

ON-CALL ENGINEERING SERVICES AGREEMENT

between

THE CITY AND COUNTY OF DENVER

and

JACOBS ENGINEERING GROUP INC.

Contract No. 201631687

THIS AGREEMENT entered into between the **CITY AND COUNTY OF DENVER** (the "City"), a municipal corporation of the State of Colorado, and **JACOBS ENGINEERING GROUP INC.** (the "Consultant"), a Delaware corporation registered to do business in Colorado, whose mailing address is 707 17th Street, Suite 2300, Denver, Colorado 80202.

RECITALS

1. The City wishes to secure professional engineering services and related services to support the Department's Capital Projects Management Division on an "as needed" basis; and

2. The Consultant represents that its members include a duly-licensed engineer of the State of Colorado, and that the Consultant has the present capacity, experience and qualifications to perform professional engineering services for the City in connection with the planning, design and construction of various City projects, as specified in this Agreement; and

3. In response to the City's Request for Qualifications, the Consultant submitted a Proposal for such services to the City. The Consultant and the City have negotiated a basic Scope of Services and Rates for such professional services, copies of which are attached hereto and incorporated herein as **Exhibit A** and **Exhibit B**.

NOW, THEREFORE, in consideration of the premises and the mutual covenants and obligations herein set forth, the parties hereto mutually agree as follows:

SECTION 1 – ENGAGEMENT

1.01 Engagement. The City engages the Consultant with respect to the furnishing of professional engineering services on an on-call basis, as set forth in this Agreement. The Consultant accepts such engagement upon, subject to and in accordance with the terms, conditions and provisions of this Agreement.

1.02 Line of Authority for Contract Administration. The City's Executive Director of Public Works ("Manager") is the City's representative responsible for authorizing and approving the work performed under this Agreement. The Manager hereby designates the City Engineer as the Manager's authorized representative for the purpose of issuing a written Notice to Proceed and administering, coordinating and initially approving the services performed by the Consultant under this Agreement. The Project Manager, who reports to the City Engineer shall be responsible for the day-to-day administration, coordination and approval of services performed by the Consultant, except for approvals that are specifically identified in this Agreement as requiring the Manager's approval.

1.03 Independent Contractor. The Consultant is an independent contractor retained to perform professional or technical services for limited periods of time. Neither the 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 Consultant's Authority. The Consultant shall have no authority to act on behalf of the City other than as expressly provided in this Agreement. The 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 Consultant lacks any authority to bind the City on any contractual matters. Final approval of all contractual matters that purport to obligate the City must be executed by the City in accordance with the City's Charter and the D.R.M.C.

SECTION 2 – CONSULTANT'S SERVICES

2.01 General. The Consultant shall provide professional engineering services as assigned by written task order, on an as-needed basis, in accordance with the terms and conditions of this Agreement.

2.02 Professional Responsibility; Project Requirements.

- (a) All of the work performed by the 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 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 and engineer 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 shall be adequate and sufficient for their intended purpose.
- (d) All drawings, specifications and other products shall be prepared so that the Project, when constructed in accordance with such drawings and specifications, is in compliance with all applicable laws, statutes, codes, ordinances, rules, regulations and executive orders of the City, state and federal government.
- (e) Any design changes required by changes in such applicable laws, statutes, codes, ordinances or rules and regulations of the City, state or federal government, which are enacted after the City's acceptance of Construction Documents, will be outside the scope of the 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 Consultant shall prepare the plans, specifications and other documents as requested in a format that complies with all City, state and federal requirements. It shall be the Consultant's responsibility to contact the reviewing agencies to 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) Without limiting the foregoing, unless it is specifically directed otherwise in writing by the Deputy Manager, the Consultant shall produce plans and Record Documents using

AutoCAD Civil 3D and comply with applicable CAD Standards. An electronic copy of all final project documents, filed using CPM standard directory structure, shall be delivered to the Project Manager on completion of the Work. Final payment will be held until the receipt of the Record Documents and electronic documents. The City reserves the right to proceed with the construction of each project using either the City's standard general contractor bidding approach, on call contractors or other construction management techniques. The Consultant agrees to organize its Contract Documents for the selected construction technique and coordinate the documents into selected bid packages, as appropriate. The City will notify the Consultant prior to the completion of the Preliminary 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 Consultant under this Agreement, when submitted by the Consultant to the Manager and the user agency must represent a thorough study and competent solution as per usual and customary professional standards and shall reflect all architectural and engineering skills applicable to the assigned task.
- (i) The responsibilities and obligations of the Consultant under this Agreement shall not be relieved or affected in any respect by the presence on the site of any employee, agent, consultant or subconsultant of the City.
- (j) The 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 Consultant or its subconsultants, without additional compensation.

2.03 Program and Budget.

- (a) The Consultant agrees to discuss the City's program and budget for each assigned task with the Project Manager and further agrees, unless it has notified the City in writing that the task cannot be accomplished within such budget, to accomplish the task within the intent of the program and final proposal cost. Should the Consultant determine that an assigned task cannot be accomplished within the final proposed cost, the Consultant shall immediately notify the Project Manager, in writing.
- (b) Consultant shall prepare a proposal with a maximum estimated fee for a particular task. Consultant agrees to complete the task within the limits of the approved final proposal cost, unless otherwise modified by the City. Should all task work exceed such cost, the Consultant agrees to complete the Task at no additional cost to City and, in a manner acceptable to the City.

2.04 Coordination and Cooperation.

- (a) The 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 task. Such coordination shall consist of regular progress and review meetings with the City, work sessions with Project Managers, 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 task. If requested, the Consultant shall document conferences and distribute notes to the City.

2.05 Personnel Assignments.

- (a) The key professional personnel identified in **Exhibit C** will be assigned by the Consultant or its subconsultants to perform the services required under this Agreement, as appropriate.
- (b) The Consultant's services shall be diligently performed by the regular professional and technical staff of the Consultant. In the event the 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 Consultant.
- (c) The Consultant agrees, at all times during the term of this Agreement, to maintain on its payroll or to have access to through subconsultants, professional design personnel in sufficient strength to meet the requirements of the City. Such personnel 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 or authorized in advance by a fully executed written task order.
- (d) Prior to designating an outside professional to perform subconsultant work, the 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 task 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 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 Consultant or a subconsultant decides to replace any of its key professional personnel, the Consultant shall notify the Manager in writing of the desired change. No such changes shall be made until replacement personnel are recommended by the Consultant and approved in writing by the Manager, which approval shall not be unreasonably withheld.
- (g) If, during the term of this Agreement, the Manager determines that the performance of approved key personnel or a subconsultant is not acceptable, the Manager shall notify the Consultant and give the Consultant the time which the Manager considers reasonable to correct such performance. Thereafter, the Manager may require the Consultant to reassign or replace such key personnel. If the Manager notifies the Consultant that certain of its key personnel or a subconsultant should be replaced, Consultant will use its best efforts to replace such key personnel or a subconsultant within ten (10) days from the date of the Manager's notice.
- (h) Neither the Consultant nor any subconsultant shall have other interests which conflict with the interests of the City. 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 Consultant of its responsibility for contractual or professional deficiencies, errors or omissions.
- (j) The Consultant shall submit to the Manager 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 Consultant and approved by the Manager before they are assigned to a specific task.
- (k) The Manager shall respond to the Consultant's written notice regarding replacement of key professional personnel within fifteen (15) days after the Manager receives the list of changes. If the Manager or his designated representative does not respond within that time, the changes shall be deemed to be approved.

2.06 Basic Services – General.

- (a) The Consultant shall, under the general direction of and at the written request of the Manager, furnish experienced engineering personnel to support the Department's existing personnel. Subject to an express, agreed upon limitation of such duties set forth in any approved task proposal for the particular task assigned to the Consultant under this Agreement, the Consultant agrees to perform all of the services and duties set forth in this Agreement in regard to each task to which it is assigned and its proposal is approved.
- (b) When directed by the Manager to perform a particular task, the Consultant shall prepare a task specific proposal in accordance with the scope or description of Work for that task. A separate task specific proposal shall be prepared for each task for which the Consultant's services are required and shall set forth, at a minimum all of the following:
 - (1) A not to exceed maximum fee for the Consultant's proposed services.
 - (2) Itemized fee breakdown. No markup will be allowed on basic services or reimbursables.
 - (3) The additional services budget, if any, for the task.
 - (4) Any reimbursable expenses approved pursuant to paragraph 3.02.
 - (5) A detailed description of the task and scope of work (the "Work").
 - (6) A list of deliverables for the task.
 - (7) An agreed upon schedule for deliverables and completion of the Work.
- (c) Upon approval by the Manager of a task proposal, the approval and appropriation of funding for such task, and the issuance of a written Notice to Proceed, the Consultant shall proceed to perform the Work.
- (d) The assigned task shall be performed in conformance with the approved task specific proposal. The terms of this Agreement cannot be altered by task order.

- (e) The Consultant's basic services for each task may consist of any one or combination of the anticipated services described below, in **Exhibit A** or services related to the services described in this Agreement.
- (f) The Consultant shall not proceed with any Task until a Notice to Proceed is executed by the City and issued to the Consultant.
- (g) Nothing in this Agreement shall be construed as placing any obligation on City to proceed with any task beyond the latest task authorized in writing by City. Further, nothing in this Agreement shall be construed as guaranteeing the Consultant any minimum amount of Work or number of tasks assigned under this Agreement.
- (h) If a task which is assigned to the Consultant under this Agreement is funded in whole or part by federal funds, or any other funding source, each of the applicable terms set forth in any funding arrangement for such funds shall be, and by this reference are incorporated into the task specific proposal for such task, and included in the Consultant's basic services responsibilities for such task.
- (i) The responsibilities and obligations of the 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 - Specific. The services described in this Section 2.08, unless specifically noted as omitted in a task order, are included in the agreed to fee for each task.

- (a) **Review and Assessment.** Assess and measure likelihood of Program financial success, and identify and propose improvements to ensure quality of financial information available. Provide a review and assessment of the Program's scope, progress, performance and financial status and forecasts as measured against baseline schedules and budgets.
- (b) **Risk Analysis.** Identify potential issues, risks and cost exposures, and provide early warning of issues in order to mitigate or minimize impacts.
- (c) **Reporting and Communication.** Report and communicate key issues and opportunities to interested agencies including but not limited to Public Works, Arts Venues Denver, the Mayor's Office, Parks and Recreation, City Council members, and outside partners to manage expectations and needs of affected parties.
- (d) **Financial Tracking and Reporting.** Gather necessary data, prepare and deliver financial reports that meet the needs of the City and other stakeholders.
- (e) **Support Financial Tracking.** Consultant will direct City staff on financial reporting requirements and compile financial information to prepare summary level data of project expenses (both projected and actual). Consultant will support "change management" practices to address needed project funding adjustments.
- (f) **Scheduling Support.** Consultant will compile necessary information to prepare summary level data of overall project schedules. Consultant will support "change management" practices to address needed project schedule adjustments.
- (g) **Contract Support.** Consultant will support Intergovernmental Agreements (IGAs) and other contracts related to Program.

- (h) Status Updates. Provide ongoing formal and informal presentations to the City team, City Council, and outside partners on status of the Program, including details on project status and financials.
- (i) Meetings. The Consultant shall attend such meetings as may be required for a complete understanding of each task, and the Consultant shall document all such meetings and distribute minutes to the City within a week of the meeting.
 - (1) The Consultant shall then, through a written report and informal presentation, review with the City alternate methods or approaches to the design and construction of the project and recommend those methods or approaches best suited to program needs and budget of the City.
 - (2) The Consultant shall also include as part of this phase all services included in the applicable portions of the approved project specific Proposal.
- (j) Schematic Design Phase:
 - (1) The Consultant shall not begin work on the Schematic Design Phase of any project unless and until written notice to proceed with such phase is received from the Project Manager.
 - (2) During the Schematic Design Phase for each project, the Consultant shall, in response to the City's requirements, the budget restrictions of the project and the format of design and construction selected by City, prepare for the City's approval schematic design documents including, but not limited to, drawings and other documents demonstrating and illustrating the scope and scale of the project and the relationship of the project components. Such documents shall be in sufficient detail so as to allow the City to make knowledgeable and informed decisions as to the selection of alternates and resolution of other scope and budget questions.
 - (3) The Consultant shall also provide a preliminary Statement of Probable Construction Cost of the project, taking into account the City's project budget.
 - (4) The Consultant shall also include as part of this phase all services included in the applicable portions of the approved project specific Proposal.
- (k) Design Development Phase:
 - (1) Prior to beginning the Design Development Phase of each project, the Consultant shall obtain written approval of its final Schematic Design Documents and the Statement of Probable Cost.
 - (2) The Consultant shall prepare Design Development Documents based upon the approved schematic design documents and any adjustments in the program and budget authorized by the Manager.
 - (3) The Design Development Documents shall include but not be limited to sufficient data, information and material to define the scope of the project and to demonstrate the general design of the project, including the size and character of the project as to architectural, civil, structural, mechanical and electrical systems, materials, and any other project elements appropriate under each project scope and design.

- (4) As required, the Consultant shall prepare Design Development drawings which shall include but not be limited to:
 - (i) Drawings which show existing topographic features and improvements affecting or relating to the proposed project. The Consultant shall indicate revisions to be made to existing topographic features and improvements such as grading and construction of drainage facilities. Where drainage facilities are to be provided, the Consultant shall indicate direction of flow and point of discharge by appropriate symbol or notes.
 - (ii) Drawings setting forth the basic information necessary to establish space requirements and functional arrangement.
 - (iii) Drawings which demonstrate the functional layout of mechanical, electrical and electronic features, special equipment and, plumbing and heating, where applicable.
 - (iv) Drawings demonstrating the location, dimension, sections, areas and capacities applicable to parking areas, access roads, driveways, walks, and similar features.
 - (v) Drawings demonstrating the location and size of existing or proposed storm or sanitary sewers, water mains, gas main and electrical services as needed for the construction of the project, as well as elevations of gravity lines and the location of proposed building connections with notations showing which of the necessary utility extensions or connections will be provided by others.
 - (vi) Drawings showing simplified schematic electrical diagrams for each electronic or instrumentation system for any required system functions.
 - (5) The Consultant shall also prepare preliminary specifications. The Consultant must ensure that existing standard details and technical specifications for specific requesting agencies are strictly followed. Alteration and editing of existing standards is not acceptable. Project specific alterations which are necessary to existing standards must be addressed using revision sheets.
 - (6) The Consultant shall provide a proposed project time schedule, including key dates and milestones.
 - (7) The Consultant shall then prepare a Statement of Probable Construction Cost which shall be calculated by the Consultant to a uniform and detailed level, based on the drawings and the preliminary specifications for this phase of the project, reflecting the probable project construction costs and taking into account the building trades and construction components utilized in the project design.
 - (8) The Consultant shall provide, as part of this phase, all services included in applicable portions of the approved project specific Proposal.
- (1) Construction Documents Phase:
- (1) Prior to beginning the Construction Documents Phase, the Consultant shall obtain acceptance in writing of the Design Development Documents and the accompanying Statement of Probable Construction Cost. Upon acceptance by the City, in writing, of the Statement of Probable Construction Cost, such statement

shall become the City's Final Budget for Project Construction. Acceptance of the Design Development Documents shall not be construed as approval of the adequacy of the Design Development Documents and shall not relieve the Consultant of any liability for any defaults, deficiencies, errors or omissions contained therein.

- (2) The Consultant shall prepare the Construction Documents from the approved Design Development Documents and by incorporation of any further changes authorized by the City and agreed to by the Consultant. The Construction Documents shall set forth in detail the requirements for the completion of the entire project. At a minimum, these documents must include complete information necessary to bid the project, and shall contain complete bidding documents meeting all City and, as applicable, state and federal requirements.
 - (3) The Construction Documents shall include, but not be limited to, complete drawings and specifications setting forth the requirements for the completion of the project in adequate, reasonable, reliable and final detail.
 - (4) The Consultant shall file all documents necessary and required for the approval of the project design by governmental authorities having jurisdiction over the project. The City will lend any required assistance, such as signing application(s) and paying any permit or other fees.
 - (5) Acceptance of the Construction Documents shall not relieve the Consultant of any responsibility for design deficiencies, omissions or errors.
 - (6) All final plans and specifications shall bear the signature(s) and seal(s) of Consultant and/or the responsible subconsultant, in conformity with the requirements of Articles 4 and 25 of title 12, C.R.S. It is intended by the parties that the Construction Documents, including all plans and specifications, will be signed and sealed, in whole or in part as appropriate, by the licensed professional engineer and/or architect in responsible charge of the preparation of such plans and specifications or parts thereof. The Consultant shall be ultimately responsible for all design work provided under this Agreement.
 - (7) The Consultant shall make available for review, by the City, all design data forming the basis for drawings and specifications.
 - (8) The Consultant shall provide a list of long lead items to the City's Project Manager.
 - (9) The Consultant shall provide the City with a Final Statement of Construction Cost based upon the submitted Design Documents for the City's consideration.
 - (10) The Consultant shall also include as part of this phase all services included in the applicable portions of the applicable approved project specific Proposal.
 - (11) If the Cost estimate indicates a budget shortfall, the Consultant shall assist the City by identifying items that could be bid as add alternates and identifying those items on the construction documents.
- (m) Bidding Phase:
- (1) Prior to beginning the Bidding Phase of the project, the Consultant shall obtain the City's acceptance, in writing, of the Construction Documents. Such

acceptance shall not be construed as approval of the adequacy of the Construction Documents.

- (2) The time schedule for work under this phase shall be governed by the times shown in the printed project bid package(s), as modified by any addenda. During this phase, the Consultant's duties shall include, but not be limited to:
 - (i) Preparing and submitting the project documents, bid documents, and the invitation for bids for the written acceptance of City prior to the advertising by the City and solicitation of bids. Such acceptance shall not be construed as approval of the adequacy of the documents and shall not relieve the Consultant of the responsibility for design deficiencies, errors, or omissions;
 - (ii) Preparation and submittal to the City of a tentative pre-bid project schedule, in a form approved by the City, in sufficient detail to show the major completion milestones required by the City, and appropriate to the size, complexity and scope of the project;
 - (iii) Providing the City with bid documents in accordance with the format required by the City;
 - (iv) Assist the Project Manager with answering questions by bidders and approving "equals" to specified materials. Lists of those materials approved as equals shall be prepared as an addendum item, with explanatory notes if necessary;
 - (v) Assist the Project Manager with the preparation of any necessary addenda;
 - (vi) Participating in the pre-bid conference with prospective bidders;
 - (vii) Reviewing all bids for the reasonableness of the bid price and the qualifications of the lowest responsive bidders; and
 - (viii) Performing all services included in the applicable portions of the applicable approved project specific Proposal.
- (n) Construction Administration Phase:
 - (1) The Construction Administration Phase shall commence with execution of the Construction Contract(s) and the issuance of the Notice to Proceed to the Project Contractor(s), or the first of them, by the City.
 - (2) The time schedule for Consultant's Work under this phase shall be set and governed by the approved project schedule. However, the Consultant's schedule for this phase may be changed due to project change orders or due to time extensions to such schedule, and will in any event be extended until all project documents (original and record drawings, specifications, test reports, surveying notes, design calculations and other pertinent information) have been received by the City and the final payment for services is paid. No additional compensation will be paid to the Consultant because of extensions of the Contractor's period of performance or other performance schedule revisions.

- (3) The Consultant shall attend Owner, Architects, Contractor (OAC) meetings when requested by the Project Manager. The Consultant may be called upon to assist with procedures, job progress, construction problems, scheduling or other matters relating to the timely and successful completion of the project in accordance with the contract requirements.
- (4) Consultant shall keep the City informed through a monthly written report of the progress and quality of work.
- (5) If, in the Consultant's opinion, the Contractor has fallen behind schedule, the Consultant shall immediately notify the Project Manager. If the Contractor refuses or fails to prosecute the work, or any part thereof, with such diligence as will insure its completion within the time specified in the Contract Documents, or any extension thereof, or fails to complete said work within such time, or refuses to correct defective work, the Consultant shall immediately notify the City and recommend a course of action.
- (6) The Consultant will assist the City Project Manager with interpreting the requirements of the Project Plans and Specifications. The Consultant will render written interpretations within ten (10) days of receipt of any written request or within an agreed upon time limit.
- (7) The Consultant shall notify the City's Project Manager of unacceptable work which, in the Consultant's opinion, does not conform to the Contract Documents. The Consultant shall review and approve all shop drawings, samples and other required submissions of the Contractor in a timely manner. Such general submissions shall be approved for use on the project only if, and when, the Consultant has ascertained that they are in conformance with the design concept of the project and in compliance with contract documents. Submissions of Contractor(s) shall be acted on and returned to the Contractor within ten (10) days of receipt thereof. If review and return are delayed beyond the time set out above, the Consultant shall notify Contractor and City of such delay, in writing, before expiration of the approval date, stating the reason for the delay. Resubmittals shall be acted on and returned to Contractor within five (5) days. The Contractor shall submit to the City Project Manager and Consultant prior to the beginning of construction, a schedule of submittals. No shop drawing or submittal will be approved prior to the receipt of the submittal schedule.
- (8) The Consultant shall review and analyze all written requests for Change Orders, including any documents offered to substantiate such requests. The Consultant shall submit written recommendations to the City concerning all requests for Change Orders.
- (9) All change orders shall be on forms supplied by the City. The Consultant shall keep a current record of all variations or departures from the drawings and specifications as originally approved and shall maintain careful supervision over all changes in final drawings in the course of the work.
- (10) The City will transmit a copy of all completed change orders to the Consultant for use in checking shop drawings and compiling record drawings for project construction.

- (11) The Consultant shall use reasonable efforts and professional judgement to ensure that no changes are made in the work, by any party, without prior written consent of the City except as hereinafter provided. Only the City may authorize changes in the work.
- (12) The Consultant shall observe and systematically review the performance of the work or in such a manner and at such times as is necessary to determine that the work has been or is being installed in conformance with the Contract Documents. If any work is not in conformance with the Contract Documents, the Consultant shall immediately make an oral report of such nonconformance to the City Project Manager, followed by a written report of such nonconformance to both the nonconforming Contractor and the City. The Consultant, however, does not assume and is not responsible for any of the Contractor's construction means, methods, techniques, or safety programs in constructing the project. The on-site visits by the Consultant shall be made by members of the appropriate engineering or architectural discipline according to the status of the work and may vary with the progress of work from daily to weekly. The frequency of on-site visits shall be that which the Project Manager considers necessary to safeguard the interests of the City through a determination that the Work is being performed in compliance with the Contract Documents, and with applicable laws, statutes, codes, ordinances, rules and regulations and standards.
- (13) On each visit to the site, the Consultant shall make, and file within seven (7) days with the City, a written field observation report using the form(s) approved by the Project Manager for each individual project.
- (14) If the Consultant knows or reasonably should have known that the Contractor or any subcontractor fail to comply with the Contract Documents, drawings, specifications, designs and plans prepared by the Consultant, the Consultant shall report such failure to the City's project manager immediately. The Consultant shall notify the Project Manager of specific critical observations it intends to carry out during the various phases of the project.
- (15) If the Consultant becomes aware of any condition or event constituting a material default by the Contractor or that otherwise justify termination of a Contractor for cause, the Consultant shall notify the City immediately.
- (16) Upon the completion of the entire work or a designated portion thereof, the Consultant shall, in consultation with the City, recommend issuance of a Certificate of Substantial Completion in accordance with the provisions of the construction contract and its General and/or Special Contract Conditions. The referenced document will be issued by the City.
- (17) The Consultant shall, in consultation with the City, provide to the City a close-out program, including a comprehensive process to ensure timely, efficient and proper completion of all punch list items by the Contractor in accordance with the provisions of the Contract Documents.
- (18) "As-Built Drawings" shall be defined as a revised set of drawings submitted by a consultant or contractor upon completion of a project or a particular job that reflect all changes made in the specifications and working drawings during the construction process, and locations of all elements of the work completed under

the contract. "As-Built Drawings" may also be referred to as "Record As-Built Drawings."

Prior to Final Inspection, the Consultant shall obtain the original "Marked-up As-Built" drawings and final survey, if applicable, as well as a conformed copy of the Project Specifications from each Contractor. Since the original construction drawings are signed and stamped by a Professional Engineer and/ or Architect, the submitted As-Built changes shall also be signed and stamped by the Professional Engineer or Architect of record. These drawings shall be delivered on a CD in PDF and DWG format to the City Project Manager, together with all of the "Marked-up As-Built" prints provided by the Contractor(s) from which they were derived. If requested by the City, the unstamped reproducibles shall be transmitted to the City with a letter, sealed by the Consultant, stating that as of the date of such transmittal, the reproducible drawings are identical to the Record Drawings except for such seals and stamping. The last five percent (5%) of the Consultant's basic services fee for each project will not be paid until such As-Built Drawings and all Record Documents required are received by the City Project Manager and accepted by PWERA.

- (19) The Consultant shall attend the Final Inspection with the Contractor and the City to ascertain that all work performed by the Contractor has been performed in accordance with the Contract Documents. At the time of such Final Inspection, a final punch list shall be agreed to by the Consultant and the City, and made in sufficient detail to fully outline to the Contractor: (1) any work to be completed; (2) any work not in compliance with the drawings or specifications; and (3) any unsatisfactory work.
- (20) Prior to final payment to the Contractor, the Consultant shall review final punch list work and shall prepare a written report outlining the deficient or outstanding work and making recommendations as to the ultimate disposition of such outstanding Work.
- (21) One month prior to the expiration of the warranty or other correction of work period provided for in the General and/or Special Contract Conditions to the Contract Documents, the Consultant shall inspect the project for any deficiencies that may have become apparent. Upon completion of such inspection, a written report of the inspection shall be furnished to the City.
- (22) The Consultant shall also include as part of this phase all services included in the applicable portions of the approved project specific Proposal.

2.08 Surveying and Testing.

- (a) The 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 Consultant or appropriate subconsultant discovers, or should in the exercise of professional judgment discover, factors indicating the report or results are not reliable.
- (b) If any such inadequacy or any inconsistency, based upon such exercise of professional judgment, is noted the Consultant and/or its appropriate subconsultant shall report such inconsistency or inadequacy promptly to the City.

- (c) 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 Consultant shall observe the presence of asbestos or hazardous waste material on any project site during its performance of services under this Agreement, the Consultant shall notify the City in writing immediately.
- (d) Payment to the 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.

SECTION 3 – COMPENSATION, PAYMENT, AND FUNDING

The City shall compensate the Consultant for its services performed and expenses incurred under this Agreement and each Task Order as follows.

3.01 Compensation. The City agrees to pay the Consultant, as compensation for any services rendered for a particular Task, either the maximum fee, to be set forth in each approved task order proposal, or an amount based on the Consultant's periodic invoices, whichever is less.

3.02 Reimbursable Expenses. Unless expressly authorized by the City as part of an approved task proposal or specified in **Exhibit B**, the City will not compensate the Consultant for expenses such as postage, travel, mileage, parking, telephone, copies or messenger service costs incurred in connection with Work performed under this Agreement. Such costs are included in the hourly rates paid by the City. The inclusion of rates for expenses in a proposal attached to a task order does not authorize reimbursable expenses unless the executed task includes a not to exceed maximum amount for reimbursable expenses.

3.03 Additional Services. The Consultant shall only be compensated for additional services if the additional services are approved in advance by written task order and subject to an additional services budget for that specific task.

3.04 Invoices. The Consultant shall invoice and be paid monthly based on hours worked at hourly rates included in **Exhibit B**, reimbursable expenses and additional services all subject to the maximum task order amount and the Maximum Contract Amount. Such invoices shall reflect the Consultant's actual hours, sub-consultant costs and reimbursable costs, and shall be based on the hourly rates or other rates for services contained in **Exhibit B**. The rates contained in **Exhibit B** can be modified only by a written amendatory or other agreement executed by the parties and signed by the signatories to this Agreement in accordance with Section 5.27. The Consultant shall maintain contemporaneous hourly records of the actual hours worked by its personnel and subconsultants, records of all allowable reimbursable expenses, and records of expendable supplies and services as necessary to support any audits by the City, and shall bill the City monthly for fees and costs accrued during the preceding month. The Consultant's invoice shall be separated by task order. Upon submission of such invoices to the City Project Manager, and approval by the City, payment shall issue. Final payment to the Consultant, for each assigned task, shall not be made until after the task is accepted and deliverables are delivered to the City, and the duties agreed to in the approved task proposal for that task are otherwise fully performed by the Consultant.

3.05 Maximum Contract Amount; Funding.

- (a) It is understood and agreed by the parties hereto that payment or reimbursement of all kinds to the Consultant, for all Work performed under this Agreement, shall not exceed a maximum of **FOUR MILLION DOLLARS AND NO CENTS (\$4,000,000.00)**. In no event shall the maximum payment to the Consultant, for all work and services performed throughout the entire term of this Agreement exceed the contract maximum amount set forth above.
- (b) Notwithstanding any other term, provision, or condition herein, all payment obligations under this Agreement shall be limited to the funds duly and lawfully appropriated and encumbered or otherwise made available by the Denver City Council under this Agreement for the particular year(s) in which this Agreement is in effect, and paid into the Treasury of the City. As of the date of this Agreement, no funds have been appropriated for this Agreement. Instead, it is the City's intent to appropriate the funds necessary to compensate the Consultant for the work it performs on any assigned task, at the time it accepts each proposal for a specific task. The Manager of Finance, upon reasonable written request, will advise the Consultant in writing of the total amount of appropriated and encumbered funds which are or remain available for payment for all work by the Consultant on a specific task.
- (c) The issuance of any form of order or directive by the City which would cause the aggregate amount payable to the Consultant for a specific task to exceed the amount appropriated for the Consultant's work on a specific task is expressly prohibited. In no event shall the issuance of any change order or other form of order or directive by the City be considered valid or binding if it requires additional compensable work to be performed, which work will cause the aggregate amount payable for such work to exceed the amount appropriated and encumbered, unless and until such time as the Consultant has been advised in writing by the Manager of Public Works that a lawful appropriation sufficient to cover the entire cost of such additional work, has been made. It shall be the responsibility of the Consultant to verify that the amounts already appropriated for the Consultant's Work on a task are sufficient to cover the entire cost of such Work, and any work undertaken or performed in excess of the amount appropriated is undertaken or performed in violation of the terms of this Agreement, without the proper authorization for such work, and at the Consultant's own risk and sole expense.

3.06 Appropriation and Funding.

- (a) 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.
- (b) As of the date of this Agreement, no funds have been appropriated for this Agreement. Instead, it is the City's intent to appropriate the funds necessary to compensate the Consultant for the work it performs on any assigned Project, at the time it executes the Task Order for a Project. The applicable Manager or his designee, upon reasonable written request, will advise the Consultant in writing of the total amount of appropriated and encumbered funds which are or remain available for payment for all work by the Consultant on an assigned Project.

- (c) The issuance of any form of order or directive by the City which would cause the aggregate amount payable to the Consultant for a specific Project to exceed the amount appropriated for the Consultant's work on that Project is expressly prohibited. In no event shall the issuance of any form of order or directive by the City be considered valid or binding if it requires additional compensable services to be performed, which would cause the aggregate amount payable for such services to exceed the amount appropriated and encumbered, unless and until such time as the Consultant has been advised in writing by the applicable Department Manager that a lawful appropriation sufficient to cover the entire cost of such additional work, has been made. Consultant shall work with the City to verify that the amounts already appropriated for the Consultant's services on a Project are sufficient to cover the entire cost of such services. Any services undertaken or performed in excess of the amount appropriated is undertaken or performed in violation of the terms of this Agreement, without the proper authorization for such work, and at the Consultant's own risk and sole expense.

SECTION 4 – TERM AND TERMINATION

4.01 Term. The term of this Agreement shall commence on January 15, 2017, and shall expire on January 15, 2020, unless sooner terminated or extended by written amendment. The Consultant shall complete any task orders in progress as of the expiration date of this agreement and the term will extend until the work is completed or earlier terminated by the Manager. The term of this agreement may be extended for one additional year at the City's sole discretion by written amendment.

4.02 Termination.

- (a) Nothing herein shall be construed as giving the Consultant the right to perform the services contemplated under this Agreement beyond the time when its services become unsatisfactory to the Manager.
- (b) The Manager may terminate this Agreement for cause at any time if the Consultant's services become unsatisfactory, in the sole discretion of the Manager. The City shall have the sole discretion to permit the 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 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 Consultant shall be liable to the City for all reasonable cost in excess of what the City would have paid the 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 Consultant, which notice shall state the date of cancellation and termination.
- (e) If the Consultant's services are terminated, postponed or revised, or if the Consultant shall be discharged before all the work and services contemplated have been completed, or if the task is, for any reason, stopped or discontinued, the 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 documents relating to the work completed or partially completed shall be delivered by the 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 Consultant shall cooperate in all respects with the City. Such cooperation shall include, but not be limited to, assisting the City during a transition to another Consultant, if applicable.

SECTION 5 – COMPLIANCE WITH M/WBE REQUIREMENTS

5.01 This Agreement is subject to Article III, Divisions 1 and 3 of Chapter 28, Denver Revised Municipal Code (D.R.M.C.), designated as Sections 28-31 to 28-36 and 28-52 to 28-90 (the “M/WBE Ordinance”) and any Rules or Regulations promulgated pursuant thereto. The 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 **17%**.

- (a) Under § 28-72 D.R.M.C., the 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 Consultant acknowledges that:
 - (1) It must establish and maintain records and submit regular reports, as required, which will allow the City to assess progress in achieving the M/WBE participation goal.
 - (2) If change orders or any other contract modifications are issued under the Agreement, the Consultant shall have a continuing obligation to immediately inform DSBO in writing of any agreed upon increase or decrease in the scope of work of such contract, upon any of the bases discussed in § 28-73, D.R.M.C., regardless of whether such increase or decrease in scope of work has been reduced to writing at the time of notification.
 - (3) If change orders or other contract modifications are issued under the contract, that include an increase in scope of work of this Agreement, whether by amendment, change order, force account or otherwise which increases the dollar value of the contract, whether or not such change is within the scope of work designated for performance by an M/WBE at the time of contract award, such change orders or contract modification shall be immediately submitted to DSBO for notification purposes. Those amendments, change orders, force accounts or other contract modifications that involve a changed scope of work that cannot be performed by existing project subconsultants or by the 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 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 Consultant must show each element of modified good faith set out in § 28-75(c) D.R.M.C. The Consultant shall supply to the director the documentation described in § 28-75-(c) D.R.M.C. with respect to the increased dollar value of the contract.

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

SECTION 6 – GENERAL PROVISIONS

6.01 City's Responsibilities.

- (a) The City shall provide available information regarding its requirements for each task, including related budgetary information, and shall cooperate fully with the Consultant at all times. However, the City does not guarantee the accuracy of any such information and assumes no liability therefore. The Consultant shall notify City in writing of any information or requirements provided by the City which the Consultant believes to be inaccurate or inappropriate to the design or construction of the task.
- (b) If the City observes or otherwise becomes aware of any fault or defect in the task or non-conformance with Contract Documents, it shall give prompt notice thereof to Consultant.

6.02 Ownership of Documents. Engineering documents and deliverables, and all data used in the development of the same, including the results of any tests, surveys or inspections at each 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 Consultant pursuant to this Agreement, in preliminary and final forms and on any media whatsoever (collectively, the "Documents"), whether the task for which the Documents were created is executed or not. The Consultant shall identify and disclose, as requested, all such Documents to the City.

- (a) 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 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.
- (b) The 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.
- (c) The 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.
- (d) The Consultant shall be permitted to retain reproducible copies of all of the Documents for their 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.

- (e) If the City reuses Design Documents prepared by the Consultant other than for their intended use or at a new location without the Consultant's approval, the City will have no claim against the Consultant arising out of any alleged defects, deficiencies or flaws in the Documents.

6.03 Taxes and Licenses. The Consultant shall promptly pay, when they are due, any taxes, license 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 Consultant shall furnish the Manager, 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 Consultant shall promptly pay all owed bills, debts and obligations it incurs performing work under this Agreement and shall not cause 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.

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

6.05 Assignment and Subcontracting. The City is not obligated or liable under this Agreement to any party other than the Consultant named herein. The 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 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 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 Consultant named herein shall in any and all events be and remain responsible to the City according to the terms of this Agreement.

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

6.07 Insurance.

- (a) General Conditions. Consultant agrees to secure, at or before the time of execution of this Agreement, the following insurance covering all operations, goods or services provided pursuant to this Agreement. Consultant shall keep the required insurance coverage in force at all times during the term of the Agreement, or any extension thereof,

during any warranty period, and for three (3) years after termination of the Agreement. The required insurance shall be underwritten by an insurer licensed or authorized to do business in Colorado and rated by A.M. Best Company as “A-”VIII or better. Each policy shall contain a valid provision or endorsement requiring notification to the City in the event any of the required policies be canceled or non-renewed before the expiration date thereof. Such written notice shall be sent to the parties identified in the Notices section of this Agreement. Such notice shall reference the City contract number listed on the signature page of this Agreement. Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal unless due to non-payment of premiums for which notice shall be sent ten (10) days prior. If such written notice is unavailable from the insurer, Consultant shall provide written notice of cancellation, non-renewal and any reduction in coverage to the parties identified in the Notices section by certified mail, return receipt requested within three (3) business days of such notice by its insurer(s) and referencing the City’s contract number. If any policy is in excess of a deductible or self-insured retention, the City must be notified by the Consultant. Consultant shall be responsible for the payment of any deductible or self-insured retention. The insurance coverages specified in this Agreement are the minimum requirements, and these requirements do not lessen or limit the liability of the Consultant. The Consultant shall maintain, at its own expense, any additional kinds or amounts of insurance that it may deem necessary to cover its obligations and liabilities under this Agreement.

- (b) **Proof of Insurance.** Consultant shall provide a copy of this Agreement to its insurance agent or broker. Consultant may not commence services or work relating to the Agreement prior to placement of coverages required under this Agreement. Consultant certifies that the certificate of insurance attached as **Exhibit D**, preferably an ACORD certificate, complies with all insurance requirements of this Agreement. The City requests that the City’s contract number be referenced on the Certificate. The City’s acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Consultant’s breach of this Agreement or of any of the City’s rights or remedies under this Agreement. The City’s Risk Management Office may 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), Consultant and subcontractor’s insurer(s) shall include the City and County of Denver, its elected and appointed officials, employees and volunteers as additional insured.
- (d) **Waiver of Subrogation.** For all coverages required under this Agreement, with the exception of Professional Liability - if required, Consultant’s insurer shall waive subrogation rights against the City.
- (e) **Subcontractors and Subconsultants.** All subcontractors and subconsultants (including independent contractors, suppliers or other entities providing goods or services required by this Agreement) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of the Consultant. Consultant shall include all such subcontractors as additional insured under its policies (with the exception of Workers’ Compensation) or shall ensure that all such subcontractors and subconsultants maintain the required coverages. Consultant agrees to provide proof of insurance for all such subcontractors and subconsultants upon request by the City.

- (f) Workers' Compensation/Employer's Liability Insurance. Consultant shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 per occurrence for each bodily injury claim, \$100,000 per occurrence for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Consultant expressly represents to the City, as a material representation upon which the City is relying in entering into this Agreement, that none of the Consultant's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Agreement, and that any such rejections previously effected, have been revoked as of the date Consultant executes this Agreement.
- (g) Commercial General Liability. Consultant shall maintain a Commercial General Liability insurance policy with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate.
- (h) Business Automobile Liability. Consultant shall maintain Business Automobile Liability with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-owned vehicles used in performing services under this Agreement.
- (i) Professional Liability (Errors & Omissions). Consultant shall maintain limits of \$1,000,000 per claim and \$1,000,000 policy aggregate limit.
- (j) Additional Provisions.
 - (1) For Commercial General Liability, the policies 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.
 - (2) 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.
 - (3) Consultant shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Consultant will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

6.08 Defense and Indemnification.

- (a) To the fullest extent permitted by law, the Consultant agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities, claims, judgments, suits or demands for damages to

persons or property arising out of, resulting from, or related to the work performed under this Agreement that are attributable to the negligence or fault of the Consultant or the Consultant's agents, representatives, subcontractors, or suppliers ("Claims"). This indemnity shall be interpreted in the broadest possible manner consistent with the applicable law to indemnify the City.

- (b) Consultant's obligation to defend and indemnify may be determined after Consultant's liability or fault has been determined by adjudication, alternative dispute resolution, or otherwise resolved by mutual agreement between the parties. Consultant's duty to defend and indemnify City shall relate back to the time written notice of the Claim is first provided to City regardless of whether suit has been filed and even if Consultant is not named as a Defendant.
- (c) Consultant will defend any and all Claims which may be brought or threatened against City and will pay on behalf of City any expenses incurred by reason of such Claims including, but not limited to, court costs and attorney fees incurred in defending and investigating such Claims or seeking to enforce this indemnity obligation. Such payments on behalf of City shall be in addition to any other legal remedies available to City and shall not be considered City's exclusive remedy.
- (d) Insurance coverage requirements specified in this Agreement shall in no way lessen or limit the liability of the Consultant under the terms of this indemnification obligation. The Consultant shall obtain, at its own expense, any additional insurance that it deems necessary for the City's protection.
- (e) This defense and indemnification obligation shall survive the expiration or termination of this Agreement.

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

6.10 Contract Documents; Order of Precedence. This Agreement consists of Sections 1 through 6, which precede the signature page, and the following exhibits, which are incorporated herein and made a part hereof by reference:

Exhibit A	Consultant's Scope of Work
Exhibit B	Consultant's Rates & Reimbursable Expenses
Exhibit C	Consultant's Key Personnel
Exhibit D	ACORD Insurance Certificate

In the event of an irreconcilable conflict between a provision of Sections 1 through 6 and the listed exhibits, 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, in the following order:

- Sections 1 through 6
- Exhibit A
- Exhibit B
- Exhibit D
- Exhibit C

6.11 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 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.

6.12 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.

6.13 Conflict of Interest.

- (a) The Consultant has a continuing duty to disclose, in writing, any actual or potential conflicts of interest including work the Consultant is performing or anticipates performing for other entities on the same or interrelated tasks. In the event that Consultant fails to disclose in writing actual or potential conflicts, the Manager, in his sole discretion, may terminate the applicable task order or the Agreement.
- (b) 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 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.
- (c) The 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 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 Consultant by placing the Consultant's own interests, or the interests of any party with whom the 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 Consultant written notice which describes the conflict. The 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.
- (d) Consultants shall not use City resources for non-City business purposes. City resources include computers, computer access, telephones, email accounts, copiers, printers, office space and other City facilities and equipment. If, as a result of access to City resources or as a result of Consultant providing services pursuant to the Agreement, Consultant obtains information about potential City contracts before that information is publicly available, Consultant shall notify the City in writing. The City, in its sole discretion, will determine if Consultant obtained an unfair advantage and is therefore disqualified from proposing or bidding.

6.14 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 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 Consultant receiving services or benefits under this Agreement shall be deemed to be an incidental beneficiary only.

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

6.16 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.

6.17 Proprietary or Confidential Information.

- (a) **City Information.** The Consultant acknowledges and accepts that, in performance of its work under the terms of this Agreement, the 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 Consultant agrees that all information provided or otherwise disclosed by the City to the Consultant be held in confidence and used only in the performance of its obligations under this Agreement. The Consultant shall exercise the same standard of care to protect such information as a reasonably prudent Consultant would to protect its own proprietary or confidential data. "Proprietary Data" shall include, but not be limited to, 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 Consultant by the City. Such Proprietary Data may be in hardcopy, printed, digital or electronic format.
- (b) **Consultant's Information.** The Consultant understands 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 Consultant of such request in order to give the 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 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 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 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.

6.18 Use, Possession or Sale of Alcohol or Drugs. The 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 Consultant from City facilities or participating in City operations.

6.19 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.

6.20 Disputes. All disputes between the City and 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 Manager.

6.21 Waiver of C.R.S. 13-20-802, et seq. The 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 any project under this Agreement.

6.22 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 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."

6.23 Advertising and Public Disclosure. The 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 Manager, 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 Manager 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 Manager, City Council or the Auditor.

6.24 Legal Authority. 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 Consultant represents and warrants that he has been fully authorized by Consultant to execute this Agreement on behalf of Consultant and to validly and legally bind 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 Consultant or the person signing the Agreement to enter into this Agreement.

6.25 Notices. Notices, concerning the termination of this Contract, notices of alleged or actual violations of the terms or conditions of this Contract, and other notices of similar importance, including changes to the person to be notified or their addresses, shall be made:

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

with a copy to: Assistant City Attorney
201 West Colfax Avenue, Dept. 1207
Denver, Colorado 80202

to the Consultant:

Jacobs Engineering Group, Inc.
707 17th Street, Suite 2300
Denver, Colorado 80202

All notices shall be in writing and provided by either personal delivery or certified mail, return receipt requested. All notices are effective upon personal delivery or upon placing the notice in the United States mail. The addresses may be changed by the Parties by written notice.

6.26 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.

6.27 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.

6.28 Electronic Signatures. 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.

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Contract Control Number:

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

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By _____


By _____

By _____



Contract Control Number: PWADM-201631687-00

Contractor Name: JACOBS ENGINEERING GROUP INC

By: 

Name: Reza Akhavan
(please print)

Title: Operations Manager
(please print)

ATTEST: [if required]

By: N/A

Name: _____
(please print)

Title: _____
(please print)



Exhibit A

Scope of Work

To provide comprehensive engineering services to support the various capital projects for the Engineering Division. Also to supplement the City's Design, Planning and/or Construction Engineering forces as needed. In this respect, the Consultant shall supply resources in sufficient strength to meet the requirements of the City in the technical areas needed. Detailed scope of work will be done by individual Task Order.

Exhibit B

**Attachment 1
FIRM RESPONSIBILITIES**

Prime Consultant: **JACOBS**

SERVICES PROVIDED	NAME OF FIRM	PERCENT PARTICIPATION %	M/WBE?
Overall Contract Management; Quality Control; Task Order Management; Structural & Bridge Design; Roadway, Alley, Sidewalk & Trail Design; Utility Design/Permitting/Coordination; Electrical & Lighting Engineering; Railroad Crossing Design; Railroad Coordination & Permitting; Transit Station Infrastructure; Landscape/Urban Design; Graphics Design; Cost Estimation; Traffic Forecasting; Traffic Operation Delay Analysis; Traffic Control Device Inventory; Signal System Management; Traffic Signal System Communications/Design; Traffic & Safety Analysis; ITS Infrastructure/Traffic Management Center Design; Performance Measurement; Multimodal; Traffic Impact Analysis; History Data Collection; Hydrological Analysis; Urban Pipe Design; Water Quality/Erosion Control; Hydrology; River & Pond Design; Concept & Basin Level Plans; Environmental Conditions;Wetlands;Environmental Documents; Environmental Survey & Clearance Reports; Environmental Impact Studies; Regulatory Permitting; Material Management Plans; Phase I & II ESAs; Survey/Construction Staking; Construction Engineering/Project Management Assistance; Project Management Services; Construction Design Support; Inspection; Claim & Schedule Analysis; Constructability Reviews; Architectural Design; Mechanical Engineering; Building Commissioning; Electrical/Plumbing Design; Fire Alarm/Protection; ADA Review & Compliance; Data & Telecommunication; Roofing; Site & Facility Master Planning; LEED Consulting; Right of Entry; Land Surveys; Utility Survey & Locates; Plats, Subdivisions & Benchmarks; ROW Plan Preparation; ROW/Easement Acquisition; Program Management; Public Involvement/Agency Coordination; Economic Forecasting; Database Program Development/GIS; Alternate Project Delivery Methods; Bridge Inspection & Management; Project Scheduling; Clerical & Contract Administration; Special District Creation & Management; Asset Management/ Data Collection; CAD/Drafting/Programming; Parking, Traffic Studies; Plans, Specs & Cost Estimates Checking/Quality Control; Grant Application Support; Public Works Policy Support	Jacobs Engineering Group Inc.	75.0%	--
Mechanical Engineering	Three Sixty Engineering, Inc.	1.0	M/WBE
Data Collection	All Traffic Data Services, Inc.	1.0	M/WBE
Architectural Design	Anderson Hallas Architects, PC	0.5	--
Irrigation	Aqua Engineering, Inc.	0.5	--
Roadway, Alley, Sidewalk & Trail Design; Utility Design/Permitting/Coordination; Cost Estimation & Review; Agency Coordination Support; CAD/Drafting; Construction Design Support; Project Scheduling; Railroad Crossing Design	BDG Engineering	1.5	--
Potholing	BT Construction, Inc.	0.5	--
Public Involvement/Agency Coordination; Special District Creation	CIG Public Relations	2.0	M/WBE
Lighting	Clanton and Associates, Inc.	2.0	M/WBE
Task Order Management; Program Management; Alternative Delivery Methods	Coggins Consultants, LLC	0.5	--
Bridge Inspection; Bridge Design	Collins Engineers, Inc.	0.25	--

SERVICES PROVIDED	NAME OF FIRM	PERCENT PARTICIPATION %	M/WBE?
Utility Locates	Diversified Underground Inc.	1.0	M/WBE
Public Involvement/Agency Coordination	GBSM	1.0	--
Geotechnical Engineering/Pavement Design; Materials Testing	Geocal, Inc.	2.0	M/WBE
Task Order Management; Landscape Architecture/Urban Design; Site & Facility Master Planning; Multimodal	Livable Cities Studio	0.5	--
Landscape Architecture/Urban Design	Mundus Bishop Design, Inc.	1.5	M/WBE
Multimodal; Public Involvement/Agency Coordination; Traffic Studies	OV Consulting	1.5	M/WBE
Review Environmental Conditions; Environmental Survey & Clearance Reports; Phase I&II ESAs; Environmental Documents; Material Management Plans	Pinyon Environmental, Inc.	1.0	M/WBE
Electrical Engineering	PK Electrical, Inc.	1.0	M/WBE
Historical Data Collection; Hydrological Analysis; Urban Pipe Design; Water Quality Analysis & Erosion Control; River & Pond Design; Master Plans; Concept & Basin Level Plans	Respec	1.0	--
Environmental Survey & Clearance Reports	Rocky Mountain Paleo Solutions	1.0	--
Task Order Management; Multimodal	Toole Design Group, LLC	1.0	M/WBE
Right of Way/Easement Acquisition	Transportation Resource Services, Inc.	0.25	--
Parking Studies	Walker Parking Consultants	0.25	--
Landscape Architecture/Urban Design	Wenk Associates, Inc.	0.25	--
Geotechnical Engineering/Pavement Design; Materials Testing	Yeh & Associates, Inc.	2.0	M/WBE
<i>M/WBE Total</i>		17%	
<i>Other Subconsultants</i>		8%	

TOTAL 100%

**ATTACHMENT 2
CONSULTANT TEAM MEMBERS**



PRIME CONSULTANT: Jacobs Engineering Group 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	Assures commitment of resources. Client satisfaction and issue resolution if needed.	\$282.00
Unit Manager	Assure that qualified staff at the correct classification are assigned to the tasks.	\$190.00
Senior Program Manager	Overall management of a program including cost, schedule and quality control. Day-to-day client coordination. Task order management.	\$180.00
Program Manager IV		\$165.00
Senior Project Manager	Task management. Discipline lead. Staff supervision.	\$175.00
Project Manager III	Task management. Technical lead. Task quality control. Preparation and review of project documentation and submitted products.	\$150.00
Project Manager II		\$135.00
Project Manager		\$120.00
Senior Project Engineer	Task technical leads. Responsible for engineering design or analysis. Preparation of plan, specifications, reports and estimates. Data collection. Technical review or deliverables.	\$132.00
Project Engineer III		\$125.00
Project Engineer II		\$120.00
Project Engineer		\$110.00
Design Engineer	Preparation of plans, specifications, reports and estimates.	\$95.00
Engineer	Technical lead on project responsible for engineering design or analysis. Preparation of plans, specifications, reports, and estimates. Performs technical reviews of deliverables. (Level of classification varies with years of experience and complexity of responsibility).	\$85.00
Junior Engineer		\$75.00
Senior Designer	Preparation of plan, specifications, reports and estimates, under the direct supervision of a Professional Engineer.	\$102.00
Designer III		\$95.00
Designer II		\$82.00
Designer		\$65.00
Junior Designer		\$48.00
Technical Writer/Editor III	Document writing and editing.	\$123.00
Technical Writer/Editor II		\$105.00
Technical Writer/Editor		\$80.00
Senior Transportation Planner	Task technical planning leads. Responsible for planning tasks and analysis plus data collection. Report Preparation.	\$145.00
Transportation Planner III		\$110.00
Transportation Planner II		\$98.00
Transportation Planner		\$92.00
Junior Transportation Planner		\$70.00
Senior Environmental Scientist	Technical Task Leads. Responsible for the environmental/NEPA evaluation and documentations, data collection, plus report preparation.	\$130.00
Environmental Scientist III		\$116.00
Environmental Scientist II		\$105.00
Environmental Scientist		\$92.00
Environmental Field Technician		\$70.00

Title/Classification	Responsibilities	Rate/Hr.
Senior Landscape Architect	Task technical leads. Responsible for the design of landscaping and streetscape tasks. Data collection, report preparation.	\$135.00
Landscape Architect III		\$115.00
Landscape Architect II		\$90.00
Landscape Architect I		\$78.00
Junior Landscape Architect		\$70.00
CAD Technician VII	Preparation of CAD drawings.	\$154.00
CAD Technician VI		\$135.00
CAD Technician V		\$118.00
CAD Technician IV		\$96.00
CAD Technician III		\$88.00
CAD Technician II		\$68.00
CAD Technician I		\$53.00
GIS Technician IV	GIS database creation, modification, analysis and graphic preparation.	\$126.00
GIS Technician III		\$81.00
GIS Technician II		\$66.00
GIS Technician I		\$58.00
Director of Archtiectural Design	Responsible to work with Project Manager or Principal in developing project design requirements and solutions.	\$228.00
Director of Architectural Engineering	Responsible for developing engineering requirements and solution for projects and maintaining all aspects of engineering activities at the firm.	\$212.00
Director of Architectural Specifications	Responsible for developing specification requirements and solutions for projects.	\$136.00
Senior Architectural Program Manager	Responsible for managing multiple projects under a single client/ task. Works with Project Manager to develop project execution plans.	\$217.00
Architectural Program Manager	Responsible for managing multiple projects under a single client/ task. Works with Project Manager to develop project execution plans.	\$202.00
Architect VIII	Individual demonstrates high degree of creativity, foresight, and judgment in planning, organizing, and guiding extensive and/or unique architectural programs and activities.	\$224.00
Architect VII	Individual demonstrates creativity, foresight, and maturity in architectural judgment when anticipating and solving unprecedented architectural complexities, determining program objectives and requirements. Organizes programs and projects.	\$191.00
Architect VI	Plans, organizes, and supervises work of staff of architects and technicians. Researches and creates plans in areas of considerable scope and complexity.	\$145.00
Architect V	Performs more visible architectural work with responsibility for independent action and decision. Plans, directs, and supervises architectural aspects of report, design, or construction projects. Responsible for finished plans, specifications, or approval of materials and construction.	\$137.00
Architect IV	Fully competent architect in all conventional aspects of architecture. Performs work requiring independent judgment in evaluation, selection, and substantial adaptation/ modification of standard techniques, procedures, and criteria. Independently solves problems encountered.	\$108.00
Architect III	Independently evaluates, selects, and applies standard architectural techniques, procedures, and criteria using judgment for minor adaptation and modifications.	\$90.00

Title/Classification	Responsibilities	Rate/Hr.
Architect II	Developmental level performs routine architectural assignments under direct supervision. Works from designs of others, compiles data, performs design computations, makes quantity takeoffs and prepares estimates, prepares architectural plans and renderings.	\$63.00
Architect I	Performs elementary architectural assignments and works from designs of others, compiles data, performs elementary design computations, makes quantity takeoffs and prepares estimates, and prepares architectural plans/renderings.	\$59.00
Job Captain	Provides coordination of drafting required for bidding purposes and construction. Requires thorough knowledge of architectural drawing, detailing, building materials, building codes, and construction.	\$95.00
Architectural Project Manager III	Assists in administering all phases of projects through construction. Works with other project managers to develop project control procedures, communication protocol and project specific goals.	\$189.00
Architectural Project Manager II	Responsible for administering all phases of projects through construction. Primarily responsible for budgeting, scheduling, planning, design, specification, and working drawing on a given project.	\$178.00
Architectural Project Manager I	Assists in administering all phases of projects through construction.	\$141.00
Senior Architectural Drafter	Prepares design development and construction documents with guidance from Job Captain, Project Architect, or Team Leader.	\$92.00
Architectural Drafter III	Experienced draftsman that performs non-routine and complex drafting assignments requiring application of standardized drawing techniques.	\$77.00
Architectural Drafter II	Specialized drafting experience, copies sketches, layouts, and drawings prepared by others.	\$66.00
Architectural Drafter I	Basic drafting experience, copies sketches, layouts, and drawings prepared by others.	\$46.00
Interior Design V	Ability to develop functional requirements and project design criteria for wide variety of building types and design complexities. Requires substantial knowledge of design and planning principles, building and planning code requirements, specification preparation and organization, construction costs and methods, and contract preparation and negotiation.	\$106.00
Interior Design III	Substantial knowledge of construction document production. Ability to initiate technical research.	\$87.00
Interior Design II	Basic knowledge of programming and functional analysis as well as knowledge of space planning principles.	\$70.00
Interior Design I	Basic understanding of design and planning principles.	\$67.00
Interior Design Apprentice	Assists basic drawing preparation, model making, and assembly assignments.	\$47.00
Architectural Engineer 9/ Department Head	Provides overall supervision to Department to assure that technical, administrative, man-hour, and schedule targets of Department are met within framework of established corporate or organizational policy and in accordance with applicable professional standards.	\$239.00
Architectural Engineer 8	Negotiates critical and controversial issues with top-level engineers and officers of other organizations and companies. Individuals at this level demonstrate a high degree of creativity, foresight, and mature judgment in planning, organizing, and guiding extensive engineering programs and activities of outstanding novelty and/or importance.	\$228.00
Architectural Engineer 7	Solves unprecedented engineering complexities, determining program objectives and requirements, organizing programs and projects, and developing standards and guidelines for diverse engineering activities.	\$198.00

Title/Classification	Responsibilities	Rate/Hr.
Architectural Engineer 6	Plans and develops engineering projects concerned with unique or controversial complexities which have important impact on major company programs. This involves exploration of subject area, definition of scope, selection of areas for investigation, and development of novel concepts.	\$171.00
Architectural Engineer 5	Makes decisions independently regarding engineering complexities and methods. Requires use of advanced techniques and modification and extension of theories, precepts, and practices in individual's field.	\$151.00
Architectural Engineer 4	Plans and conducts work requiring judgment in independent evaluation, selection, and substantial adaptation/modification of standard techniques, procedures, and criteria. Devises new solutions to problems encountered.	\$116.00
Architectural Engineer 3	Independently evaluates, selects, and applies standard engineering techniques and procedures while using judgment when making minor adaptations and modifications.	\$98.00
Architectural Engineer 2	Using prescribed methods, performs specific and limited segments of an experienced engineer's broader assignment.	\$86.00
Architectural Engineer 1	Performs a variety of routine tasks, which provide experience and familiarity with engineering staff, methods, practices, and programs.	\$75.00
Manager of Construction V	Management of construction projects and tasks.	\$250.00
Construction Manager	Management of construction tasks.	\$172.00
Construction Engineer	Construction engineering and management.	\$122.00
Resident Engineer	On-site construction management.	\$98.00
Construction Inspector V	Construction inspecting.	\$120.00
Construction Inspector III		\$88.00
Construction Inspector II		\$75.00
Construction Inspector		\$60.00
Junior Construction Inspector		\$48.00
Senior Graphic Designer	Graphic design.	\$107.00
Graphic Designer		\$60.00
Junior Graphic Designer		\$45.00
Scheduler	Project scheduling.	\$155.00
Project Controls Manager	Project accounting.	\$155.00
Senior Project Controls		\$165.00
Project Controls III		\$150.00
Project Controls II		\$135.00
Project Controls I		\$120.00
Project Coordinator III	Project set-up, maintenance and close-out.	\$102.00
Project Coordinator II		\$87.00
Project Coordinator I		\$78.00
Purchasing Manager	Responsible for the management of the procurement functions within the company and the supervision of all purchasing staff .	\$131.00
Purchasing Agent	Responsible for the selection of vendors and the purchase of materials and equipment. Maintains and controls a system of records relative to purchase orders and their approval.	\$98.00
Manager, Word Processing	Responsible for the word processing production and/or technical-editing services within the company. Directs the supervision and training of word-processing staff .	\$80.00

Title/Classification	Responsibilities	Rate/Hr.
Supervisor, Word Processing	Provides the daily staff supervision and training and is responsible for scheduling and coordinating workflow on a priority basis.	\$70.00
Senior Word Processing Operator	Operates with high proficiency and skill for the various automated word-processing equipment.	\$64.00
Project Accountant	Coordinates the project accounting system within the company and works with technical staff to ensure compliance with contractual requirements.	\$106.00
Accounting Clerk	Routine bookkeeping work such as checking, verifying, and recording journal entries, accounts payable vouchers, or other standard accounting procedures of a recurring nature.	\$89.00
Senior Administrative Assistant	Administrative assistance. Typing.	\$72.00
Administrative Assistant II		\$62.00
Administrative Assistant I		\$52.00
Intern	Assisting with engineering design and planning tasks.	\$38.00
Photogrammetrist III	Photogrammetry.	\$95.00
Photogrammetrist II		\$84.00
Photogrammetrist I		\$66.00
Land Surveyor V	Direct the field and office survey tasks.	\$157.00
Land Surveyor IV		\$126.00
Land Surveyor III		\$98.00
Land Surveyor II		\$87.00
Land Surveyor I		\$72.00
Party Chief III	Field survey direction.	\$98.00
Party Chief II		\$73.00
Party Chief I		\$61.00
Instrument Operator II	Field survey assistance.	\$48.00
Instrument Operator I		\$39.00
Utility Investigator VI	Utility investigation.	\$145.00
Utility Investigator V		\$127.00
Utility Investigator IV		\$86.00
Utility Investigator III		\$76.00
Utility Investigator II		\$58.00
Utility Investigator I		\$51.00

Multiplier, which when multiplied by the average direct labor rate yields the above hourly billing rate: **2.4**.

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.

REIMBURSABLE EXPENSESPRIME CONSULTANT: Jacobs Engineering Group Inc.

Actual Costs

<u>Item</u>	<u>Charge Rate</u>
Survey Grade GPS	\$125/day
Robotic Total Station	\$150/day
Digital Level	\$60/day
Terrestrial Laser Scanner	\$1200/day
Telescope Tripod	\$35/day
Laser Scanning Targets	\$2/each
Gas Jack Hammer	\$70/day
Echosounder	\$75/day
Ground Penetrating Radar (GPR)	\$250/day
Radio Frequency Induction (RFI)	\$50/day
Electromagnetic Profiler (EM)	\$150/day
Locator Beacon (Sonde)	\$30/day
Confined Space Equipment	\$150/day
Trimble Geo 7X GPS	\$110/day
Trimble Geo XH GPS	\$90/day
Trimble Geo XT GPS	\$65/day
Photogrammetric Workstation	\$5/hour
Aerial Photography / LiDAR	At cost
External Hard Drives	At cost
Equipment Rental (as needed)	At cost
Subconsultants	At cost

**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Three Sixty Engineering, 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).

Title/Classification	Responsibilities	Rate/Hr.
President/Principal	Principal-In-Charge. Engineer of Record. Project Management. Quality assurance.	\$150.00
Project Manager	Project Management. Technical Lead. Quality Control. Task management. Technical Lead. Task Quality control. Review of project documentation and submitted products.	\$115.00
Project Engineer II	Design Development. Research. Technical knowledge.	\$100.00
Project Engineer I	Design Development. Calculations. Research.	\$85.00
Administration	Specifications. Packaging. Administrative	\$70.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.1 .

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.

ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS



Firm Name: All Traffic Data Services, 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).

Title/Classification	Responsibilities	Rate/Hr.
President	Contract review and data processing	\$75.00
Manager	Review data and process deliverables	\$62.50
Technician	All field work to collect data for assigned tasks	\$50.00

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

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.

**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Anderson Hallas Architects, PC

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).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Responsible for client presentations, maintaining design focus on client goals and objectives throughout the project and bears ultimate responsibility for the quality of the team's work.	\$165.00
Project Manager	Task management. Technical Lead. Task Quality control. Preparation and review of project documentation and submitted products.	\$130.00
Project Architect	Participates in programming and design and lead the documentation effort. Handle materials research, specification compilation.	\$105.00
Job Captain	Participates in programming, design and documentation effort. Supports the Project Architect.	\$100.00
Draftsperson I	Handles as-builts, CAD drafting, BIM and production of construction documentation.	\$95.00
Draftsperson II	Supports team drafting effort.	\$100.00
Draftsperson III	Supports team drafting effort.	\$55.00
Admin	Handles contract administration, billing, payments.	\$100.00
Clerical	Supports admin function, provides office-wide admin support.	\$55.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.9.

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.
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- (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.

ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS



Firm Name: Aqua Engineering, 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).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Technical support, Project review (QA/QC), Seal project documents	\$165.00
Project Manager	Main point of contact, Monitor budget, Manage staff, Technical support	\$130.00
Project Engineer (PE)	Project design, Calculations, Coordination, Specifications, CAD support	\$100.00
Project Engineer (EIT)	Project design, Calculations, Coordination, Specifications, CAD support	\$75.00
CAD/IT Manager	CAD drafting, IT	\$100.00
Administrative	Project accounting	\$85.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 1.0.

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:

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- (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.

**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: BDG Engineering

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).

Title/Classification	Responsibilities	Rate/Hr.
Senior Engineer	Technical Lead Engineer. Project task manager. Task Quality control. Preparation and review of project documentation and submitted products.	\$148.18
Senior Designer	Lead project designer. Civil 3D lead. Infrastructure asset manager and visualization modeling lead.	\$119.93
Engineer II	Project support engineer. Civil 3D modeling support. Quantity calculations and cost estimating. Custom civil programming.	\$104.74
Senior Cadd Tech.	Autocad drawing support. Visual aid/public involvement drawing preparation and revisions.	\$102.07
Cadd Tech. I	Autocad drawing support.	\$55.44

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.5518.

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:

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: BT Construction, 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).

Title/Classification	Responsibilities	Rate/Hr.
Vice President	As VP of Field Operations and General Superintendent, VP provides leadership to all field employees and manages projects schedules, manpower and budgets.	\$110.00
Project Controls	Project environmental compliance including documentation, permitting, and cost control. Coordination of project documentation and project management assistance.	\$90.00
Field Supervisor	Responsible for directing daily crews activities and schedules safely and efficiently, accountable for production schedule and budgetary goals	\$80.00
Traffic Control Supervisor	Responsible for coordinating and producing a traffic control plan to submit to the City as needed. Set up and work the traffic control on the jobsite scope of work.	\$80.00
Vac Truck Operator	Operation of Hydro Vac Truck for investigation of utilities.	\$65.00
Vac Truck Laborer	Assist operation of the Hydro Vac Truck	\$55.00

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

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: CIG Public Relations

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).

Title/Classification	Responsibilities	Rate/Hr.
Public Involvement Manager	Develops outreach plans, establishes appropriate outreach strategies and identifies audience-specific outreach tools. Also interacts with stakeholders to assure information is appropriate and effective.	\$141.00

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

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ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS

Firm Name: Clanton and Associates, 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).

Title/Classification	Responsibilities	Rate/Hr.
Senior Principal	Professional Engineer / QA/QC	\$260.00
Principal	Professional Engineer / Project Management / Day to Day Contact	\$180.00
Senior Engineer	Electrical Design and Engineering	\$115.00
Senior Designer	Lighting Design / Project Management	\$115.00
Engineer	Project Support	\$95.00
Designer	Project Support	\$95.00
Intern	Project Support	\$80.00
Production Manager	CADD Production / Deliverables Management	\$115.00
Senior CADD Technician	CADD Production	\$95.00
CADD Technician	CADD Production	\$70.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.479.

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Coggins Consultants LLC

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).

Title/Classification	Responsibilities	Rate/Hr.
Senior Program Implementation Manager	Program Management, Project Management, Alternative Project Delivery, City and County of Denver Liaison	\$195.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 1.0.

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Collins Engineers, 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).

Title/Classification	Responsibilities	Rate/Hr.
Regional Manager	Task management. Discipline Lead. Staff supervision.	\$185.00
Senior Project Manager	Task management, discipline lead, staff supervision.	\$150.00
Team Leader/Engineer II	Project management, team leader, project quality control, structural design engineer, engineer-inspector, preparation and review of reports, documentation, and submittals.	\$115.00
Engineer I	Structural design engineer-inspector, preparation and review of reports, documentation, and submittals.	\$95.00

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

* This is not always consistent per employee. The above rates are based on title/classification.

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Diversified Underground, 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).

Title/Classification	Responsibilities	Rate/Hr.
Utility Locator	Locate Utilities, Mark correctly in Field and on Sketch	\$20.00
Utility Potholer	Daylight Utilities, Mark Correctly in Field and on Sketch	\$20.00
Utility Management	Ensure our crews are working safely, efficiently and correctly.	\$25.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 1.0 .

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ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS



Firm Name: GBSM

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).

Title/Classification	Responsibilities	Rate/Hr.
President/Principal	Lead strategist	\$275.00
Senior Associate	Project management and execution	\$210.00
Associate	Project execution, graphic design	\$145.00
Client Support	Project maintenance and administration	\$75.00

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

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Geocal, 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).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Commits resources, negotiates contract, provides quality review	\$ 206.85
Project Manager/Senior Engineer	Manage activities, provide technical guidance & review, track schedule and budget, assist with report and recommendations	\$ 148.26
Project Engineer	Review field work, conduct analyses, check lab calculations, write report	\$ 99.81
Staff Engineer	Assist with data reduction, Cad for boring locations, logs, and plotting data	\$ 81.54
Field Geologist or Engineer	Logs the subsurface borings, conducts site reconnaissance, collects samples and stages the samples for review	\$ 77.10
Laboratory Manager	Oversees lab operations, calibration of equipment, laboratory technique, calculations of results	\$ 77.10
Laboratory Technician	Conduct laboratory testing for engineering properties	\$ 71.16
Materials Technician	Conducts construction materials testing	\$ 79.62
Operations Manager	Oversees field testing services, equipment calibration, procedures	\$ 106.93
Construction Engineer/Manager	Provides construction management including schedule review, pay applications, contractor progress, RFI submittal reviews, punch lists, quantities, inspections, and other construction management duties	\$ 163.95
Construction Observation	Provides construction observations to evaluate conformance with the plans and specifications, including quantity measurements	\$ 90.11
Cad Technician	Does computer aided design for boring logs, geologic sheets, other report items	\$ 56.78
Clerical	Assists with typing, report distribution, filing	\$ 56.78

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.9040.

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REIMBURSABLE EXPENSES

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



Actual Costs

Item	Charge Rate
Subcontract Drilling	(at cost and project specific)
Auger (4 inch solid)	\$155/hour or at cost (determined per task order)
Auger (hollow-stem)	\$165/hour or at cost (determined per task order)
Bedrock Coring	at cost (determined per task order)
Consumables (backfill, grout, PVC, pavement patch)	at cost
Utility clearance (project specific)	at cost
Traffic Control (requirements are project specific)	all items at cost
Structural Steel (weld/bolt inspections, x-ray – project specific)	at cost
Other Specialty Lab or Field Testing (project specific)	at cost

Lab Testing Fees found on following page.

SOILS LABORATORY TESTING

Swell/Consolidation (ASTM D 4546), per test	\$ 100.00
Swell/Consolidation (remolded, ASTM 4546), per test	\$ 130.00
One Dimension Time Consolidation (ASTM D 2435), per test	\$ 800.00
Gradation Analysis to the No. 200 sieve (ASTM D 422), per test	\$ 90.00
Percent minus No. 200 sieve (ASTM D 1140), per test	\$ 70.00
Hydrometer Analysis (ASTM D 422), per test	\$ 120.00
Plastic and Liquid Limits (ASTM D 4318), per sample	\$ 85.00
Natural Moisture Content & Dry Unit Weight (ASTM D 2216)	\$ 45.00
Specific Gravity (ASTM D 854), per test	\$ 100.00
Permeability Test - Undisturbed (ASTM D 2434), per sample - triaxial	\$ 500.00
Permeability Test - Remolded (ASTM D 2434), per sample - triaxial	\$ 500.00
Unconfined Compression on trimmed rock core, per test	\$ 150.00
Unconfined Compression (ASTM D 2166), soil, per test	\$ 95.00
Triaxial Testing (ASTM D 2850):	
Unconsolidated - Undrained, per point (Quick Test)	\$ 300.00
Consolidated - undrained, per point (R-Test)	\$ 350.00
Consolidated - drained, per point (S-Test)	\$ 450.00
Direct Shear Tests (ASTM D 3080)	
Consolidated - Undrained, 3-point	\$ 400.00
Cohesive Soils, 20% or greater fines, 3-point test	\$ 900.00
Chloride	\$ 50.00
Sulfide Concentration	\$ 50.00
California Bearing Ratio (ASTM D 1883), 3-points, Proctor separate	\$ 500.00
Resistance R-Value (ASTM D 2844), 3-points	\$ 450.00
Water Soluble Sulfates, per sample	\$ 50.00
pH Level	\$ 50.00
Standard Proctor (ASTM D 698/AASHTO T-99), per sample	\$ 150.00
Modified Proctor (ASTM D 1557/AASHTO T-180), per sample	\$ 180.00
Check Point on Modified or Standard Proctor, per sample	\$ 65.00
Relative Density (ASTM D 4253 and 4254), per sample	\$ 275.00
Crumb Test (ASTM D 6572)	\$ 30.00
Unconfined Compressive Strength - Chemically Treated Soils	\$ 150.00
Moisture/Density Relationship - Chemically Treated Soils	\$ 180.00
Electrical Resistivity (laboratory)	\$ 50.00

AGGREGATE LABORATORY TESTING

Sieve Analysis	
ASTM C 136 Coarse or Fine Aggregate per test	\$ 90.00
ASTM C 117 Percent Passing #200 sieve	\$ 70.00
Large Pit Run Samples cost per test	\$ 120.00
Los Angeles Abrasion Test each	
ASTM C 131 (1 1/2" maximum)	\$ 275.00
ASTM C 535 (3" maximum)	\$ 275.00
Sodium Sulfate Soundness, ASTM C 88	\$ 325.00

Aggregate Testing (continued)

Magnesium Sulfate Soundness (5 cycles), per test	
ASTM C 88 Coarse or Fine Aggregate	\$ 350.00
Soundness Test for Filter Rock (20 cycles), per test	\$ 350.00
Specific Gravity ASTM C 127/C 128, per test	\$ 100.00
Organic Impurities: ASTM C 40 Fine Aggregate	\$ 55.00
Friable Particles: ASTM C 142	\$ 60.00
Lightweight Pieces: ASTM C 123	\$ 60.00
Soft Particles: ASTM C 851 Coarse Aggregate	\$ 50.00
Sand Equivalent: AASHTO T-17/ASTM D 2419	\$ 85.00
Fractured Faces CP-45 Coarse Aggregate	\$ 60.00
Flat and Elongated Particles Coarse Aggregate	\$ 60.00
Moisture Content ASTM C 566	\$ 30.00
Effective Size and Uniformity Coefficient	\$ 25.00
Void Content of fine aggregate	\$ 55.00
Micro-Deval Abrasion	\$ 250.00
Alkali Reactivity ASTM C1260	\$ 500.00

CONCRETE LABORATORY TESTING

Compression Tests, cost per cylinder	\$ 35.00
Ship-in Cylinders (made by others), per cylinder	\$ 50.00
Flexural Test (Beams), cost per beam	\$ 50.00
Maturity meter, cost per probe	\$ 95.00
Modulus of Elasticity Test ASTM C 469	\$ 175.00
Setting Time Test ASTM C 403	\$ 200.00
Shrinkage Test ASTM C 157, set of 3	\$ 250.00
Concrete Mix Designs (aggregate tests separate)	
6 Cylinders (full design)	\$ 2,500.00
6 Beams (full design)	\$ 2,900.00
Concrete Coring (per hour):	\$ 100.00
Trimming, Length, Unit Weight, Compression, each	\$ 150.00
Special Laboratory Tests, per hour	\$ 95.00
Concrete steel pull test (tie-bars), per hour	\$ 95.00

ASPHALT LABORATORY TESTING

Superpave Mix Design (4 pts, aggregate tests separate)	\$ 3,000.00
(includes Hveem stability, Rice, VMA, total voids)	
Superpave Volumetric Properties, Production Sample	\$ 450.00
(3 specimens, AC separate)	
Hveem Stability (with production samples tests)	\$ 175.00
Without production sample tests	\$ 325.00
Marshall Mix Design (4 points) includes bulk specific gravity, flow, stability, Rice	\$ 2,300.00
Marshall Properties (3 Specimens), ASTM D 6926 & 6927	\$ 400.00
Includes Unit Weight, Stability and Flow	
Maximum Theoretical Specific Gravity (Rice Value)	\$ 140.00
per test, ASTM D 2041, AASHTO T-209, CP-51	
Asphalt Content (ignition/nuclear) Calibration	\$ 500.00
AC Content w/ Ignition or Nuclear Oven, each	\$ 150.00
Asphalt Coring per hour	\$ 95.00
Bulk Density and Thickness (cores), cost per core	\$ 50.00
Lottman, per test	\$ 450.00

MASONRY UNITS LABORATORY TESTING

Bricks: compressive strength ASTM C67	\$ 75.00
Absorption: ASTM C67	\$ 90.00
Freeze-Thaw ASTM C 67 per set	\$ 700.00
Initial Rate of Absorption ASTM C 67 each test	\$ 75.00
Masonry Units - Compressive Strength ASTM C 140	
Hollow Block, each block	\$ 90.00
Grout Filled Block, each block	\$ 120.00
Masonry Prisms - Compressive Strengths	
Block, Hollow Prism, cost per prism	\$ 150.00
Block, Grout Filled (up to 8" width), each block	\$ 175.00
Block, Grout Filled (over 8" width), each block	\$ 225.00
Mortar Cubes Compressive Strength, each cube	\$ 35.00
Grout (cast in block), each core extraction	\$ 75.00
Grout Core Compressive Strength, each core	\$ 45.00
Grout Cubes Compressive Strength, each cube	\$ 35.00

**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Livable Cities Studio

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).

Title/Classification	Responsibilities	Rate/Hr.
Principal 1		\$200.00
Principal 2		\$175.00
Principal 3		\$150.00
Project Designer 1		\$130.00
Project Designer 2		\$115.00
Project Designer 3		\$100.00
Project Designer 4		\$90.00
Project Designer 5		\$75.00
Project Designer 6		\$60.00

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

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**

Firm Name: Mundus Bishop Design, 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).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Project lead, Design lead, Oversight of project	\$155.00
Project Landscape Architect	Landscape planning and site design	\$100.00
Project Manager	Manage day-to-day project work / sub-consultants	\$115.00
Staff Landscape Designer	Production	\$75.00
CAD / Graphic Technician	GIS, AutoCAD, graphics	\$70.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.9.

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:

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: OV Consulting

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).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Project Management, outreach and engagement, planning, traffic engineering, transportation management, public relations	\$155.00
Senior Engineer	Transportation Engineering	\$125.00
Senior Planner	Transportation and related Planning	\$115.00
Planner	Transportation Planning, public engagement	\$105.00
Engineer	Transportation Engineering	\$105.00
GIS Analyst	GIS, data review	\$95.00
Graphic Designer	Graphic design, meeting materials, web-based materials	\$85.00
CAD Technician	CAD drafting	\$75.00
Clerical Administrative	Word processing and administrative organization	\$55.00

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

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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Pinyon Environmental, 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).

Title/Classification	Responsibilities	Rate/Hr.
Expert Witness	Expert Witness Preparation and Deposition	\$248.00
Principal Engineer/Scientist	QA/QC by Principal or Senior Technical Reviewer, Meetings with Regulatory and Oversight Agencies	\$226.00
Senior Engineer/Scientist	Remediation, Engineering Design, Investigation Design, Development of Work Plans, Database Design, Training, Industrial Hygiene	\$201.00
Project Manager	Project Management, Coordinates Multi-Disciplinary Teams, Response to Agency Questions, Project Meetings with Clients/Regulators	\$179.00
Project Specialist	Reports to Regulatory and Oversight Agencies, Preparation of Permits, GIS Library Development and Data Analysis, Technical Review of Documents	\$132.00
Project Engineer/Scientist	Phase I ESA Site Visits/Reporting, Interpretation of Data, Collection of Non-Field Data, Development of Logs and Maps, Pilot Testing, Biological and Wetland Field Mapping, Preparation of Reports to Clients, GIS Data Collection/Processing/Presentation, Asbestos Designer/Air Monitoring Specialist/Project Manager, Technical Review of Documents	\$127.00
Technical Editor	Review and revision of documents for submittal to clients.	\$127.00
Staff II Engineer/Scientist	Soil Logging, Monitoring Well Installation Oversight, Water-Level Surveying, Slug Tests, Field Oversight, Lead Driller, Miscellaneous Field Services, Asbestos Building Inspector	\$117.00
Staff I Technician	Groundwater Sampling, Sampling During UST Removals, Surveyor's Assistant	\$102.00
Drafting (Graphics)	AutoCad or Microstation Drafting	\$95.00
Project Assistant	Monthly Invoicing	\$90.00
Clerical	Word Processing, Clerical	\$67.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.0 .

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.
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- (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.

**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).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Oversees the project, does QA/QC and resolves issues	\$200.00
Engineering/Project Manager	Oversees the project; provides design support, first line of problem solving	\$180.00
TeleComm Manager / Designer	In regards to TeleComm, handles day-to-day contact, does design and first line of problem solving	\$150.00
Engineering Designer	Handles day-to-day contact and does design	\$140.00
Production/Drafter	Produces the design using Revit or AutoCAD	\$90.00
Clerical/Administration	Completes billing, specifications, administration support	\$80.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.86.

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.
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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Respec

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).

Title/Classification	Responsibilities	Rate/Hr.
Resident Consultant	Conducts research in problem areas of considerable scope and complexity	\$190.00
Principal/Senior Project Manager	Work unit performance, overall QC	\$170.00
Senior Project Manager	Overall project oversight, gives direction on the design and works with client	\$155.00
Senior Project Engineer	Provides technical oversight, gives direction on the design	\$145.00
Project Biologist	Complete investigations related to agriculture, energy production, transportation, water resources, recreation and the environment	\$135.00
Project Manager	Oversees day to day tasks for project completion	\$125.00
Project Engineer	Performs calculations, develops designs	\$100.00
Engineering Technician	Plan set development, figures	\$85.00
Engineer	Assists project engineer with design calculations	\$85.00
Administrative Support	Invoicing	\$75.00
Engineering Intern	Various small tasks to assist in the project	\$45.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.0.

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.

ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS



Firm Name: Rocky Mountain Paleo Solutions

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).

Title/Classification	Responsibilities	Rate/Hr.
Principal Investigator	Responsible for maintaining the overall scientific integrity and oversight of all projects. Conduct content edits of technical reports. Mentor junior staff.	\$140.00
Project Manager	Oversight and management of major projects; oversight and management of staff, setting of project goals and objectives and interfacing with clients.	\$140.00
Director	Report preparation; directing surveys, monitoring and fossil salvages; analyses of existing data, data recording, stratigraphic documentation, QA/QC.	\$125.00
Supervisor	Report preparation; directing surveys, monitoring, and fossil salvages; analyses of existing data, data recording, project safety, daily field check-ins.	\$90.00
Technician	Performing field surveys, monitoring, data recordation, fossil discovery, fossil collection/salvage, stratigraphic document, lab preparation, data entry.	\$70.00
GIS Specialist	Data management and support for a variety of handheld GPS units using ArcGIS, Trimble GPS; create complex final map products; manage databases.	\$90.00
Technical Editor	Resource specialist in writing, cataloging, and maintaining of technical publications; edit reports and maintains corporate standards.	\$55.00
Clerical	Assists with administrative tasks supporting project completion; enters employee timesheets and expenses into accounting system.	\$55.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 1.644.

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.

ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS



Firm Name: Toole Design Group, LLC

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).

Title/Classification	Responsibilities	Rate/Hr.
Principal-in-Charge	Provides senior-level client contact and services and is ultimately responsible for team performance.	\$297.00
Engineer Lead	Responsible for overall quality control; leads preparation of design efforts and provides direction to junior staff and interface with clients.	\$240.00
Project Manager, Senior Engineer	Plans and manages the project delivery process for large or complex projects. Leads public engagement efforts and serves as principal client contact.	\$199.00
Project Engineer	Prepares design criteria and design analysis reports, develop contract documents (plans and specifications), develops opinions of cost.	\$151.00
Engineer	Designs and completes project elements, prepares reports and calculations under supervision.	\$95.00
Planning Lead	Responsible for quality control of planning products; leads preparation of planning efforts and provides direction to junior staff and interface with clients.	\$225.00
Senior Planner	Prepares analysis reports, develops preliminary improvement recommendations, leads data gathering and GIS mapping efforts, supports engineering efforts and oversees public involvement material development.	\$163.00
Project Planner	Assists with analysis reports, develops improvement recommendations, leads data gathering.	\$137.00
Planner	Completes planning project elements and prepares reports under supervision.	\$93.00
Landscape Architect Lead	Prepares design criteria and analysis reports, develops contract documents, develops opinions of cost within streetscape and landscaping focus areas, develops environmentally sustainable design.	\$178.00
GIS Specialist	Responsible for GIS databases, designs new and updates existing maps, prepares metadata and other information.	\$89.00
Graphic Designer	Lead development of marketing materials.	\$116.00
Intern	Assists with data gathering, research, and document production.	\$69.00
Administration	Technical-level services involving the preparation of project deliverables, word processing and project accounting.	\$77.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.10 .

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.
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**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Transportation Resource Services, 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).

Title/Classification	Responsibilities	Rate/Hr.
Project Manager	Task management. Discipline Lead. Staff supervision.	\$145.00
Sr. Right of Way Agent	Negotiate complex property acquisitions, Relocation Planning, Provide relocation assistance for complex relocation scenarios	\$105.00
Quality Control Coordinator	Provide review and oversight for acquisition, relocation and closing tasks	\$105.00
Right of Way Agent	Negotiate property acquisitions, Provide relocation advisory assistance for standard relocation	\$ 95.00
Closing Coordinator	Collaborate with title company/City/owner to facilitate closings	\$ 95.00
Administrative	Status reporting; file maintenance	\$ 60.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 1.0 .

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.
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- (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.

REIMBURSABLE EXPENSES

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

1. Title commitments and supporting data, at cost, as requested by City
2. Third party appraisals, at cost, as requested by City.
3. Third party review appraisals, at cost, as requested by City.
4. Title Services, at cost, as requested by the City.

**ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS**



Firm Name: Walker Parking Consultants

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).

Title/Classification	Responsibilities	Rate/Hr.
Parking Consultant	Parking management planning and studies	\$195.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 4.25.

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:

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- (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.

ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS



Firm Name: Wenk Associates, 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).

Title/Classification	Responsibilities	Rate/Hr.
Principal II	Design and technical review.	\$182.00
Principal I	QA/QC, design review, and oversight.	\$126.00
Project Manager II	QA/QC, scheduling, budget, meetings, coordination, oversight of technical production	\$99.00
Project Manager I	QA/QC, scheduling, budget, meetings, coordination, oversight of technical production	\$94.00
Landscape Architect/Designer III	QA/QC, design, meetings, coordination, technical production	\$86.00
Landscape Designer I & II	Design, graphics, technical production	\$77.00
Draftsperson	Technical production	\$75.00
Administrative Support	Contracting	\$65.00
Graphic Designer	Graphic production	\$92.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.912.

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.
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ATTACHMENT 2
SUB-CONSULTANT TEAM MEMBERS



Firm Name: Yeh & Associates, 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).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Ensure project receives all needed support. Review schedule, budget.	\$200.00
Senior Project Manager	Responsible for day to day management of project.	\$160.00
Project Manager	Responsible for day to day management of limited scope projects.	\$135.00
Sr. Engineer/Geologist	Performs engineering/geological investigations.	\$115.00
Project Engineer/Geologist	Performs investigations, prepares reports.	\$100.00
Staff Engineer/Geologist	Performs calculations, sketches, checks drawings supplied by others.	\$85.00
Engineer/Geologist Intern	Supports more senior geologists in investigations and evaluations.	\$60.00
Construction Project Manager	Performs construction inspection, submits daily reports, reviews specs.	\$130.00
Senior Field Inspector	Inspects construction, submits daily field reports.	\$105.00
Field Inspector	Provide construction inspection services, write field reports.	\$90.00
Senior Field Eng. Technician	Conducts tests on soils, concrete, asphalt. Fully certified.	\$85.00
Field Eng. Technician	Samples and tests asphalt, concrete, aggregate, and soils.	\$68.00
Laboratory Supervisor	Organizes and oversees all lab activities for materials testing.	\$85.00
Laboratory Technician	Conducts tests on soils, concrete, asphalt.	\$68.00
Graphics/CAD Specialist	Prepares conceptual studies and designs.	\$105.00
CAD Technician	Assists in preparing CAD designs.	\$65.00
Administrative Assistant	Composes and types correspondence; maintains file system.	\$60.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.7699.

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.
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REIMBURSABLE EXPENSES

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

Outside Laboratory Testing Services	At Cost
Drilling	At Cost

Exhibit C

Attachment 3
LIST OF KEY PERSONNEL



PRIME CONSULTANT: Jacobs Engineering Group Inc.

Personnel Classification	Name of Individual
Senior Program Manager	Mike Butters, PE, CFM
Project Manager II	Kristin Lang, PE
Principal	Reza Akhavan, PE
Unit Manager	Jeff Mehle, PE
Project Manager II	Heidi Schram, PE, CFM
Project Manager II	Beth Tosti, PE
Project Manager III	Emily Flagg, PE, PTOE
Architectural Project Manager II	Amy Gaddis, AIA
Land Surveyor V	Marla McOmber, PLS
Program Manager IV	Mike Lopez, CCM
Project Manager III	Laura Meyer, AICP
Program Manager IV	Alfredo Esguerra, PE, PMP
Principal	Alexa Braun, AICP

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



Three Sixty Engineering, Inc.

SUB CONSULTANT: Three Sixty Engineering, Inc.

Personnel Classification	Name of Individual
President/Principal	Denise M. Dihle, P.E.
Project Manager	Michael Cook
Project Manager	Taylor Reese
Project Engineer II	Travis Menard
Project Engineer II	Craig Crow
Project Engineer I	Spencer Rioux
Project Engineer I	Joseph Wittenberg
Administration	Melissa Kisicki

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: All Traffic Data Services, Inc.

Personnel Classification	Name of Individual
President	Dawn Boivin, PE
Project Manager	Eric Boivin
Project Manager	Randy Martinez
Technician	Justin Aidinovich
Technician	Michael Martinez
Technician	Isaiah Quintana
Technician	Walt Wair

**ATTACHMENT 2
LIST OF KEY PERSONNEL**

SUB CONSULTANT: Anderson Hallas Architects, PC



Personnel Classification	Name of Individual
Principal	Nan Anderson, FAIA, LEED AP
Principal	Wells Squier, AIA, LEED AP
Project Manager	Anne Cutrell, AIA, LEED AP
Project Architect	Andy Duckett-Emke, AIA
Job Captain	Rachel Koleski
Draftsperson I	David Miller
Administrator	Kathleen Andres

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Aqua Engineering, Inc.

Personnel Classification	Name of Individual
Principal	Robert W. Beccard, P.E.
Project Manager	Cullen B. Kinoshita
Project Engineer PE	Jason H. Klausner, P.E.
Project Engineer EIT	Emily G. Kullberg, EIT
CAD/IT Manager	Ron J. Perez
Administrative	Tobi Wasson

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: BDG Engineering_____

Personnel Classification	Name of Individual
Senior Engineer	Doug Stremel, PE
Senior Designer	Kurt Johnston
Senior Cadd Tech.	Jennifer Meader
Cadd Tech. I	Abe Sarmiento

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: BT Construction, Inc.

Personnel Classification	Name of Individual
Vice President	Steve Jacques
Project Controls	Lorrie Mirci
Field Supervisor	Robert Philby
Traffic Control Supervisor	Cliff Mondragon
Vac Truck Operator	Felipe Urbina
Vac Truck Operator	Ben Kindred
Vac Truck Operator	Mark Dahl

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: CIIG Public Relations

Personnel Classification	Name of Individual
Public Involvement Manager	Laurie Meza, ARP

**ATTACHMENT 2
LIST OF KEY PERSONNEL**

CLANTON & ASSOCIATES


LIGHTING DESIGN AND ENGINEERING

SUB CONSULTANT: Clanton and Associates, Inc.

Personnel Classification	Name of Individual
Senior Principal	Nancy Clanton, PE, FIES, IALD, LEED Fellow
Principal	Dane Sanders, PE, LEED AP
Senior Designer	David Roederer, LEED AP BD+C, IES
Senior Designer	Josie Wratten, Associate IALD, IES, LC
Senior Engineer	Greg Flageolle, AASM
Engineer	Annie Kuczkowski, BS, EIT, IES
Engineer	April Stevenson, BS, EI
Engineer	Kevin Sisto
Senior CADD Technician	Jon Ehnert, AASAD
CADD Technician	Travis Babcock, AAS

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Coggins Consultants, LLC

Personnel Classification	Name of Individual
Senior Program Implementation Manager	Steve Coggins

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Collins Engineers, Inc.

Personnel Classification	Name of Individual
Regional Manager	Bryant Walters, P.E., LEED AP
Senior Project Manager	Bryan Frantz, P.E., LEED AP
Team Leader/Engineer II	Michael Banasiak, P.E., CWI (Engineer-Diver)
Team Leader/Engineer II	Kyle Branham, P.E. (Engineer-Diver)
Team Leader/Engineer II	Chuck Euwema, EIT (Engineer-Diver)
Engineer I	Natasha Funk, EIT (Engineer-Diver)

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Diversified Underground Inc.

Personnel Classification	Name of Individual
General Manager	Mark Allen
Minority Owner	Richard Chuapoco
Majority Owner	Helena Chuapoco
Business Development Manager	Dustin Muir
Locate Superintendent	Chris Comer
Hydro Superintendent	Josh Allen

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: GBSM_____

Personnel Classification	Name of Individual
President	Andy Mountain
Senior Associate	Miles Graham
Senior Associate	Sheryl Machado
Senior Associate	Angela Woolcott

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Geocal, Inc._____

Personnel Classification	Name of Individual
Principal/Senior Project Manager	Ron Vasquez, P.E.
Senior Project Manager	Robert Barton, P.E.
Project Engineer	Walter Zitz, P.E.
Environmental Geologist	Jim Maytum, P.G.
Operations Manager/VP Field Services	Greg Perzinski
Construction Engineer	David Herzog, P.E.

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Livable Cities Studio

Personnel Classification	Name of Individual
Principal	Meredith Wenskoski, RLA, LEED AP

**ATTACHMENT 2
LIST OF KEY PERSONNEL**

SUB CONSULTANT: Mundus Bishop Design, Inc.

Personnel Classification	Name of Individual
Principal	Tina Bishop, RLA, ASLA
Project Landscape Architect	Chris Loftus, RLA, ASLA
Project Manager	Rachel Scarborough, RLA, ASLA
Staff Landscape Designer	Aicha Menendez, LEED AP
CAD / Graphic Technician	Madalyn Shalkey

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



Planning »»» Design »»» Action

SUB CONSULTANT: OV Consulting_____

Personnel Classification	Name of Individual
Principal - Engineer	Chris Vogelsang, PE
Principal - Planner	Beth Vogelsang, AICP
Planner	Shari Moore, AICP
Planner	Max Lubarsky

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Pinyon Environmental, Inc.

Personnel Classification	Name of Individual
Project Manager	Amy Kennedy
Project Engineer/Scientist	Karin McShea
Project Specialist	Michelle Marin
Project Specialist	Karin Hadley, AICP
Project Specialist	Russ Cirillo, PE
Project Engineer/Scientist	Julie Linn, PG
Project Specialist	Bridgit Mitchell, PE
Project Engineer/Scientist	William "Travis" Gwin

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



PK Electrical, Inc.
Engineering · Design · Consulting

SUB CONSULTANT: PK Electrical, Inc.

Personnel Classification	Name of Individual
Principal	Karen Purcell, PE
Principal	Alan Wiskus, LEED AP BD+C
Project Engineer	Mike Greene, PE
Electrical Designer	Zack Jernigan, EI
Telecomm Manager	Brian Cuneo, PE, RCDD

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Respec

Personnel Classification	Name of Individual
Principal/Senior Project Manager	Alan Leak, P.E.
Principal/Senior Project Manager	Rick Moser, P.E.
Senior Project Manager	Walt Pennington, P.E.
Senior Project Manager	Rich Ommert, P.E., CFM
Senior Project Manager	Dorothy Eisenbraun, P.E.
Project Manager	Jessie Nolle, P.E., CFM
Project Manager	David Delagarza, P.E., CFM
Project Engineer	Wyatt Foley, P.E., CFM
Project Engineer	Josh Morin, P.E., CFM
Project Engineer	Adam Lacey, P.E., CFM
Engineer	Meredith Favero
Engineering Technician	Amy Teigen
Engineer	Leslie DeMott (Sackett) E.I.
Engineer	Mike Bannister, E.I.
Engineer	Krystina Pacheco
Administrative Support	Rebecca Moser
Engineering Intern	Curtis Weller
Senior Project Engineer	Mike Rotar, P.E.
Resident Consultant	Charlie Vandam
Project Biologist	Mark Traxler

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Paleo Solutions Inc., DBA Rocky Mountain Paleo Solutions _____

Personnel Classification	Name of Individual
Principal Investigator	Paul C. Murphey
Supervisor	Kate D. Zubin-Stathopoulos
Supervisor	Courtney D. Richards
GIS Specialist	Barbara Webster
GIS Specialist	Paul Nesbit
Technical Editor	Marissa Ericson

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Toole Design Group, LLC_____

Personnel Classification	Name of Individual
Senior Engineer	Jessica Juriga, P.E.
Project Engineer	Ashley Haire, PhD, P.E.

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Transportation Resource Services, Inc.

Personnel Classification	Name of Individual
Project Manager	Wendy Rodenberg
Project Manager	Bradley Rodenberg
Project Manager	Richard Pittenridge
Sr. ROW Agent	Jeff Perret
Sr. ROW Agent	Benjamin Bolinger
ROW Agent	Kalan Falbo

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Walker Parking Consultants_____

Personnel Classification	Name of Individual
Parking Consultant	Jeremiah Simpson

**ATTACHMENT 2
LIST OF KEY PERSONNEL**



SUB CONSULTANT: Wenk Associates, Inc._____

Personnel Classification	Name of Individual
Principal I	Greg Dorolek, RLA, ASLA
Principal I	Nicole Horst, RLA, ASLA
Principal II	Bill Wenk, RLA, FASLA

ATTACHMENT 2
LIST OF KEY PERSONNEL



SUB CONSULTANT: Yeh & Associates, Inc.

Personnel Classification	Name of Individual
Materials Manager, Pavement Design	Bob LaForce, PE
Materials Manager, Pavement Design	Masoud Ghaeli, PE
Geotechnical Engineer	Samantha Sherwood, PE
Materials Tester	Brian Johnson

Exhibit D



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
11/28/2016

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 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 LIC #0437153 Marsh Risk & Insurance Services CIRTS_Support@internal.jacobs.com 777 S. Figueroa Street Los Angeles, CA 90017-5822	1-212-948-1306	CONTACT NAME: PHONE (A/C, No. Ext): E-MAIL ADDRESS:	FAX (A/C, No): 1-212-948-1306
INSURED Jacobs Engineering Group Inc. 155 North Lake Avenue, 9th Floor Pasadena, CA 91101		INSURER(S) AFFORDING COVERAGE INSURER A: ACE AMER INS CO INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	
		NAIC # 22667	

COVERAGES

CERTIFICATE NUMBER: 48509645

REVISION NUMBER:

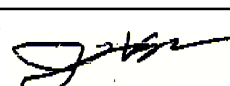
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE 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 <input checked="" type="checkbox"/> CONTRACTUAL LIABILITY GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			HDO G27853766	07/01/16	07/01/17	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 250,000 MED EXP (Any one person) \$ 5,000 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 type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			ISA H09042398	07/01/16	07/01/17	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			SCF C48605291 (WI)	07/01/16	07/01/17	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER
A	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N	N/A	WLR C48605254 (AOS)	07/01/16	07/01/17	E.L. EACH ACCIDENT \$ 100,000
A	If yes, describe under DESCRIPTION OF OPERATIONS below			WCU C4860528A (LA, OH, TX)	07/01/16	07/01/17	E.L. DISEASE - EA EMPLOYEE \$ 100,000 E.L. DISEASE - POLICY LIMIT \$ 500,000
A	PROFESSIONAL LIABILITY "CLAIMS MADE"			EON G21655065 007	07/01/16	07/01/17	PER CLAIM/PER AGG 1,000,000 AGGREGATE DEFENSE INCLUDED

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

RE: On-Call Professional Engineering Services for Capital Projects Management. CONTRACT NUMBER: 201631687.
As required by written contract, the City and County of Denver, its Elected and Appointed Officials, Employees and Volunteers are included as Additional Insured as respects the Commercial General Liability and Business Auto Liability.

CERTIFICATE HOLDER**CANCELLATION**

City and County of Denver 201 West Colfax Ave Denver, CO 80202 USA	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 
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