

SECOND AMENDATORY AGREEMENT

THIS SECOND AMENDATORY AGREEMENT is made and entered into by and between the CITY AND COUNTY OF DENVER, a municipal corporation of the State of Colorado (the “City”) and PARSONS TRANSPORTATION GROUP, INC., an Illinois corporation authorized to do business in the State of Colorado, whose address is 1776 Lincoln Street, Suite 600, Denver, Colorado 80203 (the “Consultant”), jointly the “Parties.”

RECITALS:

A. The Parties entered into an On-Call Engineering Services Agreement dated August 3, 2016 to provide on-call professional engineering services and related technical services to support the City’s Department of Transportation & Infrastructure Wastewater Management Division (the “Original Agreement”); and

B. The Parties subsequently amended the Original Agreement in accordance with that Amendatory Agreement dated January 16, 2019 (the “First Amendment”); and

C. Collectively, the Original Agreement and the First Amendment shall be referred to herein as the “Agreement;”

D. Rather than enter into a new contract, the Parties desire to amend the Agreement to update the Line of Authority and contract information of the Parties, extend the term of the Agreement until September 11, 2021, replace the original **Exhibit B** that was attached to the Agreement with the attached **Exhibit B-1**, and add compensation in the amount of TWO MILLION DOLLARS (\$2,000,000.00) to the Agreement for the purpose of business continuity.

NOW THEREFORE, in consideration of the premises and the Parties’ mutual covenants and obligations, the Parties agree as follows:

1. Section 1.02 of the Agreement entitled “**LINE OF AUTHORITY FOR CONTRACT ADMINISTRATION**” is hereby amended to read as follows:

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

specifically identified in this Agreement as requiring the Manager's approval. The Manager expressly reserves the right to designate another authorized representative to perform on the Manager's behalf by written notice to the Consultant."

2. Section 3 entitled "**COMPENSATION, PAYMENT, AND FUNDING**" is amended to read as follows:

"3.06 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 **SIX MILLION DOLLARS AND NO CENTS (\$6,000,000.00)**. 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."

3. **Exhibit B** of the Agreement shall be replaced in its entirety by **Exhibit B-1**, which is attached hereto and incorporated herein by reference. The new rates detailed in **Exhibit B-1** shall be effective at the time of execution of this Second Amendatory Agreement and shall only apply to new task orders issued after execution of this Second Amendatory Agreement.

4. Section 4 of the Agreement entitled "**TERM AND TERMINATION**" is amended to read as follows:

"4.01 Term: The term of this Agreement shall commence on September 12, 2016, and shall expire on September 11, 2021, 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. All terms and conditions of the Agreement shall remain in full force and effect until such completion."

5. Section 5 of the Agreement entitled "**GENERAL PROVISIONS**" is amended to read as follows:

"5.25 Notices: When this Agreement requires notice to the City or the Consultant it shall be sent by certified mail, return receipt requested, to the addresses listed below:

To the City: Executive Director of the Department of
Transportation & Infrastructure
201 West Colfax Avenue, Department 608

Denver, Colorado 80202

With a copy to: Assistant City Attorney
201 West Colfax Avenue, Department 1207
Denver, Colorado 80202

To the Consultant: Parsons Transportation Group, Inc.
1776 Lincoln Street, Suite 600
Denver, Colorado 80203”

6. Except as herein amended, the Agreement continues in effect, and is affirmed and ratified in each and every particular.

7. This Second Amendatory Agreement will not be effective or binding on the City until it has been fully executed by all required signatories of the City and County of Denver, and if required by Charter, approved by the City Council.

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[SIGNATURE PAGES TO FOLLOW]

Contract Control Number: DOTI-202054167-02[201627902-02]
Contractor Name: PARSONS TRANSPORTATION GROUP INC.

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

SEAL **CITY AND COUNTY OF DENVER:**

ATTEST: By: _____

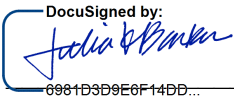
APPROVED AS TO FORM: **REGISTERED AND COUNTERSIGNED:**

Attorney for the City and County of Denver

By: _____ By: _____
By: _____

Contract Control Number:
Contractor Name:

DOTI-202054167-02[201627902-02]
PARSONS TRANSPORTATION GROUP INC.

By:  6981D3D9E6F14DD...

Name: Julia K. Barker
(please print)

Title: Vice President
(please print)

ATTEST: [if required]

By: _____

Name: _____
(please print)

Title: _____
(please print)

CONSULTANT TEAM MEMBER**Prime Consultant:** Parsons Transportation Group Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
Administrative Assistant	Administration	\$ 93.00
Architect	Architecture	\$117.00
Associate Engineer - Civil	Civil Design	\$ 93.00
Associate Engineer - Structural	Structural Design	\$111.00
Associate Landscape Architect	Landscape Architecture	\$ 76.00
Associate Planner	Urban Planning/Mobility	\$ 99.00
CADD Designer/Technician	Design Support	\$ 90.00
CADD Manager	Design Support Oversight	\$216.00
Construction Engineer	Construction Inspection	\$108.00
Construction Inspector	Construction Inspection	\$117.00
Construction Manager	Construction Inspection Oversight	\$277.00
Discipline Lead (Civil)	Civil Design Lead	\$248.00
Discipline Lead (Environmental)	Environmental Planning Lead	\$198.00
Discipline Lead (MOT)	Maintenance of Traffic (MOT) Lead	\$248.00
Discipline Lead (Structures)	Structural Design Lead	\$219.00
Discipline Lead (Utilities)	Utility Coordination Lead	\$236.00
Engineer I - Civil	Civil Design	\$120.00
Engineer I - Structural	Structural Design	\$125.00
Engineer II - Civil	Civil Design	\$140.00
Engineer II - Structural	Structural Design	\$146.00
Environmental Planner I	Environmental Planning	\$125.00
Graphic Designer	Public Outreach Support	\$146.00
Landscape Architect I	Landscape Architecture	\$117.00
Landscape Architect II	Landscape Architecture	\$146.00
Landscape Architect Manager	Landscape Architecture Oversight	\$201.00
Planner	Urban Planning/Mobility	\$131.00
Principal CADD Designer	Design Support	\$140.00
Principal Engineer	Civil/Structural Design	\$166.00
Principal Landscape Architect	Landscape Architecture	\$163.00
Principal Planner	Urban Planning/Mobility	\$172.00
Principal Project Manager	Project Oversight	\$294.00
Project Controls	Scheduling Support	\$111.00
Project Manager	Project Oversight	\$219.00
Quality Manager	Quality Assurance	\$184.00
Senior Administrative Assistant	Administration	\$111.00
Senior Construction Inspector	Construction Inspection	\$154.00
Senior Engineer	Civil/Structural Design	\$120.00
Senior Project Engineer	Project Oversight	\$227.00
Senior Project Manager	Project Oversight	\$292.00

Title/Classification	Responsibilities	Rate/Hr.
SME - Innovative Contracting	Innovative Contracting	\$379.00
SME - Program Management Advisor	Program Management	\$292.00
SME - Risk Management	Risk Management	\$437.00
SME - Transit	Transit Planning Expertise	\$364.00
Structural Manager	Project Oversight	\$248.00
Subject Matter Expert (SME) - Claims	Claims Expertise	\$379.00
Technical Writer	Technical Writing/Editing Support	\$117.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.65

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

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

SUB-CONSULTANT TEAM MEMBERSFirm Name: BASE Tactical Disaster Recovery

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

Title/Classification	Responsibilities	Rate/Hr.
Principle	Oversight and Grant Management Strategies, High Level Technical Review	\$350.00
Program Manager	Reporting Requirements, Technical Review and Implementation	\$214.00
Project Officer	Reporting Requirements, Technical Review and Implementation	\$190.00
Senior Estimator	Estimating Cost of Damages	\$240.00
406 Mitigation Specialist	Mitigation Implementation and Reporting Requirements	\$214.00
FHWA Grant Specialist	Reporting Requirements Review and Implementation	\$214.00
Geo-technical Engineer	Leads and Reviews Technical Work	\$179.00
Environmental Engineer	Leads and Reviews Technical Work	\$179.00
Structural Engineer	Leads and Reviews Technical work	\$190.00
Document Control	Documentation Collection, Sorting and Access	\$106.00
Administrator	Bookkeeping and General Administration	\$95.00

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

Unless expressly authorized by the City as part of any approved project proposal or specified in the contract, 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 reproductions, etc. are not included in the hourly rates, and will be itemized as part of each on-call task order as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

Travel (Airfare, Hotel and Transportation): Travel will be paid as pre-approved by the City's Project Manager or proposal per City travel guidelines and Federal per diem

SUB-CONSULTANT TEAM MEMBERSFirm Name: Braaksma Design, Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
Owner/Principal	Owner/Principal	\$115
Studio Assistant	Studio Assistant	\$50

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

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SUB-CONSULTANT TEAM MEMBERSFirm Name: **Brierley Associates**

Title/Classification	Responsibilities	Rate/Hr.
Principal/Senior Consultant II	Senior reviewer	\$260
Senior Associate/Senior Consultant I	Senior reviewer	\$245
Associate/Senior Project Manager	Project manager, technical review	\$215
Senior Professional II	Cost estimator	\$200
Senior Professional I	Project engineer	\$175
Professional II	Project engineer	\$160
Professional I	Project engineer	\$150
Staff Professional II	Field investigation, data analysis	\$140
Staff Professional I	Field investigation, data analysis	\$125
Administrative	General administrative support as needed	\$75

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

SUB-CONSULTANT TEAM MEMBERSFirm Name: Clanton & Associates

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

Title/Classification	Responsibilities	Rate/Hr.
President/President	Principal/ President	\$260
Principal/Principal	Principal/Project Manager	\$190
Senior Engineer II/Engineer PE-3, PE-4	Engineering	\$170
Senior Engineer I/PE-1, PE-2	Engineering	\$130
Engineer II/ EIT-3, EIT-4	Engineering	\$120
Engineer I/EIT-1, EIT-2	Engineering	\$100
Senior Designer II/Design Supervisor	Design	\$150
Senior Designer I/Senior Designer 1	Design	\$130
Designer II/Designer 2	Design	\$110
Designer I/Designer 1	Design Manager	\$150
Senior CADD Technician/CAD Operator 2	CAD	\$100
CADD Technician/CAD Operator 1	CAD	\$75
Office Manager/Office Manager	Office Manager	\$70

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

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SUB-CONSULTANT TEAM MEMBERSFirm Name: **DataOne,Inc.**

Title/Classification	Responsibilities	Rate/Hr.
Sr. Analyst and Principal	Program manager, database design and programming, database administration	\$140
Sr .NET Web Programmer/Analyst	Web site(s) programming and data design	\$160
Sr. Database Programmer	Data programming as requested by Sr. Analyst	\$110
.NET Web Programmer	Web site programming as directed by Sr. .NET Web Programmer/Analyst	\$100
Database Programmer	Additional database programming as needed by Sr. Analyst and Sr. Database Programmer	\$85
Software Tester	Software quality control and testing before deployment to client	\$45

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

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Digitalis Design, llc.

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

Title/Classification	Responsibilities	Rate/Hr.
SITES Team Leader	Manage and lead SITES compliance and documentation	\$125

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

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SUB-CONSULTANT TEAM MEMBERS

Firm Name: Entitlement and Engineering Solutions, Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
President	Oversight of technical merit, quality, schedule, and budget for all projects	\$232.00
Principal	Oversight of engineering design and quality; technical design direction	\$206.00
Senior Project Manager	Technical design direction; oversight of team; performs design tasks and quality reviews	\$170.00
Project Manager	Provide design direction; tracking of schedule, budget and project milestones	\$165.00
Senior Engineer V	Responsible for design direction and technical merit	\$159.00
Senior Engineer IV	Responsible for design direction and technical merit; performs design	\$145.00
Engineer III	Performs design and engineering calculations	\$139.00
Engineer II	Performs design and engineering calculations	\$132.00
Engineer I	Assist with the design and engineering calculations	\$126.00
Engineer Intern	Assist with the design and engineering calculations under the supervision of a licensed engineer	\$120.00
Designer	Designing, planning and execution of projects; advanced knowledge of CAD	\$126.00
Senior Drafter	Establishes and ensures drafting standards; performs drafting/design	\$120.00
CAD Technician	Performs drafting of technical drawings	\$107.00
Administrative Support	Support of non-technical tasks	\$97.00
Sr. Administrative Support	Oversight, direction and management of non-technical tasks; advanced skill required	131.00

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

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

SUB-CONSULTANT TEAM MEMBERSFirm Name: Find Solutions / Community Mediation Concepts

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

Title/Classification	Responsibilities	Rate/Hr.
Executive Director	Facilitation	\$95
Principal/Director	Facilitation	\$75

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

Unless expressly authorized by the City as part of any approved project proposal or specified in the contract, 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 task order as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

SUB-CONSULTANT TEAM MEMBERS

Firm Name: GBSM, Inc.

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

[illegible]

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

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

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Goodbee & Associates, Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
President	Directs all aspects of the firm's operations	\$185
Principal	Directs all aspects of the firm's operations	\$185
Project Manager III	Leads and reviews technical work	\$150
Project Manager II	Leads and reviews technical work	\$135
Project Manager I	Leads and reviews technical work	\$125
Landscape Architect (Principal)	Leads and reviews technical work	\$175
Landscape Architect III	Leads and reviews technical work	\$150
Landscape Architect II	Leads and reviews technical work	\$130
Landscape Architect I	Leads and reviews technical work	\$110
Designer III	Completes technical work under direction of a PM/LA	\$115
Designer II	Completes technical work under direction of a PM/LA	\$110
Designer I	Completes technical work under direction of a PM/LA	\$100
CAD II	Completes technical work under direction of a PM/LA	\$100
CAD I	Completes technical work under direction of a PM/LA	\$80
Administrator	Bookkeeping and general administration	\$110
Administrative Assistant	General administration	\$80

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

Unless expressly authorized by the City as part of any approved project proposal or specified in the contract, 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 reproductions, etc. are not included in the hourly rates, and will be itemized as part of each on-call task order as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

SUB-CONSULTANT TEAM MEMBERSFirm Name: H.C. Peck & Associates, Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
Principal	Overall project management; acquisition of property rights	162
Sr. Project Mgr.	Day to day project management; acquisition	138
Project Mgr.	Day to day project management; acquisition	128
Sr. ROW Agent	Acquisition	116
ROW Agent III	Acquisition	105
ROW Agent II	Acquisition; acquisition support	92
ROW Agent I	Acquisition; acquisition support	82
Support Staff	Acquisition support	70
Title Staff	Title work and curative; closings	132

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

Unless expressly authorized by the City as part of any approved project proposal or specified in the contract, 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 reproductions, etc. are not included in the hourly rates, and will be itemized as part of each on-call task order as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Harris Kocher Engineering Group, Inc. d/b/a Harris Kocher Smith

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

Title/Classification	Responsibilities	Rate/Hr.
Principal	Primary survey contact, manages project schedule and budget	195.00
Associate Principal	Alternate primary survey contact, manages project schedule and budge	175.00
Survey Manager	Licensed surveyor in charge of mgmt of survey projects and mgrs	155.00
Survey Project Manager	Licensed surveyor in responsible charge of project	130.00
Construction Survey Manager	Management of survey construction staking projects	130.00
Project Surveyor	Drafting, calculations, written property descriptions	110.00
Two Person Crew	Survey field work	180.00
One Person Crew	Survey field work	140.00
SUE Manager	Manager in charge of management of SUE projects and managers	145.00
SUE Operations Mgr	Manager in charge of management of SUE projects and managers	135.00
SUE Coordinator	Coordination of SUE projects	130.00
SUE Supervisor	Supervisor in charge of SUE field crews	125.00
Utility Mapping Technician	CAD Drafting	120.00
Utility Designator	Utility locating technician	115.00
Clerical	Clerical	95.00

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

Unless expressly authorized by the City as part of any approved project proposal or specified in the contract, 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 reproductions, etc. are not included in the hourly rates, and will be itemized as part of each on-call task order as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

SUB-CONSULTANT TEAM MEMBERSFirm Name: HCL Engineering & Surveying, LLC

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

Title/Classification	Responsibilities	Rate/Hr.
Principal	Contract Administration / Project Oversight	\$225
Project Manager	Responsible for project coordination, design, and client communications.	\$165
Civil Engineer	Civil Engineering Lead responsible for civil infrastructure design and utility coordination.	\$135
Project Engineer I	Civil Engineer responsible for design and drawing of civil infrastructure.	\$115
Project Engineer II	Structural Engineer responsible for the design and analysis of buildings and foundations.	\$125
Project Engineer	Structural Engineer responsible for design, modeling, and drawing of the building structure.	\$140
Project Designer	Structural Designer responsible for modeling and drawing of the building structure.	\$125
Survey Manager	Directs surveying operations, client coordination	\$170
Senior Project Surveyor	Provides calculation, reports and field oversight	\$135
Project Surveyor	In charge of field crews	\$115
Senior CAD Technician	Produces maps and exhibits, provides accuracy calculations	\$115
CAD Technician	Provides drafting of surveys	\$110
1-Man Survey Crew	Performs robotic survey data collection	\$140
2-Man Survey Crew	Performs data collection/stake out with support	\$175
3-Man Survey Crew	Performs data collection on construction sites and or in high traffic areas	\$210

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

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

SUB-CONSULTANT TEAM MEMBERSFirm Name: Iron Horse Architects

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

Title/Classification	Responsibilities	Rate/Hr.
Chief Design Officer	Architect with a thorough knowledge of architecture who develops design standards and supervises design across the company	275.00
Senior Administrator	Oversees all administrative management of architectural projects	250.00
Principal	Architect with a thorough knowledge of architecture who develops design standards and supervises a design department	250.00
Senior Project Manager	Handles projects of the largest magnitude. Oversees and coordinates project efforts in order to ensure effective execution	225.00
Architect	Licensed architect who applies architecture principles and practices in a broad array of assignments and related fields.	175.00
Project Manager	Manages multiple small/medium projects, coordinates all aspects of assigned projects, and estimates scope of work	150.00
BIM Manager	Responsible for BIM and the digital Construction procedures at the design, construction and closeout stages of a project.	150.00
Jr. Architect	These newly licensed design professionals apply sound and diverse knowledge of architecture principles and practices in a broad array of assignments.	125.00
Job Captain	Unlicensed design professional, uses independent judgement in design evaluation, selection and modification	115.00
Project Administrator	Project Administrator plays a crucial role in the overall success of architectural projects, provides high level administrative support.	95.00
Architectural Intern	Full Time, entry level position, works from the design of others and performs routine architectural assignments.	85.00

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

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

SUB-CONSULTANT TEAM MEMBERSFirm Name: Kumar & Associates, Inc.

Title/Classification	Responsibilities	Rate/Hr.
Principal	Project Oversight, Contracts/Negotiations	\$ 185.00
Principal-in-Charge / Senior Project Manager	Project Oversight, Geotechnical Report Review, Value Engineering, Attends Meetings, budget management	\$ 175.00
Project Manager; Geotechnical	Coordinates and conducts geotechnical subsurface investigative programs, provides geotechnical report review and recommendations	\$ 135.00
Project Engineer; Geotechnical	Preparation of Geotechnical Engineering Reports, performs geotechnical engineering study/investigation(s), coordinates drilling procedures/scheduling	\$ 105.00
Staff Engineer; Geotechnical	Performs analysis of field and laboratory data for generation of geotechnical recommendations	\$ 90.00
Field Engineer	Supervises drilling activities including logging and sampling of subsurface conditions	\$ 70.00
Exploration Manager	Coordinates drilling schedule and performs drilling procedures	\$ 75.00
Managing Scientist	Overall project management and staff allocation, report review	\$ 110.00
Project Scientist	Supervise Staff Scientists during Phase I ESAs, Asbestos inspections, and other field work, report preparation	\$ 95.00
Staff I Scientist	Asbestos inspection, Phase I ESAs, field work, and air monitoring	\$ 65.00
Word Processing / Clerical	Word processing of reports, filing/record keeping, and data entry	\$ 50.00
CAD Drafting	Development of drawings/schematics, IT support	\$ 80.00
Laboratory Supervisor	Supervises testing and procedures within the laboratory	\$ 115.00
Laboratory Technician	Performs various laboratory tests	\$ 55.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.85

SUB-CONSULTANT TEAM MEMBERSFirm Name: Olsson

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

Title/Classification	Responsibilities	Rate/Hr.
Region Leader	Project oversight	\$258
Office/Practice Leader	Project oversight	\$237
Team Leader	Project management, resource scheduling, peer review, QA/QC	\$217
Industry Expert	Project management, peer review, QA/QC	\$216
Technical Leader – Engineer	Project management, peer review, QA/QC	\$206
Technical Leader – Scientist	Project management, peer review, QA/QC	\$196
Senior Engineer	Drainage planning and design project manager, modeling, construction documents	\$197
Senior Project Engineer	Drainage planning and design project manager, modeling, construction documents	\$165
Project Engineer	Drainage planning and design project manager, modeling, construction documents	\$152
Associate Engineer	Design lead. Drainage planning and design, hydrologic and hydraulic modeling, drainage studies, utility design, plan production, cost estimating, and specifications	\$122
Assistant Engineer	Drainage planning and design, hydrologic and hydraulic modeling, drainage studies, utility design, plan production, cost estimating, and specifications	\$109
Senior Scientist	Task management, field investigations, assessments, permitting	\$165
Senior Project Scientist	Task management, field investigations, assessments, permitting	\$149
Project Scientist	Task management, field investigations, assessments, permitting	\$134
Associate Scientist	Field investigations, assessments, permitting	\$98
Assistant Scientist	Field investigations, assessments, permitting	\$77
CAD Manager	Task management, plan production	\$139
Design Manager	Task management, plan production	\$134
Design Assoc./Senior Design Tech	Plan production	\$103

Olsson

Title/Classification	Responsibilities	Rate/Hr.
Design Technician	AutoCAD drafting, plan production	\$99
Associate Technician	AutoCAD drafting, plan production	\$77
Assistant Technician	AutoCAD drafting, plan production	\$67
Administration	Administrative support	\$77
Student Intern	AutoCAD drafting, modeling	\$62
Survey Team Leader	Project management, resource scheduling, peer review, QA/QC	\$193
Senior Surveyor	Surveying, survey monumentation, legal descriptions, survey calculations	\$144
Surveyor	Surveying, survey monumentation, legal descriptions, survey calculations	\$118
Associate Surveyor	Surveying, survey monumentation, legal descriptions, survey calculations	\$93
Assistant Surveyor	Surveying, survey monumentation, legal descriptions, survey calculations	\$77
Senior Survey Technician	Surveying, survey monumentation, legal descriptions, survey calculations	\$118
Survey Technician	Surveying, survey monumentation, legal descriptions, survey calculations	\$103
Associate Survey Technician	Surveying, survey monumentation, legal descriptions, survey calculations	\$93
2-Person Survey Crew	Surveying, survey monumentation	\$196
1-Person Survey Crew	Surveying, survey monumentation	\$134
Drone Pilot	Drone surveying and aerial photos	\$149
1-Person Lidar Crew	Surveying w/ 3D scanner, survey monumentation	\$201
Administration	Administrative support	\$77
Survey Equipment		
4 Wheel Drive ATV		\$100 / day
Trimble GPS		\$300 / day
Trimble Robot		\$300 / day
LiDAR Scanner		\$900 / day

Olsson

Title/Classification	Responsibilities	Rate/Hr.
Drone		\$500 / day
Pointerra (1-month)		\$100 / month
Pointerra (6-months)		\$500 / 6-months
Field Operations		
Administrative		\$57
Earthwork Observation		\$57
Foundation Observation		\$77
Deep Foundation Observation		\$77
Retaining Wall Observation		\$77
Concrete Observation		\$57
Masonry Observation		\$72
Structural Steel Observation		\$98
NDT Technician		\$98
Post-Tension Observation		\$82
Asphalt Observation		\$67
Building Inspector		\$98
Senior Technician		\$98
Associate Technician		\$75
Assistant Technician		\$64
Project Manager		\$103
Assistant Engineer		\$106
Associate Engineer		\$123
Project Engineer		\$146

Olsson

Title/Classification	Responsibilities	Rate/Hr.
Senior Engineer		\$185
Team Leader		\$211
Assistant Construction Manager		\$108
Associate Construction Manager		\$118
Project Construction Manager		\$155
Senior Construction Manager		\$221
		\$57
<u>Field & Laboratory Testing</u>		
<u>Soils</u>		
#200 Wash Analysis	per test	45.00
Atterberg Limits Tests	per test	65.00
Standard Proctor	per test	120.00
Modified Proctor	per test	125.00
Proctor Checkpoint	per test	60.00
Sieve Analysis (Soils)	per test	75.00
Sand Cone Method (Field Density)	per test	75.00
Drive Ring Method (Field Density)	per test	65.00
Moisture Only	per test	10.00
Density & Moisture	per test	15.00
R-Value	per test	340.00
Relative Density	per test	180.00
Unconfined Strength	per test	20.00
CBR, 1 pt.	per test	285.00
CBR, 3 pt.	per test	420.00

Olsson

Title/Classification	Responsibilities	Rate/Hr.
Water Soluble Sulfate	per test	60.00
pH Level	per test	45.00
Organic Content	per test	95.00
Specific Gravity	per test	80.00
Direct Shear (Per Point)	per point	350.00
Hydrometer Analysis	per test	145.00
Swell, One dimensional	per test	85.00
Consolidation, Time Rate (Set Up and Initial Load)	per unit	150.00
Consolidation, Time Rate (Additional Loads)	per unit	50.00
Soil Corrosion Suite	per test	225.00
Crumb Test	per test	15.00
Pinhole Dispersion	per test	135.00
Flex Wall Permeability	per test	400.00
Flex Wall Permeability (Remolded)	per test	550.00
Falling Head Permeability	per test	175.00
Triaxial (CU) 3 pt. In Situ	per test	1,600.00
Triaxial (CU) 1 pt. Remolded	per test	1,950.00
Triaxial (UU) 1 pt.	per test	160.00
Thermal Resistivity, One Point	per test	1,200.00
Thermal Resistivity, Additional Points	per point	175.00
<u>Concrete</u>		
Compressive Strength of Concrete Cylinder	per test	15.00
Flexural Strength of Concrete	per test	40.00
Compressive Strength of Cores	per test	60.00

Olsson

Title/Classification	Responsibilities	Rate/Hr.
Core Lengths	per test	18.00
Trim Cylinders or Cores (As Required)	per test	30.00
Mix Design (1 Trial)	per mix	3,800.00
Mix Verification (1 Trial)	per mix	1,500.00
Moisture Vapor Emissions of Floor Slab	per test	30.00
Relative Humidity of Floor Slab	per test	40.00
<u>Masonry</u>		
Compressive Strength of Grout Prism	per test	25.00
Compressive Strength of Mortar Cube	per test	15.00
Compressive Strength of Block	per test	95.00
Compressive Strength of Block Prism (8-inch)	per test	105.00
Compressive Strength of Block Prism (10-inch or Greater)	per test	125.00
Compressive Strength of Grouted Block Prism (8-inch)	per test	150.00
<u>Aggregates</u>		
Standard Proctor – Aggregate	per test	150.00
Modified Proctor – Aggregate	per test	185.00
Relative Density	per test	180.00
LA Abrasion (Includes Gradations)	per test	180.00
Sieve Analysis	per test	65.00
Absorption and Specific Gravity	per test	85.00
Surface Moisture	per test	15.00
Sand Equivalent	per test	95.00
Dry Unit Weight	per test	40.00

Olsson

Title/Classification	Responsibilities	Rate/Hr.
Sulfate Soundness	per test	675.00
Freeze Thaw	per test	2,500.00
<u>Asphalt</u>		
Superpave, Voids	per test	440.00
Lottman	per test	380.00
Hveem Stability	per test	175.00
Core Thickness	per test	18.00
Laboratory Stability, Flow, Specific Gravity	per test	210.00
Maximum Theoretical Specific Gravity (Rice)	per test	80.00
Laboratory Specimen Compaction	per test	150.00
Bulk Specific Gravity (unit weight of core/lab specimen)	per test	35.00
Bitumen Content & Gradation of Extracted Aggregate	per test	\$150.00
Asphalt Field Density	Included	
Marshall Mix Design (1 Trial)	per mix	2,900.00
Slurry Mix Design (1 Trial)	per mix	2,500.00
<u>Fireproofing</u>		
Density (Displacement Method)	per test	90.00
Adhesion/Cohesion	per test	75.00
<u>Equipment</u>		
Floor Flatness Device	per day	250.00
Hand Auger Equipment	per day	50.00
Coring Rig	per day	150.00
Field CBR Device	per day	500.00

Olsson

Title/Classification	Responsibilities	Rate/Hr.
Dynamic Cone Penetrometer	per day	75.00
Schmidt Hammer	per day	120.00
IR Camera	per day	900.00
Field Thermal Resistivity Unit	per day	350.00
Roadway Videography with GPS Tagging System	per day	250.00
Sonic Echo Testing Equipment	per day	250.00
Ultrasonic Testing Equipment	per day	150.00
Moisture Vapor Emissions Test Kits	per test	25.00
Relative Humidity Sensors	per test	65.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.085.

SUB-CONSULTANT TEAM MEMBERSFirm Name: Pinyon Environmental, Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
Expert Witness	Expert witness preparation and deposition	\$250
Principal Engineer/Scientist	Responsible for providing strategic direction, vision, and leadership. Performs senior-level QA/QC and conducts meetings and negotiations with regulatory and oversight agencies.	\$220
Senior Engineer/Scientist	Responsible for technical completeness and competency of all submissions and work performed, including performance of junior- and mid-level planners and scientists. Conduct and supervise professional and technical staff to complete studies focused on engineering, planning, NEPA evaluations, air quality, noise, biology, geology, chemistry and environmental science.	\$201
Senior Project Manager	Project management, including coordination of multi-disciplinary teams, preparing responses to agency questions, and facilitates project meetings with client and regulators. Develops project requirements, site investigations, facility requirements development, budget and programming support, analyses and project execution.	\$179
Project Manager	Directs the gathering of data and prepares complex reporting and analysis. Oversight of technical products and development of detailed studies related to NEPA, air quality, noise, environmental justice, biology, geology, chemistry and environmental science.	\$153
Project Specialist	Reports to Regulatory and Oversight Agencies, Preparation of Permits, GIS Library Development and Data Analysis, Technical Review of Documents	\$ 127
Project Engineer/Scientist	Phase I ESA Site Visits/Reporting, Interpretation of Data, Collection of Non-Field Data, Development of Logs and Maps, Pilot Testing, Biological and Wetland Field Mapping, Preparation of Reports to Clients, GIS Data Collection/Processing/Presentation, Asbestos Designer/Air Monitoring Specialist/Project Manager, Technical Review of Documents	\$110
Staff II Engineer/Scientist	Soil Logging, Monitoring Well Installation Oversight, Water-Level Surveying, Slug Tests, Field Oversight, Lead Driller, Miscellaneous Field Services, Asbestos Building Inspector	\$94
Staff I Technician	Groundwater Sampling, Sampling During UST Removals, Surveyor's Assistant	\$76
Drafting (Graphics)	AutoCAD, floor plans, elevations, sections, scale drawings, layering and concept design for architects and engineers. Duties may include configuring and maintaining CADD libraries, engineering documentation management systems and CADD computer network systems.	\$98
Project Assistant	Maintain Field Equipment, Data Management	\$86
Word Processing, Clerical	Word Processing, Clerical	\$67

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.01

REIMBURSABLE EXPENSESFIRM: Pinyon Environmental, Inc.

EXPENSE OR SERVICE	RATE	BILLING RATE
Dual Interface Probe	day	\$70.00
Groundwater level indicator	day	\$30.00
Photoionization Detector / FID or similar	day	\$75.00
Automated Samplers, Monitors, and Data Loggers	day	\$100
PID / FID / multi gas meter (or similar)	day	\$75.00
Groundwater sampling kit	day	\$201.00
Soil Sampling kit	day	\$315.00
Field Visits (General Projects [e.g., Phase I ESA])	Day	\$50.00
Field Visits (Wetland/Biology)	Day	\$50.00
Soil Logging (During Drilling)	Boring	\$105.00
Monitoring Well Development	Well	\$55.00
Monitoring Well Sampling	Well	\$67.00
Asbestos Sampling Kit (Building Inspections)	Day	\$45.00
Asbestos Air Monitoring Kit	Day	\$110.00
Pass Through Rate – Subcontractor Costs and Management		
All Subcontracted Services	Cost	Cost
Field Sampling and Investigation Supplies and Materials as preapproved by City and County of Denver Project Manager	Cost	Cost
Remediation Supplies and Materials as preapproved by City and County of Denver Project Manager	Cost	Cost
Bonding Rate	2.2%	

SUB-CONSULTANT TEAM MEMBERSFirm Name: RockSol Consulting Group, Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
Sr. Project Manager	Oversee project; manage RockSol Services	\$228.90
Sr. Transportation Manager	Oversee projects	\$198.50
Sr. Project Engineer	Provide guidance on projects, manager junior engineers	\$183.80
Sr. Structural Engineer	Manage bridge/structure unit, oversee bridge/structure design	\$201.60
Structural Engineer	Develop bridge/structure design	\$123.90
Sr. Geotechnical Engineer	Manage geotechnical unit, oversee geotechnical services	\$198.50
Senior Geologist	Develop drilling programs, prepare geotechnical reports	\$132.30
Staff Engineer	Develop design, conduct field inspections	\$121.80
Engineer-in-Training III	Develop transportation design, conduct field inspections	\$110.30
Engineer-in-Training II	Develop transportation design, conduct field inspections	\$101.90
Engineer-in-Training I	Develop transportation design, conduct field inspections	\$86.10
Engineering Student Intern	Train in field and design units	\$60.90
Environmental Manager	Manage environmental unit, prepare environmental reports	\$150.20
Environmental Specialist II	Conduct field investigatins; prepare environmental reports	\$113.40
Environmental Specialist I	Conduct field investigatins; prepare environmental reports	\$96.60
Const. Mgr/Inspector IV	Provide construction management & inspection services	\$156.50
Const. Mgr/Inspector III	Provide construction management & inspection services	\$129.20
Const. Mgr/Inspector II	Provide construction management & inspection services	\$99.80
Const. Mgr/Inspector I	Provide construction management & inspection services	\$83.50

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

Unless expressly authorized by the City as part of any approved project proposal or specified in the contract, 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 reproductions, etc. are not included in the hourly rates, and will be itemized as part of each on-call task order as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

SUB-CONSULTANT TEAM MEMBERSFirm Name: RockSol Consulting Group, Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
Technician III	Oversee laboratory and field materials testing	\$104.80
Technician II	Provide materials testing services	\$89.30
Technician I	Provide materials testing services	\$67.70
Design Technician III	Develop transportation design in CAD	\$115.50
Design Technician II	Develop transportation design in CAD	\$96.60
Design Technician I	Develop transportation design in CAD	\$68.30
Graphic Designer	Develop graphic work for public involvement/stakeholder materials	\$98.70
Project Control/Admin	Provide accounting/invoicing services	\$95.60

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

Unless expressly authorized by the City as part of any approved project proposal or specified in the contract, 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 task order as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

SUB-CONSULTANT TEAM MEMBERSFirm Name: San Engineering, LLC

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Consultant may copy this page or modify it to conform to the services being offered.

Title/Classification	Responsibilities	Rate/Hr.
Civil Engineering Manager	Design/Management	\$150.00
Structural Engineering Manager	Design/Management	\$150.00
Senior Project Engineer	Design	\$130.00
Staff Engineer	Design/Production	\$120.00
Sr. CAD Drafter	Drafting/Design	\$115.00
Drafter	Drafting	\$105.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.53

SUB-CONSULTANT TEAM MEMBERSFirm Name: Shannon & Wilson, Inc.

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

Title/Classification	Responsibilities	Rate/Hr.
Senior Vice President	Overall QA/QC; Review of geotechnical engineering investigations, analysis, and design recommendations	\$260
Vice President	Main contact, interface with project team; Manages cost and schedule; Initiates geotechnical investigations; Performs geotechnical analysis and provides design recommendations; Prepares/stamps geotechnical engineering reports	\$220
Senior Associate	Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$195
Associate	Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$175
Senior Professional III	Coordinates/complete geotechnical investigations; Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$155
Senior Professional II	Coordinates/complete geotechnical investigations; Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$135
Senior Professional I	Coordinates/complete geotechnical investigations; Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$120
Professional IV	Coordinates/assists with geotechnical investigations, analysis and design recommendations; Assists with geotechnical engineering reports	\$110
Professional III	Coordinates/assists with geotechnical investigations, analysis and design recommendations; Assists with geotechnical engineering reports	\$100
Professional II	Performs field logging of borings and prepares boring logs	\$95
Professional I	Performs field logging of borings and prepares boring logs	\$85
Senior Technician	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$110
Technician IV	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$95
Technician III	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$85
Technician II	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$75
Technician I	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$65
Senior Drafter	Prepares report figures such as site plans and boring location maps	\$115
Drafter III, IV	Prepares report figures such as site plans and boring location maps	\$100
Drafter I, II	Prepares report figures such as site plans and boring location maps	\$95
Administrative III, IV	Formatting, printing, and assembling of technical reports	\$95
Administrative I, II	Formatting, printing, and assembling of technical reports	\$75

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.2.

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

SUB-CONSULTANT TEAM MEMBERSFirm Name: Smith Environmental & Engineering

Title/Classification	Responsibilities	Rate/Hr.
Principal	Contract execution, executive level oversight	\$180
Senior Engineer	Senior level design, permitting, report preparation	\$110
Project Manager	Project management - engineering projects	\$110
Senior Environmental Scientist	Scientific studies, permitting and report preparation	\$98
Project Manager	Project management - non-engineering projects	\$98
Account Manager	Certified payroll, invoicing, audits	\$87
Contract Administrator	Contract administration - insurance	\$87
Technical Editor	Editing of technical reports	\$88
Environmental Engineer II	Design, permitting, and report preparation	\$82
Environmental Engineer II/PM	Studies, modeling, permitting, report preparation	\$80
Senior Monitoring Tech	Erosion Control Supervisor, field site monitoring	\$64
Industrial Hygiene Specialist II	Air quality, asbestos, lead-based paint investigations and report preparation	\$77.50
Public Information Manager	Management of public information services	\$80
Environmental Scientist II	Studies, field sampling, data collection	\$60
Construction Superintendent	Superintendent duties of construction crews	\$59
Office Manager	Project support - vehicles, equipment, supplies	\$60
Public Information Officer	Public information services	\$58
AutoCAD Specialist	AutoCAD drafting and design	\$60
Senior Field/Monitor Tech	Field technician and construction labor	\$56

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

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Vine Laboratories, Inc.

[illegible]

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



2017 FEE SCHEDULE - DRILLING & POTHOLING

Drilling Rigs	U/M	Unit Rate	
CME 750 Buggy Drill Rig			
Solid-Stem Auger Drilling	Hr	\$165.00	
Hollow-Stem Auger Drilling	Hr	\$175.00	
Wire-Line Coring (NQ/HQ), Rotary, Robit (ODEX)	Hr	\$215.00	
CME 55 Truck-Mounted Drill Rig			
Solid-Stem Auger Drilling	Hr	\$145.00	
Hollow-Stem Auger Drilling	Hr	\$165.00	
Wire-Line Coring (NQ/HQ), Rotary, Robit (ODEX)	Hr	\$200.00	
CME 850 Steel Track-Mounted Drill Rig			
Solid-Stem Auger Drilling	Hr	\$165.00	
Hollow-Stem Auger Drilling	Hr	\$175.00	
Wire-Line Coring (NQ/HQ), Rotary, Robit (ODEX)	Hr	\$215.00	
CME 45 All Terrain Vehicle (Rubber Track)			
Solid-Stem Auger Drilling	Hr	\$145.00	
Hollow-Stem Auger Drilling	Hr	\$165.00	
Wire-Line Coring (NQ/HQ), Rotary	Hr	\$200.00	
Miscellaneous	U/M	Unit Rate	
Mobilization/Demobilization (Portal to Portal)*Rig	Hr	\$145.00	
Mobilization/Demobilization (Portal to Portal) *CREW	Hr	\$100.00	
Support Truck	Day	\$250.00	
Water Truck	Day	cost + 20%	
Extra Man	Day	\$250.00	
Back Hoe Rental for Test Pit Excavation	Day	\$500.00	
Back Hoe Operator	Hour	\$75.00	
Engineer/Geologist to log holes	Hr	\$75.00-\$95.00	
Locating Bore holes	Hr	\$75.00	
Permitting Bore holes	Hr	\$55.00	
Permits	each	cost	
Miscellaneous Bit Wear or Supplies	each	cost + 20%	
Piezometer/Inclonometer Supplies	each	Price determined per project	
Core Boxes	each	\$10.00	
55 Gallon Drums	each	\$55.00	
Air Compressor	Day	\$400.00	
Standby	Hr	\$155.00	
Cancellation less than 24 hour notice	1	\$200.00	
Towing	1	cost	
Per diem (Hotel)	Night	\$120.00 per person or state/county rate	
Per diem (Meals) per day per person	Night		
Port of Entry Fee	each	cost	
* when rig is security left on-site and crew mobs/demobs to and from site.			
VacMaster 4000 Truck Mounted Utility Services			
Private Utility Locates	Hr	\$75.00	Portal to portal
Professional Engineering Locates	Hr	\$105.00	Portal to portal
Mileage Outside of Denver Metro	mile	\$0.51	Current approved state rate for mileage
Per Diem-per two person crew	Night	\$250.00	

Drilling Rigs	U/M	Unit Rate	
CME 750 Buggy Drill Rig			
VacMaster 4000 Truck Mounted Utility Services-Non Certified Wages			
Potholing	Hr	\$165.00	
Equipment Mobilization / Demobilization	Hr	\$165.00	shop to site and site to shop travel
Traffic Control Plan (MHT's)	Page	Cost + 10%	Subcontracted to Certified Traffic Control Company
Traffic Control Operations	Hr. or Day	Cost + 10%	Subcontracted to Certified Traffic Control Company
Specialty Final Site Restoration	Hr. or Day	T.B.D.	Established on a per contract basis
VacMaster 4000 Truck Mounted Utility Services- Certified Wages			
Potholing	Hr	\$175.00	
Equipment Mobilization / Demobilization	Hr	\$175.00	or \$300 Lump Sum-negotiated at time of contract
Traffic Control Plan (MHT's)	Page	Cost + 10%	Subcontracted to Certified Traffic Control Company
Traffic Control Operations	Hr. or Day	Cost + 10%	Subcontracted to Certified Traffic Control Company
Specialty Final Site Restoration	Hr. or Day	T.B.D.	Established on a per contract basis
Culvert Cleaning			
Culvert Cleaning	Hourly or Per Each-Negotiated at time of		
Miscellaneous Supplies			
Backfill material	each	cost + 20%	
PVC Piping	LF	\$4.00	utility will be marked and photographed for log