

## 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 CH2M HILL ENGINEERS, INC., a Delaware corporation authorized to do business in the State of Colorado, whose address is 9191 South Jamaica Street, Englewood, Colorado 80112 (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: CH2M Hill Engineers, Inc.  
9191 South Jamaica Street  
Englewood, Colorado 80112”

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-202054165-02[201627899-02]  
**Contractor Name:** CH2M HILL Engineers, 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:

\_\_\_\_\_



**CONSULTANT TEAM MEMBERS**PRIME CONSULTANT: **CH2M HILL Engineers, 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Architect Associate	Develops basic architectural design and solutions	\$165
Architect	Develops architectural design and solutions	\$205
Architect Senior	Develops advanced architectural design and solutions	\$245
Architectural Drafter Associate	Basic drafting, copies sketches, layouts, and drawings prepared by others	\$80
Architectural Drafter	Performs drafting assignments requiring application of standardized drawing techniques	\$105
Architectural Drafter Senior	Performs non-routine and complex drafting assignments requiring application of standardized drawing techniques	\$125
Architectural Engineer Associate	Develops basic architectural engineering design and solutions	\$125
Architectural Engineer	Develops architectural engineering designs and solutions	\$185
Architectural Engineer Senior	Develops advanced architectural engineering designs and solutions	\$245
Biologist	Performs biologic analysis, surveys and documentation	\$130
Biologist - Senior	Performs advanced biologic analysis, surveys and documentation	\$140
CAD Technician Associate	Provides CAD drafting and CAD Coordination	\$105
CAD Technician		\$125
CAD Technician Senior		\$160
Construction Engineer	Supports construction projects	\$140
Construction Inspector Associate	Provides construction inspecting on construction projects	\$80
Construction Inspector		\$105
Construction Inspector Senior		\$125
Construction Manager	Manages constructions projects and tasks	\$180

## CH2M HILL Engineers, Inc

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Contracts Administrator Associate	Provides contract review and set-up. Sets-up subconsultant contracts and monitors subconsultant contracts	\$130
Contracts Administrator Senior		\$150
Designer Associate	Provides basic design support with CAD design tools	\$105
Designer	Provides design support with CAD design tools	\$125
Designer Senior	Provides advanced design support with CAD design tools	\$135
Engineer - Associate	Provides engineering design of roadways, multimodal solutions, utilities, traffic, ITS, hydrology and hydraulics, water quality and storm sewers. Provides technical plan review, schedules, preparation of plans, specifications, reports and estimates. Supports data collection.	\$105
Engineer		\$140
Engineer - Senior		\$165
Engineer Intern	Supports basic planning or engineering tasks	\$100
Environmental Compliance Lead	Leads environmental compliance requirements	\$160
Environmental Field Technician	Performs environmental field analysis and surveys	\$95
Environmental Scientist Associate	Performs environmental analysis and prepares environmental reports	\$105
Environmental Scientist		\$115
Environmental Scientist Senior		\$125
Geotechnical Engineer Associate	Performs geotechnical engineering analysis, reviews reports and prepares reports	\$145
Geotechnical Engineer		\$170
Geotechnical Engineer Senior		\$185
GIS Specialist	Provides GIS support for infrastructure projects	\$130
GIS Specialist - Senior		\$140
GIS Technician Associate	Provides GIS support for infrastructure projects using GIS computer tools	\$80
GIS Technician		\$105
GIS Technician Senior		\$135

## CH2M HILL Engineers, Inc

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Graphic Designer	Prepares design graphics, including public involvement graphics	\$115
Graphic Designer Senior		\$125
Health and Safety Professional Associate	Provides guidance on health and safety requirements for projects. Oversees health and safety for projects.	\$140
Health and Safety Professional Senior		\$150
Interior Design Associate	Prepares interior design	\$60
Interior Design		\$80
Interior Design Senior		\$115
Intern	Supports basic tasks	\$60
Landscape Architect Associate	Develops landscape architectural design and solutions	\$105
Landscape Architect		\$115
Landscape Architect Senior		\$120
Party Chief Associate	Provides field survey direction	\$90
Party Chief		\$110
Party Chief Senior		\$120
Photogrammetrist Associate	Provides photogrammetry	\$100
Photogrammetrist		\$120
Photogrammetrist Senior		\$175
Photogrammetrist Technician Associate	Supports photogrammetry using computer design tools	\$95
Photogrammetrist Technician		\$105
Photogrammetrist Technician Senior		\$155

## CH2M HILL Engineers, Inc

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Planner Associate	Provides planning, analysis, documentation for infrastructure projects	\$80
Planner		\$125
Planner Senior		\$155
Principal	Assures commitment of resources. Client satisfaction and issue resolution if needed.	\$310
Program Manager	Manages programs including cost, schedule and quality control. Day-to-day client coordination. Task order management.	\$225
Program Manager Senior		\$270
Project Manager	Manages projects. Coordinates with City Project Manager.	\$205
Project Manager Senior		\$245
Project Accountant	Tracks project finances and invoicing	\$95
Project Accountant Senior		\$115
Project Assistant Associate	Provides clerical support and meeting coordination	\$95
Project Assistant Senior		\$130
Project Controls Associate	Monitors projects budgets and schedules	\$125
Project Controls Senior		\$195
Project Engineer SUE/Survey	Provides Subsurface Utility Engineering (SUE) and survey design	\$140
Quality Manager	Ensures project quality	\$200
Safety Manager	Manages safety for projects	\$195
Scheduler	Prepares schedules for projects	\$160
Scientist Associate	Provides scientist analysis and reports	\$140
Scientist		\$150
Scientist Senior		\$160
Structural Engineer Associate	Designs structures for treatment plants, conveyance pipelines, storm sewers, structures/bridges, roadways, and other infrastructure	\$210
Structural Engineer		\$180
Structural Engineer Senior		\$210

## CH2M HILL Engineers, Inc

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Survey Project Engineer PLS/Certified Photogrammetrist	Provides engineering for professional land survey and photogrammetry	\$135
Survey/CAD/GIS Technician Associate	Prepares of survey, CAD and GIS CAD files. Drafting, Plan Production	\$70
Survey/CAD/GIS Technician		\$90
Survey/CAD/GIS Technician Senior		\$105
Surveyor Associate	Performs survey tasks in the office and in the field	\$110
Surveyor		\$140
Surveyor Senior		\$165
Sustainability Manager	Manages sustainability for projects	\$150
Task Lead	Leads task for civil engineering, drainage, and water quality design	\$195
Technical Writer/Editor Associate	Editing Documents, including Specifications	\$95
Technical Writer/Editor		\$110
Technical Writer/Editor Senior		\$125
Technologist Associate	Specialized Expert in Special District Creation, Multimodal Planning, Traffic Planning/Safety/Parking, ITS, Hydrology and Hydraulics, Water Quality and Storm Sewers, or Urban Design/Streetscape	\$165
Technologist		\$205
Technologist Senior		\$245
Transportation Planner Associate	Provides transportation planning. Including environmental/NEPA analysis and documentation	\$95
Transportation Planner		\$105
Transportation Planner Senior		\$115
Utility Investigator Associate	Investigates utilities in the field	\$85
Utility Investigator		\$110
Utility Investigator Senior		\$150

## CH2M HILL Engineers, Inc

Title/Classification	Responsibilities	Rate/Hr.
Utility Investigation Technician Associate	Prepares utility files using computer design tools	\$60
Utility Investigation Technician		\$75
Utility Investigation Technician Senior		\$90

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

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## SUB-CONSULTANT TEAM MEMBERS

**FIRM NAME:** 105 West, 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Director of Survey/Mapping	Manage Projects/Perform Boundary Survey work and ROW work	\$125.00
Project Surveyor	Manage Projects/day-to-day field operations and perform all surveying	\$100.00
Survey Technician	Perform all types of surveying required for project completion	\$80.00
Survey Crew (2-Man)	Perform field work and coordination	\$135.00
Survey Crew (1-Man)	Perform field work and coordination	\$115.00
Survey Crew (3-Man)	Perform field work and coordination	\$205.00
Administrative	Perform administrative duties	\$55.00

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

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:** Apex Design, PC

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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal	Contract management, general project oversight, quality review, railroad coordination, project design troubleshooting.	\$198.00
Senior Transportation Engineer	Preparation and/or quality control of engineering drawings, analyses, reports, specifications, engineering estimates for traffic elements, railroad coordination, parking analyses, and safety analyses.	\$188.00
Senior ITS Engineer	Preparation and/or quality control of engineering drawings, analyses, reports, specifications and engineering estimates for ITS elements.	\$188.00
Transportation Engineer	Preparation of engineering drawings, analyses, reports, specifications, engineering estimates for traffic elements, railroad coordination, parking analyses, and safety analyses.	\$146.00
Design Engineer	Assistance with preparation of engineering drawings, analyses, reports, specifications, engineering estimates for traffic elements, railroad coordination, parking analyses, and safety analyses.	\$105.00
EIT	Assist with engineering analyses, design and drafting services.	\$85.00
Project Administrator	Preparation of project billings, report preparation, and administrative assistance.	\$105.00
Project Assistant	Word processing, report preparation, specifications, mailings, arranges meetings, and other administrative assistance.	\$75.00

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

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## SUB-CONSULTANT TEAM MEMBERS

**FIRM 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 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.

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

**ATTACHMENT 3**  
**SUB-CONSULTANT TEAM MEMBERS**

**FIRM NAME:** BT Construction, 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Vice President	Manage Projects/Perform Boundary Survey work and ROW work	\$110.00
Project Controls	Manage Projects/day-to-day field operations and perform all surveying	\$90.00
Field Supervisor	Perform all types of surveying required for project completion	\$80.00

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

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**REIMBURSABLE EXPENSES**FIRM: BT Construction, Inc.

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

<b>EXPENSE OR SERVICE</b>	<b>BILLING RATE</b>
Mileage <u>outside</u> the Denver metropolitan area	Current IRS rate
<b><i>Standard Truck and Crew Rates (Up to 12 ft in Depth) Up to 9 hours</i></b>	
Hourly Rate	\$ 200.00 hour/truck
Daily Rate	\$ 1,950.00 day/truck
Overtime Rate	\$ 270 hour/truck
<b><i>Super Truck and Crew Rates (Over 12 ft in Depth) Up to 9 hours</i></b>	
Hourly Rate	\$ 255.00 hour/truck
Daily Rate	\$ 2,500.00 day/truck
Overtime Rate	\$ 365 hour/truck
<b><i>Additional Charges</i></b>	
Core Drill Asphalt: \$70.00 Per Hole	\$ 70/hole
Core Drill Concrete: \$85.00 Per Hole	\$ 85/hole
Traffic Flaggers (if Required)	\$550 per day (2 flaggers)
Traffic Control above and beyond Road work ahead signs and cones (Lane Closures)	\$1,000.00/ Per Day
Traffic Control (Minor) Shoulder work and Right of Way	\$450.00/Per Day
Potholing Account Representative	\$80.00/Per Hour
Field Potholing Superintendent	\$95.00/Per Hour
Private Locates	\$90.00/Per Hour
Dump Fees– Super Vac Truck	\$90.00/Per Dump
Dump Fees– Standard Truck Rate	\$80.00/Per Dump

Hourly Rate minimum is 4 hours.



## Rate Schedule for Potholing Services

### Standard Truck and Crew Rates (Up to 12ft in Depth) Up to 9 hours:

Hourly Rate: \$200.00 hour/ truck  
Per Hole: Quoted by Specific Project  
Daily Rate: \$1950.00 day/ truck  
Overtime Rate: \$270.00 hour/truck



### Super Truck and Crew Rates (Over 12ft in Depth) Up to 9 hours:

Hourly Rate: \$255.00 hour/truck  
Per Hole Rate: Quoted by Specific Project  
Daily Rate: \$2,500.00 day/truck  
Overtime Rate: \$365.00 hour/truck



### Additional Charges:

Core Drill Asphalt: \$70.00 Per Hole  
Core Drill Concrete: \$85.00 Per Hole  
Traffic Flaggers: \$550.00 Per Day (2 Flaggers) if Required  
Traffic Control above and beyond Road work ahead signs and cones (Lane Closures): \$1,000.00/ Per Day  
Traffic Control (Minor) Shoulder work and Right of Way: \$450.00/Per Day  
Potholing Account Representative: \$80.00/Per Hour  
Field Potholing Superintendent: \$95.00/Per Hour  
Private Locates: \$90.00/Per Hour  
Dump Fees: \$80.00/Per Dump – Standard Truck Rate  
Dump Fees: \$90.00/Per Dump – Super Vac Truck

**Hourly minimum is 4 hours**  
**Per hole minimum is 4 holes**



**SUB-CONSULTANT TEAM MEMBERS****FIRM NAME:** Calderon Advertising & Public Relations

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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Project Manager	Project Management, Strategic Communications, Public Involvement, Community Outreach, Media Relations, Social Media, and Public Relations	\$160
Creative Director	Collateral Materials Development, Website Design and Development, Branding, and Copywriting	\$135
Multicultural Specialist	Strategic Communications, Media Relations, Public Relations, and Community Outreach	\$135
Translator	Written, Simultaneous, and Consecutive Spanish Translations	\$105

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

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:** ERO Resources Corporation

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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Ecologist/Natural Resource Specialist	Ecology and natural resources related planning, investigations, and documentation	\$115
Geoscientist	Geosciences investigations and documentation	\$95

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.45

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:** Fehr & Peers

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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal	QA/QC, Project oversight, Technical Advisor	\$325.00
Senior Associate	QA/QC, Project oversight, Technical Advisor	\$310.00
Associate	QA\QC Project oversight, Technical Advisor, Invoice Preparation, Project Management	\$210.00
Senior Engineer/Planner	Project Management, Invoice Preparation, Technical Advisor	\$190.00
Engineer/Planner	Operational Analysis, Design	\$145.00
Senior Technical Support	Operational Analysis, Drafting, Graphic Design	\$175.00
Senior Administrative Support	Administrative Support, Accounts Receivable, Graphic Design	\$140.00
Administrative Support	Administrative Support, Accounts Receivable, Graphic Design	\$125.00
Technician	Drafting, Clerical Support, Graphic Design	\$135.00
Intern	Data Collection, Clerical Support, Analysis Support, Drafting Support	\$95.00

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 reproduction 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal	Lead strategist	\$275
Senior Associate	Project management and execution	\$210
Associate	Project execution	\$145
Support	Project maintenance and administration	\$75

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:** 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Owner	Direction of all aspects of the firm's operations	\$180
Principal	Assures technical, staff, & scheduling requirements	\$175
Project Manager III	Leads and reviews technical work	\$140
Project Manager II	Leads and reviews technical work	\$125
Project Manager I	Leads and reviews technical work	\$115
Designer	Completes technical work under direction of PM	\$100
Administrator	Bookkeeping and general administration	\$100
CAD I / Coordinator I	Completes technical work under direction of PM	\$75

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

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### SUB-CONSULTANT TEAM MEMBERS

**FIRM NAME:** H.C. Peck & 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal	Overall project management; acquisition of property rights	\$140
Sr. Project Manager	Day to day project management; acquisition	\$120
Project Manager	Day to day project management; acquisition	\$110
Sr. ROW Agent	Acquisition	\$100
ROW Agent III	Acquisition	\$90
ROW Agent II	Acquisition; acquisition support	\$80
ROW Agent I	Acquisition; acquisition support	\$70
Support Staff	Acquisition support	\$60
Title Staff	Title work and curative; closings	\$111

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

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**SUBCONSULTANT TEAM MEMBERS****Firm Name: i3 Integration 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).

<b>Name / Title Classification</b>	<b>Responsibilities</b>	<b>HOURLY RATE</b>
Principal / Senior Program Manager	Program Management and Controls	\$280.00
Program Manager 3		\$255.00
Program Manager 2		\$238.00
Program Manager 1		\$222.00
Deputy Program Manager		\$199.00
Senior Project Manager	Project Management and Controls	\$192.00
Project Manager 5		\$183.00
Project Manager 4		\$172.00
Project Manager 3		\$162.00
Project Manager 2		\$151.00
Project Manager 1		\$137.00
Project Coordinator 4	Project and Controls Coordinators	\$128.00
Project Coordinator 3		\$116.00
Project Coordinator 2		\$104.00
Project Coordinator 1		\$95.00
Enterprise Systems Designer 2	Management Information Systems	\$222.00
Enterprise Systems Designer 1		\$209.00
Solution Architect 2		\$199.00
Solution Architect 1		\$183.00
Business Process Architect	Business Processes	\$168.00
Business Process Designer 2		\$151.00
Business Process Designer 1		\$137.00
Applications Programmer 3	Programming	\$168.00
Applications Programmer 2		\$158.00
Applications Programmer 1		\$151.00
Systems / Data Analyst 3		\$128.00
Systems / Data Analyst 2		\$116.00
Systems / Data Analyst 1		\$104.00
Web Developer	Web Development	\$95.00
Web Designer		\$89.00
Web Administrator		\$77.00
Senior Management Consultant	Management Consulting	\$255.00
Management Consultant 3		\$238.00
Management Consultant 2		\$222.00
Management Consultant 1		\$209.00
Consultant 4	Program and Project Controls Consultants	\$199.00
Consultant 3		\$192.00
Consultant 2		\$183.00
Consultant 1		\$172.00
Senior Analyst	Analysts	\$162.00
Analyst 2		\$137.00
Analyst 1		\$128.00
Executive Administrative Assistant	Administration	\$89.00
Senior Administrative Assistant / Office Manager		\$77.00
Administrative Assistant 3		\$71.00
Administrative Assistant 2		\$64.00
Administrative Assistant 1		\$51.00
Intern 2	Interns	\$43.00
Intern 1		\$36.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.50

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 MEMBERS**

**FIRM NAME:**   iQu Strategies, 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
President	Strategic direction and overview	\$350
Chief Engagement Officer	Client interface and project management	\$300
Senior Project Leader	Local grassroots mobilization and stakeholder engagement	\$250
Senior Communications Director	Communications and media	\$250

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

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## SUB-CONSULTANT TEAM MEMBERS

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

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

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal	Project Oversight, Contracts/Negotiations	\$ 175.00
Principal-in-Charge / Senior Project Manager	Project Oversight, Geotechnical Report Review, Value Engineering, Attends Meetings, budget management	\$ 165.00
Project Manager; Geotechnical	Coordinates and conducts geotechnical subsurface investigative programs, provides geotechnical report review and recommendations	\$ 130.00
Project Engineer; Geotechnical	Preparation of Geotechnical Engineering Reports, performs geotechnical engineering study/investigation(s), coordinates drilling procedures/scheduling	\$ 100.00
Staff Engineer; Geotechnical	Performs analysis of field and laboratory data for generation of geotechnical recommendations	\$80.00
Field Engineer	Supervises drilling activities including logging and sampling of subsurface conditions	\$ 60.00
Exploration Manager	Coordinates drilling schedule and performs drilling procedures	\$ 65.00
Managing Scientist	Overall project management and staff allocation, report review	\$105.00
Project Scientist	Supervise Staff Scientists during Phase I ESAs, Asbestos inspections, and other field work, report preparation	\$ 90.00
Staff II Scientist	Perform Phase I and Phase II ESA's, Asbestos inspections and other field work, assists in report preparation	\$ 75.00
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	\$ 75.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.89

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**SUB-CONSULTANT TEAM MEMBERS****FIRM NAME: OnPoint Communications LLC dba OnPoint Power 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Senior Grant Strategist	Develop overall strategy for grant application and development including identification of funding sources, specific opportunities, positioning activities, and schedule for grant pursuit activities	\$150
Grant Strategy Support	Supports overall strategy for grant application and development including identification of funding sources, specific opportunities, positioning activities, and schedule for grant pursuit activities	\$125
Grant Proposal Manager	Manages grant proposal, including compliance, schedule, resources, document development, approval and submittal	\$135
Technical Author	Authors written information for grant proposals	\$115
Technical Editing	Provides technical editing for grant proposals	\$100
Graphics, Design and Desktop Publishing	Provides graphics, design and desktop publishing support for grant proposals	\$90
Grant Support Jr	Provides junior support to grant proposal and strategy efforts	\$65

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

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**SUB-CONSULTANT TEAM MEMBERS**

**FIRM NAME:** Peak Facilitation 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Lead Facilitator	Project management, client relationship, high-profile/high-conflict facilitation, documentation review	\$150
Associate Facilitator	Low-profile/low-conflict facilitation, meeting documentation, logistics	\$85

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

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**SUB-CONSULTANT TEAM MEMBERS**Firm 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 EXPENSES**FIRM: Pinyon Environmental, Inc.

<b>EXPENSE OR SERVICE</b>	<b>RATE</b>	<b>BILLING RATE</b>
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
<b>Pass Through Rate – Subcontractor Costs and Management</b>		
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 MEMBERS

**FIRM NAME:**   RNL Design  

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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal	Principal in Charge, primary RNL point of contact, site planning, facility programming, quality control, sustainability	\$235
Senior Project Manager (PM)	Project scheduling, invoicing, RNL team leader, quality control	\$203
Project Manager (PM)	Assists the PM with project scheduling, invoicing, quality control	\$178
Senior Architect	Architectural design lead, quality control leader, cost control, sustainability	\$167
Architect	Project designer, document and specification generation, coordination with consultants, cost control, sustainability	\$142
Intern Architect	Assists the PM and Architects	\$105
Chief Specifier	Oversees development of all project specifications, spec QA	\$167
Transportation Planning Director	Oversees all transportation planning projects including roadway, corridors, and right of ways	\$203
Transportation Planner	Roadway, corridors, and right-of-way planning	\$115
Landscape Architect	Site planning, site design, irrigation design quality control, landscape and planting design, sustainability	\$142
Landscape intern	Site planning, site design, irrigation design quality control, landscape and planting design, sustainability	\$115
Administration	Assist Principal and PM with contracts, forms, overall project administrative work	\$94

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

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**SUB-CONSULTANT TEAM MEMBERS****FIRM 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Project Manager	Oversee project; manage RockSol services	\$159.00
Senior Project Engineer	Lead discipline-specific engineering services	\$146.00
Project Engineer	Perform engineering services	\$112.00
Staff Engineer	Assist with engineering services	\$82.33
Inspector IV	Perform construction inspection (20-25 years experience)	\$127.00
Inspector III	Perform construction inspection (10-20 years experience)	\$109.80
Inspector II	Perform construction inspection (3 to 10 years experience)	\$86.93
Inspector I	Perform construction inspection (less than 3 years experience)	\$69.14
CADD Technician	Assist design teams with drafting	\$82.00
Project Control/ Administration	Assist field/engineering staff, complete invoicing	\$69.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.6861

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**SUB-CONSULTANT TEAM MEMBERS****FIRM NAME:** SiteWise Corporation

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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Subsurface Utility Engineer	Subsurface Designating with Sketch, and Records Research (Normally would apply to Level A, B and C SUE work)	\$80
Utility Engineer – Survey	Utility Locating Services / GPS Survey of Utilities	\$85
Utility Engineer – Locating	Fault Detection and Locating	\$90
CAD Technician	Engineering Drawings	\$90
Professional Engineer	PE Stamp on CAD Drawing (For Permit and Engineering)	\$100
Supervisor – Vacuum Services		\$80
Additional Labor – Vacuum Services		\$40

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

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**Vacuum Excavation (All rates are charged portal to portal)**

<b>Description</b>	<b>Rate</b>	<b>OT Rate</b>
Large Hydrovac Truck with 2 Person Crew (4500-5500 cfm, 12 cubic yards, 60 US bbl oil, effective digging up to 40 feet, good for highest productivity, greater depths, longer remote hose, large vessels or jobs requiring less dumping)	\$230/hr	\$280/hr
Large Hydrovac Truck with 2 Person Crew (Davis Bacon / Prevailing Wage)	\$245/hr	\$295/hr
V800LE Vac-Trailer with Truck and 2 Person Crew (1000-1500 cfm, 4 cubic yards, 19 US bbl oil, effective digging up to 10 feet, good for tight spaces and jobs allowing onsite dumping)	\$185/hr	\$235/hr
V800LE Vac-Trailer with Truck and 2 Person Crew (Davis Bacon / Prevailing Wage)	\$200/hr	\$250/hr

**Additional Vacuum Services**

<b>Description</b>	<b>Rate</b>
Half Ton Pickup	\$17/hr
Permits	Cost + 15%
Materials	Cost + 15%
Dump Fee (Ft. Collins to Castle Rock)	\$75/ea
Dump Fee (Colorado Springs to Pueblo)	\$100/ea
Contaminated Dump Fee	Cost + 15%
Remote Hose	\$2.75/ft
Core Drilling and Backfill ( <b>Charged Portal to Portal</b> )	\$85/hr

\*Normal working hours, days and week are Monday through Friday, 7:00 a.m. to 5:00 p.m. Work outside of normal working hours, days or week, or in excess of forty (40) hours straight time per week billed at overtime rates. Sunday and Holiday work rates shall be negotiated when work is so requested by your company. For internal use only unless attached to a formal proposal form SiteWise.

**SUB-CONSULTANT TEAM MEMBERS****FIRM NAME:** StudioCPG

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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal	All phases of Design; Quality Review; Client Management; Contract Management	\$165
Senior Project Manager	All phases of Design: Construction Documents; Construction Observation; Quality Review; Project Management	\$125
Senior Landscape Architect	All phases of Design: Construction Documents; Construction Observation; Quality Review	\$125
Landscape Designer I	Conceptual/Schematic/Design Development; ACad Support	\$95
Landscape Designer II	Conceptual/Schematic/Design Development; ACad Support	\$85
Graphic Designer	Graphic Design	\$77
Intern	Design Support: ACad; Document Production; Admin Support	\$65
Administration	Clerical; Invoicing	\$60

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

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## SUB-CONSULTANT TEAM MEMBERS

**FIRM 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Senior Vice President	Overall QA/QC; Review of geotechnical engineering investigations, analysis, and design recommendations	\$245
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	\$200
Senior Associate	Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$175
Associate	Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$155
Senior Professional III	Coordinates/complete geotechnical investigations; Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$140
Senior Professional II	Coordinates/complete geotechnical investigations; Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$125
Senior Professional I	Coordinates/complete geotechnical investigations; Performs geotechnical analysis and provides design recommendations; Prepares geotechnical engineering reports	\$105
Professional IV	Coordinates/assists with geotechnical investigations, analysis and design recommendations; Assists with geotechnical engineering reports	\$95
Professional III	Coordinates/assists with geotechnical investigations, analysis and design recommendations; Assists with geotechnical engineering reports	\$90
Professional II	Performs field logging of borings and prepares boring logs	\$85
Professional I	Performs field logging of borings and prepares boring logs	\$75
Senior Technician	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$98
Technician IV	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$84
Technician III	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$75
Technician II	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$65
Technician I	Provides laboratory testing of soil/rock obtained from geotechnical boring	\$58

Senior Drafter	Prepares report figures such as site plans and boring location maps	\$100
Drafter III, IV	Prepares report figures such as site plans and boring location maps	\$90
Drafter I, II	Prepares report figures such as site plans and boring location maps	\$85
Administrative III, IV	Formatting, printing, and assembling of technical reports	\$85
Administrative I, II	Formatting, printing, and assembling of technical reports	\$65

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

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### SUB-CONSULTANT TEAM MEMBERS

**FIRM NAME: TriUnity Engineering & Management, 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Electrical Engineer	Electrical, power and controls systems design, project management	137.69
Civil Engineer	Civil design, roadway, signage, striping drainage & utilities.	152.26
Electrical Designer	Security, SCADA & communications design	108.44
Project Manager	Project controls, project management, EVM, scheduling & cost controls	185.02
Project Manager	Project controls, scheduling, budgeting, estimating, contract management and forecasting	104.27
Electrical Inspector	Electrical inspection, pre-task safety plans, job hazard analyses, review installation layouts, quality control	102.12
Electrical Inspector	Electrical and integrated communications system inspection	92.78
Estimator	Estimating, project controls	95.61
Scheduler	Scheduling, project controls	102.74

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 107.55%

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**SUB-CONSULTANT TEAM MEMBERS****FIRM NAME:** Valerian, 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal	Provides leadership, oversees overall project & design	\$150
Associate Principal	Oversees and provides design, quality control & budget management	\$115
Associate	Provides oversight, lead design and review, sub-consultant coordination	\$90
Landscape Designer	Project support	\$75
Irrigation Designer	Provides all irrigation design and coordination	\$85
Office Manager	Clerical support, filing, submittal preparation, and other duties as assigned	\$60

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.25

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**SUB-CONSULTANT TEAM MEMBERS****FIRM NAME:** Vista GeoScience, 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.

<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal Geochemist	Principal Geologist/Geochemist	\$185
Principal Scientist	Principal Scientist	\$175
Principal Hydrogeologist	Principal Hydrogeologist	\$135
Senior Project Manager	Project Management Services	\$115
Project Manager	Project Management Services	\$105
Field Supervisor	Supervision of field activities	\$105
Geologist II	Geologist or Environmental Scientist II	\$95
Geologist I	Geologist or Environmental Scientist I	\$85
Environ Tech II	Environmental Technician II	\$85
Environ Tech I	Asst. Environmental Technician I	\$75

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

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Item Code	Item Description	Pricing
<b>RIG &amp; PERSONNEL</b>		
Geoprobe, day	Geoprobe Series DPT/Auger Combo Rig & Crew, Level D, per day (8 hours)	\$2,595.00
Geoprobe, 1/2 day	Geoprobe Series DPT/Auger Combo Rig & Crew), Level D, min. day (<5	\$1,725.00
Geoprobe, add't hours	Overtime for Geoprobe Crew (66/78 Series) (after 8 hours), per hour	\$330.00
Auger/325 Add-on	SSA or HSA Augers or 3.25" DPT Rod System surcharge, per day	\$245.00
Tier II, day	Direct Push Rig, Tier II Sampling Gear, Landtec Meter, Technician, per day	\$2,495.00
Dolly Add-on Day	Dolly Probe add-on charge, per day	\$750.00
Add't Rig	Additional Rig Onsite, with same crew, per day	\$1,595.00
Geoprb&SlurryInject	Geoprobe DPT/Auger Rig, Clean-Inject Pump Rig, Level D, per day (8	\$4,995.00
Geoprb&SlurryInject	Geoprobe DPT/Auger Rig, Clean-Inject Pump Rig, Level D, per day,	\$575.00
Freezing	Freezing Weather Surcharge, 25%	
Add-On C	Upgrade to Level C, including standard PPE, per person, per day	\$150.00
Add-On B	Upgrade to Level B, incl. standard PPE (not incl. supplied air), per person,	\$250.00
Hand Sampling	One Environmental Technician & Hand Sampling Equipment, per hour	\$95.00
LB Portable Auger	LB Portable 8 HP, 4" Solid Stem Auger, per day	\$275.00
Weekend-Evening	Weekend or Evenings Surcharge (+25% of all service rates)	
Stand-by	Standby Charge (75% of the hour or full daily rate, not to exceed full day	
<b>RENTALS</b>		
Decon Trailer Pad	Decon trailer or pad with Hotsy Pressure Washer & Safety Supplies, per day	\$275.00
3-Bucket Decon	3-Bucket/Alconox Decon & Misc.Safety Supplies, per day	\$100.00
Support Truck	Support Truck, per day	\$245.00
Trailer	Trailer for product / equipment transport, per day	\$125.00
Decon Trailer Pad	Decon trailer or pad with Hotsy Pressure Washer, per day	\$275.00
Well Repair/Abandon	Support Truck & Trailer; Jackhammer, Chisel Points & Generator, per day	\$500.00
Injection Set-up-Sm	Small Batch Injection Equip., Mixers, Tanks, Tooling & Pump, per day	\$495.00
Injection High Vol.	Hi-Volume Injection Trailer, 4-Pump/Point Manifold, Flow & Pressure, per	\$895.00
Injection Set-up-Lg	Low pH & Oxidant Injection Trailer, Mixers, Tanks, Tooling & Pumps, per	\$695.00
Injection/Frac Setup	Injection/HydroFrac Rig - Dual Tank, Mixers, Pumps, Flow/Pressure, per day	\$995.00
10x20 Containment	10' x 20' Portable PVC Lined Containment Berm, per day	\$100.00
Straddle Packer Assm.	Straddle Packer Assembly and accessories, per day	\$375.00
Injection Monitoring System	Computerized Injection Flow/Pressure Monitoring System, per day	
Tilt-Meter Array	Tilt-Meter Array and Assoc. Electronics, per day	
GS1000 Pump	GS1000 High Pressure Piston Grout Pump, per day	\$150.00
GS2000 Pump	GS2000 High Pressure Piston Grout Pump, per day	\$250.00
DP800 Pump	DP800 High Pressure Chemical Pump, per day	\$250.00
Diaphragm Pump (dual)	40-50gpm Diaphragm Chem Pump (dual), w/compressor, per day	\$350.00
1.75" DH Pump	2" Well Downhole Submersible Pump & Controller Rental, per day	\$120.00
YSI Water Parameters	YSI Water Meter (pH, DO, Conductivity, Temp, ORP-eH ), per day	\$175.00
Peristaltic Pump	Peristaltic Pump, per day	\$30.00
Water Level	Water Level Probe, per day	\$20.00
Sub-Slab Vapor Pt. Kit	Sub-Slab Vapor Point Installation Kit, per day	\$250.00
Survey Equipment Rental	Survey Equipment Rental - Autolevel and Rod, per day	\$100.00
Landtec	Landtec GEM 2000 Landfill Gas Monitor, calibrated, per day	\$165.00
PID	Portable PID OVM Rental, calibrated, per day	\$85.00
FID-PID	Portable FID/PID OVM Rental, H2 fuel, calibrated, per day	\$175.00
Fan & CO	Exhaust Fan, Ductwork and CO Monitor, per day	\$75.00
CO Monitor	Carbon Monoxide Monitor, calib. gas, per day	\$50.00
Generator	5KW-8KW Generator Rental, per day	\$75.00
Generator-Tow Behind	Tow Behind Generator	
HammerDrill	Hammer Drill Rental, per day	\$75.00
<b>OTHER SERVICES</b>		
Gamma	Natural Gamma Ray Logging with SlimLine Logger + operator, per day	\$950.00
MIP Services	Membrane Interface Probe Services (MIP, HPT, EC, LIF/UVOST/TarGOST)	quote
License & Bond	Use of Vista's Current Bond &/or License, per project	quote
Permit	Required Permits, at cost	
Tech - Permits	Environmental Field Technician to obtain permits, clear utilities, per hour	\$75.00
<b>MOBILIZATION &amp; TRAVEL</b>		
Rig-Equip mob	Mobilization (each rig & crew), per mile	\$2.75
Lab mob	Mobilization (mobile lab & chemist), per mile	\$2.75
Auto/Tech mob	Mobilization for Field Tech, per mile	\$1.75
per diem	Per Diem, per person, per day	\$50.00
hotel	Lodging, per person, per day (estimated)	at cost+15
<b>EXPENDABLES</b>		
<b>SOIL CORE LINERS</b>		
4 ft. DT22 Liners	4 ft. DT22 Core PTEG Liners, Catchers and Caps, each	\$6.00
5 ft. DT22 Liners	5 ft. DT22 Core PTEG Liners, Sand Catchers and Caps, each	\$7.00
DT22 Bumper Cushion	DT22 Rubber Coring Bumper-Cushion	\$9.00
5 ft. DT325 Liners	5 ft. DT325 Core PVC Liners, Sand Catchers and Caps, each	\$8.00
2 ft. Macro Liners	24" MACRO Core PVC Liners and Caps, set	\$3.00

3 ft. Marco Liners	36" MACRO Core PVC Liners and Caps, set	\$3.50
4 ft. Macro Liners	48" MACRO Core PVC Liners and Caps, set	\$4.00
5 ft. Macro Liners	60" MACRO Core PVC Liners and Caps, set	\$4.50
2 ft. LB Liners	24" Large Bore CAB Liners and Caps, set	\$2.00
Brass CA Liners	4" x 1.5" Brass California Sampler Liners & caps, each	call
SS Macro Core Liners	48" Stainless Steel Macro Core Liners,	\$112.00
SS LB Liners	24" Stainless Steel Large Bore Liners	\$45.00
<b>PVC WELL MATERIALS</b>		
1/2" PVC Riser	1/2" Schedule 40 PVC TFJ Riser, per 5' section	\$11.00
1/2" PVC Screen	1/2" Schedule 40 PVC TFJ Screen (.010"), per 5' section	\$17.00
1/2"x1.4"x 5' Prepacked	Pre-packed 1/2" x 1.4" PVC Screen, per 5' section	\$108.00
1/2" TFJ Cap	1/2" TFJ Sched 80 Cap, each	\$5.00
1/2" Slip Cap	1/2" Slip Sched 40 Cap, each	\$2.00
3/4" PVC Riser	3/4" Schedule 40 PVC TFJ Riser, per 5' section	\$11.00
3/4" PVC Screen	3/4" Schedule 40 Screen (.010" or .020") PVC, per 5' section	\$19.00
3/4"x1.4"x 5' Prepacked	Pre-packed 3/4" x 1.4" PVC Screen, per 5' section	\$115.00
3/4" TFJ Cap	3/4" TFJ Cap, each	\$5.00
3/4" Top Slip Cap	3/4" Top Slip Cap, each	\$2.00
1" x 5' Riser	1" Schedule 40 PVC TFJ Riser, per 5' section	\$12.00
1" x 10' Riser	1" Schedule 40 PVC TFJ Riser, per 10' section	\$18.00
1" x 5' Screen	1" Schedule 40 PVC TFJ Screen (.010" or .020"), per 5' section	\$17.00
1" x 10' Screen	1" Schedule 40 PVC TFJ Screen (.010" or .020"), per 10' section	\$26.00
1" x 5' Prepacked Screen	Pre-packed 1.0"ID x 2.5"OD PVC/SS Screen, per 5' section	\$125.00
1" TFJ Cap	1" TFJ Male or Female End Cap, each	\$6.00
1" TFJ Point	1" TFJ Male or Female End Point each	\$9.00
1" Top Slip Cap	1" Top Slip Cap, each	\$2.00
1.5" x 5' Riser	1.5" Schedule 40 PVC TFJ Riser, per 5' section	\$13.00
1.5" x 10' Riser	1.5" Schedule 40 PVC TFJ Riser, per 10' section	\$21.00
1.5" x 5' Screen	1.5" Schedule 40 PVC TFJ Screen (.010" or .020"), per 5' section	\$23.00
1.5" x 5' Prepacked Screen	Prepacked 1.5"ID x 2.5"OD PVC/SS Well Screen, per 5' section	\$138.00
1.5" Top Slip Cap	1.5" Top Slip Cap, each	\$2.00
1.5" TFJ Cap	1.5" TFJ Male or Female End Cap, each	\$8.00
2" x 5' Riser	2" Schedule 40 PVC TFJ Riser, per 5' section	\$16.00
2" x 10' Riser	2" Schedule 40 PVC TFJ Riser, per 10' section	\$23.00
2" x 5' Screen	2" Schedule 40 PVC TFJ Screen (.010" or .020"), per 5' section	\$26.00
2" x 10' Screen	2" Schedule 40 PVC TFJ Screen (.010" or .020"), per 10' section	\$32.00
2" x 5' Prepacked Screen	Prepacked 2.0" x 3.4"OD PVC/SS Screen, per 5' section	\$179.00
2" TFJ Cap	2" TFJ Male or Female End Cap, each	\$8.00
2" TFJ Point	2" TFJ Male or Female End Point each	\$11.00
2" Slip Cap	2" Slip Cap, each	\$3.00
<b>WELL COMPLETION MATERIALS</b>		
Gran-Chip Bentonite	Granular or Chip Bentonite, per 50# bag	\$12.00
20% Bent	20% Solids Bentonite Grout, per 50# bag	\$9.00
30% Bent	30% High Solids Bentonite Grout, per 50# bag	\$9.00
Patch-Asphalt	Asphalt Cold-Patch, per 50# bag	\$16.00
Sand 6-9	Filter Pack Silica Sand (6-9 mesh), per 50# bag	\$9.00
Sand 8-12	Filter Pack Silica Sand (8-12 mesh), per 50# bag	\$12.00
Sand 10-20	Filter Pack Silica Sand (10-20 mesh), per 50# bag	\$12.00
Sand 16-30	Filter Pack Silica Sand (16-30 mesh), per 50# bag	\$9.00
Sand 20-40	Filter Pack Silica Sand (20-40 mesh), per 50# bag	\$14.00
Pellets non-coated	1/4" Bentonite Pellets, non-coated, per 50# bucket	
Pellets coated	1/4" Bentonite Pellets, TR-30, per 50# bucket	\$84.00
Portland	Portland Cement, per 94# sack	\$15.00
Concrete	Concrete patch or well pads/ballards, per 60# sack	\$7.00
<b>DRIVE POINTS &amp; CUTTING SHOES</b>		
1.0" X-Drive Point	1.0" Expendable Drive Point, each	\$5.00
1.5" X-Drive Point for SP16	1.75" - SP15/16 Exp Drive Point, each	\$7.00
2.25" X-Cutting Shoe	2.25" DT22 Exp Core Cutting Shoe, each	\$35.00
2.25" X-Drive Point	2.25" DT22 Exp Drive Point, each	\$13.00
3.25" X-Cutting Shoe	3.25" DT325 Exp Cutting Shoe, each	\$51.00
3.25" X-Drive Point	3.25" DT325 Exp Drive Point, each	\$30.00
3.25" Wood HSA Plugs	3.25" Wood Plugs for HSA	\$5.00
3.25" Poly HSA Plugs	3.25" Poly-Plugs for HSA	
<b>TUBING</b>		
1/4" Poly Tubing	1/4" OD Polyethylene Tubing, per foot	\$0.40
3/8" Poly Tubing	3/8" OD Polyethylene Tubing, per foot	\$0.40

1/2" Poly Tubing	1/2" OD x 3/8" ID Jiggle Tubing, per foot	\$0.40
3/16" Nylon Tubing	3/16" OD Nylon Tubing, per foot	\$0.60
1/4" Nylon Tubing	1/4" OD Nylon Tubing, per foot	
3/8" Nylon Tubing	3/8" OD Nylon Tubing, per foot	\$1.60
3/8" Silicon Tubing	3/8" OD x 5/8" ID Silicon Tubing, per foot	\$3.75
1/4" Teflon-Poly Tubing	1/4" OD x 0.17" ID Teflon Lined Polyethylene Tubing, per foot	\$2.50
1/4" Teflon Tubing	1/4" OD x 0.17" ID Teflon Tubing, per foot	\$1.90
<b>OTHER SUPPLIES</b>		
55 gallon Steel Drum	55 gallon steel drum, transported to site, each	\$65.00
30 gallon Steel Drum	30 gallon steel drum, transported to site, each	\$87.00
55 gal. poly drum	55 gallon poly drum, transported to site, each	
Anchor Bolt	Concrete Anchor Bolt, each	\$3.00
1.5" x 36" Poly Bailers	1.5" x 36" Disposable Poly Bailers	\$8.00
0.75" x 36" Poly Bailer	0.75" x 36" Disposable Poly Bailer	\$12.00
Filter 45u	45 micron high volume water filter	\$30.00
<b>SOIL GAS SUPPLIES</b>		
0-20' Soil Gas Implant	Soil Gas Implant (Vapor Point, Nylon or Teflon lined tubing, valve) (0'-20'), each	\$75.00
20-40' Soil Gas Implant	Soil Gas Implant (Vapor Point, Nylon or Teflon lined tubing, valve) (20'-40'), each	\$95.00
Soil Gas 24" PVC Screen	24" x 1/2" PVC soil gas well screen	\$20.00
Plastic Valves	Plastic 1-way or 3-way valves	\$3.50
60cc Syringe	60cc Plastic Syringe	\$2.50
Vapor Implant Point	1/2" Aluminum Vapor Point, each	\$15.00
Sub-Slab Vapor Points	Stainless Steel Sub-Slab Vapor Points, Tubing, Supplies	\$75.00
<b>WELL COVERS &amp; PLUGS</b>		
6" Flush Cover Assm	7" Flush Traffic Cover, J-Plug, Locks keyed alike - per kit	\$73.00
6" Flush Traffic Cover	7" Flush Mounted Traffic Well Cover, each	\$56.00
8" Flush Traffic Cover	8" Flush Mounted Traffic Well Cover, each	\$60.00
10" Flush Traffic Cover	10" Flush Mounted Traffic Well Cover, each	
10" Flush Traffic Cover	10" Flush Mounted Traffic Well Cover, each	
10" Flush Traffic Cover	10" Flush Mounted Traffic Well Cover, each	
4" x 5' Sq. Riser Assm	4" x 4" x 5' Square Steel Riser with Cover, J-Plug, Locks keyed alike, per kit	\$115.00
4" x 5' Sq. Riser Only	4" x 4" x 5' Square Steel Riser with Cover	\$90.00
3/4" J-Plug	3/4" Locking J-Plug, each	\$13.00
1" J-Plug	1" Locking J-Plug, each	\$13.00
1.5" J-Plug	1.5" Locking J-Plug, each	\$13.00
2" J-Plug	2" Locking J-Plug, each	\$13.00
Lock	Locks - Keyed Alike, each	\$8.00
4" Round Steel Riser	4" Round Steel Riser, per foot	\$13.00
2" Alum flip cover	2" Aluminum Locking Well Cap, mts on PVC, each	\$19.00
4" Alum flip cover	4" Aluminum Locking Well Cap, mts on 4" round well, each	\$25.00
<b>STATE OPS PRICING</b>		
OPS DPT Temp Well	OPS 1.3 Temp Well Installation (poly tubing, grab sample), each	\$25.00
OPS DPT Perm Well	OPS 1.4 DPT Permanent 1" PVC Monitoring Well Installation, per foot	\$9.50
OPS DPT Abandon	OPS 1.5 DPT Well Abandonment, materials and labor	\$50.00
OPS DPT Soil Vapor	OPS 1.6 DPT Soil Vapor Implant Materials	\$125.00
OPS DPT Decon	OPS 1.7 DPT Decontamination, per site, per day	\$100.00
OPS DPT Other	OPS 1.99 DPT Drilling Other	
OPS GW Sampling	OPS 4.1 Groundwater Sampling (including labor and materials), per well	\$76.00
OPS Complete 2" MW	OPS 2.4 Completion of Borehole as 2" Monitoring Well, per foot	\$18.00
OPS Complete 4" MW	OPS 2.4 Completion of Borehole as 4" Monitoring Well, per foot	\$27.00
OPS Abandon 2" Well	OPS 2.5 Abandon 2" Monitoring Well, per foot	\$7.85
OPS Abandon 4" Well	OPS 2.5 Abandon 4" Monitoring Well, per foot	\$11.75
OPS DPT Soil Vapor	OPS 2.7 Auger Soil Vapor Implant Materials	\$125.00
OPS DPT Decon	OPS 2.8 Auger Decontamination, per site, per day	\$100.00
OPS Drums, each	OPS 14.4 Drums, each	\$55.00
<b>REMEDIATION MATERIALS</b>		
BOS200 50-4000	Trap & Treat BOS200, 50# sacks or 1000# supersacks, per pound	\$5.75
BOS200 4050-10000	Trap & Treat BOS200, 50# sacks or 1000# supersacks, per pound	\$5.50
BOS200 10050-20,000	Trap & Treat BOS200, 50# sacks or 1000# supersacks, per pound	\$5.25
BOS200 20050+	Trap & Treat BOS200, 50# sacks or 1000# supersacks, per pound	\$5.00
BOS100 210-19950	Trap & Treat BOS100, 210# drums, per pound	\$9.95
BOS100 21160+	Trap & Treat BOS100, 210# drums, per pound	\$9.45
T&T Bacteria	Trap & Treat Bacterial Concentrate, 5 gal. buckets, per gal.	\$80.00
Gypsum	Powdered Gypsum, Food Grade, 50# sacks, per pound (tax, incl.)	\$0.55
BOS200 Est. Tax, Freight, Handling	BOS200 Estimated Tax, Freight & Handling Charges, per lb.	\$0.45
BOS100 Est. Tax, Freight, Handling	BOS100 Estimated Tax, Freight & Handling Charges, per lb.	\$0.85

**SUB-CONSULTANT TEAM MEMBERS****FIRM NAME:** Wenk Associates

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<b>Title/Classification</b>	<b>Responsibilities</b>	<b>Rate/Hr.</b>
Principal II		\$215/hr
Principal I		\$130/hr
Project Manager II		\$105/hr
Project Manager I		\$95/hr
Landscape Architect/Designer III		\$90/hr
Landscape Designer II		\$85/hr
Landscape Designer I		\$80/hr
Draftsperson		\$75/hr
Administrative Support		\$55/hr
Graphic Designer		\$75/hr

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

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