

## 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 **WILSON & COMPANY, INC., ENGINEERS & ARCHITECTS** (the "Design Consultant"), a Kansas corporation licensed to do business in the State of Colorado, whose address is 4401 Masthead Street NE, Suite 150, Albuquerque, New Mexico 87109.

### **SECTION 1 – ENGAGEMENT**

**1.01 Engagement.** The City engages the Design Consultant to furnish professional design services for the Connecting Auraria Project, the goal of which is to develop construction-ready plans for the Connecting Auraria Project, and which shall include the replacement of the aging bridge structure over Cherry Creek on Larimer Street between Speer Boulevard and 14<sup>th</sup> Street in downtown Denver, and also include streetscape enhancements on Larimer Street between 14<sup>th</sup> Street and Auraria Campus (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 the Department of Transportation & Infrastructure ("Director") 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 one or more representatives to act as Project Manager for the purpose of issuing written Notice to Proceed and to administer, coordinate and approve 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 Denver Revised Municipal Code ("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 Department of Transportation & Infrastructure 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, 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 **12%**. The project goal for M/WBE participation established for this Agreement by the Division of Small Business Opportunity (DSBO) is 100%.
- (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 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.
- (c) 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.
- (d) 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.

- (e) 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 AND NINETY-SIX THOUSAND, NINE HUNDRED AND EIGHT DOLLARS AND TWENTY-THREE CENTS (\$796,908.23)**, in accordance with the billing rates and fee proposed 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/her 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-EIGHT THOUSAND, SEVEN HUNDRED AND NINETY DOLLARS AND ZERO CENTS (\$48,790.00)** unless an additional amount is approved by the Director or his/her 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 **EIGHTY-TWO THOUSAND DOLLARS AND ZERO CENTS (\$82,000.00)**.

**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 **NINE HUNDRED AND TWENTY-SEVEN THOUSAND, SIX HUNDRED AND NINETY-EIGHT DOLLARS AND TWENTY-THREE CENTS (\$927,698.23)** (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 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 upon on the date that a Notice to Proceed is received by the Design Consultant from the City (the "NTP Date"), and will expire three hundred and sixty-five (365) days after the NTP Date. Subject to the Executive Director's prior written authorization, the Design Consultant shall complete any work in progress as of the expiration date and the term of the Agreement will extend until the work is completed or earlier terminated by the Director.

**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. 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.** Any authorized agent of the City, including the City Auditor or his or her representative, has the right to access, and the right to examine, copy and retain copies, at City's election in paper or electronic form, any pertinent books, documents, papers and records related to the Design Consultant's performance pursuant to this Agreement, provision of any goods or services to the City, and any other transactions related to this Agreement. The Design Consultant shall cooperate with City representatives and City representatives shall be granted access to the foregoing documents and information during reasonable business hours and until the latter of three (3) years after the final payment under the Agreement or expiration of the applicable statute of limitations. When conducting an audit of this Agreement, the City Auditor shall be subject to government auditing standards issued by the United States Government Accountability Office by the Comptroller General of the United States, including with

respect to disclosure of information acquired during the course of an audit. No examination of records and audits pursuant to this paragraph shall require the Design Consultant to make disclosures in violation of state or federal privacy laws. The Design Consultant shall at all times comply with D.R.M.C. 20-276.

**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 contract, the Design 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 Design Consultant shall insert the foregoing provision in all subcontracts.

**5.07 Insurance.**

- (a) **General Conditions:** The Design 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. The Design 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, the Design 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 Design Consultant. The Design 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 Design Consultant. The Design 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:** The Design Consultant shall provide a copy of this Agreement to its insurance agent or broker. The Design Consultant may not commence services or work

relating to the Agreement prior to placement of coverages required under this Agreement. The Design 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 the Design 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 require additional proof of insurance, including, but not limited to, policies and endorsements.

- (c) **Additional Insureds:** For Commercial General Liability, Auto Liability and Excess Liability/Umbrella (if required), the Design Consultant's 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, the Design 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 Design Consultant. The Design 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. The Design 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:** The Design 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. The Design 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 Design 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 the Design Consultant executes this Agreement.
- (g) **Commercial General Liability:** The Design 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:** The Design 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):** The Design 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) The Design 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 Design 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 Design 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 Design Consultant or the Design 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) The Design Consultant's obligation to defend and indemnify may be determined after the Design Consultant's liability or fault has been determined by adjudication, alternative dispute resolution, or otherwise resolved by mutual agreement between the parties. The Design Consultant's duty to defend and indemnify the City shall relate back to the time written notice of the Claim is first provided to the City regardless of whether suit has been filed and even if the Design Consultant is not named as a Defendant.
- (c) The Design Consultant will defend any and all Claims which may be brought or threatened against the City and will pay on behalf of the 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 the City shall be in addition to any other legal remedies available to the City and shall not be considered the City's exclusive remedy.
- (d) Insurance coverage requirements specified in this Agreement shall in no way lessen or limit the liability of the Design Consultant under the terms of this indemnification obligation. The Design 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 \$350,000 per person, \$990,000 per occurrence, subject to adjustment pursuant to C.R.S. § 24-10-114(1)(b)) 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/Reimbursables
Exhibit B	Key Personnel/Fee/Classification/Hourly Rates
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 Department of Transportation & Infrastructure  
201 West Colfax Avenue, Department 608  
Denver, Colorado 80202

to the Design Consultant: Wilson & Company, Inc., Engineers & Architects  
P.O. Box 94000  
Albuquerque, NM 87199

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.

**[Remainder of Page Intentionally Left Blank]**

**[Signature Pages and Exhibit Pages Follow]**

**Contract Control Number:**  
**Contractor Name:**

DOTI-202055806-00  
WILSON & COMPANY, INC., ENGINEERS &  
ARCHITECTS

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:**

Attorney for the City and County of Denver

By:

By:

\_\_\_\_\_

\_\_\_\_\_

By:

\_\_\_\_\_

**Contract Control Number:**  
**Contractor Name:**

DOTI-202055806-00  
WILSON & COMPANY, INC., ENGINEERS &  
ARCHITECTS

By: Scott Waterman

Name: Scott Waterman  
(please print)

Title: Vice President  
(please print)

ATTEST: [if required]

By: \_\_\_\_\_

Name: Steven J. Salazar, PE  
(please print)

Title: Vice President  
(please print)

June 26, 2020

## Project Scope

### Task 1: Project Management

#### A. Standard Project Tasks

The consultant team will coordinate all the work tasks being completed by all parties to ensure Project work completion stages are on schedule. The consultant will review sub-consultant invoices, prepare and submit monthly invoices with cover letter progress reports in addition to coordination/progress meetings, and a Project schedule. Any meetings internal to the design team that does not involve the City should be accounted for by prime consultant and sub-consultants. The City is not responsible for any overrun of meetings that it does not require and attend.

#### B. Coordination

In addition to Project coordination needed to complete the tasks below, consultant team will coordinate:

- On-going third-party involvement.
- Possible pre-construction services by others as outlined in Tasks 5 and 6.
- Future maintenance discussions, including 1 meeting to be held with PMT and stakeholders.

#### **Task 1 Deliverables:**

- Monthly Project Status Reports
- Up to 10 Project Management Team (PMT) meetings and any additional meetings included below
- Consultant shall prepare and distribute meeting minutes for all meetings
- Project schedule, updated monthly and included with monthly invoice
- Prepare and submit quality assurance/quality control plan and adhere to plan throughout life of project

### Task 2: Traffic Study

#### A. Traffic Data Collection

- Obtain traffic counts along Larimer Street from 14th Street to southbound Speer Avenue (all lanes) from City records to develop the equivalent single axle loads for the design period.
- Use historic 24-hour count data with vehicle class and turning movement counts w/bike and ped volumes at three intersections: Larimer Street and 14th Street, Larimer Street and northbound Speer Avenue, and Larimer Street and southbound Speer Avenue.

#### B. Traffic Forecast

- Consultant will submit the traffic forecast through the 2040 planning horizon, and turn them into balanced AM, PM and ADT forecasts. The methodology used to develop the forecast will be presented as part of the traffic technical memorandum. The traffic forecasts will be based on the Denver Regional Council of Government's (DRCOG) travel demand model. Consultant will not run the travel demand models.

#### C. Traffic Analysis

- AM and PM peak hour levels of service (LOS) and queue estimates will be prepared for the existing and forecast future (2040) operating conditions. The operations analysis will be performed using Synchro 10 HCM 6 following the method described in the 2016 Highway Capacity Manual. The study intersections identified for the analysis are: Larimer Street and

# Exhibit A



June 26, 2020

14th Street, Larimer Street and northbound Speer Avenue, and Larimer Street and southbound Speer Avenue. Consultant shall submit an analysis of the recommended number of traffic lanes for review and approval by City Traffic Engineer, prior to completing typical section described below for Larimer Street between 14th Street and southbound Speer Avenue. Evaluation of special or lengthened phases for non-vehicular traffic is exclude.

## **Task 2 Deliverables:**

- Traffic Report with traffic counts and summary of methodology used

## **Task 3: Bridge & Streetscape Concept Development**

### A. Stakeholder Involvement

In coordination with planning staff from Public Works, the consultant team will work with stakeholders to develop a typical section for the bridge and roadway and discuss design options for streetscaping concepts. Stakeholders will largely be comprised of Public Works, Downtown Denver Partnership, Auraria Campus, Denver Parks and Recreation, Urban Drainage and Flood Control District (UDFCD), and Jeremy Hamer, City floodplain administrator. Stakeholder meetings (up to 10 total) will be held to gather input for the City to consider for incorporation into the design.

### B. Final Cross-Section & Streetscape Concept

Based on the stakeholder involvement above, the design team will develop a typical section for the segment of Larimer Street between the Auraria Higher Education Center and 14<sup>th</sup> Street including the bridge. This will also include developing a 10% design of the bridge and roadway layout along Larimer Street. This includes a preliminary analysis of the bridge structure profile and how the Larimer Street bridge will interact with the adjacent Speer Boulevard bridge. Initial bridge design will include preliminary feasibility modeling to analyze the available freeboard over Cherry Creek.

## **Task 3 Deliverables:**

- 10 individual stakeholder meetings
- Typical Section
- 10% Design (Street and Bridge)

## **Task 4: Design and Preparation of Construction Documents**

### A. Survey and Utility Data Collection

This task includes full survey as needed to complete the design of the Project. Items include, but are not limited to:

- a. If required, obtain required right-of-entry permits for survey and geotechnical investigation associated with Task 4C.
- b. Conduct/Attend coordination meetings with City.
- c. Provide required traffic control for survey activities.
- d. Depict topography, physical features and utilities on the base mapping along with existing right-of-way and property ownership. Prepare survey control map depicting locations of Project monuments. All work of surveying and installation of Project monuments shall be in accordance with City requirements and applicable state statutes.
- e. Locate subsurface investigation test holes in association with Task 4C.

# Exhibit A



June 26, 2020

- f. Locate utility potholes in association with Task 4H.
- g. Produce a planimetric map of the Project area. Features located will include, but not be limited to surface and subsurface drainage features, irrigation ditches/conduits, lawn irrigation, signs, mailboxes, fences, driveways and/or curb cuts, curbs, sidewalks, and edges of pavements (asphalt and concrete).
- h. Obtain utility location maps from Xcel, Denver Water and any additional 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 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. Subsurface utility engineering must meet requirements of SB18-167.
- i. Locate storm sewer pipes and inlets and determine invert elevations in association with Tasks 4E and 4H.

## B. Right of Way

## OPTIONAL TASK (\$30,450)

- a. Establish existing and proposed Right of Way (ROW) linework – use to identify easements necessary for completion of the Project. For this proposal, assume three (3) temporary easements will be needed. This Project will adhere to the Uniform Relocation Assistance and Real Property Acquisitions Policies Act of 1970, as amended (the "Uniform Act"), and will require necessary ROW plans.
- b. In the event that design necessitates acquisition of additional ROW, the Consultant shall acquire the necessary real estate interests on behalf of the City, while maintaining strict adherence to the standards set forth in the Uniform Act. The consultant's land acquisition services shall be directly performed by the personnel identified in the proposal. However, at the City's request, the Consultant should be prepared to subcontract and/or coordinate the following: appraisal and appraisal review services, land survey, ROW plan preparation, title services, relocation services, and closings

## C. Geotechnical Engineering

This task includes the subsurface investigation for the purposes of final structural foundation recommendations for the Project described in the overview. The task also includes providing boring log plan sheets and materials related to Project specifications.

- a. Obtain soil and water samples for soil categorization and analysis.
- b. Perform subsurface investigation and applicable laboratory tests in support of providing final design recommendations for the Project features listed above, including pavement design recommendations.
- c. Provide design parameters for all features listed above. 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.
- d. Finalize geotechnical considerations and incorporate them into the plans. Provide draft and final reports to the City for review.
- e. Assist in writing Project special provisions.



June 26, 2020

- f. Attend coordination meetings with the City. Assume one (1) kickoff meeting and two (2) design coordination meetings.

## D. Environmental Research

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 to obtain required federal, state, and local environmental permits. The Project is funded by the City and does not have a federal nexus to USDOT agencies such as FHWA or FTA. However, the United States Army Corps of Engineers (USACE) has jurisdiction over Cherry Creek and will require a Section 404 permit for dredge and fill activities. This scope of services assumes that impacts will be permitted under a USACE nationwide permit.

In conjunction with the City, the consultant will provide the USACE with environmental data and findings at a sufficient level of detail for the Section 404 permit. This includes documenting potential impacts to historic resources under Section 106 of the National Historic Preservation Act; documenting the potential impacts to special-status species under the Endangered Species Act, and documenting potential impacts to waters of the United States and wetlands. The City also requires documentation of other environmental issues for each individual project to aid in making the best design decisions. Tasks include:

- a. **Understanding of Existing Conditions and the Environment** – Collect data and information to identify existing environmental conditions within the Project area. Collect desk-top data including database searches and mapping, conduct limited field reconnaissance and gather other information as needed. Research and document the following specific resource existing conditions: existing and anticipated future changes to land uses including recreation; water quality and water resources; historic, archaeological and paleontological resources; hazardous materials; construction noise; wetlands; vegetation including noxious weeds; wildlife including migratory birds and fisheries; special status species; socioeconomic including environmental justice and aging populations; and any other resources identified during Project scoping or resource evaluations.
- b. **Evaluate Potential Environmental Impacts and Mitigation** – Using data collected in the previous task and applying 30% conceptual bridge design plans prepared in concurrent tasks, evaluate the potential impacts to the environmental resources. The level of effort will depend on the resource type 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.
- c. **USACE Section 404 Permit** – Prepare Request for Authorization under Section 404 of the Clean Water Act for the USACE. Include “Purpose & Need,” environmental data and findings and design plans (30 percent or higher). Document existing conditions and effects to waters of the United States and wetlands, compliance with Section 106 of the National Historic Preservation Act for historic resources, and Endangered Species Act. Provide the same data to the City with the exception of historic resources as noted below. Tasks include:
  - i. **Historic Resources**
    - 1. **USACE Section 404 Permit:**

# Exhibit A



June 26, 2020

- a. Identify and map Area of Potential Effect (APE) (fifty (50) years old or older)
  - b. Conduct historic resource eligibility and effects processes and provide support to the USACE for Section 106 consultation with State Historic Preservation Offices.
- 2. CCD Landmark Preservation:**
- a. Identify and map APE for resources thirty (30) years old or older for CCD Landmark Preservation (Landmark), who will approve any demolition permits for historic structures.
  - b. Include evaluation of the LODO Special Review District 4 as an historic district.
- 3. Denver Parks and Parkways**
- a. Speer Boulevard is an historic district as a part of this system. Design will need to account for historic district requirements.
- ii. Endangered Species Act and Migratory Bird Treaty Act**
1. Evaluate habitat for potential federally and state-listed species, if species is not within a United States Fish and Wildlife Service block clearance for the Denver metropolitan area.
  2. Conduct field survey for migratory bird nests within the project area per Colorado Parks and Wildlife guidelines. Document findings and prepare draft plan specification consistent with Migratory Bird Treaty Act requirements.
- iii. Waters of the United States/Wetlands**
1. Conduct wetland delineations in accordance with USACE procedures within the area of disturbance and calculate areas of impact to wetlands and waters of the United States based on a minimum of 30 percent design.
  2. Include findings in Environmental Summary Memorandum and in Preconstruction Notification to the USACE.
- iv. Hazardous Materials**
1. Coordinate with Denver Department of Public Health and Environment to conduct Phase 1 environmental site assessment (ESA)/data base search, soils sampling and geotechnical drilling
    - a. Conduct lead paint and asbestos testing as needed, depending on Phase I ESA findings
    - b. Prepare draft and final ESA report including findings, maps and photographs, conclusions and recommendations
    - c. Prepare draft and final materials management plan, if necessary.
- v. Parks/Section 6(f) Resources**
1. Evaluate the Cherry Creek trail as a potential resource pursuant to Section 6(f) of the Land and Water Conservation Fund Act of 1965 (Section 6(f)) and advise the City on findings. If a Section 6(f) resource, this task will be rescoped to address required next steps.
- d. Obtain Environmental Permits and Clearances** – In addition to a USACE Section 404 permit, identify and assist the City in obtaining required federal, state and local permits and clearances to address environmental impacts or conditions. Permits and clearances may

June 26, 2020

include but are not limited to: floodplain permit; Section 6(f); Colorado Department of Transportation Municipal Separate Storm Sewer System (MS4) permit; and Colorado Department of Public Health and Environment (CDPHE) lead paint and asbestos.

- e. **Incorporate Environmental Requirements into the Contract Bid Documents** – Based on findings of previous tasks and reported in an environmental summary memorandum, review and address the requirements in contract bid documents. Examples may include preparing a materials management plan to address hazardous materials requirements; also, based on test results for lead based paint and asbestos containing materials, specify abatement requirements for these materials.
- f. **Deliverables**
  - i. Environmental summary memorandum (draft and final)
  - ii. USACE Preconstruction notification (draft and final)
  - iii. Phase I ESA report (draft and final)
  - iv. Materials management plan (if necessary)

## E. Hydraulic Analysis, Drainage, and Permitting

This task includes necessary hydraulic analysis of the Cherry Creek 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, trails, and adjacent areas are also included if caused by a detrimental impact from the Project. It is anticipated that construction will be scheduled such that work in the river channel will occur in low flow season only.

- a. **High Flow Season**

Should construction not occur during low flow season 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 will have to be considered, including level of protection/diversion/in-river BMP's for work in waterway during high flows. **OPTIONAL TASK (\$13,320)**
- b. Conduct detailed hydraulic analysis of the river as necessary in order to ensure, to the maximum extent practical, that a minimum of three (3) feet of freeboard (100-yr Water Surface Elevation to Low Chord) is obtained. If three (3) 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. If three (3) feet of freeboard cannot be achieved, a report must be submitted to detail the efforts made to achieve the freeboard. A formal variance shall be prepared, and as much freeboard as possible should be provided. The considerations include, but are not limited to: structural design that accounts for debris raft in accordance with American Association of State Highway and Transportation Officials (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

# Exhibit A



June 26, 2020

- from Urban Drainage & Flood Control District (UDFCD) shall be used for freeboard calculations.
- c. Provide a full Federal Emergency Management Agency (FEMA) Conditional Letter of Map Revisions and Letter of Map Revision (CLOMR & LOMR) analyses. If the bridge is designed as a no-rise bridge, these may not be required. CLOMR & LOMR analyses must use FEMA effective hydrology and hydraulic models. No-rise analysis shall utilize the latest flood hazard area delineation (FHAD) model as a basis for comparing existing and proposed conditions.
  - d. Coordinate with USACE Dam Operations regarding annual Cherry Creek Dam flush activities.
  - e. Perform scour analysis and ensure that new installation is scour resistant for general scour issues and for 100-yr and 500-yr scour analyses if the bridge is designed such that piers are required in the floodplain.
  - f. Conduct hydrologic analysis as necessary in order to design facilities which drain properly for both the bridge and roadway. No new outfalls to Cherry Creek assumed.
  - g. Perform drainage design in accordance with the City Storm Drainage Design & Technical Criteria Manual, including any requirements for permanent water quality. The Project must comply with Denver's MS4 Permit.
  - h. Develop 30%, 90%, and final bid plans, technical 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, up to three (3) meetings.
  - k. Coordinate with Jeremy Hamer, City Floodplain Administrator, on submittals, requirements, and permits.
  - l. Obtain 404 permit and ESA compliance.
  - m. Obtain CCD Construction Activities Stormwater Discharge Permit (CASDP) due to work in and adjacent to the waterway.
  - n. Obtain design and construction approvals from UDFCD for eligible items under their Maintenance Eligibility Program (MEP).
  - o. USACE coordination (Corps would have jurisdiction/responsibility over National Environmental Policy Act (NEPA)). Schedule initial meeting/phone call to scope the 404 permit and NEPA requirements with the USACE (probably Aaron Eilers) and a second check-in at about 30% design.

June 26, 2020

## F. Bridge Design

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 also includes an analysis of any 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 Larimer Street entirely while construction of the new bridge is taking place.

- a. Produce a Structure Selection Report for the new bridge in accordance with CDOT requirements. The report shall include existing structure data, Project site plan, roadway vertical and horizontal alignments and cross-sections of the structure, construction phasing, 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. Consultant should be aware that construction of the bridge may be phased and consider that in their selection report and design.
- b. Perform the structural analysis, design, and detailing of the new bridge, retaining walls, and other minor structures associated with the Project. Design shall be in accordance with AASHTO, CDOT, and CCD requirements. Provide design calculations, detail notes, and computer outputs.
- c. Coordinate and develop aesthetic enhancement details, as required, on the bridge and retaining walls.
- d. Conduct independent design checks for the bridge and retaining walls.
- e. Develop 30%, 90%, and final bid plans, technical specifications, quantities and cost estimate for all structures.
- f. Provide load and resistance factor design (LRFD) bridge ratings in accordance with the CDOT Bridge Rating Manual and the AASHTO Manual for Bridge Evaluation. The AASHTOWare bridge rating software shall be used, and the electronic files shall be submitted to the City.
- g. Assume attendance at the following meetings: one (1) for detour phasing, two (2) for structure selection report, and one (1) each for the 30%, 90%, and final set reviews.

## G. Civil and Landscape Design

This task includes preliminary and final design and construction documents for streetscape features, sidewalk, curb and gutter, ADA ramps, signal work, and striping.

- a. Develop plans, specifications and cost estimate for streetscape as well as any landscape or historic mitigation. **OPTIONAL TASK (See Item P)**
- b. Develop streetscape quantity tabulations for 30%, 90%, final review and bid. Provide unit costs for pay items in the tabulations. **OPTIONAL TASK (See Item P)**
- c. Develop aesthetic treatments and details for streetscape **OPTIONAL TASK (See Item P)**
- d. Input and check horizontal and vertical alignments against all design criteria including CDOT's Standard Specification for Road and Bridge Construction, CCD Transportation Standards and Details and all ADA compliance requirements.
- e. Develop sidewalk, bike lane, and roadway typical section based on input from Project partners, environmental assessment and geotechnical recommendations.
- f. Provide alignments, toes of slope and pertinent design features, including permanent and temporary impacts, to the ROW, Utility and Environmental task leads.

# Exhibit A



June 26, 2020

- g. Develop intersection geometrics and grading.
- h. Develop removal plans where applicable.
- i. Develop plans for proposed sidewalk alignment, ADA-complaint curb ramps, curb and gutter installation, and updated roadway striping. Updated roadway striping includes bike lanes and the associated delineators approved by CCD in conjunction with Task 3. This task also includes any restoration of parkland as necessary.
- j. Design should ensure the existing connection to the Cherry Creek Trail remains ADA-compliant. No improvements shall be made to this connection outside of the roadway right-of-way unless approved by the CCD Project Manager.
- k. Develop plans for signal relocation, based on Project impacts. This subtask must be approved by the CCD Project Manager prior to progressing.
- l. If necessary, document design variances including justification for each variance.
- m. Generate cross-sections for the design. Label slopes and grades, station and offset to grade breaks and show locations of existing and proposed utilities.
- n. Develop 30%, 90%, final review and bid plans, specifications and cost estimate, including any landscape restoration.
- o. Develop quantity tabulations for 30%, 90%, final review and bid plans.
- p. Provide design for street trees and landscaping, irrigation, special pavements, site furnishings, and amenities. **OPTIONAL TASK (\$49,120)**

## H. Utility Investigation & Coordination

This task is in support of the City's efforts to coordinate with utility companies and obtain utility agreements with the affected utility companies for the project described in the overview. Subsurface utility engineering must meet the requirements of SB18-167.

- a. Utility maps will be acquired from the appropriate utility companies to aid and verify the mapping data collected.
- 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.
- 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 and Denver Water, separate from one-on-one utility meetings mentioned above.
- e. After 90% plan review, conduct as needed coordination/comment resolution meetings with utility owners on wet and dry utility design.
- f. Prepare the utility specification.
- g. Prepare, coordinate and obtain utility clearance letters with the affected utility agencies.
- h. 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.

## I. Erosion Control Design

This task includes the design of erosion control plans.

# Exhibit A



June 26, 2020

- a. Develop 30%, 90%, final review and bid plans, specifications and cost estimate for construction of erosion control and permanent water quality Best Management Practices (BMPs).
- b. Develop erosion control quantity tabulations for 30%, 90%, final review and bid.
- c. Provide assistance to CCD in obtaining miscellaneous permits from CCD departments and outside entities with regard to construction and temporary BMPs.
- d. Prepare the CASDP and supporting plans. This item depends on the disturbed area of the final design and may not be billed against without CCD approval.

## J. Construction Detours

This task includes developing a schedule of traffic control items for the construction of the Project described in the overview.

- a. Develop construction traffic control specification, which includes maintaining access to properties. This includes maintenance of vehicular traffic, bicycle routes, and pedestrian routes, including an acceptable detour of the Cherry Creek trail. The detour of the Cherry Creek trail will require coordination with Denver Parks and Recreation.
- b. Develop construction traffic control plans and a schedule of construction traffic control items based on traffic control required for detours and construction phasing.

## K. Construction Services

This task covers services conducted during the construction phase.

- a. Review submittals (assume six (6)).
- b. Respond to RFIs (Request for Information) within three (3) business days (up to eight (8) RFIs assumed).
- c. Attend project pre-construction and construction kick-off meetings. Assume one (1) additional construction meeting.
- d. Participate in substantial completion walk-through.
- e. Prepare as-built plans based upon redlines by the Contractor and CCD.

## L. Cost Estimates

- a. Provide cost estimates throughout the design process, to be submitted with each submittal plan set.

## M. Optional Services

These tasks are dependent on Task 3 results, capacity analysis by others, and funding availability. Each subtask will be approved by the CCD Project Manager in writing prior to any work being completed.

## **Task 5: Water Quality/Green Infrastructure Analysis and Design**

This task includes design of water quality features.

- a. Develop alternatives analysis and revise/respond to comments (internal and external) based on UDFCD recommendations and CCD Ultra Urban Green Infrastructure Guidelines.

June 26, 2020

- b. Identify water quality options for the project and recommendations based on the project cross-section and surrounding area. Work with City Project Manager and water quality personnel to choose the best option for the final design.
- c. Complete any additional survey and utility locates required for the design of the water quality features.
- d. Develop 30%, 90%, final review and bid plans, specifications and cost estimate for construction of permanent water quality BMP's.
- e. Develop water quality quantity tabulations for 30%, 90%, final review and bid.
- f. Develop water quality design information for final drainage report in conjunction with Task 3E.
- g. Provide assistance to CCD in obtaining miscellaneous permits from CCD departments and outside entities with regard to construction and permanent water quality features / BMP's.
- h. Prepare the CASDP and supporting plans. This item depends on the disturbed area of the final design and may not be billed against without CCD approval.
- i. Conduct/attend coordination meetings with CCD on water quality facility design, up to two (2) meetings.

## **Task 6: Traffic Signal and Intersection Design**

There are two (2) signals to the west of the Larimer Street Bridge that service the northbound and southbound Speer Boulevard on Larimer Street. Of the two (2) signals, the NB Speer Boulevard at Larimer Street signal is adjacent to and just west of the Larimer Street Bridge structure. This scope of work will be to provide traffic signal and intersection design for both the NB and SB Speer Boulevard at Larimer Street intersections.

Design of the new traffic signal to include placement of the traffic signal poles, signal and pedestrian face indications, bicycle face indications (if recommended), detection system, signal and interconnect conduits, overhead and pole-mounted signage, and traffic signal controller/cabinet and electric meters. Design of the signal pole caissons at the NE and SE corner of the NB Speer Boulevard and Larimer Street intersection may need to be incorporated into and as a part of the new bridge structure. In addition, intersection design on this SOW to include curb ramps, bulb-outs, sidewalk, curb and gutters, curb returns and storm sewer facilities on the SB Speer Boulevard at Larimer Street intersection and at the NW and SW corners of the NB Speer Boulevard at Larimer Street intersection. Lastly, intersection signing and pavement marking design will be required for both intersections to bring the two intersections' signing and striping to current Manual on Uniform Traffic Control Devices (MUTCD) and CCD traffic standards.

This traffic signal and intersection design SOW shall complement the Larimer Street Bridge Rebuild SOW and shall include the following 6 design tasks:

- a. Survey: perform existing right-of-way and utilities research and topographic survey of the two (2) intersections. Compile the survey data into a base file.
- b. Prepare conceptual design review (30%) for the two traffic signals and intersection design to be reviewed internally by Infrastructure Project Management and Transportation Design staff.
- c. Prepare preliminary design review (30%) and subsurface utility engineering (SUE) plans for the two traffic signals and intersection design to be reviewed internally by Infrastructure Project Management, Transportation Design, and Engineering Regulatory & Analytics (ERA) staff.



# Exhibit A



June 26, 2020

- d. Prepare final design review (90%) plans, draft construction specifications, and engineer's estimate of probable cost for the two (2) traffic signals and intersection design to be reviewed internally by Infrastructure Project Management, Transportation Design, and ERA staff.
- e. Prepare final plans, construction specifications and engineer's estimate of probable cost for the traffic signal and intersection design to be reviewed internally by Infrastructure Project Management, Transportation Design, and ERA staff.
- f. Generate Advertisement Set (final construction plans, specifications, and engineer's estimate of probable cost).

## **Task A – Survey**

Task A is to provide survey services for the two (2) intersections. This service includes perpetuation of existing survey control monuments, utility and ROW research, topographic and improvement survey, and preparation of base files. Field survey data shall include pavement markings, signage, and existing utility information including storm sewer rim, grate and invert elevations approximately one hundred (100) feet down each leg of the intersections excluding the bridge deck. It should be anticipated that up to two (2) range points will need to be reset. Survey services to be provided per the "Guidelines for Survey Control for Design of City Projects" as described on the following webpage:

<https://www.denvergov.org/rightofwayservices/RightofWayServices/Survey/GuidelinesSurveyControlDesignofCityProjects/tabid/442349/Default.aspx>

## **Task B – Conceptual Layouts**

Task B is to prepare the conceptual design of the two (2) intersections excluding the NW and SW corners of the Larimer Street bridge deck. The conceptual design level will be for an informal review by Infrastructure Project Management and Transportation Design staff only. At this level, only the proposed hard surface such as geometric intersection changes, ADA ramps, bulb-outs, sidewalks, curb returns, and approximate traffic signal poles locations are needed. Conceptual design submittal shall be per the Larimer Street Bridge Rebuild project conceptual review submittal requirements.

## **Task C – Preliminary Design and SUE Plans**

Task C is to prepare preliminary design (30%) and SUE plans of the two (2) traffic signals and intersection design. The preliminary design plans to include:

- City traffic standard legend and key notes sheet
- General traffic and intersection notes sheet detailing the construction, equipment, wiring, signing, utilities, environmental notes and any additional aspects
- Traffic signal and intersection design bid items in bridge Project summary of quantities/tabulation of data
- City standard removal sheet for each intersection
- City signal design sheet for each intersection
- City standard signing/pavement marking sheet for each intersection
- SUE plans for the two (2) intersections
- Signals, signs/pavement marking and civil tabulation of quantities

Traffic signal and intersection preliminary design submittal shall be per the Larimer Street Bridge Rebuild Project preliminary review submittal requirements.

## **Task D – Final Design Review**

Task D is to prepare the final review (90%) plans, draft construction specifications, and a draft engineer's estimate of probable cost for the two (2) traffic signals and intersection design. The construction specification will be formatted to CDOT's Standard Specifications for Road and Bridge Construction,

# Exhibit A



June 26, 2020

2017 Edition, and the cost estimate will be based on bid prices from CCD/CDOT's recent traffic signal and roadway projects. In addition to the sheets listed in preliminary design review plans, the final review plan will need to include the following sheets:

- Curb returns, curb/gutter, bulb-outs, and ADA ramps detail sheets with spot elevations
- Curb return profile sheet for both intersection designs
- Storm sewer profile sheet if applicable

The traffic signal and intersection design final review plans shall address all comments and issues generated from the preliminary design review. Include the draft construction specifications and engineer's estimate in the final design review submittal and submit in accordance with the Larimer Street Bridge Rebuild Project final review submittal requirements.

### **Task E – Final Construction Plans, Specifications, & Engineer's Estimate**

Task E is to complete the final construction (100%) plans, construction specifications, and engineer's estimate for the two (2) traffic signals and intersection design. This final document shall address all comments and issues generated from the final design review, and the final construction plans shall include all sheets listed in the final review plans and the following:

- City standard signal detail sheet
- City standard pavement marking detail sheet
- City standard sign detail sheet

Final construction plans, specs and engineer's estimate submittal package shall be in accordance with the Larimer Street Bridge Rebuild Project final construction plans submittal requirements.

### **Task F – Final AD Set (Contract Bid Documents)**

Task F will be to update any further CCD review comments and package the AD set (Construction Plans, Construction Specifications, and the Engineer's Estimate of Probable Cost) for bid. The AD set (Contract Bid Documents) shall be submitted in accordance with Larimer Street Bridge Rebuild Project Bid Docs submittal requirements.

**Note: Additional services may be added as additional funds become available.**

**Exhibit B**  
**ATTACHMENT 2**  
**CONSULTANT TEAM MEMBERS**

**PRIME CONSULTANT:** Wilson & Company, Inc., Engineers & Architects

List **ALL** potential firm personnel titles/classification that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles, (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Principal-in-Charge	Ensure company resources are available and committed	\$290.00
Senior Project Manager	Overall project management; budget; schedule; licensed	\$245.00
Roadway Task Manager	Task management for roadway, intersection, bike/ped; licensed	\$145.00
Roadway Engineer	Roadway/intersection/bike/ped geometrics; grading; licensed	\$140.00
Jr. Roadway Engineer	Roadway/intersection/bike/ped geometrics; grading; non-licensed	\$125.00
Hydraulics/Drainage Task Manager	Task management for major and minor drainage; licensed	\$210.00
Hydraulics / Drainage Engineer	Design and details of drainage/hydraulics; licensed	\$145.00
Jr. Hydraulics/Drainage Engineer	Design and details of drainage/hydraulics; non-licensed	\$125.00
Senior Structure Engineer	Design leader for structural design tasks; licensed	\$225.00
Structural Engineer	Structure design and calculations; licensed	\$185.00
Jr. Structural Engineer	Structure design and calculations; non-licensed	\$120.00
Environmental Task Manager	Task management for environmental resources and clearances	\$200.00
Survey Task Manager	Manages field and office personnel	\$165.00
Party Chief	Leads field survey	\$95.00
Instrument Man	Assists Party Chief to perform field survey	\$75.00
Senior Cadd Technician	Detail project plans and details; exhibits; 3-D modeling	\$125.00
Cadd Technician	Detail project plans and details; exhibits	\$110.00
Graphic Designer	3-D visualization; Public meeting graphics	\$140.00
Administrative/Clerical	Meeting minutes; invoicing; document control; etc.	\$110.00
Sr. Hydraulics/Drainage Engineer	Coordinates drainage design and detailing; licensed	\$155.00
Environmental Specialist	Coordinates tasks and leads documentation	\$210.00
Biologist	Reviews and documents impacts to biologic resources	\$145.00
Hazmat Specialist	Reviews and documents hazardous material impacts	\$135.00
Survey & ROW Lead	Quality oversight to survey and ROW; licensed	\$175.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rates: 3.00

## Exhibit B

The City will not compensate the Consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproducibles, etc. are not included in the hourly rates, and will be itemized as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

### REIMBURSABLE EXPENSES

Prime Consultant: Wilson & Company, Inc., Engineers & Architects

The additional expenses of the Consultant reimbursable by the City shall include:

1. Actual cost of reproduction of drawings and specifications, requested by the city.
2. Travel/transportation cost shall not be reimbursable by the City for Prime Consultants.

### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
External Reproduction of Documents	At Cost
3 <sup>rd</sup> Party Permits	At Cost
Traffic Control if needed for Site Investigations	At Cost
Public Meeting materials and exhibits	At Cost
Survey materials specific to project	At Cost





## Exhibit B

Updated Page 32

### REIMBURSABLE EXPENSES

**Sub-Consultant:** Livable Cities Studio, Inc.

---

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

#### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11") black+white	\$ <u>.12</u> / each
Copies (8 1/2 x 11") color	\$ <u>.24</u> / each
Copies (8 1/2 x 14") black+white	\$ <u>.80</u> / each
Copies (8 1/2 x 14") color	\$ <u>1.60</u> / each
External Large Format Prints	\$AT COST/ S.F.
Reproducibles	\$AT COST/ page

## Exhibit B

### SUB-CONSULTANT TEAM MEMBERS

**Firm Name:** Communication Infrastructure Group

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Principal	Executive oversight	\$215.00
Senior Counselor	Contract management & strategic counsel	\$195.00
Chief Creative Officer	Overall direction of graphic concepts	\$195.00
Senior Strategic Director	Develops strategic messaging	\$190.00
Counselor II	Day-to-day issues management as needed	\$170.00
Counselor I	Project oversight & outreach coordination	\$141.00
Video producer	Manages video production process	\$141.00
Account supervisor	Manager of day-to-day outreach activities	\$129.00
Creative art director	Manages graphic design process	\$126.00
Associate creative director	Produces graphics, illustrations, etc.	\$115.00
Animator	Produces animations and graphics	\$115.00
Photographer	Provides photography services as needed	\$100.00
Associate II	Mid-level project coordination	\$99.00
Graphic designer	Develops graphic concepts	\$95.00
Web designer	Provides web design services as needed	\$84.00
Associate I	Research, event planning, meeting support	\$84.00
Specialist	Provides project support where needed	\$68.00
Production assistant	Assists with video services as needed	\$68.00
Account coordinator	Entry level project support as needed	\$37.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.

The City will not compensate the Consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction costs, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproducibles, etc. are not included in the hourly rates, and will be itemized as a not-to-exceed reproducible expense and will be reimbursed at actual cost.



## Exhibit B

Updated Page 32

### REIMBURSABLE EXPENSES

**Sub-Consultant:** Communication Infrastructure Group

---

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

#### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>N/A</u> / each
Copies (8 1/2 x 14")	\$ <u>N/A</u> / each
Red-line copies	\$ <u>N/A</u> / S.F.
Reproducibles	\$ <u>N/A</u> / page



## Exhibit B

Updated Page 32

### REIMBURSABLE EXPENSES

**Sub-Consultant:** Fox Tuttle Hernandez Transportation Group

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

#### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>N/A</u> / each
Copies (8 1/2 x 14")	\$ <u>N/A</u> / each
Red-line copies	\$ <u>N/A</u> / S.F.
Reproducibles	\$ <u>N/A</u> / page

## Exhibit B

### SUB-CONSULTANT TEAM MEMBERS

Firm Name: Triunity, Inc.

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Administration Support	Administration and Clerical Support	\$85.00
Civil Engineer Lead	Civil design	\$190.00
Civil Engineer 2	Civil design	\$170.00
Civil Engineer 1	Civil design	\$145.00
Civil/Structural Inspector	Civil/Structural Field Inspections	\$155.00
Civil/Structural Inspector 2	Civil/Structural Field Inspections	\$132.00
Civil/Structural Inspector 1	Civil/Structural Field Inspections	\$115.00
Construction Manager	Construction Phasing, Constructability Reviews	\$160.00
Construction Safety	Construction Field Safety	\$117.00
Drafting Lead	CAD & Drafting	\$115.00
Drafter 1	CAD & Drafting	\$95.00
Electrical Engineer Lead	Electrical and Systems Engineering	\$245.00
Electrical Engineer 2	Electrical and Systems Engineering	\$210.00
Electrical Engineer 1	Electrical and Systems Engineering	\$175.00
Electrical Inspection Lead	Electrical Field Inspections	\$170.00
Electrical Inspection 2	Electrical Field Inspections	\$145.00
Electrical Inspection 1	Electrical Field Inspections	\$115.00
ITS/Traffic Senior	Traffic and ITS Design and Analysis	\$210.00
ITS/Traffic Engineer 2	Traffic and ITS Design and Analysis	\$170.00
ITS/Traffic Engineer 1	Traffic and ITS Design and Analysis	\$145.00
Project Controls Manager	Project Management, Project Controls Lead	\$220.00
Project Controls 2	Scheduling, Estimating, Contract Admin	\$175.00
Project Controls 1	Scheduling, Estimating, Contract Admin	\$125.00
Project Manager Senior	Project Management Functions	\$255.00
Project Manager 2	Project Management Functions	\$190.00
Project Manager 1	Project Management Functions	\$140.00
Utility Coordinator Lead	Utility Coordination	\$190.00
Utility Coordinator 2	Utility Coordination	\$160.00
Utility Coordinator 1	Utility Coordination	\$130.00

## **Exhibit B**

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 115.05\_\_\_\_\_.

The City will not compensate the Consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction costs, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproductions, etc. are not included in the hourly rates, and will be itemized as a not-to-exceed reproduction expense and will be reimbursed at actual cost.

### **REIMBURSABLE EXPENSES**

**Sub Consultant:** Triunity, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

## Exhibit B

### Attachment 1

#### SUB-CONSULTANT TEAM MEMBER

Firm Name: Utility Mapping Services, Inc.

Title/Classification	Responsibilities	Rate/Hr.
Utility Coord. Manager	Overseeing Utility Coordination efforts regarding the project.	\$151.92
Principal Engineer	Project oversight. QA/QC. Submittal Preparation. Engineer of Record.	\$140.30
Senior Engineer	Project oversight. QA/QC. Submittal Preparation.	\$140.78
Senior Geophysicist	Coordinating field work and processing advanced geophysical investigations.	\$138.56
Project Manager	Project management. Meetings. QA/QC Submittal preparation.	\$131.17
SUE Field Ops. Manager	Field management. QA/QC. Utility Designating and Locating.	\$106.62
Business Administrator	Accounting. Invoicing.	\$104.64
Staff Engineer	CADD Development. Database Development Engineering Survey. QA/QC.	\$113.35
SUE Field Specialist II	Field Designating and Locating.	\$93.85
SUE Field Specialist I	Field Designating and Locating.	\$79.05
GIS IT Specialist	Database Development.	\$74.91

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.9551

All reimbursable expenses are subject to the review and approval of the City. The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Mileage: Reimbursable at the current IRS Business Rate ONLY when Consultant is required to drive to a project located outside the City and County of Denver Boundary.
- (2) Actual cost of reproducing and printing reports, drawings, specifications and other work products, and the associated cost for shipping and handling. These reimbursable expenses pertain only to requests made to the Consultant from the City, and exclude intra-office printing, scanning and reproduction required by the Consultant to complete the work.
- (3) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e. aerial photography) and which are provided especially under this Agreement for the benefit of the City.

## Exhibit B

### ATTACHMENT 2 SUB-CONSULTANT TEAM MEMBERS

FIRM NAME: PK Electrical, Inc.

List **ALL** potential firm personnel titles/classification that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles, (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Principal / Engineer of Record	Oversees entire project, manages client. Provides QA / QC reviews.	215.00
Engineering Manager	Engineer in charge of design, standards, requirements, project management staff and attends client meetings	190.00
Senior Project Engineer	Engineer responsible for technical aspects of project, code reviews, oversees junior engineers and designers.	185.00
Senior Project Manager	Assist Project Engineer, manages staff, resources, schedule, budget	175.00
Electrical / Technology Designer	Designs low voltage systems, lighting and power systems, edits specs	150.00
Fire Alarm Engineer / Designer	Design of Fire Alarm, Mass Notification, V-Evac systems and specs	165.00
Technology Manager	Manages Designers and designs for low voltage systems (DATA/Voice, AV, Security, CCTV, Infrastructure Systems)	185.00
Bookkeeper / Accounting	Finance Accounts Manager / Bookkeeping	100.00
Electrician / Field Tech / Designer	Assist in Designs, performs field investigations & site surveys	150.00
Production / BIM Manager	Manages Production Dept and Staff, assigns work, maintains drafting standards and drafting software	125.00
Drafter	Microstation, BIM, CAD drafting and production	95.00
Admin	Filing, document control, spec editing, general tasks	80.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rates: 4.1

The City will not compensate the Consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction and travel costs, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid

## Exhibit B

Updated Page 32

### REIMBURSABLE EXPENSES

**Sub-Consultant:** PK Electrical, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

#### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Black & White Copies (8.5" x 11")	\$ <u>.06</u> / each
Color Copies (8.5" x 11")	\$ <u>.30</u> / each
Black & White Copies (8.5" x 14")	\$ <u>.11</u> / each
Color Copies (8.5" x 14")	\$ <u>.60</u> / each
Black & White Copies (11" x 17")	\$ <u>.12</u> / each
Color Copies (11" x 17")	\$ <u>.60</u> / each
Red-line Copies	\$ <u>.60</u> / each
Reproducibles (24" x 36", 18" x 24", 30" x 42", 36" x 48")	\$ <u>.75</u> / S.F.
File processing fee for CAD drawings	\$ <u>2.25</u> / S.F.
	\$ <u>.20</u> / each

Attachment 2 - Connecting Auraria





## Exhibit B

Updated Page 32

H.C. Peck % Associates, Inc.

### REIMBURSABLE EXPENSES

**Sub-Consultant:** H.C. Peck & Associates, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>N/A</u> / each
Copies (8 1/2 x 14")	\$ <u>N/A</u> / each
Red-line copies	\$ <u>N/A</u> / S.F.
Reproducibles	\$ <u>N/A</u> / page

Attachment 2 - Connecting Auraria



## Exhibit B

Updated Page 32

### REIMBURSABLE EXPENSES

**Sub-Consultant:** All Traffic Data

---

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

#### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>N/A</u> / each
Copies (8 1/2 x 14")	\$ <u>N/A</u> / each
Red-line copies	\$ <u>N/A</u> / S.F.
Reproducibles	\$ <u>N/A</u> / page

Attachment 2 - Connecting Auraria



## Exhibit B

Updated Page 32

### REIMBURSABLE EXPENSES

Sub-Consultant: Mead & Hunt

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

#### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>0</u> / each
Copies (8 1/2 x 14")	\$ <u>0</u> / each
Red-line copies	\$ <u>0</u> / S.F.
Reproducibles	\$ <u>0</u> / page

Attachment 2 - Connecting Auraria



## Exhibit B

Updated Page 32

### REIMBURSABLE EXPENSES

**Sub-Consultant:** Martinez Associates, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

3. Actual cost of reproduction of drawings and specifications, requested by the city.
4. Travel/transportation costs shall not be reimbursable by the City for sub consultants.

#### Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Copies (8 1/2 x 11")	\$ <u>N/A</u> / each
Copies (8 1/2 x 14")	\$ <u>N/A</u> / each
Red-line copies	\$ <u>N/A</u> / S.F.
Reproducibles	\$ <u>N/A</u> / page

Attachment 2 - Connecting Auraria



## Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 9 month active project duration.



### TASK DESCRIPTION

TASK DESCRIPTION	PRIME CONSULTANT	SUBCONSULTANTS										Total Hours	EXPENSES	Total Task Cost
	1	2	3	4	5	6	7	8	9	10	11			
	Wilson & Company	All Traffic Data	GIG	Fox Tuttle	HC Peck	Livable Cities Studio	Martinez	Mead and Hunt	PK Electric	Trinity	Utility Mapping Services			
<b>Task 1. Project Management and Coordination</b>														
<b>A. Project Planning and Monitoring</b>														
1. Project Execution Plan	6											6	\$	1,740.00
2. Project Schedule	4											4	\$	980.00
<b>B. General Project Management</b>														
1. Weekly project management - 4 hours/week for 36 weeks	4											4	\$	980.00
2. Invoicing and Status Reports	126			12						16		154	\$	35,500.00
<b>C. Meetings</b>														
1. City Coordination - Combined with Design Team Meetings	28											28	\$	4,430.00
2. PMT - Monthly (10 total with Key Staff)	24											24	\$	5,405.00
3. Design Team Coordination - Bi-Weekly (18 total)	92			12					10	14		128	\$	25,530.00
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>	284			24					10	30		348		
	\$ 62,805	\$ -	\$ -	\$ 4,560	\$ -	\$ -	\$ -	\$ -	\$ 1,860	\$ 5,340	\$ -		\$	74,565
<b>Task 2. Traffic Study</b>														
<b>A. Traffic Data Collection</b>														
1. Use City Traffic Records for Larimer to Develop ESAL's													\$	-
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections													\$	-
3. Obtain Current Signal Timing				1								1	\$	200.00
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>														
1. Traffic Forecast - 2040 AM/PM/ADT Forecasts				5								5	\$	820.00
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recommendations</b>														
1. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recommendations				66								66	\$	12,030.00
<b>Task 2 SUBTOTAL - Traffic Study</b>				72								72		
	\$ -	\$ -	\$ -	\$ 13,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$	13,050
<b>Task 3. Bridge and Streetscape Concept Development</b>														
<b>A. Stakeholder Involvement</b>														
1. Stakeholder Meetings	42			20		32						94	\$ 1,500.00	\$ 15,810.00
<b>B. Design Parameter Development</b>														
1. Design Parameter Development													\$	-
<b>C. Concept Alternatives</b>														
1. Concept Alternatives	112			10								122	\$	20,040.00
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>														
1. Bridge Design - Layout and Elevation	110											110	\$	17,720.00
2. Preliminary Cherry Creek Channel Modeling for Freeboard	40											40	\$	6,000.00
3. Streetscape Enhancements													\$	-
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>	304			30		32						366	\$ 1,500.00	\$ 59,570
	\$ 48,550	\$ -	\$ -	\$ 5,420	\$ -	\$ 5,600	\$ -	\$ -	\$ -	\$ -	\$ -		\$	59,570
<b>Task 4. Design and Preparation of Construction Documents</b>														
<b>A. Survey</b>														
1. Utility Designating (See UMS Phase 1 Backup)*	288											288	\$	30,340.00
2. Potholing (See UMS Phase 2 Backup)*	25										56	81	\$ 1,778.00	\$ 9,622.63
<b>B. Right-of-Way</b>														
1. Acquisition of three (3) TCE's	21										39	60	\$ 11,163.00	\$ 7,285.82
2. Locate Right-of-Way lines and prepare Three (3) legal descriptions	22											22	\$	2,370.00
<b>C. Geotechnical</b>														
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures	12						136					148	\$ 6,300.00	\$ 13,914.00
2. One (1) Kick-off and Two (2) Design Cordination Meetings with City												50	\$	7,150.00
3. Construction Documents including Soil Boring Logs and Construction Specifications Support	8											22	\$	2,750.00
<b>D. Environmental Research</b>														
1. Existing Conditions	74											74	\$	12,770.00
2. Evaluate Potential Impacts and Develop Mitigation	23											23	\$	3,535.00
3. USACE 404 Permit	78											78	\$	13,650.00
a. SHPO Section 106	10							113				123	\$ 165.00	\$ 17,483.27
b. CCD Landmark Preservation (included in SHPO hours)														
c. Denver Parks and Parkways (included in SHPO hours)														
d. Endangered Species and Migratory Birds	6											6	\$	985.00
e. Waters of the US and Wetlands	8											8	\$	1,475.00
f. Hazardous Materials - Coordinate with DDPHE on Phase 1 ESA	50											50	\$ 2,000.00	\$ 7,340.00
g. Parks/Section 6(f) Resources - Cherry Creek Trail	7											7	\$	1,525.00
4. Obtain Permits and Clearances	29											29	\$	5,615.00
5. Incorporate Environmental Requirements into Bid Docs	10											10	\$	2,040.00
6. Environmental Documentation	36											36	\$	5,400.00

Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 9 month active project duration.



TASK DESCRIPTION

TASK DESCRIPTION	PRIME CONSULTANT	SUBCONSULTANTS										Total Hours	EXPENSES	Total Task Cost
	1	2	3	4	5	6	7	8	9	10	11			
	Wilson & Company	All Traffic Data	GIG	Fox Tuttle	HC Peck	Livable Cities Studio	Martinez	Mead and Hunt	PK Electric	Trinity	Utility Mapping Services			
<b>E. Hydraulic Analysis, Drainage and Permitting</b>														
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFD FHAD model	84											84	\$	13,390.00
2. LOMR. CLOMR as needed	71											71	\$	11,345.00
3. Coordinate with USACE Dam Operations for annual flush activities	3											3	\$	555.00
4. Scour Analysis for 100-yr and 500-yr	61											61	\$	9,245.00
5. Hydology for surface drainage	60											60	\$	8,100.00
6. Surface Drainage System Design	91											91	\$	12,925.00
7. Develop 30%, 90% and Bid documents including drainage reports	98											98	\$	13,810.00
8. Obtain SUDP Permit for Floodplain Use	11											11	\$	1,635.00
9. Meetings (3 total) with CCD, MHFD and coordinate with CCD Floodplain Administrator	10											10	\$	1,730.00
10. Permitting - Support 404, CASDP, MHFD Approvals, USACE Coordination	16											16	\$	2,580.00
<b>F. Bridge Design</b>														
1. Structure Selection Report	69											69	\$	10,945.00
2. Structural Design, Analysis and Detailing of Bridge and Walls	251											251	\$	37,710.00
3. Coordinate and Integrate Aesthetic Enhancements	36											36	\$	5,240.00
4. Independent Design Checks	54											54	\$	9,990.00
5. Develop 30%, 90% and Bid documents including cost estimates	482								46			528	\$	81,240.00
6. Provide LRFD Bridge Rating	12											12	\$	1,700.00
7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews	33											33	\$	7,265.00
<b>G. Civil and Landscape Design</b>														
1. Streetscape and Landscape design documents	14								7			21	\$	2,900.00
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)	13											13	\$	1,825.00
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical	22			40								62	\$	10,230.00
4. Determine Impacts to ROW, Utilities and Environmental	16											16	\$	2,320.00
5. Develop Intersection Plans (3 intersections)	39			32								71	\$	11,635.00
6. Develop Removal Plans	29								6			35	\$	4,690.00
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration	146			40					31			217	\$	32,735.00
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals	40			8					6			54	\$	7,825.00
<b>H. Utility Investigation and Coordination</b>														
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping	6									12		18	\$	2,380.00
2. Meet with Utilities to discuss project impacts, relocations, mitigations	4									22		26	\$	4,120.00
3. Obtain Easements, license agreements and relocation agreements from Utility Companies	4									8		12	\$	1,620.00
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations	34									15		49	\$	7,040.00
5. Meet with Utility Owners after 90% and conduct comment resolution meetings										20		20	\$	3,080.00
6. Develop 30%, 90% and Bid documents including Utility Specification	14									114		128	\$	17,940.00
7. Obtain Utility Clearance Letters from affected Utilities										22		22	\$	3,340.00
8. Complete XCEL Energy work order request form and coordinate pole relocations.									8	6		14	\$	2,250.00
9. Obtain estimates of probable cost for relocations that are project costs	2											2	\$	290.00
<b>I. Erosion Control Design</b>														
1. Develop 30%, 90% and Bid documents including Tabs	118											118	\$	16,550.00
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's	16											16	\$	2,380.00
3. Prepare the CASDP and supporting plans pending CCD approval	8											8	\$	1,200.00
<b>J. Public Outreach and Information</b>														
1. Prepare a public communication Contact List													\$	-
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts													\$	-
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house													\$	-
4. Develop graphics, handouts and other media for stakeholder meeting and open house													\$	-
5. Document comments received at stakeholder and open house meetings													\$	-
<b>K. Construction Detours</b>														
1. Develop Const Phasing and Traffic Control Plans and Specs defining requirements for access maintenance.	76			36								112	\$	17,060.00
2. Develop a schedule of CTC Items based on required traffic control and construction phasing	14											14	\$	1,870.00
<b>L. Construction Services</b>														
1. Review Submittals (6 assumed)	12								8			20	\$	3,590.00
2. Respond to RFI's (8 assumed)	12			6					10			28	\$	5,160.00
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting	12								12			24	\$	4,690.00
4. Prepare as-built plans from Contractor and CCD redlines	44								6			50	\$	6,440.00
<b>M. Cost Estimates (detailed in other disciplines above)</b>														
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>													\$	-
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>	<b>2844</b>			<b>162</b>			<b>200</b>	<b>113</b>	<b>140</b>	<b>219</b>	<b>95</b>	<b>3773</b>		
	\$ 420,785	\$ -	\$ -	\$ 29,190	\$ -	\$ -	\$ 20,774	\$ 15,373	\$ 21,545	\$ 31,470	\$ 10,678		\$ 21,406.00	\$ 549,816



# Exhibit B

## Estimated Work Hours

Project Number:	2018-083	PCN:	N/A	Wilson																								Total Hours	Expenses	Total Task Cost
	Description:		CONNECTING AURARIA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
City Project Manager:	Laura Wasson, PE																													
Wilson Project Manager:	Marc Devos, PE																													
Estimated workhours shown. Assumes 9 month active project duration.		Red Titled Positions need to be added to our rate sheet →																												
TASK DESCRIPTION																														
Task 1. Project Management and Coordination																														
A. Project Planning and Monitoring																														
1. Project Execution Plan		6	4																								6			
2. Project Schedule			4																								4			
B. General Project Management																														
1. Weekly project management - 4 hours/week for 36 weeks			120																								6			
2. Invoicing and Status Reports			10																								18			
C. Meetings																														
1. City Coordination - Combined with Design Team Meetings																														
2. PMT - Monthly (10 total with Key Staff)			10																								24			
3. Design Team Coordination - Bi-Weekly (18 total)			36	12		5	14					5			4												92			
Task 1 SUBTOTAL - Project Management and Coordination		6	184	12		11	14				23			10													24			
		\$ 1,740	\$ 45,080	\$ 1,740	\$ -	\$ -	\$ 2,310	\$ 2,170	\$ -	\$ -	\$ 5,175	\$ -	\$ -	\$ 1,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,640			
Task 2. Traffic Study																														
A. Traffic Data Collection																														
1. Use City Traffic Records for Larimer to Develop ESAL's																														
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections																														
3. Obtain Current Signal Timing																														
B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts																														
C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm																														
Task 2 SUBTOTAL - Traffic Study																														
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Task 3. Bridge and Streetscape Concept Development																														
A. Stakeholder Involvement																														
1. Stakeholder Meetings			10	6		10																					16			
B. Design Parameter Development																														
C. Concept Alternative			10	16		10	8	18	24	18	8																112			
D. Final Cross-Section & Streetscape Concept (10% Design)																														
1. Bridge Design - Layout and Elevation																											110			
2. Preliminary Cherry Creek Channel Modeling for Freeboard																											40			
3. Streetscape Enhancements																														
Task 3 SUBTOTAL - Bridge and Streetscape Concept Development		20	22			20	8	38	44	18	32	28	22														36			
		\$ -	\$ 4,900	\$ 3,190	\$ -	\$ 2,500	\$ 1,680	\$ 5,890	\$ 6,380	\$ 2,250	\$ 7,200	\$ 5,180	\$ 2,640	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,500			
Task 4. Design and Preparation of Construction Documents																														
A. Survey																														
1. Utility Designating (See UMS Phase 1 Backup)*			1	6		18																					25			
2. Potholing (See UMS Phase 2 Backup)*			1	6		14																					21			
B. Right-of-Way																														
1. Acquisition of three (3) TCE's																														
2. Locate Right-of-Way lines and prepare 3 legal descriptions																											22			
C. Geotechnical																														
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures			1	2		6																					12			
2. One (1) Kick-off and Two (2) Design Coordination Meetings with City																														
3. Construction Documents including Soil Boring Logs and Construction Specifications Support				4		4																					8			
D. Environmental Research																														
1. Existing Conditions																														
2. Evaluate Potential Impacts and Develop Mitigation				3		6																					8			
3. USACE 404 Permit			2			6	10	10	10	8																	23			
a. SHPO Section 106			2																								10			
b. CCD Landmark Preservation (included in SHPO hours)																														
c. Denver Parks and Parkways (included in SHPO hours)																														
d. Endangered Species and Migratory Birds																											6			
e. Waters of the US and Wetlands			2																								8			
f. Hazardous Materials - Coordinate with DDPHE on Phase 1 ESA (with testing expense)																											50			
g. Parks/Section 603 Resources - Cherry Creek Trail			2																								7			
4. Obtain Permits and Clearances			3					10																			29			
5. Incorporate Environmental Requirements into Bid Docs			1	1																							10			
6. Environmental Documentation			1	1																							36			
E. Hydraulic Analysis, Drainage and Permitting																														
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFD FHAD model			2				10	36	36																		84			
2. LOMR, CLOMR as needed			1				10	30	30																		71			
3. Coordinate with USACE Dam Operations for annual flush activities			1					2																			3			
4. Scour Analysis for 100-yr and 500-yr			1					30	30																		61			
5. Hydrology for surface drainage									30	30																	60			
6. Surface Drainage System Design			1	6		6	2	18	30	28																	91			
7. Develop 30%, 90% and Bid documents including drainage reports				6		6		28	30	28																	98			
8. Obtain SUDP Permit for Floodplain Use			1					2	4	4																	11			
9. Meetings (3 total) with CCD, MHFD and coordinate with CCD Floodplain Administrator			2					8																			10			
10. Permitting - Support 404, CASDP, MHFD Approvals, USACE Coordination			2					6	8																		16			
F. Bridge Design																														
1. Structure Selection Report			1							20	4	8															69			
2. Structural Design, Analysis and Detailing of Bridge and Walls										50	36	165															251			
3. Coordinate and Integrate Aesthetic Enhancements										8		12															36			
4. Independent Design Checks											54																54			
5. Develop 30%, 90% and Bid documents including cost estimates			4	8		8				100	70	100															482			
6. Provide LRFD Bridge Rating											4	8															12			
7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews			8	4						21																	33			
G. Civil and Landscape Design																														
1. Streetscape and Landscape design documents				4		10																					14			
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)			1	4		8																					13			
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical			2	4		16																					22			
4. Determine Impacts to ROW, Utilities and Environmental			2	4		10																					16			
5. Develop Intersection Plans (3 intersections)			3	18		18																					39			
6. Develop Removal Plans			1	4		24																					29			
7. Develop 30%, 90% and Bid documents including cross sections, landscape restoration, and front end plan and tab sheets			18	48		80																					146			
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals			2	12		6																					40			

# Exhibit B

## Estimated Work Hours

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 9 month active project duration.

Red Titled Positions need to be added to our rate sheet →

Wilson																								Total Hours	Expenses	Total Task Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
Principal I	Senior Project Manager	Roadway Task Manager	Roadway Engineer	Junior Roadway Engineer	Hydraulics/Drainage Task Manager	Senior Hydraulics/Drainage Engineer	Hydraulics/Drainage Engineer	Junior Hydraulics/Drainage Engineer	Senior Structure Engineer	Structural Engineer	Junior Structural Engineer	Environmental Task Manager	Environmental Specialist	Biologist	Hydro Specialist	Survey & ROW Lead	Surveyor Task Manager	Party Chief	Instrument Man	Senior CADD Tech	CADD Tech	Graphics Designer	Admin I			
\$ 290	\$ 245	\$ 145	\$ 140	\$ 125	\$ 210	\$ 155	\$ 145	\$ 125	\$ 225	\$ 185	\$ 120	\$ 195	\$ 210	\$ 145	\$ 135	\$ 175	\$ 165	\$ 95	\$ 75	\$ 125	\$ 110	\$ 140	\$ 110			

### TASK DESCRIPTION

<b>H. Utility Investigation and Coordination</b>																										
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping																										
2. Meet with Utilities to discuss project impacts, relocations, mitigations																										
3. Obtain Easements, license agreements and relocation agreements from Utility Companies																										
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations																										
5. Meet with Utility Owners after 90% and conduct comment resolution meetings																										
6. Develop 30%, 90% and Bid documents including Utility Specification																										
7. Obtain Utility Clearance Letters from affected Utilities																										
8. Complete XCEL Energy work order request form and coordinate pole relocations.																										
9. Obtain estimates of probable cost for relocations that are project costs																										
<b>I. Erosion Control Design</b>																										
1. Develop 30%, 90% and Bid documents including Tabs																										
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's																										
3. Prepare the CASDP and supporting plans pending CCD approval																										
<b>J. Public Outreach and Information</b>																										
1. Prepare a public communication Contact List																										
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts																										
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house																										
4. Develop graphics, handouts and other media for stakeholder meeting and open house																										
5. Document comments received at stakeholder and open house meetings																										
<b>K. Construction Detours</b>																										
1. Develop Const Phasing and Traffic Control Plans and Specs defining requirements for access maintenance. Coord with																										
2. Develop a schedule of CTC Items based on required traffic control and construction phasing																										
<b>L. Construction Services</b>																										
1. Review Submittals (6 assumed)																										
2. Respond to RFIs (8 assumed)																										
3. Attend pre-construction and construction kick-off migs and one additional construction meeting																										
4. Prepare as-built plans from Contractor and CCD redlines																										
5. Cost Estimates (detailed in other disciplines above)																										
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>																										
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>																										
																									\$ 2,000.00	\$ 420,785.00

<b>Task 5. Water Quality/Green Infrastructure Analysis and Design</b>																										
<b>A. Water Quality Features</b>																										
1. Alternatives Analysis based on MHFD and CCD Ultra Urban Green Infrastructure Guidelines																										
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution																										
3. Develop 30%, 90% and Bid documents including Tabs																										
4. Incorporate Water Quality design information into Drainage Report																										
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's																										
6. Prepare the CASDP and supporting plans pending CCD approval (included with Erosion Control Design)																										
7. Attend two (2) meetings with CCD																										
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>																										
																									\$ 32,900.00	

<b>Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)</b>																										
<b>A. Survey - 100 feet up each leg</b>																										
B. Conceptual Intersections Design with Signal Layout																										
C. Prepare preliminary (30%) design and SUE																										
1. Utility Designating (See UMS Phase 1 Backup)																										
2. Potholing (See UMS Phase 2 Backup)*																										
D. Prepare final (90%) Plans, specs and cost estimate																										
E. Prepare Final Construction (100%) PS&E																										
F. Prepare Final AD (Bid) PS&E																										
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>																										
																									\$ 23,860.00	

<b>Total Hours</b>	6	314	306	434	67	334	332	318	265	196	321	41	90	48	74	2	38	192	62	344	32	24	3840			
<b>Labor Rate/hr</b>	\$ 290	\$ 245	\$ 145	\$ 140	\$ 125	\$ 210	\$ 155	\$ 145	\$ 125	\$ 225	\$ 185	\$ 120	\$ 195	\$ 210	\$ 145	\$ 135	\$ 175	\$ 165	\$ 95	\$ 75	\$ 125	\$ 110	\$ 140	\$ 110		
<b>Labor Cost</b>	\$ 1,740	\$ 76,930	\$ 44,370	\$ 60,960	\$ 8,375	\$ 70,170	\$ 51,450	\$ 46,110	\$ 39,750	\$ 43,875	\$ 58,260	\$ 4,920	\$ 58,500	\$ 100,800	\$ 107,100	\$ 350	\$ 6,270	\$ 18,240	\$ 4,650	\$ 43,000	\$ 4,480	\$ 2,640	\$ 588,900			
<b>Expenses</b>		\$ 1,500															\$ 2,000							\$ 3,500		
<b>Total Project Cost</b>																								\$ 592,400		

## Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

traffic counts deleted

### Estimated Work Hours

All Traffic Data			Total Hours	Total Task Cost
1	2	3		
Project Manager 1	Data Processor	Technician		
\$ 75.00	\$ 62.50	\$ 50.00		

### TASK DESCRIPTION

<b>Task 1. Project Management and Coordination</b>				
<b>A. Project Planning and Monitoring</b>				
1. Project Execution Plan				
2. Project Schedule				
<b>B. General Project Management</b>				
1. Weekly project management - 10 hour/week for 52 weeks				
2. Invoicing and Status Reports				
<b>C. Meetings</b>				
1. City Coordination - Combined with Design Team Meetings				
2. PMT - Monthly (14 total with Key Staff)				
3. Design Team Coordination - Bi-Weekly (24 total)				
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>				
	\$ -	\$ -	\$ -	\$ -
<b>Task 2. Traffic Study</b>				
<b>A. Traffic Data Collection</b>				
1. Use City Traffic Records for Larimer to Develop ESAL's				
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections				
3. Obtain Current Signal Timing				
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>				
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm</b>				
<b>Task 2 SUBTOTAL - Traffic Study</b>				
	\$ -	\$ -	\$ -	\$ -
<b>Task 3. Bridge and Streetscape Concept Development</b>				
<b>A. Stakeholder Involvement</b>				
1. Stakeholder Meetings				
<b>B. Design Parameter Development</b>				
<b>C. Concept Alternatives - Three (3) Total</b>				
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>				
1. Bridge Design - Layout and Elevation				
2. Preliminary Cherry Creek Channel Modeling for Freeboard				
3. Streetscape Enhancements				
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>				
	\$ -	\$ -	\$ -	\$ -
<b>Task 4. Design and Preparation of Construction Documents</b>				
<b>A. Survey</b>				
<b>B. Right-of-Way</b>				
<b>C. Geotechnical</b>				
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures				
2. One (1) Kick-off and Two (2) Design Cordination Meetings with City				
3. Construction Documents including Soil Boring Logs and Construction Specifications Support				
<b>D. Environmental Research</b>				
1. Existing Conditions				
2. Evaluate Potential Impacts and Develop Mitigation				
3. USACE 404 Permit				
a. SHPO Section 106				
b. CCD Landmark Preservation				
c. Denver Parks and Parkways				
d. Endangered Species and Migratory Birds				
e. Waters of the US and Wetlands				
f. Hazardous Materials - Coordinate with DDPHE on Phase I ESA				
g. Parks/Section 6(f) Resources - Cherry Creek Trail				
4. Obtain Permits and Clearances				
5. Incorporate Environmental Requirements into Bid Docs				
6. Environmental Documentation				
<b>E. Hydraulic Analysis, Drainage and Permitting</b>				
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model				
2. CLOMR/LOMR Analyses as needed				
3. Coordinate with USACE Dam Operations for annual flush activities				
4. Scour Analysis for 100-yr and 500-yr				
5. Hydology for surface drainage				
6. Surface Drainage System Design				
7. Develop 30%, 90% and Bid documents including drainage reports				
8. Obtain SUDP Permit for Floodplain Use				
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator				
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination				
<b>F. Bridge Design</b>				
1. Structure Selection Report				
2. Structural Design, Analysis and Detailing of Bridge and Walls				
3. Coordinate and Integrate Aesthetic Enhancements				
4. Independent Design Checks				
5. Develop 30%, 90% and Bid documents including cost estimates				
6. Provide LRFD Bridge Rating				

## Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

traffic counts deleted

### Estimated Work Hours

All Traffic Data			Total Hours	Total Task Cost
1	2	3		
Project Manager 1	Data Processor	Technician		
\$ 75.00	\$ 62.50	\$ 50.00		

### TASK DESCRIPTION

7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews				
<b>G. Civil and Landscape Design</b>				
1. Streetscape and Landscape design documents				
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)				
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical				
4. Determine Impacts to ROW, Utilities and Environmental				
5. Develop Intersection Plans (3 intersections)				
6. Develop Removal Plans				
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration				
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals				
<b>H. Utility Investigation and Coordination</b>				
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping				
2. Meet with Utilities to discuss project impacts, relocations, mitigations				
3. Obtain Easements, license agreements and relocation agreements from Utility Companies				
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations				
5. Meet with Utility Owners after 90% and conduct comment resolution meetings				
6. Develop 30%, 90% and Bid documents including Utility Specification				
7. Obtain Utility Clearance Letters from affected Utilities				
8. Complete XCEL Energy work order request form and coordinate pole relocations.				
9. Obtain estimates of probable cost for relocations that are project costs				
<b>I. Erosion Control Design</b>				
1. Develop 30%, 90% and Bid documents including Tabs				
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's				
3. Prepare the CASDP and supporting plans pending CCD approval				
<b>J. Public Outreach and Information</b>				
1. Prepare a public communication Contact List				
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts				
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house				
4. Develop graphics, handouts and other media for stakeholder meeting and open house				
5. Document comments received at stakeholder and open house meetings				
<b>K. Construction Detours</b>				
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks				
2. Develop a schedule of CTC Items based on required traffic control and construction phasing				
<b>L. Construction Services</b>				
1. Review Submittals (6 assumed)				
2. Respond to RFI's (8 assumed)				
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting				
4. Prepare as-built plans from Contractor and CCD redlines				
<b>M. Cost Estimates (detailed in other disciplines above)</b>				
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>				
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>	\$ -	\$ -	\$ -	\$ -

<b>Task 5. Water Quality/Green Infrastructure Analysis and Design</b>				
<b>A. Water Quality Features</b>				
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines				
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution				
3. Develop 30%, 90% and Bid documents including Tabs				
4. Incorporate Water Quality design information into Drainage Report				
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's				
6. Prepare the CASDP and supporting plans pending CCD approval				
7. Attend two (2) meetings with CCD				
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>	\$ -	\$ -	\$ -	\$ -

<b>Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)</b>				
<b>A. Survey - 100 feet up each leg</b>				
<b>B. Conceptual Intersections Design with Signal Layout</b>				
<b>C. Prepare preliminary (30%) design and SUE</b>				
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>				
<b>E. Prepare Final Construction (100%) PS&amp;E</b>				
<b>F. Prepare Final AD (Bid) PS&amp;E</b>				
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>	\$ -	\$ -	\$ -	\$ -

<b>Total Hours</b>			
<b>Labor Rate/hr</b>	\$ 75.00	\$ 62.50	\$ 50.00
<b>Labor Cost</b>	\$ -	\$ -	\$ -
<b>Expenses*</b>			\$ -
<b>Total Project Cost</b>			<b>\$ -</b>

## Exhibit B

### Estimated Work Hours

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

Extensive Public Outreach Deleted

CIG								Total Hours	Total Task Cost
1	5	6	7	8	9	10	13		
Principal	Counselor 1	Account Supervisor	Creative Art Director	Associate Creative Director	Associate 2	Graphic Designer	Specialist		
\$ 215	\$ 141	\$ 129	\$ 126	\$ 115	\$ 99	\$ 95	\$ 68		

### TASK DESCRIPTION

<b>Task 1. Project Management and Coordination</b>										
<b>A. Project Planning and Monitoring</b>										
1. Project Execution Plan										
2. Project Schedule										
<b>B. General Project Management</b>										
1. Weekly project management - 10 hour/week for 52 weeks										
2. Invoicing and Status Reports										
<b>C. Meetings</b>										
1. City Coordination - Combined with Design Team Meetings										
2. PMT - Monthly (14 total with Key Staff)										
3. Design Team Coordination - Bi-Weekly (24 total)										
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Task 2. Traffic Study</b>										
<b>A. Traffic Data Collection</b>										
1. Use City Traffic Records for Larimer to Develop ESAL's										
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections										
3. Obtain Current Signal Timing										
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>										
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm</b>										
<b>Task 2 SUBTOTAL - Traffic Study</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Task 3. Bridge and Streetscape Concept Development</b>										
<b>A. Stakeholder Involvement</b>										
1. Stakeholder Meetings										
<b>B. Design Parameter Development</b>										
<b>C. Concept Alternatives - Three (3) Total</b>										
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>										
1. Bridge Design - Layout and Elevation										
2. Preliminary Cherry Creek Channel Modeling for Freeboard										
3. Streetscape Enhancements										
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Task 4. Design and Preparation of Construction Documents</b>										
<b>A. Survey</b>										
<b>B. Right-of-Way</b>										
<b>C. Geotechnical</b>										
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures										
2. One (1) Kick-off and Two (2) Design Cordination Meetings with City										
3. Construction Documents including Soil Boring Logs and Construction Specifications Support										
<b>D. Environmental Research</b>										
1. Existing Conditions										
2. Evaluate Potential Impacts and Develop Mitigation										
3. USACE 404 Permit										
a. SHPO Section 106										
b. CCD Landmark Preservation										
c. Denver Parks and Parkways										
d. Endangered Species and Migratory Birds										
e. Waters of the US and Wetlands										
f. Hazardous Materials - Coordinate with DDPHE on Phase 1 ESA										
g. Parks/Section 6(f) Resources - Cherry Creek Trail										
4. Obtain Permits and Clearances										
5. Incorporate Environmental Requirements into Bid Docs										
6. Environmental Documentation										
<b>E. Hydraulic Analysis, Drainage and Permitting</b>										
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model										
2. CLOMR/LOMR Analyses as needed										
3. Coordinate with USACE Dam Operations for annual flush activities										
4. Scour Analysis for 100-yr and 500-yr										
5. Hydology for surface drainage										
6. Surface Drainage System Design										
7. Develop 30%, 90% and Bid documents including drainage reports										
8. Obtain SUDP Permit for Floodplain Use										
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator										
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination										
<b>F. Bridge Design</b>										
1. Structure Selection Report										
2. Structural Design, Analysis and Detailing of Bridge and Walls										
3. Coordinate and Integrate Aesthetic Enhancements										
4. Independent Design Checks										
5. Develop 30%, 90% and Bid documents including cost estimates										
6. Provide LRFD Bridge Rating										



# Exhibit B

## Estimated Work Hours

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

Extensive Public Outreach Deleted

CIG								Total Hours	Total Task Cost
1	5	6	7	8	9	10	13		
Principal	Counselor 1	Account Supervisor	Creative Art Director	Associate Creative Director	Associate 2	Graphic Designer	Specialist		
\$ 215	\$ 141	\$ 129	\$ 126	\$ 115	\$ 99	\$ 95	\$ 68		

### TASK DESCRIPTION

7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews											
<b>G. Civil and Landscape Design</b>											
1. Streetscape and Landscape design documents											
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)											
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical											
4. Determine Impacts to ROW, Utilities and Environmental											
5. Develop Intersection Plans (3 intersections)											
6. Develop Removal Plans											
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration											
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals											
<b>H. Utility Investigation and Coordination</b>											
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping											
2. Meet with Utilities to discuss project impacts, relocations, mitigations											
3. Obtain Easements, license agreements and relocation agreements from Utility Companies											
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations											
5. Meet with Utility Owners after 90% and conduct comment resolution meetings											
6. Develop 30%, 90% and Bid documents including Utility Specification											
7. Obtain Utility Clearance Letters from affected Utilities											
8. Complete XCEL Energy work order request form and coordinate pole relocations.											
9. Obtain estimates of probable cost for relocations that are project costs											
<b>I. Erosion Control Design</b>											
1. Develop 30%, 90% and Bid documents including Tabs											
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's											
3. Prepare the CASDP and supporting plans pending CCD approval											
<b>J. Public Outreach and Information</b>											
1. Prepare a public communication Contact List											\$ -
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts											\$ -
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house											\$ -
4. Develop graphics, handouts and other media for stakeholder meeting and open house											\$ -
5. Document comments received at stakeholder and open house meetings											\$ -
<b>K. Construction Detours</b>											
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks											
2. Develop a schedule of CTC Items based on required traffic control and construction phasing											
<b>L. Construction Services</b>											
1. Review Submittals (6 assumed)											
2. Respond to RFT's (8 assumed)											
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting											
4. Prepare as-built plans from Contractor and CCD redlines											
<b>M. Cost Estimates (detailed in other disciplines above)</b>											
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>											\$ -
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>											\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Task 5. Water Quality/Green Infrastructure Analysis and Design											
<b>A. Water Quality Features</b>											
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines											
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution											
3. Develop 30%, 90% and Bid documents including Tabs											
4. Incorporate Water Quality design information into Drainage Report											
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's											
6. Prepare the CASDP and supporting plans pending CCD approval											
7. Attend two (2) meetings with CCD											
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>											\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)											
<b>A. Survey - 100 feet up each leg</b>											
<b>B. Conceptual Intersections Design with Signal Layout</b>											
<b>C. Prepare preliminary (30%) design and SUE</b>											
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>											
<b>E. Prepare Final Construction (100%) PS&amp;E</b>											
<b>F. Prepare Final AD (Bid) PS&amp;E</b>											
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>											\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

<b>Total Hours</b>											
<b>Labor Rate/hr</b>	\$ 215	\$ 141	\$ 129	\$ 126	\$ 115	\$ 99	\$ 95	\$ 68			
<b>Labor Cost</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Expenses*</b>											\$ -
<b>Total Project Cost</b>											\$ -

# Exhibit B

## Estimated Work Hours

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

Fox Tuttle				Total Hours	Total Task Cost
1	2	3	4		
Principal II	Principal I	Sr. Transportation Engineer	Transportation Engineer II		
\$ 210	\$ 200	\$ 170	\$ 155		

### TASK DESCRIPTION

Task Description	Principal II	Principal I	Sr. Transportation Engineer	Transportation Engineer II	Total Hours	Total Task Cost
<b>Task 1. Project Management and Coordination</b>						
<b>A. Project Planning and Monitoring</b>						
1. Project Execution Plan						
2. Project Schedule						
<b>B. General Project Management</b>						
1. Weekly project management		12			12	\$ 2,400.00
2. Invoicing and Status Reports						
<b>C. Meetings</b>						
1. City Coordination - Combined with Design Team Meetings						
2. PMT - Monthly (10 total with Key Staff)						
3. Design Team Coordination - Bi-Weekly (18 total)		4	8		12	\$ 2,160.00
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>		<b>16</b>	<b>8</b>		<b>24</b>	<b>\$ 4,560.00</b>
	\$ -	\$ 3,200	\$ 1,360	\$ -		\$ -
<b>Task 2. Traffic Study</b>						
<b>A. Traffic Data Collection</b>						
1. Use City Traffic Records for Larimer to Develop ESAL's		Deleted				\$ -
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections		Deleted				\$ -
3. Obtain Current Signal Timing		1			1	\$ 200.00
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>		1			5	\$ 820.00
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm (no VISSIM)</b>		36	12	18	66	\$ 12,030.00
<b>Task 2 SUBTOTAL - Traffic Study</b>		<b>38</b>	<b>12</b>	<b>22</b>	<b>72</b>	<b>\$ 13,050.00</b>
	\$ -	\$ 7,600	\$ 2,040	\$ 3,410		\$ -
<b>Task 3. Bridge and Streetscape Concept Development</b>						
<b>A. Stakeholder Involvement</b>						
1. Stakeholder Meetings			20		20	\$ 3,400.00
<b>B. Design Parameter Development</b>						
<b>C. Concept Alternative</b>	2	8			10	\$ 2,020.00
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>						
1. Bridge Design - Layout and Elevation						
2. Preliminary Cherry Creek Channel Modeling for Freeboard						
3. Streetscape Enhancements						
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>	<b>2</b>	<b>8</b>	<b>20</b>		<b>30</b>	<b>\$ 5,420.00</b>
	\$ 420	\$ 1,600	\$ 3,400	\$ -		\$ -
<b>Task 4. Design and Preparation of Construction Documents</b>						
<b>A. Survey</b>						
<b>B. Right-of-Way</b>						
<b>C. Geotechnical</b>						
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures						
2. One (1) Kick-off and Two (2) Design Coordination Meetings with City						
3. Construction Documents including Soil Boring Logs and Construction Specifications Support						
<b>D. Environmental Research</b>						
1. Existing Conditions						
2. Evaluate Potential Impacts and Develop Mitigation						
3. USACE 404 Permit						
a. SHPO Section 106						
b. CCD Landmark Preservation						
c. Denver Parks and Parkways						
d. Endangered Species and Migratory Birds						
e. Waters of the US and Wetlands						
f. Hazardous Materials - Coordinate with DDPHE on Phase I ESA						
g. Parks/Section 6(f) Resources - Cherry Creek Trail						
4. Obtain Permits and Clearances						
5. Incorporate Environmental Requirements into Bid Docs						
6. Environmental Documentation						
<b>E. Hydraulic Analysis, Drainage and Permitting</b>						
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model						
2. CLOMR/LOMR Analyses as needed						
3. Coordinate with USACE Dam Operations for annual flush activities						
4. Scour Analysis for 100-yr and 500-yr						
5. Hydology for surface drainage						
6. Surface Drainage System Design						
7. Develop 30%, 90% and Bid documents including drainage reports						
8. Obtain SUDP Permit for Floodplain Use						
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator						
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination						
<b>F. Bridge Design</b>						
1. Structure Selection Report						
2. Structural Design, Analysis and Detailing of Bridge and Walls						
3. Coordinate and Integrate Aesthetic Enhancements						
4. Independent Design Checks						
5. Develop 30%, 90% and Bid documents including cost estimates						
6. Provide LRFD Bridge Rating						

# Exhibit B

## Estimated Work Hours

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

Fox Tuttle				Total Hours	Total Task Cost
1	2	3	4		
Principal II	Principal I	Sr. Transportation Engineer	Transportation Engineer II		
\$ 210	\$ 200	\$ 170	\$ 155		

### TASK DESCRIPTION

7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews						
<b>G. Civil and Landscape Design</b>						
1. Streetscape and Landscape design documents						
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)						
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical		12	28		40	\$ 7,160.00
4. Determine Impacts to ROW, Utilities and Environmental						\$ -
5. Develop Intersection Plans (3 intersections)		20	12		32	\$ 6,040.00
6. Develop Removal Plans						\$ -
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration		10	20	10	40	\$ 6,950.00
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals				8	8	\$ 1,240.00
<b>H. Utility Investigation and Coordination</b>						
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping						
2. Meet with Utilities to discuss project impacts, relocations, mitigations						
3. Obtain Easements, license agreements and relocation agreements from Utility Companies						
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations						
5. Meet with Utility Owners after 90% and conduct comment resolution meetings						
6. Develop 30%, 90% and Bid documents including Utility Specification						
7. Obtain Utility Clearance Letters from affected Utilities						
8. Complete XCEL Energy work order request form and coordinate pole relocations.						
9. Obtain estimates of probable cost for relocations that are project costs						
<b>I. Erosion Control Design</b>						
1. Develop 30%, 90% and Bid documents including Tabs						
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's						
3. Prepare the CASDP and supporting plans pending CCD approval						
<b>J. Public Outreach and Information</b>						
1. Prepare a public communication Contact List						
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts						
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house						
4. Develop graphics, handouts and other media for stakeholder meeting and open house						\$ -
5. Document comments received at stakeholder and open house meetings						
<b>K. Construction Detours</b>						
1. Develop Const Phasing and Traffic Control Plans and Specs defining requirements for access maintenance. Coord with CCD Parks		16	20		36	\$ 6,600.00
2. Develop a schedule of CTC Items based on required traffic control and construction phasing						
<b>L. Construction Services</b>						
1. Review Submittals (6 assumed)						
2. Respond to RFT's (8 assumed)		6			6	\$ 1,200.00
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting						
4. Prepare as-built plans from Contractor and CCD redlines						
<b>M. Cost Estimates (detailed in other disciplines above)</b>						
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>						
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>		64	80	18	162	\$ 29,190.00
	\$ -	\$ 12,800	\$ 13,600	\$ 2,790		

### Task 5. Water Quality/Green Infrastructure Analysis and Design

<b>A. Water Quality Features</b>						
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines						
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution						
3. Develop 30%, 90% and Bid documents including Tabs						
4. Incorporate Water Quality design information into Drainage Report						
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's						
6. Prepare the CASDP and supporting plans pending CCD approval						
7. Attend two (2) meetings with CCD						
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>	\$ -	\$ -	\$ -	\$ -		\$ -

### Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)

<b>A. Survey - 100 feet up each leg</b>						
<b>B. Conceptual Intersections Design with Signal Layout</b>		8	12		20	\$ 3,640.00
<b>C. Prepare preliminary (30%) design and SUE</b>			4		4	\$ 680.00
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>						
<b>E. Prepare Final Construction (100%) PS&amp;E</b>						
<b>F. Prepare Final AD (Bid) PS&amp;E</b>						
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>	\$ -	\$ 1,600	\$ 2,720	\$ -		\$ 4,320.00

<b>Total Hours</b>	2	134	136	40	312	
<b>Labor Rate/hr</b>	\$ 210	\$ 200	\$ 170	\$ 155		
<b>Labor Cost</b>	\$ 420	\$ 26,800	\$ 23,120	\$ 6,200		\$ 56,540
<b>Expenses*</b>						\$ -
<b>Total Project Cost</b>						\$ 56,540

## Exhibit B

### Estimated Work Hours

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

ROW Acquisition Deleted

HC Peck							Total Hours	Total Task Cost
1	2	3	4	5	6	7		
Principal	Sr. Project Manager	Sr. ROW Agent	ROW Agent III	ROW Agent II	ROW Agent I	Title Staff		
\$ 162	\$ 138	\$ 116	\$ 105	\$ 92	\$ 82	\$ 132		

### TASK DESCRIPTION

Task 1. Project Management and Coordination									
A. Project Planning and Monitoring									
1. Project Execution Plan									
2. Project Schedule									
B. General Project Management									
1. Weekly project management - 10 hour/week for 52 weeks									
2. Invoicing and Status Reports									
C. Meetings									
1. City Coordination - Combined with Design Team Meetings									
2. PMT - Monthly (14 total with Key Staff)									
3. Design Team Coordination - Bi-Weekly (24 total)									
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Task 2. Traffic Study									
A. Traffic Data Collection									
1. Use City Traffic Records for Larimer to Develop ESAL's									
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections									
3. Obtain Current Signal Timing									
B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts									
C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm									
<b>Task 2 SUBTOTAL - Traffic Study</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Task 3. Bridge and Streetscape Concept Development									
A. Stakeholder Involvement									
1. Stakeholder Meetings									
B. Design Parameter Development									
C. Concept Alternatives - Three (3) Total									
D. Final Cross-Section & Streetscape Concept (10% Design)									
1. Bridge Design - Layout and Elevation									
2. Preliminary Cherry Creek Channel Modeling for Freeboard									
3. Streetscape Enhancements									
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Task 4. Design and Preparation of Construction Documents									
A. Survey									
B. Right-of-Way									
1. Acquisition of three (3) TCE's									
C. Geotechnical									
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures									
2. One (1) Kick-off and Two (2) Design Cordination Meetings with City									
3. Construction Documents including Soil Boring Logs and Construction Specifications Support									
D. Environmental Research									
1. Existing Conditions									
2. Evaluate Potential Impacts and Develop Mitigation									
3. USACE 404 Permit									
a. SHPO Section 106									
b. CCD Landmark Preservation									
c. Denver Parks and Parkways									
d. Endangered Species and Migratory Birds									
e. Waters of the US and Wetlands									
f. Hazardous Materials - Coordinate with DDPHE on Phase 1 ESA									
g. Parks/Section 6(f) Resources - Cherry Creek Trail									
4. Obtain Permits and Clearances									
5. Incorporate Environmental Requirements into Bid Docs									
6. Environmental Documentation									
E. Hydraulic Analysis, Drainage and Permitting									
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model									
2. CLOMR/LOMR Analyses as needed									
3. Coordinate with USACE Dam Operations for annual flush activities									
4. Scour Analysis for 100-yr and 500-yr									
5. Hydology for surface drainage									
6. Surface Drainage System Design									
7. Develop 30%, 90% and Bid documents including drainage reports									
8. Obtain SUDP Permit for Floodplain Use									
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator									
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination									
F. Bridge Design									
1. Structure Selection Report									
2. Structural Design, Analysis and Detailing of Bridge and Walls									
3. Coordinate and Integrate Aesthetic Enhancements									
4. Independent Design Checks									
5. Develop 30%, 90% and Bid documents including cost estimates									
6. Provide LRFD Bridge Rating									

## Exhibit B

### Estimated Work Hours

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

ROW Acquisition Deleted

HC Peck							Total Hours	Total Task Cost
1	2	3	4	5	6	7		
Principal	Sr. Project Manager	Sr. ROW Agent	ROW Agent III	ROW Agent II	ROW Agent I	Title Staff		
\$ 162	\$ 138	\$ 116	\$ 105	\$ 92	\$ 82	\$ 132		

### TASK DESCRIPTION

<b>7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews</b>								
<b>G. Civil and Landscape Design</b>								
1. Streetscape and Landscape design documents								
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)								
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical								
4. Determine Impacts to ROW, Utilities and Environmental								
5. Develop Intersection Plans (3 intersections)								
6. Develop Removal Plans								
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration								
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals								
<b>H. Utility Investigation and Coordination</b>								
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping								
2. Meet with Utilities to discuss project impacts, relocations, mitigations								
3. Obtain Easements, license agreements and relocation agreements from Utility Companies								
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations								
5. Meet with Utility Owners after 90% and conduct comment resolution meetings								
6. Develop 30%, 90% and Bid documents including Utility Specification								
7. Obtain Utility Clearance Letters from affected Utilities								
8. Complete XCEL Energy work order request form and coordinate pole relocations.								
9. Obtain estimates of probable cost for relocations that are project costs								
<b>I. Erosion Control Design</b>								
1. Develop 30%, 90% and Bid documents including Tabs								
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's								
3. Prepare the CASDP and supporting plans pending CCD approval								
<b>J. Public Outreach and Information</b>								
1. Prepare a public communication Contact List								
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts								
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house								
4. Develop graphics, handouts and other media for stakeholder meeting and open house								
5. Document comments received at stakeholder and open house meetings								
<b>K. Construction Detours</b>								
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks								
2. Develop a schedule of CTC Items based on required traffic control and construction phasing								
<b>L. Construction Services</b>								
1. Review Submittals (6 assumed)								
2. Respond to RFI's (8 assumed)								
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting								
4. Prepare as-built plans from Contractor and CCD redlines								
<b>M. Cost Estimates (detailed in other disciplines above)</b>								
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>								
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>								
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

<b>Task 5. Water Quality/Green Infrastructure Analysis and Design</b>								
<b>A. Water Quality Features</b>								
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines								
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution								
3. Develop 30%, 90% and Bid documents including Tabs								
4. Incorporate Water Quality design information into Drainage Report								
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's								
6. Prepare the CASDP and supporting plans pending CCD approval								
7. Attend two (2) meetings with CCD								
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>								
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

<b>Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)</b>								
<b>A. Survey - 100 feet up each leg</b>								
B. Conceptual Intersections Design with Signal Layout								
C. Prepare preliminary (30%) design and SUE								
D. Prepare final (90%) Plans, specs and cost estimate								
E. Prepare Final Construction (100%) PS&E								
F. Prepare Final AD (Bid) PS&E								
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>								
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

<b>Total Hours</b>								
<b>Labor Rate/hr</b>	\$ 162	\$ 138	\$ 116	\$ 105	\$ 92	\$ 82	\$ 132	
<b>Labor Cost</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Expenses*</b>								\$ -
<b>Total Project Cost</b>								\$ -

## Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

Landscape/Streetscape Deleted

### Estimated Work Hours

Livable Cities Studio						Total Hours	Total Task Cost
1	2	3	4	5	6		
Principal 2	Principal 3	Project Designer 1	Project Designer 3	Project Designer 4	Project Designer 5		
\$ 175	\$ 150	\$ 130	\$ 100	\$ 90	\$ 75		

### TASK DESCRIPTION

TASK DESCRIPTION	1	2	3	4	5	6	Total Hours	Total Task Cost
<b>Task 1. Project Management and Coordination</b>								
<b>A. Project Planning and Monitoring</b>								
1. Project Execution Plan								
2. Project Schedule								
<b>B. General Project Management</b>								
1. Weekly project management - 10 hour/week for 52 weeks								\$ -
2. Invoicing and Status Reports								
<b>C. Meetings</b>								
1. City Coordination - Combined with Design Team Meetings								
2. PMT - Monthly (14 total with Key Staff)								\$ -
3. Design Team Coordination - Bi-Weekly (24 total)								\$ -
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>								\$ -
<b>Task 2. Traffic Study</b>								
<b>A. Traffic Data Collection</b>								
1. Use City Traffic Records for Larimer to Develop ESAL's								
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections								
3. Obtain Current Signal Timing								
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>								
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm</b>								
<b>Task 2 SUBTOTAL - Traffic Study</b>								\$ -
<b>Task 3. Bridge and Streetscape Concept Development</b>								
<b>A. Stakeholder Involvement</b>								
1. Stakeholder Meetings	32						32	\$ 5,600.00
<b>B. Design Parameter Development</b>								\$ -
<b>C. Concept Alternatives - Three (3) Total</b>								\$ -
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>								
1. Bridge Design - Layout and Elevation								
2. Preliminary Cherry Creek Channel Modeling for Freeboard								
3. Streetscape Enhancements								\$ -
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>	32						32	\$ 5,600.00
<b>Task 4. Design and Preparation of Construction Documents</b>								
<b>A. Survey</b>								
<b>B. Right-of-Way</b>								
<b>C. Geotechnical</b>								
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures								
2. One (1) Kick-off and Two (2) Design Cordination Meetings with City								
3. Construction Documents including Soil Boring Logs and Construction Specifications Support								
<b>D. Environmental Research</b>								
1. Existing Conditions								
2. Evaluate Potential Impacts and Develop Mitigation								
3. USACE 404 Permit								
a. SHPO Section 106								
b. CCD Landmark Preservation								
c. Denver Parks and Parkways								
d. Endangered Species and Migratory Birds								
e. Waters of the US and Wetlands								
f. Hazardous Materials - Coordinate with DDPHE on Phase 1 ESA								
g. Parks/Section 6(f) Resources - Cherry Creek Trail								
4. Obtain Permits and Clearances								
5. Incorporate Environmental Requirements into Bid Docs								
6. Environmental Documentation								
<b>E. Hydraulic Analysis, Drainage and Permitting</b>								
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model								
2. CLOMR/LOMR Analyses as needed								
3. Coordinate with USACE Dam Operations for annual flush activities								
4. Scour Analysis for 100-yr and 500-yr								
5. Hydology for surface drainage								
6. Surface Drainage System Design								
7. Develop 30%, 90% and Bid documents including drainage reports								
8. Obtain SUDP Permit for Floodplain Use								
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator								
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination								
<b>F. Bridge Design</b>								
1. Structure Selection Report								
2. Structural Design, Analysis and Detailing of Bridge and Walls								
3. Coordinate and Integrate Aesthetic Enhancements								
4. Independent Design Checks								
5. Develop 30%, 90% and Bid documents including cost estimates								
6. Provide LRFD Bridge Rating								

# Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

Landscape/Sreetscape Deleted

## Estimated Work Hours

Livable Cities Studio						Total Hours	Total Task Cost
1	2	3	4	5	6		
Principal 2	Principal 3	Project Designer 1	Project Designer 3	Project Designer 4	Project Designer 5		
\$ 175	\$ 150	\$ 130	\$ 100	\$ 90	\$ 75		

### TASK DESCRIPTION

7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews								
<b>G. Civil and Landscape Design</b>								
1. Streetscape and Landscape design documents								\$ -
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)								\$ -
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical								\$ -
4. Determine Impacts to ROW, Utilities and Environmental								\$ -
5. Develop Intersection Plans (3 intersections)								\$ -
6. Develop Removal Plans								\$ -
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration								\$ -
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals								\$ -
<b>H. Utility Investigation and Coordination</b>								
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping								
2. Meet with Utilities to discuss project impacts, relocations, mitigations								
3. Obtain Easements, license agreements and relocation agreements from Utility Companies								
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations								
5. Meet with Utility Owners after 90% and conduct comment resolution meetings								
6. Develop 30%, 90% and Bid documents including Utility Specification								
7. Obtain Utility Clearance Letters from affected Utilities								
8. Complete XCEL Energy work order request form and coordinate pole relocations.								
9. Obtain estimates of probable cost for relocations that are project costs								
<b>I. Erosion Control Design</b>								
1. Develop 30%, 90% and Bid documents including Tabs								
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's								
3. Prepare the CASDP and supporting plans pending CCD approval								
<b>J. Public Outreach and Information</b>								
1. Prepare a public communication Contact List								
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts								\$ -
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house								\$ -
4. Develop graphics, handouts and other media for stakeholder meeting and open house								
5. Document comments received at stakeholder and open house meetings								
<b>K. Construction Detours</b>								
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks								
2. Develop a schedule of CTC Items based on required traffic control and construction phasing								
<b>L. Construction Services</b>								
1. Review Submittals (6 assumed)								\$ -
2. Respond to RFT's (8 assumed)								\$ -
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting								\$ -
4. Prepare as-built plans from Contractor and CCD redlines								
<b>M. Cost Estimates (detailed in other disciplines above)</b>								
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>								\$ -
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -

Task 5. Water Quality/Green Infrastructure Analysis and Design							
<b>A. Water Quality Features</b>							
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines	12		20		24		56
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution	8		16		24		48
3. Develop 30%, 90% and Bid documents including Tabs							
4. Incorporate Water Quality design information into Drainage Report							
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's							
6. Prepare the CASDP and supporting plans pending CCD approval							
7. Attend two (2) meetings with CCD			4				4
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>	20		40		48		108
	\$ 3,500	\$ -	\$ 5,200	\$ -	\$ 4,320	\$ -	\$ 13,020.00

Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)							
<b>A. Survey - 100 feet up each leg</b>							
<b>B. Conceptual Intersections Design with Signal Layout</b>							
<b>C. Prepare preliminary (30%) design and SUE</b>							
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>							
<b>E. Prepare Final Construction (100%) PS&amp;E</b>							
<b>F. Prepare Final AD (Bid) PS&amp;E</b>							
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>							\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

<b>Total Hours</b>	52	40	48	140			
<b>Labor Rate/hr</b>	\$ 175	\$ 150	\$ 130	\$ 100	\$ 90	\$ 75	
<b>Labor Cost</b>	\$ 9,100	\$ -	\$ 5,200	\$ -	\$ 4,320	\$ -	\$ 18,620
<b>Expenses*</b>							\$ -
<b>Total Project Cost</b>							\$ 18,620

## Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

### Estimated Work Hours

Martinez					Total Hours	Total Task Cost
1	2	3	4	5		
Principal Professional	Senior Professional	Staff Professional	Senior Lab. Technician	Clerical		
\$ 151	\$ 131	\$ 80	\$ 65	\$ 39		

### TASK DESCRIPTION

TASK DESCRIPTION	1	2	3	4	5	Total Hours	Total Task Cost
<b>Task 1. Project Management and Coordination</b>							
<b>A. Project Planning and Monitoring</b>							
1. Project Execution Plan							
2. Project Schedule							
<b>B. General Project Management</b>							
1. Weekly project management - 10 hour/week for 52 weeks							
2. Invoicing and Status Reports							
<b>C. Meetings</b>							
1. City Coordination - Combined with Design Team Meetings							
2. PMT - Monthly (14 total with Key Staff)							
3. Design Team Coordination - Bi-Weekly (24 total)							
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -
<b>Task 2. Traffic Study</b>							
<b>A. Traffic Data Collection</b>							
1. Use City Traffic Records for Larimer to Develop ESAL's							
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections							
3. Obtain Current Signal Timing							
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>							
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm</b>							
<b>Task 2 SUBTOTAL - Traffic Study</b>	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -
<b>Task 3. Bridge and Streetscape Concept Development</b>							
<b>A. Stakeholder Involvement</b>							
1. Stakeholder Meetings							
<b>B. Design Parameter Development</b>							
<b>C. Concept Alternatives - Three (3) Total</b>							
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>							
1. Bridge Design - Layout and Elevation							
2. Preliminary Cherry Creek Channel Modeling for Freeboard							
3. Streetscape Enhancements							
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -
<b>Task 4. Design and Preparation of Construction Documents</b>							
<b>A. Survey</b>							
<b>B. Right-of-Way</b>							
<b>C. Geotechnical</b>							
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures	8	28	42	56	2	136	\$ 11,954.00
2. One (1) Kick-off and Two (2) Design Coordination Meetings with City	30	20				50	\$ 7,150.00
3. Construction Documents including Soil Boring Logs and Construction Specifications Support	2	8	4			14	\$ 1,670.00
<b>D. Environmental Research</b>							
1. Existing Conditions							
2. Evaluate Potential Impacts and Develop Mitigation							
3. USACE 404 Permit							
a. SHPO Section 106							
b. CCD Landmark Preservation							
c. Denver Parks and Parkways							
d. Endangered Species and Migratory Birds							
e. Waters of the US and Wetlands							
f. Hazardous Materials - Coordinate with DDPHE on Phase 1 ESA							
g. Parks/Section 6(f) Resources - Cherry Creek Trail							
4. Obtain Permits and Clearances							
5. Incorporate Environmental Requirements into Bid Docs							
6. Environmental Documentation							
<b>E. Hydraulic Analysis, Drainage and Permitting</b>							
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model							
2. CLOMR/LOMR Analyses as needed							
3. Coordinate with USACE Dam Operations for annual flush activities							
4. Scour Analysis for 100-yr and 500-yr							
5. Hydology for surface drainage							
6. Surface Drainage System Design							
7. Develop 30%, 90% and Bid documents including drainage reports							
8. Obtain SUDP Permit for Floodplain Use							
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator							
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination							
<b>F. Bridge Design</b>							
1. Structure Selection Report							
2. Structural Design, Analysis and Detailing of Bridge and Walls							
3. Coordinate and Integrate Aesthetic Enhancements							
4. Independent Design Checks							
5. Develop 30%, 90% and Bid documents including cost estimates							
6. Provide LRFD Bridge Rating							



## Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

### Estimated Work Hours

Martinez					Total Hours	Total Task Cost
1	2	3	4	5		
Principal Professional	Senior Professional	Staff Professional	Senior Lab. Technician	Clerical		
\$ 151	\$ 131	\$ 80	\$ 65	\$ 39		

### TASK DESCRIPTION

7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews									
<b>G. Civil and Landscape Design</b>									
1. Streetscape and Landscape design documents									
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)									
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical									
4. Determine Impacts to ROW, Utilities and Environmental									
5. Develop Intersection Plans (3 intersections)									
6. Develop Removal Plans									
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration									
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals									
<b>H. Utility Investigation and Coordination</b>									
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping									
2. Meet with Utilities to discuss project impacts, relocations, mitigations									
3. Obtain Easements, license agreements and relocation agreements from Utility Companies									
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations									
5. Meet with Utility Owners after 90% and conduct comment resolution meetings									
6. Develop 30%, 90% and Bid documents including Utility Specification									
7. Obtain Utility Clearance Letters from affected Utilities									
8. Complete XCEL Energy work order request form and coordinate pole relocations.									
9. Obtain estimates of probable cost for relocations that are project costs									
<b>I. Erosion Control Design</b>									
1. Develop 30%, 90% and Bid documents including Tabs									
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's									
3. Prepare the CASDP and supporting plans pending CCD approval									
<b>J. Public Outreach and Information</b>									
1. Prepare a public communication Contact List									
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts									
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house									
4. Develop graphics, handouts and other media for stakeholder meeting and open house									
5. Document comments received at stakeholder and open house meetings									
<b>K. Construction Detours</b>									
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks									
2. Develop a schedule of CTC Items based on required traffic control and construction phasing									
<b>L. Construction Services</b>									
1. Review Submittals (6 assumed)									
2. Respond to RFI's (8 assumed)									
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting									
4. Prepare as-built plans from Contractor and CCD redlines									
<b>M. Cost Estimates (detailed in other disciplines above)</b>									
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>									
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>	40	56	46	56	2	200			
	\$ 6,040	\$ 7,336	\$ 3,680	\$ 3,640	\$ 78		\$	20,774.00	

#### Task 5. Water Quality/Green Infrastructure Analysis and Design

<b>A. Water Quality Features</b>									
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines									
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution									
3. Develop 30%, 90% and Bid documents including Tabs									
4. Incorporate Water Quality design information into Drainage Report									
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's									
6. Prepare the CASDP and supporting plans pending CCD approval									
7. Attend two (2) meetings with CCD									
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>	\$ -	\$ -	\$ -	\$ -	\$ -		\$	-	

#### Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)

<b>A. Survey - 100 feet up each leg</b>									
<b>B. Conceptual Intersections Design with Signal Layout</b>									
<b>C. Prepare preliminary (30%) design and SUE</b>									
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>									
<b>E. Prepare Final Construction (100%) PS&amp;E</b>									
<b>F. Prepare Final AD (Bid) PS&amp;E</b>									
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>	\$ -	\$ -	\$ -	\$ -	\$ -		\$	-	

<b>Total Hours</b>	40	56	46	56	2	200	
<b>Labor Rate/hr</b>	\$ 151	\$ 131	\$ 80	\$ 65	\$ 39		
<b>Labor Cost</b>	\$ 6,040	\$ 7,336	\$ 3,680	\$ 3,640	\$ 78.00		\$ 20,774
<b>Expenses*</b>						\$ 6,300	\$ 6,300
<b>Total Project Cost</b>							<b>\$ 27,074</b>

# Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

### Estimated Work Hours

Mead & Hunt				Total Hours	Total Task Cost
1	2	3	4		
Senior Historian	Historian	GIS Technician	Tech Editor/Admin I		
\$ 165.42	\$ 111.57	\$ 120.59	\$ 87.77		

### TASK DESCRIPTION

<b>Task 1. Project Management and Coordination</b>						
<b>A. Project Planning and Monitoring</b>						
1. Project Execution Plan						
2. Project Schedule						
<b>B. General Project Management</b>						
1. Weekly project management - 10 hour/week for 52 weeks						
2. Invoicing and Status Reports						
<b>C. Meetings</b>						
1. City Coordination - Combined with Design Team Meetings						
2. PMT - Monthly (14 total with Key Staff)						
3. Design Team Coordination - Bi-Weekly (24 total)						
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>	\$ -	\$ -	\$ -	\$ -		\$ -
<b>Task 2. Traffic Study</b>						
<b>A. Traffic Data Collection</b>						
1. Use City Traffic Records for Larimer to Develop ESAL's						
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections						
3. Obtain Current Signal Timing						
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>						
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm</b>						
<b>Task 2 SUBTOTAL - Traffic Study</b>	\$ -	\$ -	\$ -	\$ -		\$ -
<b>Task 3. Bridge and Streetscape Concept Development</b>						
<b>A. Stakeholder Involvement</b>						
1. Stakeholder Meetings						
<b>B. Design Parameter Development</b>						
<b>C. Concept Alternatives - Three (3) Total</b>						
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>						
1. Bridge Design - Layout and Elevation						
2. Preliminary Cherry Creek Channel Modeling for Freeboard						
3. Streetscape Enhancements						
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>	\$ -	\$ -	\$ -	\$ -		\$ -
<b>Task 4. Design and Preparation of Construction Documents</b>						
<b>A. Survey</b>						
<b>B. Right-of-Way</b>						
<b>C. Geotechnical</b>						
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures						
2. One (1) Kick-off and Two (2) Design Cordination Meetings with City						
3. Construction Documents including Soil Boring Logs and Construction Specifications Support						
<b>D. Environmental Research</b>						
1. Existing Conditions						
2. Evaluate Potential Impacts and Develop Mitigation						
3. USACE 404 Permit						
a. SHPO Section 106						
b. CCD Landmark Preservation (included in SHPO hours)	54	42	8	9	113	\$ 15,373.27
c. Denver Parks and Parkways (included in SHPO hours)						
d. Endangered Species and Migratory Birds						
e. Waters of the US and Wetlands						
f. Hazardous Materials - Coordinate with DDPHE on Phase I ESA						
g. Parks/Section 6(f) Resources - Cherry Creek Trail						
4. Obtain Permits and Clearances						
5. Incorporate Environmental Requirements into Bid Docs						
6. Environmental Documentation						
<b>E. Hydraulic Analysis, Drainage and Permitting</b>						
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model						
2. CLOMR/LOMR Analyses as needed						
3. Coordinate with USACE Dam Operations for annual flush activities						
4. Scour Analysis for 100-yr and 500-yr						
5. Hydology for surface drainage						
6. Surface Drainage System Design						
7. Develop 30%, 90% and Bid documents including drainage reports						
8. Obtain SUDP Permit for Floodplain Use						
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator						
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination						
<b>F. Bridge Design</b>						
1. Structure Selection Report						
2. Structural Design, Analysis and Detailing of Bridge and Walls						
3. Coordinate and Integrate Aesthetic Enhancements						
4. Independent Design Checks						
5. Develop 30%, 90% and Bid documents including cost estimates						
6. Provide LRFD Bridge Rating						

## Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

Estimated Work Hours				Total Hours	Total Task Cost
Mead & Hunt					
1	2	3	4		
Senior Historian	Historian	GIS Technician	Tech Editor/Admin I		
\$ 165.42	\$ 111.57	\$ 120.59	\$ 87.77		

### TASK DESCRIPTION

7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews						
<b>G. Civil and Landscape Design</b>						
1. Streetscape and Landscape design documents						
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)						
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical						
4. Determine Impacts to ROW, Utilities and Environmental						
5. Develop Intersection Plans (3 intersections)						
6. Develop Removal Plans						
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration						
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals						
<b>H. Utility Investigation and Coordination</b>						
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping						
2. Meet with Utilities to discuss project impacts, relocations, mitigations						
3. Obtain Easements, license agreements and relocation agreements from Utility Companies						
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations						
5. Meet with Utility Owners after 90% and conduct comment resolution meetings						
6. Develop 30%, 90% and Bid documents including Utility Specification						
7. Obtain Utility Clearance Letters from affected Utilities						
8. Complete XCEL Energy work order request form and coordinate pole relocations.						
9. Obtain estimates of probable cost for relocations that are project costs						
<b>I. Erosion Control Design</b>						
1. Develop 30%, 90% and Bid documents including Tabs						
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's						
3. Prepare the CASDP and supporting plans pending CCD approval						
<b>J. Public Outreach and Information</b>						
1. Prepare a public communication Contact List						
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts						
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house						
4. Develop graphics, handouts and other media for stakeholder meeting and open house						
5. Document comments received at stakeholder and open house meetings						
<b>K. Construction Detours</b>						
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks						
2. Develop a schedule of CTC Items based on required traffic control and construction phasing						
<b>L. Construction Services</b>						
1. Review Submittals (6 assumed)						
2. Respond to RFT's (8 assumed)						
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting						
4. Prepare as-built plans from Contractor and CCD redlines						
<b>M. Cost Estimates (detailed in other disciplines above)</b>						
N. Public Art - Attend three (3) meetings to discuss locations for Public Art						
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>	54	42	8	9	113	
	\$ 8,933	\$ 4,686	\$ 965	\$ 790		\$ 15,373.27

<b>Task 5. Water Quality/Green Infrastructure Analysis and Design</b>						
<b>A. Water Quality Features</b>						
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines						
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution						
3. Develop 30%, 90% and Bid documents including Tabs						
4. Incorporate Water Quality design information into Drainage Report						
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's						
6. Prepare the CASDP and supporting plans pending CCD approval						
7. Attend two (2) meetings with CCD						
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>	\$ -	\$ -	\$ -	\$ -		\$ -

<b>Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)</b>						
<b>A. Survey - 100 feet up each leg</b>						
<b>B. Conceptual Intersections Design with Signal Layout</b>						
<b>C. Prepare preliminary (30%) design and SUE</b>						
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>						
<b>E. Prepare Final Construction (100%) PS&amp;E</b>						
<b>F. Prepare Final AD (Bid) PS&amp;E</b>						
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>	\$ -	\$ -	\$ -	\$ -		\$ -

<b>Total Hours</b>	54	42	8	9	113	
<b>Labor Rate/hr</b>	\$ 165.42	\$ 111.57	\$ 120.59	\$ 87.77		
<b>Labor Cost</b>	\$8,932.68	\$4,685.94	\$ 964.72	\$ 789.93		\$ 15,373.27
<b>Expenses*</b>	165					\$ 165.00
<b>Total Project Cost</b>						<b>\$ 15,538.27</b>



## Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

PK Electric						Total Hours	Total Task Cost
1	2	3	4	5	6		
Principal Engineer of Record	Engineering Manager	Senior Project Engineer	Electrical/Technology Designer	Production/BIM Manager	Drafter		
\$ 215	\$ 190	\$ 185	\$ 150	\$ 125	\$ 95		

### TASK DESCRIPTION

<b>7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews</b>							
<b>G. Civil and Landscape Design</b>							
1. Streetscape and Landscape design documents		1	1	4		1	7
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)							
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical							
4. Determine Impacts to ROW, Utilities and Environmental							
5. Develop Intersection Plans (3 intersections)							
6. Develop Removal Plans		1	1	2		2	6
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration	1	4	4	10	2	10	31
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals		1	1	2		2	6
<b>H. Utility Investigation and Coordination</b>							
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping							
2. Meet with Utilities to discuss project impacts, relocations, mitigations							
3. Obtain Easements, license agreements and relocation agreements from Utility Companies							
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations							
5. Meet with Utility Owners after 90% and conduct comment resolution meetings							
6. Develop 30%, 90% and Bid documents including Utility Specification							
7. Obtain Utility Clearance Letters from affected Utilities							
8. Complete XCEL Energy work order request form and coordinate pole relocations.		2	2	4			8
9. Obtain estimates of probable cost for relocations that are project costs							
<b>I. Erosion Control Design</b>							
1. Develop 30%, 90% and Bid documents including Tabs							
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's							
3. Prepare the CASDP and supporting plans pending CCD approval							
<b>J. Public Outreach and Information</b>							
1. Prepare a public communication Contact List							
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts							
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house							
4. Develop graphics, handouts and other media for stakeholder meeting and open house							
5. Document comments received at stakeholder and open house meetings							
<b>K. Construction Detours</b>							
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks							
2. Develop a schedule of CTC Items based on required traffic control and construction phasing							
<b>L. Construction Services</b>							
1. Review Submittals (6 assumed)		2	6				8
2. Respond to RFT's (8 assumed)		2	8				10
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting		2	10				12
4. Prepare as-built plans from Contractor and CCD redlines			2			4	6
<b>M. Cost Estimates (detailed in other disciplines above)</b>							
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>							
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>	<b>3</b>	<b>19</b>	<b>43</b>	<b>38</b>	<b>4</b>	<b>33</b>	<b>140</b>
	\$ 645	\$ 3,610	\$ 7,955	\$ 5,700	\$ 500	\$ 3,135	\$ 21,545.00

<b>Task 5. Water Quality/Green Infrastructure Analysis and Design</b>							
<b>A. Water Quality Features</b>							
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines							
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution							
3. Develop 30%, 90% and Bid documents including Tabs							
4. Incorporate Water Quality design information into Drainage Report							
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's							
6. Prepare the CASDP and supporting plans pending CCD approval							
7. Attend two (2) meetings with CCD							
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)</b>							
<b>A. Survey - 100 feet up each leg</b>							
<b>B. Conceptual Intersections Design with Signal Layout</b>							
<b>C. Prepare preliminary (30%) design and SUE</b>							
			1	1		2	4
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>							
		1	2	1		2	6
<b>E. Prepare Final Construction (100%) PS&amp;E</b>							
		1	2	1		2	6
<b>F. Prepare Final AD (Bid) PS&amp;E</b>							
		1	2	1		2	6
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>	<b>\$ -</b>	<b>\$ 570</b>	<b>\$ 1,295</b>	<b>\$ 600</b>	<b>\$ -</b>	<b>\$ 760</b>	<b>\$ 3,225.00</b>

<b>Total Hours</b>	<b>3</b>	<b>24</b>	<b>58</b>	<b>42</b>	<b>4</b>	<b>41</b>	<b>172</b>
<b>Labor Rate/hr</b>	<b>\$ 215</b>	<b>\$ 190</b>	<b>\$ 185</b>	<b>\$ 150</b>	<b>\$ 125</b>	<b>\$ 95</b>	
<b>Labor Cost</b>	<b>\$ 645</b>	<b>\$ 4,560</b>	<b>\$ 10,730</b>	<b>\$ 6,300</b>	<b>\$ 500</b>	<b>\$ 3,895</b>	<b>\$ 26,630</b>
<b>Expenses*</b>							<b>\$ -</b>
<b>Total Project Cost</b>							<b>\$ 26,630</b>

# Exhibit B

## Estimated Work Hours

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 9 month active project duration.

TriUnity				Total Hours	Total Task Cost
1	2	3	4		
Utility Coordinator Lead					
Utility Coordinator 2					
Utility Coordinator 1					
Drafting Lead					
	\$ 190	\$ 160	\$ 130	\$ 115	

### TASK DESCRIPTION

<b>Task 1. Project Management and Coordination</b>					
<b>A. Project Planning and Monitoring</b>					
1. Project Execution Plan					
2. Project Schedule					
<b>B. General Project Management</b>					
1. Weekly project management	16			16	\$ 3,040.00
2. Invoicing and Status Reports					
<b>C. Meetings</b>					
1. City Coordination - Combined with Design Team Meetings					
2. PMT - Monthly (10 total with Key Staff)					
3. Design Team Coordination - Bi-Weekly (18 total)	8	6		14	\$ 2,300.00
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>	<b>24</b>	<b>6</b>		<b>30</b>	<b>\$ 5,340.00</b>
	\$ 4,560	\$ -	\$ 780	\$ -	\$ -
<b>Task 2. Traffic Study</b>					
<b>A. Traffic Data Collection</b>					
1. Use City Traffic Records for Larimer to Develop ESAL's					
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections					
3. Obtain Current Signal Timing					
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>					
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm</b>					
<b>Task 2 SUBTOTAL - Traffic Study</b>					\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Task 3. Bridge and Streetscape Concept Development</b>					
<b>A. Stakeholder Involvement</b>					
1. Stakeholder Meetings					
<b>B. Design Parameter Development</b>					
<b>C. Concept Alternatives - Three (3) Total</b>					
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>					
1. Bridge Design - Layout and Elevation					
2. Preliminary Cherry Creek Channel Modeling for Freeboard					
3. Streetscape Enhancements					
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>					\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Task 4. Design and Preparation of Construction Documents</b>					
<b>A. Survey</b>					
<b>B. Right-of-Way</b>					
<b>C. Geotechnical</b>					
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures					
2. One (1) Kick-off and Two (2) Design Coordination Meetings with City					
3. Construction Documents including Soil Boring Logs and Construction Specifications Support					
<b>D. Environmental Research</b>					
1. Existing Conditions					
2. Evaluate Potential Impacts and Develop Mitigation					
3. USACE 404 Permit					
a. SHPO Section 106					
b. CCD Landmark Preservation					
c. Denver Parks and Parkways					
d. Endangered Species and Migratory Birds					
e. Waters of the US and Wetlands					
f. Hazardous Materials - Coordinate with DDPHE on Phase 1 ESA					
g. Parks/Section 6(f) Resources - Cherry Creek Trail					
4. Obtain Permits and Clearances					
5. Incorporate Environmental Requirements into Bid Docs					
6. Environmental Documentation					
<b>E. Hydraulic Analysis, Drainage and Permitting</b>					
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model					
2. CLOMR/LOMR Analyses as needed					
3. Coordinate with USACE Dam Operations for annual flush activities					
4. Scour Analysis for 100-yr and 500-yr					
5. Hydology for surface drainage					
6. Surface Drainage System Design					
7. Develop 30%, 90% and Bid documents including drainage reports					
8. Obtain SUDP Permit for Floodplain Use					
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator					
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination					
<b>F. Bridge Design</b>					
1. Structure Selection Report					
2. Structural Design, Analysis and Detailing of Bridge and Walls					
3. Coordinate and Integrate Aesthetic Enhancements					
4. Independent Design Checks					
5. Develop 30%, 90% and Bid documents including cost estimates					
6. Provide LRFD Bridge Rating					

# Exhibit B

Project Number:	2018-083	PCN:	N/A
Description:	CONNECTING AURARIA		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 9 month active project duration.

## Estimated Work Hours

TriUnity				Total Hours	Total Task Cost
1	2	3	4		
Utility Coordinator Lead	Utility Coordinator 2	Utility Coordinator 1	Drafting Lead		
\$ 190	\$ 160	\$ 130	\$ 115		

### TASK DESCRIPTION

7. Meetings (7 total) for Detour Phasing, 2 Structure Selection Report and one each submittal reviews											
<b>G. Civil and Landscape Design</b>											
1. Streetscape and Landscape design documents											
2. Roadway Horiz. and Vert. Design Compliance Check (CCD, ADA, CDOT)											
3. Typical Section(s) based on Input from Project Partners, Environmental and Geotechnical											
4. Determine Impacts to ROW, Utilities and Environmental											
5. Develop Intersection Plans (3 intersections)											
6. Develop Removal Plans											
7. Develop 30%, 90% and Bid documents including cross sections and landscape restoration											
8. Quantity Tabs and Estimates for 30%, 90%, Final and Bid Submittals											
<b>H. Utility Investigation and Coordination</b>											
1. Obtain Utility Mapping from Utility Companies. Develop Utility Base Mapping						2		4	6	12	\$ 1,590.00
2. Meet with Utilities to discuss project impacts, relocations, mitigations						8		14		22	\$ 3,340.00
3. Obtain Easements, license agreements and relocation agreements from Utility Companies								8		8	\$ 1,040.00
4. Meet with CCD and Denver Water to discuss project impacts, relocations, mitigations						6		9		15	\$ 2,310.00
5. Meet with Utility Owners after 90% and conduct comment resolution meetings						8		12		20	\$ 3,080.00
6. Develop 30%, 90% and Bid documents including Utility Specification						28		44	42	114	\$ 15,870.00
7. Obtain Utility Clearance Letters from affected Utilities						8		14		22	\$ 3,340.00
8. Complete XCEL Energy work order request form and coordinate pole relocations.						2		4		6	\$ 900.00
9. Obtain estimates of probable cost for relocations that are project costs											
<b>I. Erosion Control Design</b>											
1. Develop 30%, 90% and Bid documents including Tabs											
2. Assist CCD in obtaining permits from City Departments for construction and temporary BMP's											
3. Prepare the CASDP and supporting plans pending CCD approval											
<b>J. Public Outreach and Information</b>											
1. Prepare a public communication Contact List											
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts											
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house											
4. Develop graphics, handouts and other media for stakeholder meeting and open house											
5. Document comments received at stakeholder and open house meetings											
<b>K. Construction Detours</b>											
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks											
2. Develop a schedule of CTC Items based on required traffic control and construction phasing											
<b>L. Construction Services</b>											
1. Review Submittals (6 assumed)											
2. Respond to RFT's (8 assumed)											
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting											
4. Prepare as-built plans from Contractor and CCD redlines											
<b>M. Cost Estimates (detailed in other disciplines above)</b>											
<b>N. Public Art - Attend three (3) meetings to discuss locations for Public Art</b>											
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>						62		109	48	219	
						\$ 11,780	\$ -	\$ 14,170	\$ 5,520		\$ 31,470.00

<b>Task 5. Water Quality/Green Infrastructure Analysis and Design</b>											
<b>A. Water Quality Features</b>											
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines											
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution											
3. Develop 30%, 90% and Bid documents including Tabs											
4. Incorporate Water Quality design information into Drainage Report											
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's											
6. Prepare the CASDP and supporting plans pending CCD approval											
7. Attend two (2) meetings with CCD											
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>						\$ -	\$ -	\$ -	\$ -		\$ -

<b>Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)</b>											
<b>A. Survey - 100 feet up each leg</b>											
<b>B. Conceptual Intersections Design with Signal Layout</b>											
<b>C. Prepare preliminary (30%) design and SUE</b>											
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>											
<b>E. Prepare Final Construction (100%) PS&amp;E</b>											
<b>F. Prepare Final AD (Bid) PS&amp;E</b>											
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>						\$ -	\$ -	\$ -	\$ -		\$ -

<b>Total Hours</b>	86	115	48	249	
<b>Labor Rate/hr</b>	\$ 190	\$ 160	\$ 130	\$ 115	
<b>Labor Cost</b>	\$ 16,340	\$ -	\$ 14,950	\$ 5,520	\$ 36,810
<b>Expenses*</b>					\$ -
<b>Total Project Cost</b>					\$ 36,810

## Exhibit B

### Estimated Work Hours

Project Number:	#REF!	PCN:	N/A
Description:	#REF!		
City Project Manager:	Laura Wasson, PE		
Wilson Project Manager:	Marc Devos, PE		

Estimated workhours shown. Assumes 12 month active project duration.

UMS											Total Hours	Expenses	Total Task Cost
1	2	3	4	5	6	7	8	9	10	11			
Principal Engineer	Utility Coord Manager	Senior Engineer	Senior Geophysicist	Project Manager	SUE Field Ops Manager	Business Admin	Staff Engineer	SUE Field Specialist II	SUE Field Specialist I	GIS IT Specialist			
\$ 140.30	\$ 151.92	\$ 140.78	\$ 138.56	\$ 131.17	\$ 106.62	\$ 104.64	\$ 113.35	\$ 93.85	\$ 79.05	\$ 74.91			

### TASK DESCRIPTION

<b>Task 1. Project Management and Coordination</b>																									
<b>A. Project Planning and Monitoring</b>																									
1. Project Execution Plan																									
2. Project Schedule																									
<b>B. General Project Management</b>																									
1. Weekly project management - 10 hour/week for 52 weeks																									
2. Invoicing and Status Reports																									
<b>C. Meetings</b>																									
1. City Coordination - Combined with Design Team Meetings																									
2. PMT - Monthly (14 total with Key Staff)																									
3. Design Team Coordination - Bi-Weekly (24 total)																									
<b>Task 1 SUBTOTAL - Project Management and Coordination</b>													\$ -	\$ -	\$ -										
<b>Task 2. Traffic Study</b>																									
<b>A. Traffic Data Collection</b>																									
1. Use City Traffic Records for Larimer to Develop ESAL's																									
2. Traffic Data Collection - 24 hr/Veh Class Three (3) Larimer Intersections																									
3. Obtain Current Signal Timing																									
<b>B. Traffic Forecast - 2040 with AM/PM/ADT Forecasts</b>																									
<b>C. Traffic Analysis - 2040 AM/PM LOS for Three (3) Larimer Intersections with Lanage Recomm</b>																									
<b>Task 2 SUBTOTAL - Traffic Study</b>													\$ -	\$ -	\$ -										
<b>Task 3. Bridge and Streetscape Concept Development</b>																									
<b>A. Stakeholder Involvement</b>																									
1. Stakeholder Meetings																									
<b>B. Design Parameter Development</b>																									
<b>C. Concept Alternatives - Three (3) Total</b>																									
<b>D. Final Cross-Section &amp; Streetscape Concept (10% Design)</b>																									
1. Bridge Design - Layout and Elevation																									
2. Preliminary Cherry Creek Channel Modeling for Freeboard																									
3. Streetscape Enhancements																									
<b>Task 3 SUBTOTAL - Bridge and Streetscape Concept Development</b>													\$ -	\$ -	\$ -										
<b>Task 4. Design and Preparation of Construction Documents</b>																									
<b>A. Survey</b>																									
1. Utility Designating (See UMS Phase 1 Backup)*													2	2	7	12	1	20	12				56	\$ 1,778.00	\$ 6,257.63
2. Potholing (See UMS Phase 2 Backup)*													1	1		5	20	1	11				39	\$ 11,163.00	\$ 4,420.82
<b>B. Right-of-Way</b>																									
<b>C. Geotechnical</b>																									
1. Soils Investigation/Analysis, Design Report (30% and Final) for Pavement and Structures																									
2. One (1) Kick-off and Two (2) Design Coordination Meetings with City																									
3. Construction Documents including Soil Boring Logs and Construction Specifications Support																									
<b>D. Environmental Research</b>																									
1. Existing Conditions																									
2. Evaluate Potential Impacts and Develop Mitigation																									
3. USACE 404 Permit																									
a. SHPO Section 106																									
b. CCD Landmark Preservation																									
c. Denver Parks and Parkways																									
d. Endangered Species and Migratory Birds																									
e. Waters of the US and Wetlands																									
f. Hazardous Materials - Coordinate with DDPHE on Phase 1 ESA																									
g. Parks/Section 6(f) Resources - Cherry Creek Trail																									
4. Obtain Permits and Clearances																									
5. Incorporate Environmental Requirements into Bid Docs																									
6. Environmental Documentation																									
<b>E. Hydraulic Analysis, Drainage and Permitting</b>																									
1. Detailed River Hydraulic Analysis to evaluate freeboard using MHFCD FHAD model																									
2. CLOMR/LOMR Analyses as needed																									
3. Coordinate with USACE Dam Operations for annual flush activities																									
4. Scour Analysis for 100-yr and 500-yr																									
5. Hydrology for surface drainage																									
6. Surface Drainage System Design																									
7. Develop 30%, 90% and Bid documents including drainage reports																									
8. Obtain SUDP Permit for Floodplain Use																									
9. Meetings (3 total) with CCD, MHFCD and coordinate with CCD Floodplain Administrator																									
10. Permitting - Support 404, CASDP, MHFCD Approvals, USACE Coordination																									
<b>F. Bridge Design</b>																									
1. Structure Selection Report																									
2. Structural Design, Analysis and Detailing of Bridge and Walls																									
3. Coordinate and Integrate Aesthetic Enhancements																									
4. Independent Design Checks																									
5. Develop 30%, 90% and Bid documents including cost estimates																									
6. Provide LRFD Bridge Rating																									











## Exhibit B

Project Number:	2018-083	PCN:	N/A										
Description:	CONNECTING AURARIA												
City Project Manager:	Laura Wasson, PE												
Wilson Project Manager:	Marc Devos, PE												
Estimated workhours shown. Assumes 12 month active project duration.													
TASK DESCRIPTION													
<b>J. Public Outreach and Information</b>													
1. Prepare a public communication Contact List													
2. Coordinate meetings with Key Stakeholders, Adjacent Property Owners and Special Districts													
3. Prepare and send announcements for and attend one (1) stakeholder mtg and (1) open house													
4. Develop graphics, handouts and other media for stakeholder meeting and open house													
5. Document comments received at stakeholder and open house meetings													
<b>K. Construction Detours</b>													
1. Develop Const Traf Control Spec defining requirements for access maintenance. Coord with CCD Parks													
2. Develop a schedule of CTC Items based on required traffic control and construction phasing													
<b>L. Construction Services</b>													
1. Review Submittals (6 assumed)													
2. Respond to RFI's (8 assumed)													
3. Attend pre-construction and construction kick-off mtgs and one additional construction meeting													
4. Prepare as-built plans from Contractor and CCD redlines													
<b>M. Cost Estimates (detailed in other disciplines above)</b>													
N. Public Art - Attend three (3) meetings to discuss locations for Public Art													
<b>Task 4 SUBTOTAL - Design and Preparation of Construction Documents</b>													
	\$	90	\$	108	\$	78	\$	96	\$	80	Total Hours		Total Task Cost
<b>Task 5. Water Quality/Green Infrastructure Analysis and Design</b>													
<b>A. Water Quality Features</b>													
1. Alternatives Analysis based on MHFCD and CCD Ultra Urban Green Infrastructure Guidelines													
2. Identify Water Quality Options and Coordinate with CCD on Preferred Solution													
3. Develop 30%, 60%, 90% and Bid documents including Tabs													
4. Incorporate Water Quality design information into Drainage Report													
5. Assist CCD in obtaining permits from City Departments for construction and permanent BMP's													
6. Prepare the CASDP and supporting plans pending CCD approval													
7. Attend two (2) meetings with CCD													
<b>Task 5 Subtotal - Water Quality/Green Infrastructure Analysis and Design</b>													
	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
<b>Task 6. Traffic Signal and Intersection Design (2 Intersections - Larimer/NB Speer, Larimer/SB Speer)</b>													
<b>A. Survey - 100 feet up each leg</b>													
<b>B. Conceptual Intersections Design with Signal Layout</b>													
<b>C. Prepare preliminary (60%) design and SUE</b>													
<b>D. Prepare final (90%) Plans, specs and cost estimate</b>													
<b>E. Prepare Final Construction (100%) PS&amp;E</b>													
<b>F. Prepare Final AD (Bid) PS&amp;E</b>													
<b>Task 6 Subtotal - Traffic Signal and Intersection Design</b>													
	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
<b>Total Hours</b>													
<b>Labor Rate/hr</b>													
	\$	90	\$	108	\$	78	\$	96	\$	80			
<b>Labor Cost</b>													
	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
<b>Expenses*</b>													
	\$	-										\$	-
<b>Total Project Cost</b>													
											\$	-	

# Exhibit C



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

6/1/2021

5/29/2020

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):	FAX (A/C, No):
	E-MAIL ADDRESS:	
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Liberty Insurance Corporation		42404
INSURER B: The First Liberty Insurance Corporation		33588
INSURER C:		
INSURER D:		
INSURER E:		
INSURER F:		

**COVERAGES** 2      **CERTIFICATE NUMBER:** 16676896      **REVISION NUMBER:** XXXXXXXX

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 type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/> OTHER:	Y	Y	TB7-Z91-467382-020	6/1/2020	6/1/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 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	AS7-Z91-467382-010	6/1/2020	6/1/2021	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 <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
B	<input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> N	N/A	WC6-Z91-467382-030	6/1/2020	6/1/2021	<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

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
RE: CONNECTING AURARIA. 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 AND NON-CONTRIBUTORY, IF 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 IF REQUIRED BY WRITTEN CONTRACT.

**CERTIFICATE HOLDER**

16676896  
CITY AND COUNTY OF DENVER  
201 WEST COLFAX AVENUE, DEPARTMENT 608  
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

© 1988-2015 ACORD CORPORATION. All rights reserved.



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

6/1/2021

5/29/2020

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).

<b>PRODUCER</b> Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	<b>CONTACT NAME:</b> <b>PHONE (A/C. No. Ext):</b> <b>E-MAIL ADDRESS:</b>	<b>FAX (A/C. No):</b>	
	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
<b>INSURED</b> 1048828 WILSON & CO., INC. ENGINEERS & ARCHITECTS 4401 MASTHEAD STREET NE, SUITE 150 ALBUQUERQUE NM 87109	<b>INSURER A:</b> Berkshire Hathaway Specialty Insurance Company		22276
	<b>INSURER B:</b>		
	<b>INSURER C:</b>		
	<b>INSURER D:</b>		
	<b>INSURER E:</b>		
	<b>INSURER F:</b>		

**COVERAGES** 2      **CERTIFICATE NUMBER:** 16676898      **REVISION NUMBER:** XXXXXXXX

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
	<b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/> OTHER:			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX DAMAGE TO RENTED PREMISES (Ea occurrence) \$ XXXXXXXX MED EXP (Any one person) \$ XXXXXXXX PERSONAL & ADV INJURY \$ XXXXXXXX GENERAL AGGREGATE \$ XXXXXXXX PRODUCTS - COMP/OP AGG \$ XXXXXXXX \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			NOT APPLICABLE			COMBINED SINGLE LIMIT (Ea accident) \$ XXXXXXXX BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	NOT APPLICABLE			<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ XXXXXXXX E.L. DISEASE - EA EMPLOYEE \$ XXXXXXXX E.L. DISEASE - POLICY LIMIT \$ XXXXXXXX
A	<b>PROFESSIONAL LIABILITY</b>	N	N	47EPP30530103	6/1/2020	6/1/2021	\$1,000,000 EACH CLAIM & ANNUAL AGGREGATE FOR ALL PROJECTS.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 RE: CONNECTING AURARIA.

**CERTIFICATE HOLDER**

16676898  
 CITY AND COUNTY OF DENVER  
 201 WEST COLFAX AVENUE, DEPARTMENT 608  
 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

© 1988-2015 ACORD CORPORATION. All rights reserved.