

ON-CALL ENGINEERING SERVICES AGREEMENT

between

THE CITY AND COUNTY OF DENVER

And

FELSBURG HOLT & ULLEVIG, INC.

Contract No. **201309603**

THIS AGREEMENT is made and entered into between the **CITY AND COUNTY OF DENVER** (the "City"), a municipal corporation of the State of Colorado, and **FELSBURG HOLT & ULLEVIG, INC.** (the "Consultant"), a **Colorado corporation**, whose address is **6300 SOUTH SYRACUSE WAY SUITE 600 CENTENNIAL, CO 80111**.

RECITALS:

- 1.** The City, through its Department of Public Works desires to secure "readily available" professional engineering services and related technical services to support the Department's Capital Project 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 and Proposal, the Consultant submitted a Proposal for such services to the City. The Consultant and the City have negotiated a Scope of Services and Fee Proposal for such professional services, a copy of which is 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 Manager 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 Director of Engineering as the Manager's authorized representative for the purpose of designating a Project Manager, for the purpose of issuing a written Notice to Proceed and for purposes of administering, coordinating and finally approving the work performed by the Consultant under this Agreement. The Project Manager shall be responsible for the day-to-day administration, coordination and approval of work performed by the Consultant, except for approvals which are specifically identified in this Agreement as requiring the Manager's approval. The Manager expressly reserves the right to designate another authorized representative to perform on the Manager's behalf by written notice to the Consultant.

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 for any assigned project, 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 for the Project shall be adequate and sufficient for the proper construction of the Project and its intended purpose.
- (d) All drawings, specifications and other products shall be prepared so that the Project, when constructed in accordance with such drawings and specifications, complies with the Department of Public Works Standard Specifications for Construction - General Conditions, all applicable laws, statutes, codes, ordinances, rules and regulations 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 for each project 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) 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 for any identified phase of a project, must represent a thorough study and competent solution for the project as per usual and customary professional standards and shall reflect all architectural and engineering skills applicable to that phase of the project.

- (i) The responsibilities and obligations of the Consultant under this Agreement shall not be relieved or affected in any respect by the presence on the site of any agent, consultant or subconsultant, or an employee of the City.
- (j) The 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 project with the Project Manager and further agrees, unless it has notified the City in writing that the project cannot be accomplished within such budget, to accomplish the project within the intent of the program and final proposal cost. Should the Consultant determine that an assigned project cannot be accomplished within the final proposed cost, the Consultant shall immediately notify the Project Manager, in writing, so that the project scope or project budget can be reviewed and modified if necessary.
- (b) If the City requires the Consultant to prepare a formal proposal with a maximum estimated fee for a particular project, the Consultant agrees to complete the project within the limits of the approved final proposal cost, unless otherwise modified by the City. Should all project work exceed such cost, the Consultant agrees to redesign and/or complete the Project 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 project. 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 project. 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 outside subconsultants, professional design personnel and technicians in sufficient strength to meet the requirements of the City. Such personnel and technicians shall be of the classifications referenced in Exhibit A. The hourly rates specified therein include all costs except those specifically referenced as reimbursables in the appropriate hourly rate schedule.
- (d) Prior to designating an outside professional to perform subconsultant work, the Consultant shall submit the name of such subconsultant, together with a resume of training and experience in work of like character and magnitude of the project being contemplated, to the City and receive prior approval in writing.

- (e) It is the intent of the Parties hereto that all key professional personnel be engaged to perform their specialty for all such services required by this Agreement and that the 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, including being connected with the sale or promotion of equipment or material which may be used on a project to which they may be assigned, and the 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 project.
- (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 project proposal for the particular project 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 project to which it is assigned and its proposal is approved.
- (b) When directed by the Manager to perform under this Agreement on a particular project, the Consultant shall prepare a project specific proposal in accordance with the provided scope or description of Work for that project. A separate project specific proposal shall be prepared for each project for which the Consultant's services are required and shall set forth, at a minimum all of the following:
 - (1) The maximum fee for the Consultant's proposed services.

- (2) The surveying, utility locating and testing budget for the project if applicable.
 - (3) The additional services budget, if any, for the Project.
 - (4) The budget for reimbursable expenses if applicable.
 - (5) A description of the project and requested scope of work (the "Work").
 - (6) An agreed upon schedule for the Consultant's performance.
- (c) Upon approval by the Manager of a project proposal, the approval and appropriation of funding for such project, and the issuance of a written Notice to Proceed, the Consultant shall proceed to perform required Work.
 - (d) The assigned Work shall be performed in conformance with the approved project specific proposal.
 - (e) The Consultant's basic services for each project to which it is assigned may consist of any one or combination of the phases described below and shall include, but are not limited to the civil, structural, mechanical, and electrical engineering and testing services appropriate to each phase of each project and the services described in **Exhibit A**.
 - (f) The Consultant shall obtain written authorization from the City before proceeding with each phase of each assigned project.
 - (g) Nothing in this Agreement shall be construed as placing any obligation on City to proceed with any phase beyond the latest phase authorized in writing by City for each assigned project. Further, nothing in this Agreement shall be construed as guaranteeing the Consultant any minimum amount of Work or number of projects assigned under this Agreement.
 - (h) If a project which is assigned to the Consultant under this Agreement is funded in whole or part by federal funds, each of the applicable terms set forth in any funding arrangement for such funds shall be, and by this reference are incorporated into the project specific proposal for such project, and included in the Consultant's basic services responsibilities for such project.
 - (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 - Phase Specific: All of the services described in this Section 2.07, unless specifically noted as omitted in the project specific proposal for a specific project, are included in the Consultant Basic Fee for each project to which the Consultant is assigned.

(a) Programming and Investigation Phase:

- (1) The Consultant shall attend such conferences as may be required for a complete understanding of each project, and the Consultant shall document all such conference notices and distribute minutes of such conferences to the City.
- (2) If construction, design or document standards have been adopted by the City, the state, or the federal government for the Project, the Consultant shall comply with all such standards when applicable.
- (3) The Consultant shall perform all additional research or investigation it deems necessary to ensure a complete understanding of the project.
- (4) The Consultant shall review the needs and requirements of the City and affected agencies to determine the specific requirements of the specific project based on the information provided by the City.

- (5) The Consultant shall then review with the City the project requirements with the City to confirm its understanding of the project, budget and any applicable limitations.
 - (6) Upon approval of such costs by the City, and subject to the surveying, utility locating and testing budget for the specific project, the Consultant shall obtain all plats, special studies and engineering data necessary to properly investigate and report on the project.
 - (7) 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 overall budget constraints of the City.
 - (8) The Consultant shall also include as part of this phase all applicable portions referenced in **Exhibit A**.
- (b) 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 for the City, taking into account the City's project budget.
 - (4) The Consultant shall also include as part of this phase all applicable portions referenced in **Exhibit A**.
- (c) 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 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, when specifically requested, for each project. 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 also provide, as part of this phase, all applicable services referenced in **Exhibit A**.
- (d) 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 applicable portions of **Exhibit A**.
- (e) 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) Assisting the City in advertising the Invitation(s) for Bids and assisting in the distribution of Bid Documents;
- (iii) 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;
- (iv) Providing the City with twenty-five (25) copies of the Bid Package and Bid Documents or such other number as are required by the proposal;
- (v) Distributing copies of the Bid Package(s) and Bid Documents, and collecting deposits, if any, for same. The amount of the deposits will be set by the City;
- (vi) Answering questions by bidders and approving "equals" to specified materials. Lists of those materials approved as equals shall be prepared and distributed to the bidders as an addendum, with explanatory notes if necessary;
- (vii) Preparing any necessary addenda;
- (viii) Participating in the pre-bid conference with prospective bidders;
- (ix) Attending the bid opening set by the City and furnishing tabulation sheets for bidders;
- (x) Reviewing all bids for the reasonableness of the bid price and the qualifications of the lowest responsive bidders, assisting in the preparation and certification of the bid tabulation and recommending the lowest responsive bidder; and
- (xi) Performing all work noted in all applicable portions of **Exhibit A**.

(f) 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 assist at a pre-construction conference with the Contractor and shall take and distribute to the City and the Contractor written minutes of the pre-construction conference and of all meetings conducted by the Consultant.
- (4) The Consultant shall take written minutes of all project meetings and shall distribute such minutes to the City and Contractor within five (5) days.

- (5) The Consultant shall conduct meetings, which shall be held on a weekly basis, at which time the Contractor and the Consultant may discuss and, in conjunction with the City, resolve such matters as 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. Additional special job site meetings shall be held when deemed necessary by the Consultant.
- (6) On the basis of the Consultant's on-site visits, the Consultant shall keep the City informed through a monthly written report of the progress and quality of work.
- (7) The Consultant shall, within five (5) working days of receipt of each pay request from Contractor, determine the amount owing to Contractor and shall certify requests for payment in such amounts, on the basis that the Work has progressed to the point indicated and that the quality of work is in accordance with the Contract Documents, or, within the same five (5) days, reject the pay request for due cause and advise the Contractor and, in either scenario, submit the pay request to the responsible City official.
- (8) 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.
- (9) The Consultant will be the interpreter of 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.
- (10) The Consultant shall reject work which, in the Consultant's opinion, does not conform to the Contract Documents, and shall notify the Contractor and the City of the reason for each such rejection. To confirm compliance with the Contract Documents, drawings, specifications, designs and plans, the Consultant may request approval by the City to direct the Contractor to uncover any portion of the work in accordance with the General Contract Conditions.
- (11) 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 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.
- (12) 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, and shall prepare and issue those Change Orders approved by City.

- (13) 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.
- (14) 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.
- (15) The Consultant shall ensure that no changes are made in the work, by any party, without prior written consent of the City except as hereinafter provided: The Consultant may authorize minor changes in the work not affecting the project value or cost or time of completion, and shall inform the City of such approvals or directions in writing.
- (16) 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 Contractor, 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 Consultant 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.
- (17) On each visit to the site, the Consultant shall make, and file within seven (7) days with the City, a field report using the form(s) approved by the Project Manager for each individual project.
- (18) Should 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 non-complying Contractor and City's project manager. If the City's Project Manager is unable to be reached in person or by phone, the Consultant shall, if appropriate, issue a stop-work order to the contractor for up to four hours. If in issuing such a stop-work order to the contractor, the Consultant acts in accordance with the professional standards for performance of its services under this Agreement, it shall not be responsible for any delay in the performance of the work caused by the issuance of such stop-work order. After the expiration of the four-hour stop-work order, or as soon as notice is given to the City by the Consultant, whichever occurs first, the Consultant shall recommend to the City whether the suspension should continue and provide the City with a written statement regarding the circumstances surrounding the issuance of the stop-work order. Any further suspension of the work shall be the responsibility of the City.
- (19) The Consultant shall notify the Project Manager of specific critical observations it intends to carry out during the various phases of the project.

- (20) 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.
- (21) Upon the completion of the entire work or a designated portion thereof, the Consultant shall, in consultation with the City, issue a Certificate of Substantial Completion in accordance with the provisions of the construction contract and its General and/or Special Contract Conditions.
- (22) The Consultant shall, in consultation with the City, provide to the Contractor(s) and 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.
- (23) "Record 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. Record Drawings may also be referred to as as-built drawings or just as-builts.

Prior to Final Inspection, the Consultant shall obtain the original "Red-line" drawings and final survey, if applicable, as well as a conformed copy of the Project Specifications from each Contractor. Based on these documents, the Consultant shall prepare, as necessary, and deliver to the Project Manager Record Drawings and a conformed copy of the Project Specifications showing all changes made during construction. Such Record Drawings shall reflect all known modifications to the original drawings and shall be made from the "Red-line" sets of drawings prepared by Contractor along with the final survey information as applicable. These final Record Drawings shall incorporate the Consultant's observations, shall be made in a professional manner and shall be stamped and signed by the Consultant as being Record Drawings. These final Record Drawings shall be delivered to the City Project Manager in hard copy and .pdf format, together with all of the "Red-line" drawings provided by the Contractor(s) and the final survey records, as applicable, from which they were derived. The last five percent (5%) of the Consultant's basic services fee for each project will not be paid until such Record Drawings and all support documents required are received.

- (24) 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.
- (25) Prior to final payment to the Contractor, the Consultant shall review all outstanding claims, Contractor requests and final punch list work, of any type or description, which have not been settled during the Contractor's work on the project and shall prepare a written report outlining the background and status of such claims, deficient or outstanding work and deficient or outstanding Work and making recommendations as to the ultimate disposition of such outstanding claims and Work.
- (26) 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 by the Consultant to the City and the Contractor and the Consultant shall issue the necessary directives to the Contractor to require that the deficiencies are corrected at no cost to the City.

- (27) The Consultant shall also include as part of this phase all remaining and applicable portions of **Exhibit A**.

2.08 Surveying and Testing:

- (a) The Consultant shall obtain all necessary surveying, tests and reports to properly design and administer the construction of each project, including, but not limited to, soils and hazardous materials testing. The Consultant shall be responsible for the accuracy, adequacy and content of such tests, surveying and reports.
- (b) 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.
- (c) 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 of the City and require such inadequacy or inconsistency to be addressed by the soils engineer, testing laboratory or land surveyor before any further use is put to the data.
- (d) The Consultant shall require all surveying, engineering and testing entities it selects to carry and maintain Comprehensive Auto Liability and Property Damage Insurance, General Commercial Liability and Property Damage Insurance and Professional Errors and Omissions coverage as required by the City's Office of Risk Management which will adequately protect the interests of the City and third parties from the acts and omissions of the testing entity.
- (e) The amount of surveying or testing, the cost, and the types of reports required must be approved by the Manager prior to the Consultant actually ordering any such work to be accomplished. Such approvals by the City shall be for purposes of compensation only and shall not relieve the Consultant of any responsibility for determining the scope and amount of surveying and testing necessary for the design of the project.
- (f) It is understood and agreed that this Agreement does not include the investigation, sampling, testing, planning, abatement design, and remediation management of asbestos or other hazardous waste material. Should the presence of asbestos or other hazardous waste material be known to exist on a specific project or if the 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.
- (g) 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.

2.09 Compliance with M/WBE Requirements.

- (a) This Agreement is subject to Article III, Divisions 1 and 3 of Chapter 28, Denver Revised Municipal Code (D.R.M.C.), designated as Sections 28-31 to 28-36 and 28-52 to 28-90 D.R.M.C. (the "M/WBE Ordinance") and any Rules or Regulations promulgated pursuant thereto. The 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 **10%**

- (b) 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 3 – COMPENSATION, PAYMENT, AND FUNDING

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

3.01 Basic Services: The City agrees to pay the Consultant, as compensation for any basic services rendered for a particular Project, either a maximum basic services fee, to be set forth in each approved Project, proposals prepared prior to commencement of any and all work under this Agreement, 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 any approved project proposal or specified in Exhibit A, the City will not compensate the Consultant for expenses such as postage, travel, mileage, telephone, reproduction and messenger service costs incurred in connection with Work

performed under this Agreement. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproducibles, etc. are not included in the hourly rates, and will be itemized as part of each on-call work order as a not-to-exceed reproducible expense.

3.03 Surveying and Testing: The Consultant shall be reimbursed its costs for any previously approved surveying, utility locating and testing services it provides for any assigned project, subject to the terms and conditions set forth herein and any surveying, utility locating and testing budget limits for that specific project.

3.04 Additional Services: The Consultant shall be compensated for any previously approved additional services performed for any assigned project, subject to the terms and conditions set forth herein and an additional services budget limits for that specific project.

3.05 Special Services: Subject to prior approval of such costs by the Manager, the Consultant shall be paid its actual costs for special supplies or services and when applicable for Consultant's actual time spent overseeing work not included within either **Exhibit A** or any other exhibits for individual projects subsequently incorporated herein, but which the City specifically directs the Consultant to provide under this Agreement.

3.06 Invoices: The Consultant shall invoice and be paid monthly in proportion to the progress of the Work on each assigned project. 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 hourly records of the time 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 as necessary to show direct charges to specific projects and to distinguish fees and expenses. 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 project, shall not be made until after the project is accepted, all guarantees, certificates of completion, and Record Drawings and support documentation are delivered to the City, and the duties agreed to in the approved project proposal for that project are otherwise fully performed by the Consultant. No deductions shall be made from the Consultant's compensation on account of penalty, liquidated damages or other sums withheld from payments to any assigned project contractor.

3.07 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 **THREE MILLION DOLLARS (\$3,000,000.00)**. 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 for the particular projects assigned to the Consultant 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 project, at the time it accepts each proposal for a specific project. The Manager of Public Works, 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 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 a specific project 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 project 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.

SECTION 4 – TERM AND TERMINATION

- 4.01 Term. The term of this Agreement shall commence on **April 1, 2013**, and shall expire on **March 31, 2016**, 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.
- 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 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 project 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 drawings, specifications, and other documents relating to the design or administration of 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, delivery of drawings, specifications, and other documents referred to herein, and assisting the City during a transition to another Consultant, if applicable.

SECTION 5 – GENERAL PROVISIONS

5.01 City's Responsibilities.

- (a) The City shall provide available information regarding its requirements for each project, including related budgetary information, and shall cooperate fully with the 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 project.
- (b) If the City observes or otherwise becomes aware of any fault or defect in the project or non-conformance with Contract Documents, it shall give prompt notice thereof to Consultant.

5.02 Ownership of Documents:

- (a) The City shall have title and all intellectual and other property rights, in and to all phased and final engineering documents, 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 project for which the Documents were created is executed or not. The Consultant shall identify and disclose, as requested, all such Documents to the City.
- (b) To the extent permitted by the U.S. Copyright Act, 17 USC § 101 et seq., as the same may be amended from time to time, the Documents are a "work made for hire," and all ownership of copyright in the Documents shall vest in the City at the time the Documents are created. To the extent that the Documents are not a "work made for hire," the Consultant hereby assigns and transfers all right, title and interest in and to the Documents to the City, as of the time of the creation of the Documents, including the right to secure copyright, patent, trademark, and other intellectual property rights throughout the world and to have and to hold such copyright, patent, trademark, and other intellectual property rights in perpetuity.
- (c) The Consultant shall provide (and cause its employees and subcontractors to provide) all assistance reasonably requested in securing for the City's benefit any patent, copyright, trademark, service mark, license, right or other evidence of ownership of such Documents, and shall provide full information regarding the Documents and execute all appropriate documentation in applying for or otherwise registering, in the City's name, all rights to such Documents.
- (d) The Consultant agrees to allow the City to review any of the procedures used in performing the work and services hereunder, and to make available for inspection the field notes and other documents used in the preparation for and performance of any of the services performed hereunder.
- (e) The 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 AutoCAD files, shall be delivered to the City promptly upon completion thereof, or if authorized by the City's Project Manager, upon termination or expiration of this Agreement.

5.03 Taxes and Licenses: The Consultant shall promptly pay, when they are due, all taxes, excises, license fees and permit fees of whatever nature applicable to the work and services which it performs under this Agreement, and shall take out and keep current all required municipal, county, state or federal licenses required to perform its services under this Agreement. The 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 allow any lien, verified claim, mortgage, judgment or

execution to be filed against land, facilities or improvements owned or beneficially owned by the City as a result of such bills, debts or obligations.

5.04 **Consultant's Records:** Records of the Consultant's direct personnel, consultant and reimbursable expenses pertaining to this Agreement and records of accounts between the City and the Consultant 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.

5.05 **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.

5.06 **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.

5.07 **Insurance:**

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, contractor 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.

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 coverage. 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.

Additional Insureds: For Commercial General Liability and Auto Liability, Consultant and subcontractor's insurer(s) shall name the City and County of Denver, its elected and appointed officials, employees and volunteers as additional insured.

Waiver of Subrogation: For all coverages, Consultant's insurer shall waive subrogation rights against the City.

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.

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.

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.

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

Professional Liability: Consultant shall maintain limits of \$1,000,000 per claim and \$1,000,000 policy aggregate limit.

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 in excess of policy limits;
 - (ii) A severability of interests, separation of insureds or cross liability provision; and
 - (iii) 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.

5.08 Indemnification:

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

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

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

Exhibit A	Consultant's Scope of Work
Exhibit B	Consultant's Rates
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 5 and the listed attachments, or between provisions of any attachments, such that it is impossible to give effect to both, the order of precedence to determine which provision shall control to resolve such conflict, is as follows, in descending order:

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

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

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

5.13. **Conflict of Interest:**

- (a) The 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 projects. 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.

5.14 **No Third Party Beneficiaries:** Enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the City and the 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.

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

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

5.17 **Proprietary or Confidential Information:**

- (a) City Information: The 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 mean geographic materials or Geographic

Information Systems (“GIS”) data owned by the City and County of Denver including but not limited to maps, computer programs, aerial photography, methodologies, software, diagnostics and documents; or any other materials or information which may be designated or marked “Proprietary” or “Confidential” and provided to or made available to the Consultant by the City. Such Proprietary Data may be in hardcopy, printed, digital or electronic format.

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

5.18 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.

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

- (a) This Agreement is subject to Division 5 of Article IV of Chapter 20 of the Denver Revised Municipal Code, and any amendments (the “Certification Ordinance”).
- (b) The Consultant certifies that:
- (1) At the time of its execution of this Agreement, it does not knowingly employ or contract with an illegal alien who will perform work under this Agreement.
 - (2) It will participate in the E-Verify Program, as defined in § 8-17.5-101(3.7), C.R.S., to confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement.
- (c) The Consultant also agrees and represents that:
- (1) It shall not knowingly employ or contract with an illegal alien to perform work under the Agreement.
 - (2) It shall not enter into a contract with a subconsultant or subcontractor that fails to certify to the Consultant that it shall not knowingly employ or contract with an illegal alien to perform work under the Agreement.
 - (3) It has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement, through participation in the E-Verify Program.
 - (4) It is prohibited from using the E-Verify Program procedures to undertake pre-employment screening of job applicants while performing its obligations under the Agreement, and that otherwise requires the Consultant to comply with any and all federal requirements related to use of the E-Verify Program

including, by way of example, all program requirements related to employee notification and preservation of employee rights.

- (5) If it obtains actual knowledge that a subconsultant or subcontractor performing work under the Agreement knowingly employs or contracts with an illegal alien, it will notify such subconsultant or subcontractor and the City within three (3) days. The Consultant will also then terminate such subconsultant or subcontractor if within three (3) days after such notice the subconsultant or subcontractor does not stop employing or contracting with the illegal alien, unless during such three-day period the subconsultant or subcontractor provides information to establish that the subconsultant or subcontractor has not knowingly employed or contracted with an illegal alien.
- (6) It will comply with any reasonable request made in the course of an investigation by the Colorado Department of Labor and Employment under authority of § 8-17.5-102(5), C.R.S, or the City Auditor, under authority of D.R.M.C. 20-90.3.

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

5.20 Disputes: All disputes between the City and 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.

5.21 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.

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

5.23 Advertising And Public Disclosure. The 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.

5.24 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.

5.25 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:	Manager of Public Works 201 West Colfax Avenue, Dept. 1110 Denver, Colorado 80202
with a copy to:	Assistant City Attorney 201 West Colfax Avenue, Dept. 1207 Denver, Colorado 80202
to the Consultant:	6300 SOUTH SYRACUSE WAY SUITE 600 CENTENNIAL, CO 80111

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.

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


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

5.28 Counterparts of this Agreement: This Agreement will be executed in two (2) counterparts, each of which shall be deemed to be an original, and all of which, taken together, shall constitute one and the same instrument.

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Contract Control Number: PWADM-201309603-00

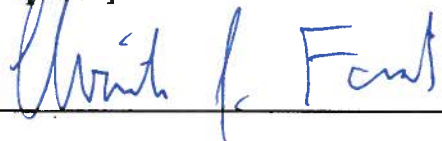
Contractor Name: FELSBURG HOLT & ULLEVIG

By: 

Name: DEAN P. BRADLEY
(please print)

Title: PRESIDENT
(please print)

ATTEST: [if required]

By: 

Name: Christopher J. Fasching
(please print)

Title: Principal
(please print)



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 _____



EXHIBIT A SCOPE OF WORK

A. Project Description

This contract (or these contracts) will provide on-call professional engineering services to support the Capital Projects Management program, as well as provide general engineering services throughout Public Works, as requested. These services include, but are not limited to: hydraulic and hydrologic studies, feasibility analyses and full project design for storm sewer basins and facilities; sanitary sewer system analyses and full project design; utility coordination, relocation and permitting; surveying; traffic engineering; geotechnical investigations; and other Civil Engineering design services.

B. Summary of Required Services

The following is a list of anticipated general engineering services and work scope needed through this (these) on-call contracts:

Design Services

1. Full range of Structural and Bridge Design Services - Steel, timber, and concrete bridges (including cast-in-place, pre-stressed or post-tensioned; retaining walls, piers, columns, culverts, abutments and other related structures
2. Hydraulic and Hydrologic studies, (including bridge scour mitigation), CLOMR and LOMR preparation, analysis and design of sanitary and storm sewers; Water Quality Analysis and temporary and/or permanent system design.
3. Roadway and pavement design
4. Utility design (including permitting) and Utility coordination.
5. Land Surveying (including Topographical Surveys, Improvement Surveys, R.O.W. – preliminary, final legal descriptions, exhibits and monumentation)
6. Electrical and Lighting Engineering
7. Plan Review, including reviews of transportation, storm and sanitary sewer studies
8. Landscape Architecture, irrigation design and Urban/Streetscape Design
9. Traffic signal and signal system design
10. ITS infrastructure analysis and design, including Traffic Management Center design
11. Cost estimating
12. Railroad Crossing Design
13. Railroad coordination and permit application
14. Transit Station Infrastructure Engineering
15. Project Management Services
16. Building commissioning

Construction/Preconstruction Services

1. Surveys/Construction Staking
2. Geotechnical Engineering, materials testing, weld inspection, environmental and hazardous materials analysis
3. Construction Engineering/Project Management Assistance
4. Environmental Studies, clearances, evaluations, hazmat assessments and reports
5. Inspection: all civil and structural, transportation and vertical (building) project components

Planning Services

1. Signal system management including signal retiming along corridors or systems of corridors
2. Traffic signal system communications including expansion of the signal system, fiber optic interconnect which may include cabinet changes, CDOT project processes, plan preparation and splicing diagrams
3. Performance measurement
4. Multi-mode transportation planning and multi-mode traffic and operation simulation
5. Traffic Forecasting (Consultant must be familiar with DRCOG's Travel Demand Model and TransCad™ Software)
6. Development-related traffic impact analysis

Miscellaneous Services

1. Database program development and GIS interface and mapping.
2. Bridge Inspection and management
3. Project scheduling
4. Clerical, and contract administration
5. Parking Studies
6. Special District Creation/management
7. Public Involvement/Agency Coordination
8. Data collection, including infrastructure assets or other information as needed
9. Traffic and Safety analysis
10. CAD and drafting
11. Parking studies, traffic safety analyses, and other traffic studies.

EXHIBIT B
CONSULTANT'S RATES

FHU Billing Rates

City and County of Denver On-Call Engineering Services for Capital Projects Management
eBid#: 2193519, Supplement to Tab 6

The following hourly billing rates apply to all “Time and Materials” contracts.

Staff Rates

Principal III.....	\$220.00
Principal II.....	\$190.00
Principal I.....	\$170.00
Associate.....	\$170.00
Sr. Engineer.....	\$155.00
Engineer V.....	\$140.00
Engineer IV.....	\$125.00
Engineer III.....	\$110.00
Engineer II.....	\$100.00
Engineer I.....	\$85.00
Sr. Environmental Scientist.....	\$155.00
Environmental Scientist V.....	\$140.00
Environmental Scientist IV.....	\$125.00
Environmental Scientist III.....	\$110.00
Environmental Scientist II.....	\$100.00
Environmental Scientist I.....	\$85.00
Sr. Transportation Planner.....	\$155.00
Transportation Planner V.....	\$140.00
Transportation Planner IV.....	\$125.00
Transportation Planner III.....	\$110.00
Transportation Planner II.....	\$100.00
Transportation Planner I.....	\$85.00
Sr. Bridge Designer.....	\$140.00
Sr. Designer.....	\$115.00
Designer V.....	\$105.00
Designer IV.....	\$100.00
Designer III.....	\$90.00
Designer II.....	\$80.00
Designer I.....	\$65.00
Sr. Construction Inspector.....	\$105.00
Construction Inspector V.....	\$100.00
Construction Inspector IV.....	\$90.00
Construction Inspector III.....	\$85.00
Construction Inspector II.....	\$75.00
Construction Inspector I.....	\$65.00
Sr. Environmental Tech.....	\$115.00
Environmental Tech V.....	\$105.00
Environmental Tech IV.....	\$100.00
Environmental Tech III.....	\$90.00
Environmental Tech II.....	\$80.00
Environmental Tech I.....	\$65.00
Sr. Admin. Assistant.....	\$95.00
Admin.-Other.....	\$85.00

Other Direct Costs

Plots

Bond.....	\$0.24/sq ft
Glossy.....	\$0.71/sq ft
Mylar.....	\$0.55/sq ft
Vellum.....	\$0.39/sq ft

Prints

Black and White.....	\$0.08/print
Color.....	\$0.19/print

Presentation Boards

Bond Foam Core Mounted.....	\$1.22/sq ft
Glossy Foam Core Mounted.....	\$1.69/sq ft
Computer Projector.....	\$100.00/meeting

Travel

Mileage.....	\$0.555/Mile (or current allowable Federal rate)
Truck (Construction).....	\$40.00/day

Other Miscellaneous Costs

Courier.....	Actual Vendor Costs
Postage.....	Actual Vendor Costs
Deliveries.....	Actual Vendor Costs
Per Diem.....	Actual Vendor Costs
Subconsultants.....	Actual Subconsultant Costs

Field Equipment

Trimble GPS.....	\$45.00/day
Blue Tooth Camera for GPS.....	\$35.00/day

Outside – Materials/Supplies/Services: Cost Plus 10%

Other direct costs are reimbursed at a rate of
1.1 times the rates above and / or actual costs.

LIST OF BILLING RATES

Provide a listing of responsibilities for each of the personnel classifications below, as well as your firm's actual classifications to be used on this contract.

Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: Felsburg Holt & Ullevig

Table Classification	Responsibilities	Rate/Hr.
Principal II Dean Bradley, PE	Principal-in-Charge. Principal-level oversight of project team, contractual/signature authority, QA/QC review. Also Co-Task Leader for Public Involvement/Agency Coordination. Task order-level responsibilities include staffing, scheduling, budgets, subconsultants, and deliverables management.	\$190.00
Principal II Elliot Sulskly, PE, AICP	Planning Services Team Lead. Responsible for appropriate task lead assignments. Multi-mode Planning, Traffic & Operations Simulation Task Leader. Task Leader for Traffic Forecasting efforts. Task order-level responsibilities include staffing, scheduling, budgets, subconsultants, and deliverables management.	\$190.00
Principal II Thor Gjelsteen, PG	Environmental Task Support, responsible for technical support for Environmental Task Leader	\$190.00
Associate Dave Hattan, PE, PTOE	Project Manager, primary point of contact for CCD, responsible for Task Order initiation, overall program management, M/WBE Reporting, Selection of appropriate Team Leads. Miscellaneous Services Team Lead. Responsible for appropriate task lead assignments. Task Leader for Development-related TIAs, Traffic Safety Analysis, and Other Traffic Studies. Task order-level responsibilities includes staffing, scheduling, budgets, subconsultants, and deliverables management.	\$170.00
Associate Tom Nead, PE	Construction Services Team Lead. Responsible for appropriate task lead assignments. Task Leader for construction engineering & project management assistance; inspection-concrete; inspection-asphalt; construction contract planning, administration & partnering efforts. Task order-level responsibilities include staffing, scheduling, budget, subconsultants, and	\$170.00

Table Classification	Responsibilities	Rate/Hr.
	deliverables management.	
Associate Rich Follmer, PE, PTOE	Task Leader for ITS Infrastructure/TMC Design. Responsible for design, ITS subconsultant coordination, preparation of traffic plans, reports, schedules, and budgets.	\$170.00
Senior Engineer Jeanne Sharps, PE	Task Leader for Roadway & Pavement Design and Transit Station Infrastructure Design. Responsibilities include budgets, subconsultants, schedules, and preparation of design plans.	\$155.00
Senior Engineer Michelle Stevens, PE	Task Leader for Plan Review and Project Scheduling. Also provides support for Roadway & Pavement Design, Cost Estimating, and Transit Station Infrastructure Engineering. Responsibilities include preparation of project schedules, reviewing plans, budget, and subconsultants.	\$155.00
Senior Engineer Stephanie Sangaline, PE, CPESC	Railroad Crossing Design, Railroad Coordination, and Permit Applications Task Leader. Responsibilities include Quiet Zone and Agency Coordination scheduling, budgets, subconsultant management, and plan and document preparation.	\$155.00
Senior Engineer Jeff Ream, PE, PTOE	Parking Studies Task Leader. Task order level responsibilities include Signal System Management, Multi-mode Planning/Traffic Operations Simulation, Traffic Forecasting, Development-Related TIAs. Responsibilities include scheduling, budget, subconsultants, preparation of study reports.	\$155.00
Senior Engineer Bill Marcato, PE	Task Order level support for Structural & Bridge Design.	\$155.00
Senior Engineer Jeff Dankenbring, PE	Cost Estimating Task Leader. Task Order Level services for Roadway & Pavement Design. Responsibilities include budgets, subconsultants, schedules, and preparation of cost estimates.	\$155.00
Senior Environmental Scientist Evan Kirby, GISP	GIS Task Leader. Provide GIS support to design and planning projects, create database and maps as projects require. Responsible for directing schedules and preparation of budgets.	\$155.00
Engineer V Larry Lang, PE, PTOE	Traffic Signal & Signal System Design and Traffic Signal Systems Communications Task Leader. Responsible for design of traffic signals and signal systems. Directing subconsultants and preparation of budgets and plans. Task Order level services for Signal System Management and Performance Measurement.	\$140.00
Transportation Planner V Jenny Young, PE, PTP	Task Order level support for Multi-mode Planning, Traffic Operations Simulation, Traffic Forecasting, and Development-Related TIAs.	\$140.00
Scientist V Kevin Maddoux, AICP	Environmental Studies Task Leader. Responsible for allocation of environmental staff, the conduct of Environmental	\$140.00

Table Classification	Responsibilities	Rate/Hr.
	Assessments, preparation of reports, and obtaining clearances as needed. Task order-level responsibilities include staffing, scheduling, budget, subconsultants, and deliverables management.	
Engineer IV Pat Stein, PE	Deputy Project Manager, responsible for program management. Design Services Task Leader. Responsible for appropriate task lead assignments. Task Leader for Structural & Bridge Design, Project Management Services, and CADD & Drafting. Task order responsibilities include staffing, scheduling, budget, subconsultants, and deliverables management	\$130.00
Engineer IV Shawn Dankenbring, PE, D.WRE, CFM	Hydraulic & Hydrologic Studies Task Leader and Utilities Design Co-Task Leader. Responsible for the conduct of hydraulic design, hydrologic studies, and preparation of plans. Direct (wet) utility designs, budgets, plan preparation and coordination with (dry) utilities subconsultants.	\$130.00
Engineer II Kendra Gabbert, PE, CFM	Hydraulic & Hydrologic Studies task support.	\$100.00
Environmental Technician II Linda Gann	Clerical/contract Administration Support Task Leader for any task order issued under General Services contract.	\$85.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.91

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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

1. Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of Denver Metropolitan area, when authorized by the City under this Agreement.
2. Actual cost of reproduction of drawings and specifications.
3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Felsburg Holt & Ullevig

<u>Item</u>	<u>Charge Rate</u>
Plots	
Bond	\$ 0.24/sq ft
Glossy	\$ 0.71/sq ft
Mylar.	\$ 0.55/sq ft
Vellum	\$ 0.39/sq ft
Prints	
Black and White	\$ 0.08/print
Color	\$ 0.19/print
Presentation Boards	
Bond Foam Core Mounted	\$ 1.22/sq ft
Glossy Foam Core Mounted	\$ 1.69/sq ft
Computer Projector	\$100.00/meeting
Travel	
Mileage (subsistence outside Metro Area)	\$ 0.555/Mile
Truck (Construction)...	\$ 40.00/day
Other Miscellaneous Costs	
Courier	Actual Vendor Costs
Postage	Actual Vendor Costs
Deliveries.	Actual Vendor Costs
Per Diem	Actual Vendor Costs
Subconsultants.	Actual Subconsultant Costs
Field Equipment	
Trimble GPS	\$ 45.00/day
Blue Tooth Camera for GPS..	\$ 35.00/day
Outside – Materials/Supplies/Services	Cost Plus 10%

Other direct costs are reimbursed at a rate of 1.1 times the rates above and / or actual costs.

Firm Name: ALL TRAFFIC DATA

Title/Classification	Responsibilities	Rate/Hr.
Principal	Contracts/Administration, QA/QC Oversight	75.00
Sr. Project Manager	Project management, budget management, manage staff resources, prepare traffic data collection deliverables	
Project Manager	Field performance of traffic data collection	62.50
Project Engineer		
Project Inspector		
Senior Drafter		
CAD Technician		50.00
Word Processing / Clerical		

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

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

ALL TRAFFIC DATA SERVICES, Inc.

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

1. Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of Denver Metropolitan area, when authorized by the City under this Agreement.
2. Actual cost of reproduction of drawings and specifications.
3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: _____

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u>NA</u> /day
Copies (8 ½ x 11")	\$ <u>NA</u> /each
Copies (8 ½ x 14")	\$ <u>NA</u> /each
Red-line copies	\$ <u>NA</u> /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u>NA</u> /page
Mylar	\$ <u>NA</u> /S.F.
Sepias	\$ <u>NA</u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10% - NA

LIST OF BILLING RATES



Provide a listing of responsibilities for each of the personnel classifications below, as well as your firm’s actual classifications to be used on this contract.

Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: Apex Design, PC

Table Classification	Responsibilities	Rate/Hr.
Principal	ITS Infrastructure and Traffic Engineering Tasks and Task Management	\$135.00
Senior Design Engineer	ITS and Traffic Engineering Design	\$100.00
Design Engineer	ITS and Traffic Engineering Support	\$90.00
Civil Engineering Technician	Field Support and Troubleshooting	\$75.00
Project Administrator	Task Order Administration	\$80.00
Project Assistant	Project Support	\$65.00

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

**ATTACHMENT 3
REIMBURSABLE EXPENSES**



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

1. Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of Denver Metropolitan area, when authorized by the City under this Agreement.
2. Actual cost of reproduction of drawings and specifications.
3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Apex Design, PC

List of Expenses

<u>Item</u>	<u>Charge Rate</u>	
Subsistence outside Metro Area	\$ 250.00	/day
Copies (8 ½ x 11") Black and White	\$ 0.07	/each
Copies (8 ½ x 11") Color	\$ 1.00	/each
Copies (11 x 17") Black and White	\$ 0.15	/each
Copies (11 x 17") Color	\$ 1.50	/each
Roll plots	\$ 1.00	/S.F.
Outside – Materials/Supplies/Services	Cost Plus	10%

LIST OF BILLING RATES



Provide a listing of responsibilities for each of the personnel classifications below, as well as your firm's actual classifications to be used on this contract.

Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: All Traffic Data Services, Inc.

Table Classification	Responsibilities	Rate/Hr.
Civil Engineer	Drafting	\$75.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 0

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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

1. Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of Denver Metropolitan area, when authorized by the City under this Agreement.
2. Actual cost of reproduction of drawings and specifications.
3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Appius Engineering, LLC

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u>NA</u> /day
Copies (8 ½ x 11")	\$ <u>NA</u> /each
Copies (8 ½ x 14")	\$ <u>NA</u> /each
Red-line copies	\$ <u>NA</u> /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u>NA</u> /page
Mylar	\$ <u>NA</u> /S.F.
Sepias	\$ <u>NA</u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

**Attachment 2
Billing Rates**

Alfred Benesch & Company

Title/Classification	Responsibilities	Rate/Hr.
Senior Project Manager	Supervision of design and inspection tasks. Preparation of engineering and inspection reports	\$190/hr
Project Manager II	Project management of design and inspection tasks. Preparation of engineering and inspection reports.	\$160/hr
Project Manager I	Project management of design and inspection tasks. Preparation of engineering and inspection reports.	\$145/hr
Project Engineer II	Lead structural designer or inspector. Preparation of reports or design calculations and drawings.	\$113/hr
Project Engineer I	Lead structural designer or inspector. Preparation of reports or design calculations and drawings.	\$93/hr
Designer II	Structural inspection and preparation of reports.	\$83/hr
Senior Technologist	Structural inspection and preparation of reports. Preparation of drawings, maps and photographs.	\$116/hr
Technologist II	Structural inspection and preparation of reports.	\$78/hr
Technologist I	Structural inspection and preparation of reports.	\$57/hr

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.93

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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

1. Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of Denver Metropolitan area, when authorized by the City under this Agreement.
2. Actual cost of reproduction of drawings and specifications.
3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Alfred Benesch & Company

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u>n/a</u> /day
Copies (8 ½ x 11")	\$ <u>n/a</u> /each
Copies (8 ½ x 14")	\$ <u>n/a</u> /each
Red-line copies	\$ <u>n/a</u> /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u>n/a</u> /page
Mylar	\$ <u>n/a</u> /S.F.
Sepias	\$ <u>n/a</u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

LIST OF BILLING RATES

Provide a listing of responsibilities for each of the personnel classifications below, as well as your firm's actual classifications to be used on this contract.

Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: Clanton & Associates, Inc.

Table Classification	Responsibilities	Rate/Hr.
Project Principal	Oversees fees, contracts, tracks progress.	\$180/hr
Senior Designer	Electrical designer	\$100/hr
Engineer	Designs, performs calculations, chooses fixtures	\$90/hr
Designer	Designs, performs calculations, chooses fixtures, tracks budget and timing	\$90/hr
CAD Technician	Oversees and prepares drawings	\$60/hr

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.5

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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

1. Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of Denver Metropolitan area, when authorized by the City under this Agreement.
2. Actual cost of reproduction of drawings and specifications.
3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Clanton & Associates, Inc

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ _____ /day
Copies (8 ½ x 11")	\$ <u>.10</u> /each
Copies (8 ½ x 14")	\$ <u>.15</u> /each
Red-line copies	\$ _____ /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u>1.75</u> /page
Mylar	\$ <u>1.25</u> /S.F.
Sepias	\$ <u>2.00</u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

LIST OF BILLING RATES

Provide a listing of responsibilities for each of the personnel classifications below, as well as your firm's actual classifications to be used on this contract.

Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: LS Gallegos & Associates

Table Classification	Responsibilities	Rate/Hr.
Project Management	Project/Contract Management and Alternative. Project Delivery (Design-Build, CM/GC) Consulting. Engineering Estimates. Preparation of Engineering and Inspection Reports.	\$217.88

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.75

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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

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2. Actual cost of reproduction of drawings and specifications.
3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: LS Gallegos & Associates

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u> * </u> /day
Copies (8 ½ x 11")	\$ <u> N/C </u> /each
Copies (8 ½ x 14")	\$ <u> N/C </u> /each
Red-line copies	\$ <u> N/A </u> /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u> N/A </u> /page
Mylar	\$ <u> N/A </u> /S.F.
Sepias	\$ <u> N/A </u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

***Actual Cost**

LIST OF BILLING RATES

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- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: **Goodbee & Associates, Inc.**

Table Classification	Responsibilities	Rate/Hr.
Principal	Oversees all projects	\$145
Lead Project/Construction Engineer	Lead Utility Coordination for Construction projects	\$135
Lead Project Manager	Project Management	\$135
Lead Project Engineer	Utility Coordination Lead	\$135
Project Assistant	Project Administration	\$83
Staff Engineer	Utility Coordination	\$108
Field Project Manager	Utility Coordination	\$108
Field Engineer	Utility Coordination	\$93
Administrative/Clerical	Project Administration	\$93
Utility Field Coordinator	Utility Coordination	\$72

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: **Approx. 2.8**

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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

1. Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of Denver Metropolitan area, when authorized by the City under this Agreement.
2. Actual cost of reproduction of drawings and specifications.
3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Goodbee & Associates, Inc.

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u>NA</u> /day
Copies (8 ½ x 11")	\$ <u>\$0.10</u> /each
Copies (8 ½ x 14")	\$ <u>\$0.10</u> /each
Red-line copies	\$ <u>\$ at cost</u> /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u>\$ at cost</u> /page
Mylar	\$ <u>\$ at cost</u> /S.F.
Sepias	\$ <u>\$ at cost</u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

LIST OF BILLING RATES

Provide a listing of responsibilities for each of the personnel classifications below, as well as your firm's actual classifications to be used on this contract.

Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: Independent District Engineering Services, LLC

Table Classification	Responsibilities	Rate/Hr.
Principal/District Engineer	Normally acts a representative of District Board, provides recommendations for Board Consideration, QA/QC Activities, Attends Board Meetings, District Compliance of Title 32, Reviews final work product	130.00
Project Manager	Project Management, client, jurisdiction coordination, Prepares District Compliance Reports	120.00
Construction Manager	Construction Site Oversight, Contract and Construction Administration	120.00
Senior Engineers	Prepares Project work product, estimates, schedules, construction administration documentation	98.00
Field Engineers	Observes, photos and records construction activities	98.00
Assistant Engineer/Field Tech	Provides support to Engineers, take-offs, spreadsheet preparation, invoice processing for District	83.00
Project Administrator	Document Control, Report and Contract Document preparation	65.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.7

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Independent District Engineering Services, LLC

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ _____ /day
Mileage	_____ <u>IRS Rate + 10%</u> /mile
Copies (8 ½ x 11")	\$ <u>0.05</u> /each
Copies (8 ½ x 14")	\$ <u>0.05</u> /each
Red-line copies	\$ _____ /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ _____ /page
Mylar	\$ _____ /S.F.
Sepias	\$ _____ /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%
Subconsultants	Cost Plus 10%

LIST OF BILLING RATES

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- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: Navjoy Consulting Services, Inc

Table Classification	Responsibilities	Rate/Hr.
President/Project Manager	Overall responsibility for project management	\$135/hour
Senior Network Engineer	Fiber optic and network design	\$125/hour
Lead Project Engineer	Assist in project development and design	\$65/hour

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

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Navjoy Consulting Services, Inc

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ _____ /day
Copies (8 ½ x 11")	\$ _____ 0.12/each
Copies (8 ½ x 14")	\$ _____ /each
Red-line copies	\$ _____ /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ _____ /page
Mylar	\$ _____ /S.F.
Sepias	\$ _____ /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

LIST OF BILLING RATES



Provide a listing of responsibilities for each of the personnel classifications below, as well as your firm's actual classifications to be used on this contract.

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Firm Name: Pie Consulting & Engineering

Table Classification	Responsibilities	Rate/Hr.
Principal	A Principal is an owner of the organization and head of a business Group. A Principal is responsible for the planning and direction of his Group including business development, client relations, profitability and collections. The principal also conducts advanced engineering, building science and consulting work in the field and office.	\$220.00
Department Manager	The Department Manager has a Bachelor's Degree in Engineering, Architecture or Construction Management from an accredited program and possesses a minimum of 10 years of experience. This professional coordinates the projects for the group and is ultimately responsible for the success of the projects within the department. They are also responsible for project scope and budget determination, management, and quality of work product. A Department Manager is responsible for managing staff, business development, client relations, proposal development, contract negotiations, as well as providing leadership and promoting the department and company vision. This professional will be a licensed P.E. or architect or have equivalent experience and education combined	\$200.00

	with full responsibility for large, complex projects or a number of large projects. This professional reports directly to a Principal and has administrative qualifications needed to oversee and manage the project managers and staff within his department.	
Senior Forensic Architect	A Senior Forensic Architect is licensed in the State of Colorado and performs a variety of skilled and specialized senior level architectural work in the office and field. This individual independently performs most major projects with limited involvement from the Principal or Department Manager. This professional conducts investigations into the origin and cause of damages related to building components or products failing to perform their intended function. This individual is responsible for the planning, scheduling, execution and coordination of the projects, depending on the type of project.	\$180.00
Senior Forensic Engineer	A Senior Forensic Engineer is a Professional Engineer in the State of Colorado that performs a variety of skilled and specialized senior level professional engineering work in the office and field. This individual independently performs most major projects with limited involvement from the Principal or Department Manager. This professional conducts investigations into the origin and cause of damages related to building components or products failing to perform their intended function. This individual is responsible for the planning, scheduling, execution and coordination of the projects, depending on the type of project.	\$175.00
Senior Project Manager	The Department Manager has a Bachelor's Degree in Engineering, Architecture or Construction Management from an accredited program and possesses a minimum of 10 years of experience. This professional coordinates the projects for the group and is ultimately responsible for the success of the projects within the department. They are also responsible for project	\$175.00

	<p>scope and budget determination, management, and quality of work product. A Department Manager is responsible for managing staff, business development, client relations, proposal development, contract negotiations, as well as providing leadership and promoting the department and company vision. This professional will be a licensed P.E. or have equivalent experience and education combined with full responsibility for large, complex projects or a number of large projects. This professional reports directly to a Principal and has administrative qualifications needed to oversee and manage the project managers and staff within his department.</p>	
Forensic Engineer	<p>A Forensic Engineer is a licensed professional engineer in the State of Colorado that performs professional engineering work in the office and field under general supervision. The engineer conducts investigations into the origin and cause of damages related to building components or products failing to perform their intended function. This professional is responsible for the management of small to mid-sized projects including the coordination of all aspects of the project. This individual interacts with the client as necessary to complete the project, including clarification of work scope and budgeting of work.</p>	\$160.00
Forensic Specialist	<p>The Forensic Specialist is a non-licensed individual with an engineering or construction background who may be an entry level hire (zero years' experience). This individual uses standard techniques and practices to perform engineering assignments, assessments and investigations under the guidance of experienced/licensed professional engineers. This individual has knowledge of design practices and codes and is able to perform consulting tasks as requested by the licensed engineer under their supervision.</p>	\$150.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3 to 5

**ATTACHMENT 3
REIMBURSABLE EXPENSES**



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

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3. Expendable supplies and services, such as aerial photography other than those normally used in an engineering office, provided especially under this Agreement for the Benefit of the City-actual cost plus Ten Percent (10%).

The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: Pie Consulting & Engineering

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u>50.00</u> /day
Copies (8 ½ x 11" b/w)	\$ <u>.10</u> /each
Copies (8 ½ x 14" b/w)	\$ <u>.12</u> /each
Copies (11 x 17" b/w)	\$ <u>.15</u> /each
Copies (8 ½ x 11" color)	\$ <u>.30</u> /each
Copies (8 ½ x 14" color)	\$ <u>.36</u> /each
Copies (11 x 17" color)	\$ <u>.45</u> /each
Red-line copies (24"x36", ANSI D)	\$ <u>12.00</u> /page
Plan Reproduction (24"x36", ANSI D)	\$ <u>10.00</u> /page
Outside – Materials/Supplies/Services	Cost Plus 10%

Firm Name: PKM Design Group, Inc.

Title/Classification	Responsibilities	Rate/Hr.
Principal Landscape Architect	Manages staffing, billing, scheduling of task orders, quality assurance and design oversight	\$120.00
Senior Project Manager	Manages task order production, budgets, public involvement	\$120.00
Project Manager	Manages task order production, design, specifications, cost estimating	\$92.00
Project Landscape Architect	Landscape, urban design, cost estimates, graphics	\$46.00
CAD Technician	Landscape, urban design, cost estimates, graphics	\$58.00
Irrigation Designer	Irrigation design, details, specifications and cost estimating	\$81.00
Wetland Scientist	Conducts wetland investigations, prepares mitigation plans and reports, permitting	\$92.00
Certified Arborist	Vegetation inventories and assessments	\$92.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.3

PKM
ATTACHMENT 3
REIMBURSABLE EXPENSES

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The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area (Federal Government Per Diem Rate)	\$ _____ / day
Copies (8 1/2 x 11")	\$ <u>.10</u> / each
Copies (8 1/2 x 14")	\$ <u>.15</u> / each
Red-line copies	\$ <u>.25</u> / S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u>1.25</u> / page
Mylar	\$ <u>3.75</u> /S.F.
Sepias	\$ <u>2.23</u> /S.F.
Outside - Materials/Supplies/Services	Cost plus 10%

LIST OF BILLING RATES

Provide a listing of responsibilities for each of the personnel classifications below, as well as your firm's actual classifications to be used on this contract.

Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
- Project management to include preparation of pay requests and budget management
- Preparation of Drawings, Maps and photographs
- Preparation of Engineering Estimates

Firm Name: 105 West, Inc.

Table Classification	Responsibilities	Rate/Hr.
Director of Survey/Mapping	Manage Projects/Perform Boundary Survey work and ROW work	\$ 115.00
Project Surveyor	Manage Projects/day-to-day field operations and perform all surveying	\$ 90.00
Survey Technician	Perform all types of surveying required for project completion	\$ 75.00
Survey Crew (2-Man)	Perform field work and coordination	\$ 125.00
Survey Crew (1-Man)	Perform field work and coordination	\$ 105.00
Survey Crew (3-Man)	Perform field work and coordination	\$ 190.00
Administrative	Perform administrative duties	\$ 50.00

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

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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The Consultant will be required to submit a complete list of reimbursable items for all of the Consultant's charges. A typical list of reimbursable items is noted herein and can be modified by the Consultant to conform to the present needs and operations.

Firm Name: 105 West, Inc.

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u>66</u> /day
Copies (8 ½ x 11")	\$ <u>0.12</u> /each
Copies (8 ½ x 14")	\$ <u>0.14</u> /each
Red-line copies	\$ <u>N/A</u> /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u>N/A</u> /page
Mylar	\$ <u>25/sheet</u> /S.F.
Sepias	\$ <u>10/sheet</u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

LIST OF BILLING RATES

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Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
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- Preparation of Engineering Estimates

Firm Name: Yeh and Associates, Inc.

Table Classification	Responsibilities	Rate/Hr.
Principal	Establish Goals and Objectives	\$160
Sr. Project Manager	Project and Budget Management	\$145
Project Manager	Preparation of Engineering Estimates	\$135
Sr. Project Engineer or Geologist	Preparation of Engineering Reports	\$113
Graphics Specialist	Preparation of Drawings, Maps	\$120
Sr. Project Inspector	Preparation of Inspection Reports	\$98
Project Engineer or Geologist	Field Engineering	\$98
Field Inspector	Construction Inspection	\$88
Staff Engineer or Geologist	Field Engineering	\$83
Sr. Field Engineering Technician	Preparation of test Reports	\$77
Field Engineering Technician	Construction Testing	\$67
Laboratory Technician	Lab Testing	\$62

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 1

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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Firm Name: Yeh & Associates

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u> 120 </u> /day
Copies (8 ½ x 11")	\$ <u> </u> /each
Copies (8 ½ x 14")	\$ <u> </u> /each
Red-line copies	\$ <u> </u> /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u> </u> /page
Mylar	\$ <u> </u> /S.F.
Sepias	\$ <u> </u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

LIST OF BILLING RATES

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Each Subconsultant should also complete this form. Such responsibilities may include:

- Preparation of Engineering and Inspection Reports
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Firm Name: Zoeller Consulting, LLC

Table Classification	Responsibilities	Rate/Hr.
Public Involvement	Developing & implementing outreach plan; agency coord.	\$120/hr

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 1.4

**ATTACHMENT 3
REIMBURSABLE EXPENSES**

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Firm Name: Zoeller Consulting, LLC

List of Expenses

<u>Item</u>	<u>Charge Rate</u>
Subsistence outside Metro Area	\$ <u>N/A</u> /day
Copies (8 ½ x 11")	\$ <u>Cost + 10%</u> /each
Copies (8 ½ x 14")	\$ <u>Cost + 10%</u> /each
Red-line copies	\$ <u>N/A</u> /S.F.
Plan Reproduction (24"x36", ANSI D)	\$ <u>N/A</u> /page
Mylar	\$ <u>N/A</u> /S.F.
Sepias	\$ <u>N/A</u> /S.F.
Outside – Materials/Supplies/Services	Cost Plus 10%

EXHIBIT C
KEY PERSONNEL

ATTACHMENT 2

LIST OF KEY PERSONNEL



(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Principal II	Dean Bradley, PE
Principal II	Elliot Sulsky, PE, AICP
Principal II	Thor Gjelsteen, PG
Associate	Dave Hattan, PE, PTOE
Associate	Tom Nead, PE
Associate	Rich Follmer, PE, PTOE
Senior Engineer	Jeanne Sharps, PE
Senior Engineer	Michelle Stevens, PE
Senior Engineer	Stephanie Sangaline, PE, CPESC
Senior Engineer	Jeff Ream, PE, PTOE
Senior Engineer	Bill Marcato, PE
Senior Engineer	Jeff Dankenbring, PE
Senior Environmental Scientist	Evan Kirby, GISP
Engineer V	Larry Lang, PE, PTOE
Scientist V	Kevin Maddoux, AICP
Transportation Planner V	Jenny Young, PE, PTP
Engineer IV	Patrick Stein, PE
Engineer IV	Shawn Dankenbring, PE, D.WRE, CFM
Engineer II	Kendra Gabbert, PE, CFM
Environmental Technician II	Linda Gann

ALL TRAFFIC DATA SERVICES, Inc.

ATTACHMENT 2

LIST OF KEY PERSONNEL

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Principal	Dawn BOLDIN
Project Manager	ERIC BOLDIN
Project Engineer	
Senior Drafter	
CAD Technician	NATHAN WARREN
Word Processing / Clerical	
Other	
Other	
Other	
Other	

ATTACHMENT 2

LIST OF KEY PERSONNEL



(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Civil Engineer	Nancy Magliery

ATTACHMENT 2

LIST OF KEY PERSONNEL

Alfred Benesch & Company

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Senior Project Manager	Steven C. Banks
Project Manager II	Daniel J. Bechtold
Project Manager II	Mark J. McDonald
Project Engineer I	Sally Doles
Senior Project Manager	Mark A. Hamouz
Project Manager II	William A. Dietrick
Technologist II	Andrew Brown
Designer II	Neil Isales
Senior Project Manager	Walter Mystkowski

ATTACHMENT 2

LIST OF KEY PERSONNEL

Clanton & Associates, Inc

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Project Principal	Nancy Clanton
Senior Designer	Gregory Flageolle
Senior Designer	Gregg Adams
Senior Designer	David Roederer
Engineer	Dane Sanders
Engineer	Jessica Garcia
Engineer	Josephine Wratten
CAD Technician	Jon Ehnert

ATTACHMENT 2

LIST OF KEY PERSONNEL

LS Gallegos & Associates, Inc.

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Project Manager/CM Support Services	Matthew M. McDole, P.E. – LS Gallegos & Associates, Inc.

ATTACHMENT 2

LIST OF KEY PERSONNEL

Goodbee & Associates

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Principal	Lisa A. Goodbee, PE
Lead Project/Construction Engineer	Laura Baxter
Lead Project/Construction Engineer	Laura Harmon
Lead Project Manager	Elissa Roselyn
Lead Project Engineer	Sandi Mendonca, PE
Project Assistant	Carolyn Baudermann
Staff Engineer	Dana Bijold, PE
Staff Engineer	Sheresa Lehocky, EIT
Field Project Manager	Brandy Sloan
Field Engineer	Mary Klopfenstein, EIT
Administrative/Clerical	Marny Pavelka
Utility Field Coordinator	Marisa Beaver

ATTACHMENT 2

LIST OF KEY PERSONNEL

Independent District Engineering Services, LLC

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Principal/District Engineer	Guy T. Ford, PE
Project Manager/Senior Engineer	Kim Fiore, PE
Senior Landscape Architect / Field Engineer	Varnell E. Roberts
Project Administrator	Tara Garner

ATTACHMENT 2

LIST OF KEY PERSONNEL

NAVJOY CONSULTING SERVICES

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
President/Project Manager	Navin Nageli. P.E
Senior Network Engineer	William Kascek Jr
Lead Project Engineer	Santhi Malasani

ATTACHMENT 2

LIST OF KEY PERSONNEL



(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Principal, Building Science Group	Eric Amhaus
Principal, Forensic Consulting & Investigation Group	Matt Blackmer, M.S.C.E., P.E. Matthew D. Heron, M.S., P.E., LEED® AP
Department Manager, Building Science Group	Joseph F. Smith, AIA
Senior Forensic Architect	Christopher L. Moulder, P.E. Francisco C. Reina, CPHC, PHIUS+ Rater, GAE Certified, RESNET QA, BPI Analyst
Senior Forensic Engineer	Stuart Mitchell, P.E.
Senior Project Manager	Dustin Smoot, RRO, RRC, LEED® AP
Forensic Engineer	
Forensic Specialist	

ATTACHMENT 2

**LIST OF KEY PERSONNEL
PKM DESIGN GROUP**

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Principal Landscape Architect	Patricia Miers
Project Manager	Patricia Miers
Project Manager	Charles Schrader
Project Landscape Architect	Mitchell Workmon
CAD Technician	Carl Fisher
Irrigation Designer	Doug Smith
Wetland Scientist	Charles Schrader
Certified Arborist	Charles Schrader

ATTACHMENT 2

105 WEST, INC.

LIST OF KEY PERSONNEL

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Survey Manager	Robert C. Maestas
Project Surveyor	Richard D. Muntean
Survey Technician	Joe Maestas
Party Chief	Daniel Fredrick
Party Chief	Jesse Klabunde
Instrument Operator	Michael Richards
Instrument Operator	Kyle Daley

ATTACHMENT 2

YEH & ASSOCIATES

LIST OF KEY PERSONNEL

(Consultant may copy this page or modify it to conform to the services being offered.)

PERSONNEL CLASSIFICATION	NAME OF INDIVIDUAL
Senior Project Manager	Bob LaForce
Senior Project Manager	Jere Strickland

TAB 2 — KEY PERSONNEL

Following are brief biographies of our team's key leaders who will be responsible for the overall contract management and project management as task orders are assigned. Our experience serving in this same role for the City and County of Denver (CCD) successfully in the past will provide continuity and familiarity to your staff. As you will see in figures 1 and 2 on the following pages, our team consists largely of the same firms who served you in the last on-call contract. Figure 1, the Team Organization Chart, provides a comprehensive overview of the team assignments. The Key Personnel & Responsibilities matrix in Figure 2 summarizes the areas of responsibilities for each team member and shows the percentage of commitment to his or her respective roles.

Prime Consultant – Project Managers



David Hattan, PE, PTOE will serve as your **Project Manager** for this contract, responsible for assuring that each project meets CCD's service, budget, and schedule expectations. Serving as the Project Manager for the On-Call Design Services contracts since 1995, Dave has demonstrated his capacity to

fulfill this role to CCD's satisfaction. In his time, he has worked with many City and County of Denver project managers that can be anticipated to lead the task orders under the general service contract. This way, the FHU team provides management continuity for this critical position. The two most recent On-Call contracts for CCD have involved a total of 29 individual task orders for the general engineering design contract and 31 task orders for the traffic engineering contract. He will be Project Manager James Barwick's primary point of contact to initiate new task orders and for project updates. Dave will have overall responsibility for subconsultant and budget management and project scoping, thereby ensuring appropriate resource allocation occurs on each project. Dave will also be the Team Leader for Miscellaneous Services, and serve as the Task Leader for Development-related TIAs (Planning Services) and Traffic and Safety Analysis and Other Traffic Studies (Miscellaneous Services).

Dave brings more than 40 years of experience in managing traffic engineering and planning projects of all scopes. Dave's understanding of on-call contracts will be of particular benefit to CCD, as, in addition to the current Denver contract, he has been the Project Manager for the three Traffic Engineering NPS contract for CDOT Regions 1, 2, 4, 6, and HQ Traffic. He also serves as the Town Traffic Engineer for the Towns of Erie

(since 1995) and Johnstown (since 1999) which has given him valuable insight into projects from an agency perspective with the need for continuity and consistency between developments and through the life-cycle of an individual project from conception to completion.



Patrick Stein, PE will serve as your **Deputy Project Manager** for this contract, assisting Dave Hattan in assuring that each project meets CCD's expectations, and acting as an alternate point of contact for James Barwick. A significant portion of the work requested from the past General Engineering Services contract

was design work, and we anticipate similar needs moving forward. Patrick will bring his experience delivering CCD design projects to this role, ensuring efficient project delivery on design efforts. Patrick has become a leader for our current On-Call Design Services contract, and is well positioned to fulfill this role moving forward. Patrick is one of FHU's lead design engineers and has served as Project Manager on a wide array of Denver Projects, encompassing bridges, roadways, trails and multimodal improvements. He has worked directly with many City and County of Denver project managers likely to require support under the general service contract. Recent CCD On-Call projects that Patrick has managed include the Evans Viaduct Bridge Rehabilitation, 1st & Cherry Creek Trail Improvements, 47th over Sand Creek LOMR, and Weir Gulch CBC Rehabilitation. This Deputy Project Manager role will serve to support Dave Hattan's role and to provide the appropriate design-related leadership needed for this on-call contract.



Dean Bradley, PE will serve as **Principal-in-Charge**. In this role, Dean will ensure that sufficient resources are available to Dave and Patrick, to ensure every task order is completed efficiently and cost effectively. He will also be available for QA/QC oversight as needed. With more than 31 years of transportation

management, design, and construction engineering experience in Colorado, Dean has served in this role on numerous general services contracts and understands the scheduling expertise, staff availability, and flexibility required in order to successfully administer these contracts. Recent examples include the current General Engineering Services On-Call contract with CCD, Valley Highway Environmental Impact Statement (EIS), Final Design for I-25 at Santa Fe and Alameda, E-470 Highway Authority General Engineering, Town of Castle Rock Professional On-Call Services, Town of Parker Professional Civil Engineering Services, and Weld County On-Call Services contracts.

FIGURE 1 - TEAM ORGANIZATION CHART

KEY			
FHU	Felsburg Holt & Ullevig	GA	Goodbee & Associates
105	105 West, Inc.	IDE	Independent District Engineering Services
AD	Apex Design	LSG	LS Gallegos
AE	Appius Engineering	NCS	Navjoy Consulting Services
ATD	All Traffic Data	PCE	Pie Consulting and Engineering
BEN	Benesch	PKM	PKM Design Group
CA	Clanton & Associates	YA	Yeh & Associates
		ZC	Zoeller Consulting

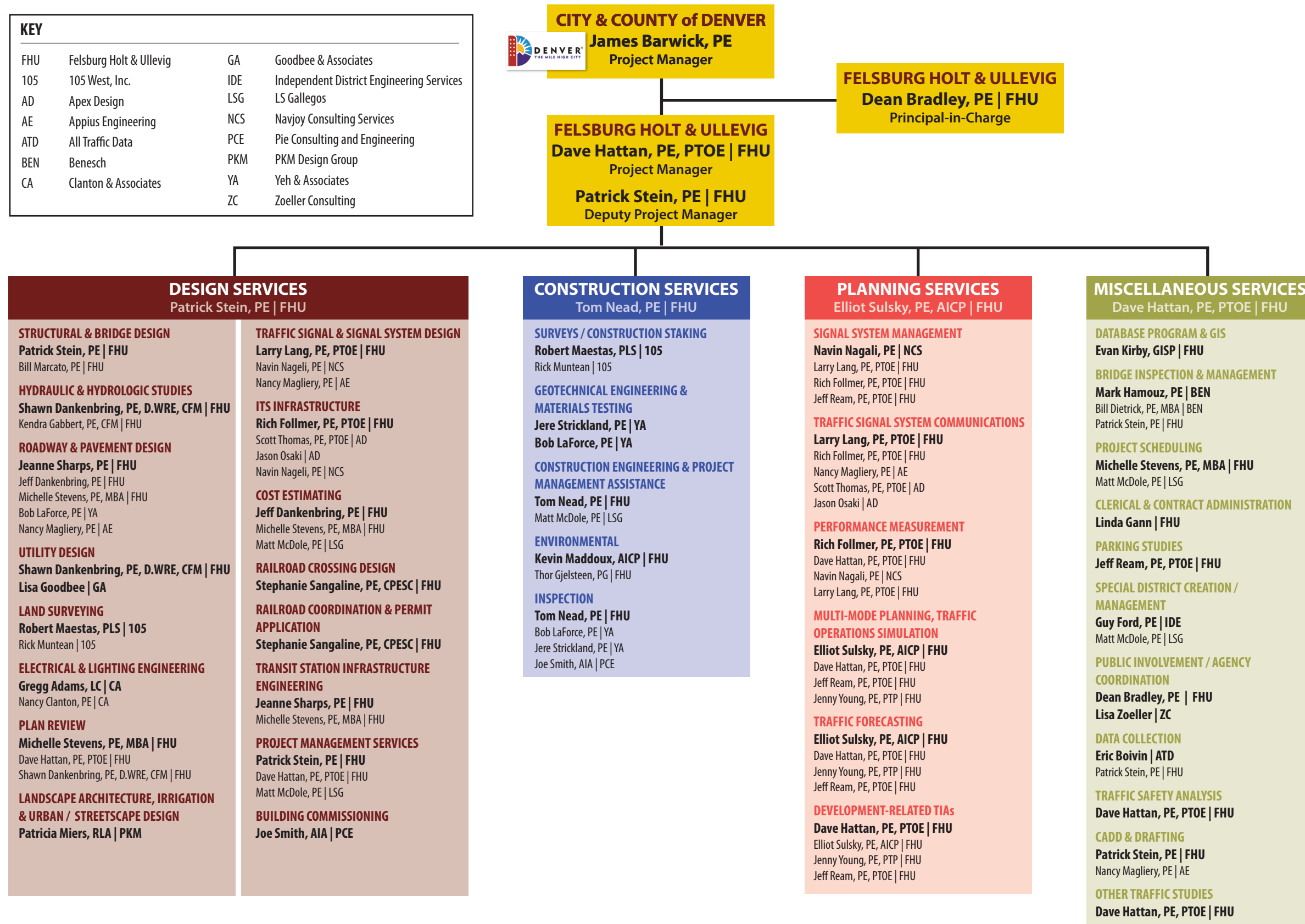


FIGURE 2 - KEY PERSONNEL & RESPONSIBILITIES

KEY

- Team Leader
- Task Leader
- Task Support

	Dean Bradley, PE	Dave Hattan, PE, PTOE	Patrick Stein, PE	Tom Nead, PE	Elliot Sulsky, PE, AICP	Jeanne Sharps, PE	Shawn Dankenbring, PE, D.WRE, CFM	Bill Marcato, PE	Michelle Stevens, PE, MBA	Kendra Gabbert, PE, CFM	Larry Lang, PE, PTOE	Rich Follmer, PE, PTOE	Stephanie Sangaline, PE, CPESC	Thor Gjelsteen, PG	Kevin Maddoux, AICP	Jenny Young, PE, PTP	Jeff Ream, PE, PTOE	Evan Kirby, GISP	Jeff Dankenbring, PE	Linda Gann	Robert Maestas, PLS	Rick Muntean	Scott Thomas, PE, PTOE	Jason Osaki	Nancy Magliery, PE	Eric Boivin	Mark Hamouz, PE	Bill Dietrick, PE	Gregg Adams, LC	Nancy Clanton, PE	Lisa Goodbee	Guy Ford	Navin Nageli, PE	Joe Smith, AIA	Patricia Miers, RLA	Bob LaForce, PE	Jere Strickland, PE	Lisa Zoeller	Matt McDole, PE									
PERCENT COMMITMENT	10	30	40	25	20	30	40	30	30	30	30	30	20	20	40	35	35	25	25	25	50	50	35	25	30	20	15	25	30	20	25	25	45	10	25	25	25	25	20									
FIRM																					105	AD	AE	ATD	BEN	CA	GA	IDE	NCS	PCE	PKM	YA	ZC	LSG														
DESIGN SERVICES																																																
Structural & Bridge Design			■					■																																								
Hydraulic & Hydrologic Studies						■			■																																							
Roadway & Pavement Design						■			■																■																							
Utility Design						■																																										
Land Surveying																																																
Electrical & Lighting Engineering																																																
Plan Review			■						■																																							
Landscape Architecture, Irrigation & Urban / Streetscape Design																																																
Traffic Signal & Signal System Design																																																
ITS Infrastructure																																																
Cost Estimating																																																
Railroad Crossing Design																																																
Railroad Coordination & Permit Application																																																
Transit Station Infrastructure Engineering																																																
Project Management Services																																																
Building Commissioning																																																
CONSTRUCTION SERVICES																																																
Surveys / Construction Staking																																																
Geotechnical Engineering & Materials Testing																																																
Construction Engineering & Project Management Assistance																																																
Environmental Studies																																																
Inspection																																																
PLANNING SERVICES																																																
Signal System Management																																																
Traffic Signal System Communications																																																
Performance Measurement																																																
Multi-Mode Planning, Traffic Operations Simulation																																																
Traffic Forecasting																																																
Development-Related TIAs																																																
MISCELLANEOUS SERVICES																																																
Database Program & GIS																																																
Bridge Inspection & Management																																																
Project Scheduling																																																
Clerical & Contract Administration																																																
Parking Studies																																																
Special District Creation / Management																																																
Public Involvement / Agency Coordination																																																
Data Collection																																																
Traffic Safety Analysis																																																
CADD & Drafting																																																
Other Traffic Studies																																																

Prime Consultant – Team Leaders

Patrick Stein will also be the **Design Services Team Leader**. Patrick is involved in many of the current design projects for Denver, and will leverage his understanding of design project expectations to delegate tasks and assemble efficient teams. Patrick is well versed in CCD's CPEP guidelines, review processes, and agency coordination requirements, and will utilize his experience to ensure projects are properly staffed, and are delivered to CCD's expectations.

Patrick will be working with a strong team of design task leaders, with a robust history of delivering on CCD projects.

Jeanne Sharps, Shawn Dankenbring, Michelle Stevens, Stephanie Sangaline, and **Jeff Dankenbring** all bring Denver project experience, giving us the capability to manage and undertake any scope items as requested in this RFP.



Thomas Nead, PE will be the **Construction Services Team Leader** for this contract. For the last twelve years, Tom has been responsible for managing FHU's construction services and our group of construction engineers and technicians. Tom will serve as Task Leader for multiple scope items:

Construction Engineering and Project Management

Assistance and Inspection. Tom's recent projects have aided several municipal clients, including the Cities of Westminster, Thornton and Black Hawk; the Town of Castle Rock, as well as the City and County of Broomfield. Tom has been in responsible charge of six large interchange projects as well as numerous smaller efforts, such as intersection improvements and traffic signal projects. His understanding of project administration procedures and controls allows him to provide clients with the comfort of knowing a project is in good hands, whether as the Owner's Representative, or as an extension of the Owner's staff. Through regular progress of digital photographs, submittals of project logs and copies of correspondence, and weekly progress reporting, Tom keeps the client informed and assured that FHU is representing the client's interests. Tom has valuable experience in constructing and analyzing construction schedules using the critical path method. He routinely works with both Primavera and Microsoft Project scheduling software packages to review contractor schedule submittals. As a standard procedure on projects, Tom creates an independent, as-constructed schedule based upon the daily reports written by FHU's inspectors, the project correspondence and the weekly project progress meetings. This schedule can then be used in comparison with the schedule the contractor submits in support of his request for additional time and/or compensation.

Given the specialized services that fall under this category, Tom

Nead will be working extensively with two of our subconsultant partners. **105 West, Inc.** will provide the **task leader for Surveys and Construction Staking** and Yeh & Associates will provide **Geotechnical and Materials Testing** personnel.

Kevin Maddoux, AICP, will serve as **Environmental Task Leader**. Kevin has more than 14 years of experience covering a broad range of environmental resource areas. His recent project experience includes the Federal Boulevard (5th Avenue to Howard Place) PEL and the I-25 Santa Fe Drive Interchange and South Broadway (Arizona to Exposition and I-25 Interchange).



Elliot Sulsky, PE, AICP will be CCD's **Planning Services Team Leader**. Elliot is a Principal at FHU, with more than 20 years of transportation planning and engineering experience, both as a consultant and an employee of the City and County of Denver.

Elliot will also serve as Task Leader for **Traffic**

Forecasting and Multi-mode Transportation planning and Multi-mode Traffic and Operation Simulation. He has managed major transportation projects including regional transportation plans, city and county comprehensive plans, corridor studies, subarea plans, and major development plans. As part of the current CCD On-Call General Engineering and Traffic/Transportation Services contracts, Elliot has worked on the Strategic Transportation Plan, Gateway Travel Shed Planning, the Residential Parking Permit Study, the Peña Blvd. / 64th Avenue Conceptual Design, and the Denver Strategic Parking Plan, Phase I. Elliot will also serve as Task Leader for Traffic Forecasting and Multi-mode Transportation planning and Multi-mode Traffic and Operation Simulation. He has prepared transportation plans and transportation elements of comprehensive plans for various Colorado entities including Larimer County, Douglas County, the Town of Parker, the City of Thornton, the City of Greenwood Village, and the Town of Dacono.

Elliot will draw largely from FHU's transportation planning and traffic engineering staff to meet all the services that may be needed during the course of this contract. **Larry Lang, Rich Follmer,** and **Dave Hattan** have all worked with Denver staff on multiple signal and transportation planning related task orders. **Navin Nageli** (Navjoy) will serve as Task Leader for **Signal System Management.**

David Hattan will continue to serve as the **Miscellaneous Services Team Leader**. He will also be the Task Leader for **Traffic Safety Analysis and Other Traffic Studies.** Dave has completed hundreds of TIAs over the course of his career, and safety analysis is an area of particular interest. He has been the Project Manager for CDOT's statewide safety analyses

since 2001 and has managed more than 120 specific site studies to date. He has been project manager for a number of comprehensive transportation plans, including: the Centennial Transportation Master Plan, Commerce City C3 Vision Transportation Plan, the Castle Rock Transportation Master Plan, the Winter Park Multi-Modal Transportation and Mobility Plan, and the Town of Johnstown Transportation Plan. These multi-modal comprehensive plans addressed street systems, transit service, and bicycle/pedestrian trails and included assessments of both long-range and immediate needs. Each of these plans required extensive involvement with technical and policy groups to help shape the project.

Dave will be supported by an experienced cadre of specialist to fulfill CCD diverse needs, including, **Evan Kirby, GISP**; **Michelle Stevens, PE**; **Linda Gann**; and **Jeff Ream, PE, PTOE**. Specialized firms including **All Traffic Data Services**, **Appius Engineering**, **Benesch**, **Independent District Engineering Services**, and **Zoeller Consulting** will also provide specific expertise.

EXHIBIT D
CERTIFICATE OF INSURANCE

