | | | | | | | |
| 2B | Task 2B - Support for Right of Way Acquisition | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Attend meetings to give technical explanations of what the project will entail and why partial takes and easements are needed | | | | | | | |
| B | As requested by the City during negotiations with property owners, locate and mark in the field current and proposed property lines, limits of easements, and other features in order to facilitate negotiations and exchange of information between the City and property owners | | | | | | | |
| C | Revise and eventually finalize ROW Plans, Legal Descriptions, and other documents as requested by the City based upon the outcome of the City's negotiations with property owners. | | | | | | | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Lighting - Clanton | Lighting - Clanton | | | | | |
|----------|--|--------------------|--------------------|-----------|-------------|----------|-------------|----------|
| | | | Sr Principal | Principal | Sr Designer | Engineer | Sr Designer | Engineer |
| | | | \$260.00 | \$180.00 | \$115.00 | \$95.00 | \$115.00 | \$95.00 |
| 3 | Task 3 - Geotechnical Investigations and Pavement Design | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Task 4 - Evaluate and Incorporate Environmental Impacts | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | 1) Collect data and necessary information | | | | | | | |
| | 1a) Biological | | | | | | | |
| | 1b) Historical | | | | | | | |
| | 1c) Archaeological | | | | | | | |
| | 1d) Air Quality | | | | | | | |
| | 1e) Noise | | | | | | | |
| | 1f) Environmental Justice | | | | | | | |
| | 1g) Section 6(f) | | | | | | | |
| | 1h) Paleontology | | | | | | | |
| B | Evaluate Potential Environmental Impacts and Mitigation | | | | | | | |
| | 2a) Biological | | | | | | | |
| | 2b) Historical | | | | | | | |
| | 2c) Archaeological | | | | | | | |
| | 2d) Air Quality | | | | | | | |
| | 2e) Noise | | | | | | | |
| | 2f) Environmental Justice | | | | | | | |
| | 2g) Section 6(f) | | | | | | | |
| | 2h) Paleontology | | | | | | | |
| | 3) Prepare Materials Management Plan | | | | | | | |
| C | Incorporate Sustainable and Resilient Project Elements | | | | | | | |
| | 1) Gather information from sustainability scoring systems; develop Denver specific Sustainability Scorecard spreadsheet, develop project sustainability goals. | | | | | | | |
| | 2) Hold Sustainability Scoring Workshops (3) at Kickoff, 30% & 90% (Consultant attendees include: PM, Roadway Lead, Hydraulics Lead, Sustainability Lead, Bridge Task Lead, & Traffic Lead). | | | | | | | |
| | 3) Evaluate Sustainability throughout design (life-cycle cost analysis, coordination etc.) | | | | | | | |
| | 4) Develop Sustainability Summary (1-2 page memo or pamphlet summarizing practices used on project) | | | | | | | |
| D | Incorporate Environmental Requirements into the Contract Bid Documents | | | | | | | |
| E | Obtain Environmental Permits and Clearances | | | | | | | |
| | Management of Environmental Subconsultants | | | | | | | |
| F | Quality Control / Quality Assurance | | | | | | | |
| 5 | Task 5 - Hydraulic Analysis, Drainage and Permitting | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Conduct detailed hydraulic analysis | | | | | | | |
| B | Provide a full FEMA CLOMR | | | | | | | |
| C | Coordinate with UDFCD and Denver Public Works regarding ongoing planning efforts | | | | | | | |
| D | Coordinate with UDFCD and Denver Public Works regarding ongoing flood studies | | | | | | | |
| E | Perform drainage design | | | | | | | |
| F | Perform scour analysis | | | | | | | |
| G | Design provisions to protect property during a 100 yr flood event during construction | | | | | | | |
| H | Develop 30%, 90%, and final bid plans, specifications and drainage reports | | | | | | | |

Cost Spreadsheet

| | | Lighting - Clanton | | | | | | |
|------|---|--------------------|--------------|-----------|-------------|----------|-------------|----------|
| | | Lighting - Clanton | Sr Principal | Principal | Sr Designer | Engineer | Sr Designer | Engineer |
| Task | Consultant's Billing Rate | | \$260.00 | \$180.00 | \$115.00 | \$95.00 | \$115.00 | \$95.00 |
| I | Develop Hydraulic and drainage quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | |
| J | Obtain CCD Sewer Use and Drainage Permit for floodplain use | | | | | | | |
| K | Conduct/Attend coordination meetings with CCD, UDFCD, and others as needed | | | | | | | |
| L | Support Obtaining 404 permit and ESA compliance | | | | | | | |
| M | Quality Control / Quality Assurance | | | | | | | |

Cost Spreadsheet

| Task | | Consultant's Billing Rate | | Lighting - Clanton | | | | | |
|----------|---|---------------------------|----------|--------------------|-----------|-------------|----------|-------------|----------|
| | | | | Lighting - Clanton | | | | | |
| | | | | Sr Principal | Principal | Sr Designer | Engineer | Sr Designer | Engineer |
| | | \$260.00 | \$180.00 | \$115.00 | \$95.00 | \$115.00 | \$95.00 | | |
| 6 | Task 6 - Structural/Bridge Engineering | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| A | Preliminary phasing analysis | | | | | | | | |
| B | Structure Selection Memo for bridge and walls | | | | | | | | |
| C | Structural analysis, design, and detailing of the new bridge, retaining walls, and other minor structures (assumes 2 walls along bike path) | | | | | | | | |
| D | Coordinate and develop aesthetic enhancement details | | | | | | | | |
| E | Conduct Design Check of Original Cals | | | | | | | | |
| F | Develop 30%, 90%, final review and bid plans and specifications | | | | | | | | |
| G | Develop structure quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | |
| H | Develop LRFR's (load and resistance factor ratings) | | | | | | | | |
| I | Coordinate and attend two detour phasing meetings, one for structure selection report, and one each for the 30%, 90%, and final set reviews | | | | | | | | |
| J | Quality Control / Quality Assurance | | | | | | | | |
| 7 | Task 7 - Roadway and Trail Design | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| A | Design horizontal and vertical alignments of approach roadways and trails | | | | | | | | |
| B | Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | | | | | | | | |
| C | Provide alignments, toes of slope and pertinent design features. Develop intersection detail plan with sidewalks and curb ramps. | | | | | | | | |
| D | Develop removal plans | | | | | | | | |
| E | Develop restoration plans for affected landscaping and any affected irrigation systems | | | | | | | | |
| F | Develop 30%, 90%, final bid plans, specifications | | | | | | | | |
| G | Develop roadway and trail quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | |
| H | Develop signal and sign/stripe quantity tabulations for 30%, 90%, final review and bid plans (10 sheets). Shrewsberry preparing trail plans | | | | | | | | |
| I | Conduct/Attend coordination meetings | | | | | | | | |
| J | Multi-modal operations integration | | | | | | | | |
| K | Design traffic signal | | | | | | | | |
| L | Design signing/stripping | | | | | | | | |
| M | Quality Control / Quality Assurance | | | | | | | | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Lighting - Clanton | Lighting - Clanton | | | | | |
|---|---------------------------|--------------------|--------------------|-----------|-------------|----------|-------------|----------|
| | | | Sr Principal | Principal | Sr Designer | Engineer | Sr Designer | Engineer |
| | | | \$260.00 | \$180.00 | \$115.00 | \$95.00 | \$115.00 | \$95.00 |
| Task 7 – Trail Design Shrewsberry | | | | | | | | |
| M Preliminary Trail Layout and Sections | | | | | | | | |
| N Design horizontal and vertical alignments for trails | | | | | | | | |
| O Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | | | | | | | | |
| P Provide alignments, toes of slope and pertinent design features | | | | | | | | |
| Q Develop removal plans | | | | | | | | |
| R Wall Elevations and Aesthetics | | | | | | | | |
| S Placemaking and Monumentation | | | | | | | | |
| T Streetscape Enhancements | | | | | | | | |
| U Trail Railing Design and Detailing | | | | | | | | |
| V Restoration Plans for affected Landscape Areas | | | | | | | | |
| W Restoration Plans for affected Irrigation Systems | | | | | | | | |
| X Landscape Plans for Frontage of Frog Hollow Park | | | | | | | | |
| Y Native Bank Seeding Plan | | | | | | | | |
| Z 30% plans | | | | | | | | |
| AA 90% plans | | | | | | | | |
| AB Final Bid Plans | | | | | | | | |
| AC 30% specifications | | | | | | | | |
| AD 90% specifications | | | | | | | | |
| AE Final Bid Specifications | | | | | | | | |
| AF 30% tabulations | | | | | | | | |
| AG 90% tabulations | | | | | | | | |
| AH Final Bid Tabulations | | | | | | | | |
| AI Conduct/Attend coordination meetings | | | | | | | | |
| AJ Quality Control / Quality Assurance | | | | | | | | |
| 8 Task 8 - Construction Detours and Construction Traffic Control | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| A 1) Design detour and traffic control | | | | | | | | |
| 2) Design trail detour | | | | | | | | |
| B Develop construction traffic control specification | | | | | | | | |
| C Develop a schedule of construction traffic control items | | | | | | | | |
| D Develop 30%, 90%, final review and bid plans and specifications | | | | | | | | |
| E Develop Detour and traffic control quantity tabulations for 30%, 90%, final review and bid plans. | | | | | | | | |
| F Coordination meetings (2) | | | | | | | | |
| G Transit assessment and coordination with RTD on detour | | | | | | | | |
| H Detour/Construction traffic operations evaluation | | | | | | | | |
| I Detour/Construction traffic operations evaluation memo | | | | | | | | |
| J Quality Control / Quality Assurance | | | | | | | | |

Cost Spreadsheet

| | | Lighting - Clanton | | | | | | |
|-----------|---|--------------------|--------------|-----------|-------------|----------|-------------|----------|
| | | Lighting - Clanton | Sr Principal | Principal | Sr Designer | Engineer | Sr Designer | Engineer |
| Task | Consultant's Billing Rate | | \$260.00 | \$180.00 | \$115.00 | \$95.00 | \$115.00 | \$95.00 |
| 9 | Task 9 – Electrical and Lighting Analysis & Design | 119.0 | 3.0 | 55.0 | 30.0 | 17.0 | 4.0 | 10.0 |
| A | Prepare electrical and lighting design within project limits | | | 30.0 | 25.0 | 16.0 | | |
| B | Coordinate electrical utility design in association with Tasks 10 and 11 | | | | 2.0 | | | |
| C | Develop 30%, 90%, final bid plans, specifications | | | 3.0 | | | 4.0 | 10.0 |
| D | Conduct/Attend electrical and lighting design coordination meetings with CCD and appropriate utility agencies | | | 20.0 | | | | |
| E | Develop Lighting quantity tabulations for 30%, 90%, final review and bid plans. | | | 2.0 | 3.0 | 1.0 | | |
| F | Quality Control / Quality Assurance | | 3.0 | | | | | |
| 10 | Task 10 - Utility Coordination | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Obtain outstanding utility key maps (approximately 4 companies). Contact identified utility owners to confirm the presence of facilities in the project area and to obtain location maps and information on planned facilities. Provide maps to surveyor for utility survey. Field verify location maps and utility survey. (related to Task 2.H) | | | | | | | |
| B | Meet one-on-one with utility companies and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies. Set up meetings, develop agendas, facilitate meetings, and develop meeting minutes. Assume one day of meetings with six utility owners. | | | | | | | |
| C | Obtain easements, license agreements, and relocation agreements from Utility companies as applicable and provide to CCD. | | | | | | | |
| D | Conduct/Attend utility coordination meetings with CCD, Denver Water, Xcel, and all other impacted utilities, separate from one-on-one utility meetings mentioned above. Assume two meetings. | | | | | | | |
| E | After 90% plan review, conduct as needed coordination/comment resolution meetings with utility owners on wet and dry utility design. Assume two meetings. | | | | | | | |
| F | Prepare the utility specification for the 90%, final review and bid submittals. | | | | | | | |
| G | Prepare, coordinate and obtain utility clearance letters after the 90% design review meeting. Assume three letters. | | | | | | | |
| H | Complete Xcel Energy work order request form and coordinate relocation of light poles with Xcel. | | | | | | | |
| I | Obtain estimates of probable cost for utility relocations that are a cost to the project (assume no wet utility relocations) | | | | | | | |
| J | Quality Control / Quality Assurance | | | | | | | |

Cost Spreadsheet

| | | Lighting - Clanton | | | | | | |
|-----------|--|--------------------|--------------|-----------|-------------|----------|-------------|----------|
| | | Lighting - Clanton | Sr Principal | Principal | Sr Designer | Engineer | Sr Designer | Engineer |
| Task | Consultant's Billing Rate | | \$260.00 | \$180.00 | \$115.00 | \$95.00 | \$115.00 | \$95.00 |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Attend project management meetings. | | | | | | | |
| B | Attend consultant team coordination meetings. | | 2.0 | | | | | |
| C | Attend outside agency coordination meetings as described in other tasks | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | | | | | | | | |
| B | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A | Not in Contract | | | | | | | |
| B | Not in Contract | | | | | | | |
| | Total | 121.0 | 5.0 | 55.0 | 30.0 | 17.0 | 4.0 | 10.0 |
| | HOURS | | 5.0 | 55.0 | 30.0 | 17.0 | 4.0 | 10.0 |

Cost Spreadsheet

| | | Lighting - Clanton | | | | | | |
|--|---------------------------|--------------------|--------------|-----------|-------------|----------|-------------|----------|
| | | Lighting - Clanton | Sr Principal | Principal | Sr Designer | Engineer | Sr Designer | Engineer |
| Task | Consultant's Billing Rate | | \$260.00 | \$180.00 | \$115.00 | \$95.00 | \$115.00 | \$95.00 |
| | | | | | | | | |
| | LABOR REVENUE | \$17,675.00 | \$1,300 | \$9,900 | \$3,450 | \$1,615 | \$460 | \$950 |
| ADDITIONAL SERVICES DIRECT EXPENSES Traffic Control Utility Locates Potholing with temporary patch Geotechnical Drilling Analytical Testing Geotechnical Laboratory Misc Geotech Expenses Permit Public meetings Reproduction of Submittal Sets Traffic Counts Survey Control Travel Lodging Meals OAHP file search/scans ACM samples LBP samples Regulatory Database Museum Research fee Scissor Lift | | Lighting - Clanton | \$100 | | | | | |
| | | | \$100 | | | | | |
| | | | \$17,775.00 | | | | | |

Cost Spreadsheet

Cost Spreadsheet

| Task | Consultant's Billing Rate | Survey - HKS | | | | | Public Outreach - Regnier | Public Outreach - Regnier | | | | | |
|-----------|--|---------------------|------------------------|------------------|-------------|-------------|---------------------------|---------------------------|-------------------------------------|---------------------------------|------------|-------------|-------------|
| | | Associate Principal | Survey Project Manager | Project Surveyor | 1 Man Crew | 2 Man Crew | | Outreach Specialist | Hispanic/Latino Outreach Specialist | Asian/Other Outreach Specialist | Admin | Graphics | |
| | | \$165.00 | \$120.00 | \$105.00 | \$130.00 | \$175.00 | | \$135.00 | \$135.00 | \$95.00 | \$75.00 | \$95.00 | |
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | | | | | | | | | | | | |
| B | Coordinate with project stakeholders | | | | | | | | | | | | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | | | | | | | | | | | | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| A | Attend project management meetings. | | | | | | | | | | | | |
| B | Attend consultant team coordination meetings. | | | | | | | | | | | | |
| C | Attend outside agency coordination meetings as described in other tasks | | | | | | | | | | | | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | | | | | | | | | | | | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | | | | | | | | | | | | |
| 16 | Task 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| A | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | |
| 17 | Task 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| A | Not in Contract | | | | | | | | | | | | |
| B | Not in Contract | | | | | | | | | | | | |
| | Total | 376.0 | 29.0 | 177.0 | 24.0 | 88.0 | 58.0 | 84.0 | 34.0 | 0.0 | 0.0 | 38.0 | 12.0 |
| | HOURS | | 29.0 | 177.0 | 24.0 | 88.0 | 58.0 | | 34.0 | 0.0 | 0.0 | 38.0 | 12.0 |

Cost Spreadsheet

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|---|---------------------------|-------------|-----------------|
| 1 Task 1- Project Management | | 370 | \$76,150 |
| A Coordinate project tasks with the CCD Project Manager and other CCD personnel | | 28.00 | |
| B Review sub invoices; prepare and submit monthly invoices and progress reports. Prepare subconsultant agreements | | 82.00 | |
| C Develop and maintain a project schedule | | 12.00 | |
| D Manage and coordinate work efforts | | 170.00 | |
| E Prepare submit and adhere to QA/QC plan | | 24.00 | |
| F Prepare Project Specila Provisions for 30%,90% and Final Design | | 36.00 | |
| G Prepare Cost Estimate for 30%, 90% and Final Design | | 18.00 | |
| 2 Task 2 - Survey | | 246 | \$34,040 |
| A Conduct/Attend coordination meetings with CCD including CCD Survey Department | | 10.00 | |
| B Provide required traffic control for survey activities. | | 2.00 | |
| C Prepare Base map & survey control map | | 102.00 | |
| D Locate subsurface investigation test holes in Association with Task 3 | | 4.00 | |
| E Locate utility potholes in association with Task 11 | | 8.00 | |
| F Produce a planimetric map of the project area | | 40.00 | |
| G Prepare a Survey Control Diagram | | 8.00 | |
| H Utility surveys | | 28.00 | |
| I Locate storm sewer pipes and inlets and determine invert elevations. | | 8.00 | |
| J Establish existing and proposed Right of Way (ROW) linework | | 16.00 | |
| K Quality Control / Quality Assurance | | 20.00 | |
| 2A Task 2A - Right of Way Documents | | 130 | \$16,095 |
| A Determine partial takes and easements are necessary for construction | | 0.00 | |
| B Prepare Ownership map and tabulation | | 13.00 | |
| C Prepare legal exhibits and descriptions | | 24.00 | |
| D Prepare final ROW plans | | 56.00 | |
| E Conduct/Attend a ROWPR with city engineering and city survey staff. | | 6.00 | |
| F Revise the ROW plans based on comments received at the ROWPR | | 9.00 | |
| G Conduct/Attend project coordination meetings with CCD. | | 0.00 | |
| H Revise and submit the ROW plans that address revisions resulting from negotiations during the ROW acquisition | | 6.00 | |
| I Quality Control / Quality Assurance | | 16.00 | |
| 2B Task 2B - Support for Right of Way Acquisition | | 4 | \$940 |
| A Attend meetings to give technical explanations of what the project will entail and why partial takes and easements are needed | | 4.00 | |
| B As requested by the City during negotiations with property owners, locate and mark in the field current and proposed property lines, limits of easements, and other features in order to facilitate negotiations and exchange of information between the City and property owners | | 0.00 | |
| C Revise and eventually finalize ROW Plans, Legal Descriptions, and other documents as requested by the City based upon the outcome of the City's negotiations with property owners. | | 0.00 | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|----------|--|-------------|----------|
| 3 | Task 3 - Geotechnical Investigations and Pavement Design | 270 | \$31,168 |
| 4 | Task 4 - Evaluate and Incorporate Environmental Impacts | 502 | \$69,245 |
| A | 1) Collect data and necessary information | 3.50 | |
| | 1a) Biological | 61.00 | |
| | 1b) Historical | 17.00 | |
| | 1c) Archaeological | 1.00 | |
| | 1d) Air Quality | 29.00 | |
| | 1e) Noise | 4.00 | |
| | 1f) Environmental Justice | 3.00 | |
| | 1g) Section 6(f) | 16.00 | |
| | 1h) Paleontology | 6.00 | |
| B | Evaluate Potential Environmental Impacts and Mitigation | 0.00 | |
| | 2a) Biological | 62.00 | |
| | 2b) Historical | 136.00 | |
| | 2c) Archaeological | 9.50 | |
| | 2d) Air Quality | 0.00 | |
| | 2e) Noise | 1.00 | |
| | 2f) Environmental Justice | 1.00 | |
| | 2g) Section 6(f) | 17.00 | |
| | 2h) Paleontology | 23.00 | |
| | 3) Prepare Materials Management Plan | 47.00 | |
| C | Incorporate Sustainable and Resilient Project Elements | 0.00 | |
| | 1) Gather information from sustainability scoring systems; develop Denver specific Sustainability Scorecard spreadsheet, develop project sustainability goals. | 0.00 | |
| | 2) Hold Sustainability Scoring Workshops (3) at Kickoff, 30% & 90% (Consultant attendees include: PM, Roadway Lead, Hydraulics Lead, Sustainability Lead, Bridge Task Lead, & Traffic Lead). | 45.00 | |
| | 3) Evaluate Sustainability throughout design (life-cycle cost analysis, coordination etc.) | 0.00 | |
| | 4) Develop Sustainability Summary (1-2 page memo or pamphlet summarizing practices used on project) | 0.00 | |
| D | Incorporate Environmental Requirements into the Contract Bid Documents | 6.00 | |
| E | Obtain Environmental Permits and Clearances | 11.00 | |
| | Management of Environmental Subconsultants | 21.00 | |
| F | Quality Control / Quality Assurance | 10.00 | |
| 5 | Task 5 - Hydraulic Analysis, Drainage and Permitting | 604 | \$73,940 |
| A | Conduct detailed hydraulic analysis | 136.00 | |
| B | Provide a full FEMA CLOMR | 14.00 | |
| C | Coordinate with UDFCD and Denver Public Works regarding ongoing planning efforts | 9.00 | |
| D | Coordinate with UDFCD and Denver Public Works regarding ongoing flood studies | 9.00 | |
| E | Perform drainage design | 104.00 | |
| F | Perform scour analysis | 12.00 | |
| G | Design provisions to protect property during a 100 yr flood event during construction | 0.00 | |
| H | Develop 30%, 90%, and final bid plans, specifications and drainage reports | 264.00 | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|------|---|-------------|-----|
| I | Develop Hydraulic and drainage quantity tabulations for 30%, 90%, final review and bid plans. | 22.00 | |
| J | Obtain CCD Sewer Use and Drainage Permit for floodplain use | 2.00 | |
| K | Conduct/Attend coordination meetings with CCD, UDFCD, and others as needed | 12.00 | |
| L | Support Obtaining 404 permit and ESA compliance | 4.00 | |
| M | Quality Control / Quality Assurance | 16.00 | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|--|---------------------------|-------------|------------------|
| 6 Task 6 - Structural/Bridge Engineering | | 1236 | \$140,820 |
| A Preliminary phasing analysis | | 0.00 | |
| B Structure Selection Memo for bridge and walls | | 162.00 | |
| C Structural analysis, design, and detailing of the new bridge, retaining walls, and other minor structures (assumes 2 walls along bike path) | | 375.00 | |
| D Coordinate and develop aesthetic enhancement details | | 73.00 | |
| E Conduct Design Check of Original Cals | | 100.00 | |
| F Develop 30%, 90%, final review and bid plans and specifications | | 372.00 | |
| G Develop structure quantity tabulations for 30%, 90%, final review and bid plans. | | 92.00 | |
| H Develop LRFR's (load and resistance factor ratings) | | 2.00 | |
| I Coordinate and attend two detour phasing meetings, one for structure selection report, and one each for the 30%, 90%, and final set reviews | | 0.00 | |
| J Quality Control / Quality Assurance | | 60.00 | |
| 7 Task 7 – Roadway and Trail Design | | 970 | \$113,464 |
| A Design horizontal and vertical alignments of approach roadways and trails | | 38.00 | |
| B Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | | 86.00 | |
| C Provide alignments, toes of slope and pertinent design features. Develop intersection detail plan with sidewalks and curb ramps. | | 96.00 | |
| D Develop removal plans | | 16.00 | |
| E Develop restoration plans for affected landscaping and any affected irrigation systems | | 0.00 | |
| F Develop 30%, 90%, final bid plans, specifications | | 164.00 | |
| G Develop roadway and trail quantity tabulations for 30%, 90%, final review and bid plans. | | 54.00 | |
| H Develop signal and sign/stripe quantity tabulations for 30%, 90%, final review and bid plans (10 sheets). Shrewsberry preparing trail plans | | 20.00 | |
| I Conduct/Attend coordination meetings | | 0.00 | |
| J Multi-modal operations integration | | | |
| K Design traffic signal | | 10.00 | |
| L Design signing/stripping | | 10.00 | |
| M Quality Control / Quality Assurance | | 56.00 | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|---|---|-------------|-----------------|
| Task 7 – Trail Design Shrewsberry | | | |
| M | Preliminary Trail Layout and Sections | 36.00 | |
| N | Design horizontal and vertical alignments for trails | 10.00 | |
| O | Develop profiles, cross sections, geometrics, grading, and pavement/trail sections | 11.00 | |
| P | Provide alignments, toes of slope and pertinent design features | 9.00 | |
| Q | Develop removal plans | 0.00 | |
| R | Wall Elevations and Aesthetics | 36.00 | |
| S | Placemaking and Monumentation | 0.00 | |
| T | Streetscape Enhancements | 0.00 | |
| U | Trail Railing Design and Detailing | 20.00 | |
| V | Restoration Plans for affected Landscape Areas | 20.00 | |
| W | Restoration Plans for affected Irrigation Systems | 16.00 | |
| X | Landscape Plans for Frontage of Frog Hollow Park | 20.00 | |
| Y | Native Bank Seeding Plan | 20.00 | |
| Z | 30% plans | 50.00 | |
| AA | 90% plans | 44.00 | |
| AB | Final Bid Plans | 23.00 | |
| AC | 30% specifications | 9.00 | |
| AD | 90% specifications | 11.00 | |
| AE | Final Bid Specifications | 10.00 | |
| AF | 30% tabulations | 19.00 | |
| AG | 90% tabulations | 19.00 | |
| AH | Final Bid Tabulations | 10.00 | |
| AI | Conduct/Attend coordination meetings | 20.00 | |
| AJ | Quality Control / Quality Assurance | 7.00 | |
| 8 Task 8 - Construction Detours and Construction Traffic Control | | 272 | \$39,130 |
| A | 1) Design detour and traffic control | 28.00 | |
| | 2) Design trail detour | 20.00 | |
| B | Develop construction traffic control specification | 4.00 | |
| C | Develop a schedule of construction traffic control items | 0.00 | |
| D | Develop 30%, 90%, final review and bid plans and specifications | 66.00 | |
| E | Develop Detour and traffic control quantity tabulations for 30%, 90%, final review and bid plans. | 20.00 | |
| F | Coordination meetings (2) | 8.00 | |
| G | Transit assessment and coordination with RTD on detour | 20.00 | |
| H | Detour/Construction traffic operations evaluation | 78.00 | |
| I | Detour/Construction traffic operations evaluation memo | 24.00 | |
| J | Quality Control / Quality Assurance | 4.00 | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|--|---------------------------|-------------|-----------------|
| 9 Task 9 – Electrical and Lighting Analysis & Design | | 119 | \$17,155 |
| A Prepare electrical and lighting design within project limits | | 71.00 | |
| B Coordinate electrical utility design in association with Tasks 10 and 11 | | 2.00 | |
| C Develop 30%, 90%, final bid plans, specifications | | 17.00 | |
| D Conduct/Attend electrical and lighting design coordination meetings with CCD and appropriate utility agencies | | 20.00 | |
| E Develop Lighting quantity tabulations for 30%, 90%, final review and bid plans. | | 6.00 | |
| F Quality Control / Quality Assurance | | 3.00 | |
| 10 Task 10 - Utility Coordination | | 85 | \$13,290 |
| A Obtain outstanding utility key maps (approximately 4 companies). Contact identified utility owners to confirm the presence of facilities in the project area and to obtain location maps and information on planned facilities. Provide maps to surveyor for utility survey. Field verify location maps and utility survey. (related to Task 2.H) | | 12.00 | |
| B Meet one-on-one with utility companies and jurisdictions to discuss project scope, utility conflicts, and relocation and mitigation strategies. Set up meetings, develop agendas, facilitate meetings, and develop meeting minutes. Assume one day of meetings with six utility owners. | | 24.00 | |
| C Obtain easements, license agreements, and relocation agreements from Utility companies as applicable and provide to CCD. | | 1.00 | |
| D Conduct/Attend utility coordination meetings with CCD, Denver Water, Xcel, and all other impacted utilities, separate from one-on-one utility meetings mentioned above. Assume two meetings. | | 12.00 | |
| E After 90% plan review, conduct as needed coordination/comment resolution meetings with utility owners on wet and dry utility design. Assume two meetings. | | 8.00 | |
| F Prepare the utility specification for the 90%, final review and bid submittals. | | 8.00 | |
| G Prepare, coordinate and obtain utility clearance letters after the 90% design review meeting. Assume three letters. | | 8.00 | |
| H Complete Xcel Energy work order request form and coordinate relocation of light poles with Xcel. | | 4.00 | |
| I Obtain estimates of probable cost for utility relocations that are a cost to the project (assume no wet utility relocations) | | 2.00 | |
| J Quality Control / Quality Assurance | | 6.00 | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|-----------|--|-------------|-----------------|
| 11 | Task 11 - Utility Design | 189 | \$20,390 |
| A | Identify potential utility conflicts. Coordinate with design team to mitigate conflicts with design adjustments. | 8.00 | |
| B | Conduct supplemental Utility potholing - assume 6 potholes over 1 day | 12.00 | |
| C | Create pothole location map and log plan sheet(s) | 4.00 | |
| D | Prepare existing utility plans sheets | 12.00 | |
| E | Prepare a summary table of all utilities within the project limits | 4.00 | |
| F | Create existing manhole log plan sheet | 2.00 | |
| G | Design utility relocations. Assume no wet relocations. Assume dry utility owners will design their own relocation(s) and Goodbee will coordinate with utility owners and show proposed utilities on utility plans starting at 90%. | 4.00 | |
| H | Develop 30%, 90%, final review and bid plans, specifications and cost estimate for utility relocations. Coordinate with design team to show existing utilities on 30% roadway and trail plans. Assume no more than 12 utility plan sheets (1 cover/PH log, 1 tab, 10 plan sheets). | 125.00 | |
| I | Develop utility relocation quantity tabulations for 30%, 90%, final review and bid | 4.00 | |
| J | Develop tabulation of utility removals and adjustments | 2.00 | |
| K | Check utility clearances and existing utility locations as they relate to proposed grading (included in task 11.A) | 0.00 | |
| L | Quality Control / Quality Assurance | 12.00 | |
| 12 | Task 12 - Erosion Control Analysis & Design | 98 | \$12,166 |
| A | 30% plans (8 sheets total) | 28.00 | |
| B | 90% plans | 14.00 | |
| C | Bid Plans | 7.00 | |
| D | 30% specifications | 5.00 | |
| E | 90% specifications | 8.00 | |
| F | Bid Specifications | 5.00 | |
| G | 30% tabulations and cost estimate | 7.00 | |
| H | 90% tabulations and cost estimate | 4.00 | |
| I | Final Bid Tabulations and cost estimate | 2.00 | |
| M | Assist CCD in obtaining miscellaneous permits from CCD departments and outside entities with regard to construction | 11.00 | |
| N | Quality Control / Quality Assurance | 7.00 | |
| 13 | Task 13 - Public Outreach and Information | 84 | \$8,580 |
| A | Prepare a Public Communication Contact List | 22.00 | |
| B | Prepare content for project web page updates. Coordinate the updates with Denver Public Works. | 0.00 | |
| C | Coordinate meetings with adjacent property owners and business owners | 32.00 | |
| D | Develop graphics, handouts, and other useful media for Public Meetings | 30.00 | |
| E | Prepare for, send out announcements for, and attend up to two Public Meetings | 0.00 | |
| F | Document all comments received at Public Meetings | 0.00 | |
| G | Quality Control / Quality Assurance | 0.00 | |
| 14 | Task 14 - Multi Agency Involvement & Coordination, Stakeholder Coordination | 23 | \$4,835 |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|-----------|--|---------------|-----------------|
| A | Coordinate the design and obtain concurrence with CCD Agencies/ Departments, Urban Drainage and Flood Control District, Mayor's Bicycle Advisory Committee, Mayor's Pedestrian Advisory Committee, Denver Water Department, CDOT, CDPHE, DRCOG, adjacent projects/developments, neighborhood groups, and others. | 16.00 | |
| B | Coordinate with project stakeholders | 0.00 | |
| C | Conduct/Attend coordination meetings with coordinating agencies. | 7.00 | |
| 15 | Task 15 – Design Progress / Coordination Meetings | 243 | \$45,364 |
| A | Attend project management meetings. | 14.00 | |
| B | Attend consultant team coordination meetings. | 174.00 | |
| C | Attend outside agency coordination meetings as described in other tasks | 10.00 | |
| D | Organize, facilitate, and attend pertinent meetings including, but not limited to, Scoping, Resource-specific meetings, and 30%, 90%, and final review meetings and associated comment resolution meetings. | 21.00 | |
| E | Prepare agendas, exhibits, handouts, conduct and write minutes for above mentioned meetings. | 24.00 | |
| 16 | Task 16 | 0 | \$0 |
| A | | 0.00 | |
| B | | 0.00 | |
| 17 | Task 17 | 0 | \$0 |
| A | Not in Contract | 0.00 | |
| B | Not in Contract | 0.00 | |
| | Total | 5444.5 | |
| | HOURS | 5472.5 | |

Cost Spreadsheet

| Task | Consultant's Billing Rate | Total Hours | Fee |
|---------------------------------|---------------------------|----------------------|---------------------|
| | | | |
| LABOR REVENUE | | \$716,770.33 | |
| ADDITIONAL SERVICES | | ADDITIONAL SERVICES | \$25,000 |
| DIRECT EXPENSES | | DIRECT EXPENSES | |
| Traffic Control | | | \$7,450 |
| Utility Locates | | | \$440 |
| Potholing with temporary patch | | | \$2,000 |
| Geotechnical Drilling | | | \$22,050 |
| Analytical Testing Geotechnical | | | \$0 |
| Laboratory | | | \$4,791 |
| Misc Geotech Expenses | | | \$1,610 |
| Permit | | | \$0 |
| Public meetings | | | \$0 |
| Reproduction of Submittal Sets | | | \$500 |
| Traffic Counts | | | \$8,800 |
| Survey Control | | | \$200 |
| Travel | | | \$400 |
| Lodging | | | \$350 |
| Meals | | | \$150 |
| OAHP file search/scans | | | \$164 |
| ACM samples | | | \$84 |
| LBP samples | | | \$60 |
| Regulatory Database | | | \$350 |
| Museum Research fee | | | \$100 |
| Scissor Lift | | | \$500 |
| | | | \$74,999 |
| | | Project Total | \$791,769.33 |

Exhibit C

Acord



CERTIFICATE OF LIABILITY INSURANCE

12/1/2018

DATE (MM/DD/YYYY)

2/2/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| | | | |
|--|--|----------------|------------------------|
| PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000 | CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS: | FAX (A/C, No): | |
| | INSURER(S) AFFORDING COVERAGE | | |
| INSURED 1401891 DAVID EVANS AND ASSOCIATES, INC. 2100 SW RIVER PARKWAY PORTLAND OR 97201 | INSURER A: Zurich American Insurance Company | | NAIC # 16535 |
| | INSURER B: Lloyd's of London | | 38253 |
| | INSURER C: | | |
| | INSURER D: | | |
| | INSURER E: | | |
| INSURER F: | | | |

COVERAGES DEAIN01 **CERTIFICATE NUMBER:** 15183617 **REVISION NUMBER:** XXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | ADDL INSD | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS |
|----------|--|-----------|----------|----------------|-------------------------|-------------------------|---|
| A | <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER: | Y | Y | GLO 9830389 | 12/1/2017 | 12/1/2018 | EACH OCCURRENCE \$ \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ \$300,000 MED EXP (Any one person) \$ \$10,000 PERSONAL & ADV INJURY \$ \$1,000,000 GENERAL AGGREGATE \$ \$2,000,000 PRODUCTS - COMP/OP AGG \$ \$2,000,000 \$ |
| A | <input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY | Y | Y | BAP 9830390 | 12/1/2017 | 12/1/2018 | COMBINED SINGLE LIMIT (Ea accident) \$ \$1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX |
| | <input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$ | | | NOT APPLICABLE | | | EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX |
| A | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below | Y/N | N/A | WC 9336626 | 12/1/2017 | 12/1/2018 | <input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000 |
| B | PROFESSIONAL LIABILITY/POLLUTION LIABILITY | N | N | LDUSA 1704625 | 12/1/2017 | 12/1/2018 | PER CLAIM \$1,000,000 ANNUAL AGGREGATE \$1,000,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 RE: PROJECT #PWT2016-064/CONTRACT #201839479. W. 8TH AVE OVER THE SOUTH PLATTE RIVER BRIDGE REPLACEMENT. SEE ATTACHED.

CERTIFICATE HOLDER

15183617
 CITY AND COUNTY OF DENVER
 DEPT. OF PUBLIC WORKS
 ATTN: JAMES GEIST
 201 W. COLFAX AVE., DEPT. 506
 DENVER CO 80202

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

James M. Agnello

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THE CITY AND COUNTY OF DENVER, ITS ELECTED AND APPOINTED OFFICIALS, EMPLOYEES AND VOLUNTEERS ARE ADDITIONAL INSURED AS RESPECTS GENERAL LIABILITY AND AUTO LIABILITY, AND THESE COVERAGES ARE PRIMARY, AS REQUIRED BY WRITTEN CONTRACT. THE ADDITIONAL INSURED'S OWN COVERAGE IS EXCESS OF AND NON-CONTRIBUTORY WITH THE GENERAL LIABILITY, AND ON THE AUTO LIABILITY AS RESPECTS THE USE OF VEHICLES OWNED BY DAVID EVANS & ASSOCIATES, INC. WHERE REQUIRED BY WRITTEN CONTRACT. WAIVER OF SUBROGATION APPLIES TO GENERAL LIABILITY, AUTO LIABILITY AND WORKERS COMPENSATION/EMPLOYER'S LIABILITY WHERE ALLOWED BY STATE LAW AND AS REQUIRED BY WRITTEN CONTRACT.