

SECOND AMENDATORY AGREEMENT

THIS SECOND AMENDATORY AGREEMENT is made and entered into as of the date set forth below by and between the **CITY AND COUNTY OF DENVER**, a municipal corporation of the State of Colorado (“City”), and **WILSON & COMPANY, INC., ENGINEERS & ARCHITECTS**, a Kansas corporation (the "Consultant"), whose mailing address is 4900 Lang Avenue Northeast, Albuquerque, New Mexico 87109.

WITNESSETH:

WHEREAS, the Parties entered into a Design Services Agreement, dated August 4, 2017, as amended by an Amendatory Agreement, dated March 13, 2018, for professional consultant services to deliver preliminary design for the 47th Avenue/York Street bicycle/pedestrian bridge project (the “Agreement”); and

WHEREAS, the Parties desire to amend the Agreement to extend the term, revise the scope of work to include final design and construction support services, and make other changes to the Agreement.

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

1. Section 2.01 of the Agreement entitled “**General**” is amended as to read as follows:

“**2.01 General.** The Design Consultant shall provide professional design services for the Project in accordance with the terms and conditions of this Agreement. The Design Consultant's basic services shall consist of all of those services described in this Agreement and in **Exhibit A** and all of the work and services described in **Amendment 2 – EXHIBIT A** attached hereto and incorporated herein by this reference (all references in this Agreement to “**Exhibit A**” shall be deemed to mean and refer to **Exhibit A** attached to the original Design Services Contract as extended and supplemented by **Amendment 2 – EXHIBIT A** attached to this Second Amendatory Agreement).”

2. Section 3 of the Agreement entitled “**COMPENSATION, PAYMENT AND FUNDING**” is amended as to read as follows:

“SECTION 3 – COMPENSATION, PAYMENT AND FUNDING

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

3.01 Fee for basic services. The City agrees to pay the Design Consultant, as full

compensation for its basic services rendered hereunder, a fee not to exceed **ONE MILLION THREE HUNDRED FOURTEEN THOUSAND EIGHT HUNDRED FORTY-FIVE DOLLARS AND ZERO CENTS (\$1,314,845.00)**, in accordance with the billing rates and project budget stated in **Exhibits A and B**. The amounts budgeted for phases may be increased or decreased, and the amounts allocated for services and expenses adjusted, upon written approval of the Director or his designee, and subject to the Maximum Contract Amount stated in this Section 3.

3.02 Reimbursable Expenses. Except for those reimbursable expenses specifically identified in **Exhibit A**, or approved in writing by the City as reasonably related to or necessary for the Design Consultant's services, all other expenses shall be included in the Design Consultant's fee and will not be reimbursed hereunder. The maximum amount to be paid for all reimbursable expenses under this Agreement is **FORTY-FIVE THOUSAND ONE HUNDRED FIFTY-FIVE DOLLARS AND ZERO CENTS (\$45,155.00)** unless an additional amount is approved by the Director or his designee in writing, subject to the Maximum Contract Amount stated herein. Unless this Agreement is amended in writing according to its terms to increase the Maximum Contract Amount, any increase in the maximum amount of reimbursable expenses will reduce the Design Consultant's maximum fee amount accordingly.

3.03 Additional Services. If pre-approved additional services are performed by the Design Consultant, the City agrees to pay the Design Consultant for such additional services in accordance with Section 2.08. The maximum amount to be paid by the City for all additional services under this contract is **FORTY-FIVE THOUSAND DOLLARS AND ZERO CENTS (\$45,000.00)**.

3.04 Invoicing and Payment. The City will make monthly progress payments for all services performed under this Agreement based upon the Design Consultant's monthly invoices. Such invoices shall be in a form acceptable to the City and shall include detail of the time worked by the Design Consultant's own personnel, billings from subcontractors, and all other information necessary to assess the Design Consultant's progress. Invoices shall be accompanied by documentation of expenses for which reimbursement is sought, and all other supporting documentation required by the City. The City's Prompt Payment Ordinance, §§ 20-107 to 20-118, D.R.M.C., applies to invoicing and payment under this Agreement. Final Payment to the Design Consultant shall not be made until after the Project is accepted, and all certificates of completion, record drawings and reproducible copies are delivered to the City, and the Agreement is otherwise fully performed by the Design Consultant. The City may, at the discretion of the Director, withhold reasonable amounts from billing and the entirety of the final payment until all such requirements are performed to the satisfaction of the Director. However, no deductions shall be made from the Design Consultant's compensation on account of penalty, liquidated damages or other sums withheld from payments to contractor(s).

3.05 Maximum Contract Amount.

- (a) Notwithstanding any other provision of the Agreement, the City's maximum payment obligation will not exceed **ONE MILLION FOUR HUNDRED FIVE THOUSAND DOLLARS AND ZERO CENTS (\$1,405,000.00)** (the "Maximum Contract Amount"). The City is not obligated to execute an Agreement or any amendments for any further services, including any services performed by Design Consultant beyond that specifically described in **Exhibit A**. Any services performed beyond those set forth therein are performed at Design Consultant's risk and without authorization under the Agreement.
- (b) The City's payment obligation, whether direct or contingent, extends only to funds appropriated annually by the Denver City Council, paid into the Treasury of the City, and encumbered for the purpose of the Agreement. The City does not by the Agreement irrevocably pledge present cash reserves for payment or performance in future fiscal years, and the Agreement does not and is not intended to create a multiple-fiscal year direct or indirect debt or financial obligation of the City.
- (c) The Design Consultant understands and agrees that the provision of any services by the Design Consultant, which would cause the total amount payable to the Design Consultant to exceed the amount of previously appropriated and encumbered funds, is strictly prohibited. In the event the continuation of services by the Design Consultant would cause the amount payable to the Design Consultant to exceed such amounts, the Design Consultant agrees to give to the Project Director at least two (2) weeks notice of the exhaustion of available funds. In the event additional funds are not made available within such two (2) week period, the Design Consultant agrees to stop providing services until such time as additional funds are appropriated and encumbered for the purposes of this Agreement, and amounts which remain available for payment to the Design Consultant.

3. Section 4.01 of the Agreement entitled "**Term**" is amended as to read as follows:

"4.01 Term.

The term of this Agreement will commence on August 1, 2017 and expire on December 31, 2021."

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

5. 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.

[SIGNATURE PAGES FOLLOW]

Contract Control Number:

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

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By _____

By _____

By _____



Contract Control Number: PWADM-201735512-02

Contractor Name: Wilson & Company, Inc., Engineers & Architects

By: 

Name: MARK SCHOLFIELD
(please print)

Title: VICE PRESIDENT
(please print)

ATTEST: [if required]

By: 

Name: Scott Waterman
(please print)

Title: Associate Vice President
(please print)



Amendment 2 - EXHIBIT A

SCOPE OF WORK

PROFESSIONAL SERVICES FOR FINAL DESIGN, BID, AND CONSTRUCTION SUPPORT SERVICES FOR THE 47TH AVENUE / YORK STREET BICYCLE/PEDESTRIAN BRIDGE PROJECT

**Project Control No. PWT2017-002
EBid Document No. 4844529**

DRAFT PROJECT GOALS

The goals bulleted below have been established for this project. These goals are aimed at advancing the project to, and through construction. Construction will ultimately realize the community's vision for a safe and simple connection across the UPRR linking the Elyria and Swansea neighborhoods.

- Provide a safe crossing of the UPRR for bicycles and pedestrians near the intersection of 47th Avenue and York Street.
- Complete the vision depicted in the 2015 adopted Elyria and Swansea Neighborhoods Plans and the completed Elyria Swansea at York: East/West Connectivity Study.
- Complete final design plans and construction that speak to the uniqueness and historic nature of the neighborhoods that is both culturally and functionally relevant and creative.
- Deliver the project's design to a high level of quality, meeting all requirements of the project's scope, budget, and schedule.
- Continue a community outreach program relevant to Elyria and Swansea neighborhoods' stakeholders that capitalizes on the stakeholder outreach executed in fall 2017 and winter 2018.
- Provide a solution that is a community asset both visually and functionally. Provide a solution that reduces long-term operations and maintenance.

OVERVIEW OF BASE SCOPE OF WORK

The original scope included tasks to deliver the preliminary design (~30%) and NEPA evaluation for a new bicycle and pedestrian bridge crossing the UPRR approximately 250 feet south of existing level crossing at 47th Avenue and York Street in the Elyria and Swansea neighborhoods of Denver. The design advanced the recommended alternative identified in the Elyria Swansea at York: East/West Connectivity Study.

This amended scope of work that follows amends the original scope of work to include final design and construction support services.

The scope of work that follows assumes that final design will include design of triangular shaped ramps both north, and south of the Union Pacific Railroad crossing with a prefabricated pedestrian/bicycle bridge crossing the railroad. The base scope assumes urban design and aesthetic treatments to the north ramps, bridge, and the north entry/exit way from York Street to the ramps south of the UPRR. The base scope of services assumes that the area encumbered by the shape of the south ramps will be landscaped with landscape rock or other hard surface treatments.

The scope of work below is organized as follows:

- Task 1. Project Management
- Task 2. Stakeholder Engagement
- Task 3. NEPA Evaluation
- Task 4. Final Design
- Task 5. Engineer's Opinion of Probable Cost
- Task 6. Engineering, Regulatory, Analytics (ERA) Preparation, Process, and Submittal
- Task 7. Bid & Construction Support Services

1. Project Management

Consultant will continue overall project management of the project execution, meetings, team and agency coordination, a schedule, document and agency reviews and other project needs. The Consultant shall coordinate all the work tasks being accomplished by all parties to ensure project work completion stages are on schedule.

- A. Project Planning and Coordination
 - 1. ~~Project Management Plan development and review with City Staff~~
 - 2. Project schedule development and maintenance
 - 3. ~~QA/QC Plan development~~
 - 4. Project Management Plan maintenance
- B. General Project Management
 - 1. Weekly project management – team and activities
 - 2. Invoicing and status reports
- C. Project Meetings
 - 1. ~~Project kickoff meeting~~
 - 2. Bi-weekly design meetings (every 2 weeks) – assumes 14 meetings; weekly PM team meetings for 4 months
 - 3. Meeting minutes – prepare minutes for design meetings
- D. Quality Control
 - 1. Interdisciplinary quality control for conflicts
 - 2. Quality control for plan elements

2. Stakeholder Engagement

The consultant will continue the stakeholder engagement and public information program relevant to the Elyria and Swansea neighborhoods' stakeholder for the design and NEPA processes. The amended scope that follows includes 2 additional communication pieces, one (1) public meeting during final design, support for the project website to provide graphics and content, and translation services.

- A. ~~Public involvement plan completed in previous scope.~~
- B. ~~Stakeholder distribution list completed in previous scope.~~
- C. Provide ongoing project communications (such as email blasts, etc.) and coordination with City staff for consolidated social media communications. This scope assumes two (2) additional informational pieces.
- D. ~~Small Group Meetings—Implement creative, non-traditional engagement/public information methods. The goal is to have input opportunities at varying times of day or weekends to maximize success. This scope assumes two (2) additional small group engagement activities.~~
- E. Conduct at one project open house meeting during the final design stage to provide final configuration, aesthetic treatment, and community amenities to stakeholders who prefer a more traditional outreach approach.
- F. Continue to provide content and graphics to the NDCC website setup for the project.
- G. Provide complete translation and interpretation services (English/Spanish) for the public engagement activities and materials.

3. NEPA Evaluation

The consultant will continue the appropriate environmental clearance process under NEPA. For this scope of work, the identified clearance process will be a Categorical Exclusion (CatEx). Tasks included in this scope of work include:

- A. Complete the CDOT Form 128a to include evaluation of resources such as environmental justice populations, right-of-way (ROW), land use, visual quality, historic and cultural resources; water quality and water resources; hazardous materials, biological resources, Section 4(f)/6(f) resources and any other resources identified during project scoping or discovered during resource evaluations. We will document final environmental clearance, including final signatures from CDOT staff.
1. ~~Hazardous Materials—complete an Initial Site Assessment (ISA) and Form 881, which will include a database review. The focus of the ISA will be areas where ground disturbances are anticipated. No soil or water testing, or asbestos and/or lead paint sampling will be conducted.~~
 2. ~~Biological Resources—prepare a biological resources report to document the presence or lack thereof of wetlands, vegetation and noxious weeds, SB 40, threatened and endangered species.~~
 3. Historic and Cultural Resources – additional services are necessary to support the historical clearances for the project. During scoping with the CDOT historian, the Area of Potential Effect (A.P.E.) was requested to be expanded to include 3 potential historic districts, including determination of eligibility and effects as it relates to visual impacts of the project to those potential resources. (*See Subconsultant Backup for Greater Detail*)
 4. ~~Resources of Minimal Concern—additional resources are assumed to be of minimal concern and will be documented with a brief memo.~~
- B. Materials Management Plan

4. Final Design

- A. Structural Design
1. 60% Structural Design
 - a. Based on comments from the preliminary structure report, develop 60% design of the substructure and superstructure for the approach ramps and pre-fabricated bridge over the UPRR.
 - b. Develop 60% plans (general layout, geometry, and typical sections)
 - c. Structure design QC and IDR
 2. 95% Structural Design
 - a. Finalize design of sub and superstructure.
 - b. Prepare 95% structure plans including notes, general layout, typical section, geometry, tabulation, and all details necessary to construction the ramps and pedestrian bridge.
 - c. 95% structure specifications
 - d. Independent design check
 - e. QC and IDR of 95% plans and design calculations
 3. 100% Structure Plans
 - a. Prepare Field Package
 - a. Excavation and backfill diagram
 - b. CADD/DTM surfaces list
 - c. Quantities with calculation backup
 - d. Bridge geometry run with dead load deflections

e. Geotechnical Report

- b. Resolve all comments and complete 100% structure plans.
- c. Resolve all comments and complete 100% structure specifications.
- d. Final QC.

B. Field Surveys

- 1. Land Survey – topographic design survey was completed in the previous scope of work.

- a. Survey utility potholes.

- 2. ~~Geotechnical Investigations—completed in previous scope of work~~

~~Perform soils, foundation and pavement investigations. Perform laboratory tests and provide preliminary pavement, foundation and retaining wall design recommendations.~~

~~Perform soil corrosivity testing (soluble sulfates, pH, chlorides, and electrical resistivity) and provide recommendations to mitigate corrosion concerns or sulfate-related concrete problems.~~

~~Prepare a report summarizing all of the above tests, investigations, analyses, calculations and recommendations and submit to the City for acceptance.~~

- a. ~~Pavement Borings—coincident with structure borings~~
- b. ~~Pavement design report~~
- c. ~~6 borings (2 at each approach, 1 at each main span abutment)~~
- d. ~~Foundation recommendations report~~

C. Right of Way –

- 1. Prepare ownership map per CDOT guidelines compatible with CDOT ROW plans.
- 2. Prepare CDOT ROW plans depicting the UPRR easement necessary for completion of the railroad coordination and agreements, and 3 additional parcels, including legal descriptions and exhibits (4 parcels total).

D. Civil Engineering / Site Design

- 1. Site Design

- a. Horizontal and vertical site design – finalize geometric layout of the triangle shaped approach ramps, approach walks, modifications to the Claude Court and 47th Avenue intersection, and conversion of Claude Court south of 47th to a 16-foot alley section.
- b. Finalize 3-D terrain model
- c. Develop 60% Site design plans
- d. Calculate 60% quantities
- e. Develop 60% specifications
- f. Develop 95% design plans
- g. Calculate 95% quantities
- h. Develop 95% specifications
- i. Resolve all comments and complete 100% plans and specifications

2. Urban Design and Aesthetics
 - a. Finalize urban design concepts for bridge
 - b. Develop design drawings and specifications for the design concept
 - c. Finalize design drawings and specifications for 95% and 100%
 - d. Prepare one 3-D printed model
 - e. Irrigation design/plans and landscape plans
 3. Construction methods and phasing
 - a. ~~Develop a project delivery selection matrix comparing design-bid-build, design-build, and CMGC delivery methods.~~
 - b. Develop construction phasing and traffic control for the north ramp construction adjacent to 47th and Claude Court intersection. It is assumed that no phasing and/or traffic control will be necessary for the ramps south of the UPRR.
- E. Drainage
1. Hydrology and hydraulic design
 - a. Finalize design flows based on 3-D terrain model
 - b. Finalize conveyance system
 - c. Finalize water quality approach and design
 - d. Develop 60% plans and specifications
 - e. Develop 95% plans and specifications
 - f. Resolve all comments and complete 100% plans and specifications.
 2. Prepare final drainage report documenting hydrology, design flows, water quality treatment, and conveyance system.
 3. Prepare Erosion Control Plans for 60%, 95%, and 100% submittals. CASDP permit is excluded.
- F. Utility Design and Coordination
1. Finalize utility conflicts and relocation design
 2. Coordinate and execute one group utility coordination meeting.
 3. Coordinate and execute individual utility coordination meetings, 1-on-1.
 4. Develop 60% utility plans.
 5. Develop 60% utility specification.
 6. Coordinate and execute final group utility coordination meeting.
 7. Coordinate and execute individual utility coordination meetings, 1-on-1 as necessary to finalize relocations and develop agreements.
 8. Develop 95% utility plans and specification.
 9. Develop utility agreements/clearance letter.
 10. Resolve all comments and complete 100% utility plans and specification.
 11. Finalize and execute utility agreements.
 12. Prepare Denver Water only plans for 4-inch main relocation in Claude Court converted alley. Plans to be prepared per Denver Water Standards.
 13. Document final utility clearance from CDOT.
- G. Lighting
1. Develop detailed lighting layout based on concept developed in preliminary design.
 2. Prepare illumination calculations per CCD requirements.
 3. Coordinate power 2 power feeds with Xcel Energy (one north and one south of UPRR)

4. Develop 60% lighting plans and specifications.
5. Develop 95% lighting plans and specifications.
6. Resolve all comments and complete 100% lighting plans and specifications.

H. Public Utilities Commission Coordination and Support

1. Prepare PUC application based on CDOT form data request.
2. ~~Prepare graphics for application and staff support for agreements~~
3. ~~Staff support for discussion with PUC~~

I. Railroad Coordination

1. ~~Prepare Conceptual Structural submittal and submit to UPRR~~
2. Prepare 100% Structural submittal and submit to UPRR per the Grade Separation Guidelines.
3. Provide data, coordination, and graphic support to the City for development and execution of the agreement between the UPRR and the City.

5. Engineer's Opinion of Probable Construction Cost

The consultant shall continue development of the 30% cost estimate, progressing the estimate with additional quantity and details.

- A. 60% Cost Estimate
- B. 95% Cost Estimate
- C. 100% Cost Estimate

6. Engineering, Regulatory, Analytics (ERA) Preparation, Process, and Submittal

The project must follow the City's review process and meet all City standards (including, but not limited to the Department of Public Works Engineering Standards, etc.). The documents produced must also be developed to meet requirements for Federal Aid funding. The consultant will complete the 60%, 95%, and 100% level of design plans/documents associated with the ERA review process.

A. 60% Design Review Meeting

1. Coordinate, complete, and compile all plan inputs
2. Finalize 60% plans for submittal
3. Distribute plans to City, utilities, and other stakeholders
4. Update design report prepared in preliminary design.
5. Attend 60% review meeting & site visit
6. Prepare 60% review meeting minutes
7. Resolve design questions and comments.
8. Prepare 60% comment resolution matrix.

B. 95% Design Review Meeting

1. Coordinate, complete, and compile all plan inputs
2. Finalize 95% plans for submittal
3. Distribute plans to City, utilities, and other stakeholders
4. Update design report.
5. Attend 95% review meeting
6. Prepare 95% review meeting minutes
7. Prepare 95% comment resolution matrix.

- C. 100% Plan Completion
 - 1. Complete all plan revisions
 - 2. Complete all specification revisions
 - 3. Complete 100% comment resolution matrix, having resolved all comments.
 - 4. Submit 100% plans and specifications.

- D. Submit Bid Package, including documentation of plan approval, utility clearance, right-of-way clearance, environmental clearance, and authorization to bid from CDOT.

- E. RFC Packages
 - 1. Two (2) RFC packages are anticipated and proposed as advanced packages prior to 100% plans for all elements. Potential packages include (1) main span prefabricated bridge and abutments over UPRR; (2) Retaining walls.

- 7. Bid and Construction Support Services. Construction management and inspection services will be completed by the City. The services below are provide in support of the City during bidding and during construction.
 - A. Support during the bidding process
 - 1. Respond to questions from Contractors during the advertisement phase.
 - 2. Prepare Revisions Under Advertisement as necessary.

 - B. Shop Drawings – the following shop drawings are anticipated
 - 1. Structures
 - a. Prefabricated bridge
 - b. Caisson reinforcement
 - c. Approach ramp wall details
 - d. Column reinforcing
 - e. Main span pier
 - f. Approach ramps, railing, and deck
 - g. Railing
 - h. Stairway
 - i. Materials
 - 2. Urban Design Elements
 - 3. Lighting / Electrical
 - a. Luminaires
 - b. Service pedestal/distribution equipment
 - c. Conduit / conductor

 - C. Site Visits as necessary
 - D. Responses to Contractor RFI's
 - E. Materials Testing
 - 1. Provide materials testing and documentation based on CDOT Form 250, including Certificates of Compliance, Certified Test Reports, and #157 samples.

Additional Services

Additional Services not included in the Base Scope of Work, if needed, will be identified by the City and County of Denver and Wilson & Company during the design development. Additional Services will be authorized in writing per section 2.08 of the Design Services Agreement prior to services being provided.

Final Design & Construction Support for the 47th Ave./York Street Bicycle/Pedestrian Bridge
Wilson & Company Manhour and Fee Estimate

15-May-18

Base Fee Estimate Summary by Task

Task 1. Project Management and Coordination	\$	141,884
Task 2. Stakeholder Engagement	\$	23,568
Task 3. NEPA Evaluation	\$	58,477
Task 4 Final Design	\$	464,515
Task 5. Engineer's Opinion of Probable Cost	\$	11,340
Task 6. Engineering, Regulatory, Analytics (ERA) Preparation, Process, and Submittal	\$	66,420
Task 7. Bid & Construction Support Services	\$	120,425
Expenses	\$	13,371
Sub Total for Base Scope of Services	\$	900,000
Additional Services to be Authorized in Writing	\$	20,000
Total Contract Amendment	\$	920,000

Labor Fee Estimate Summary by Consultant

	Fee	Percentage	DBE %
Wilson & Company	\$ 603,010	68.01%	
CIG *	\$ 10,528	1.19%	1.19%
Dig Studio *	\$ 60,304	6.80%	6.80%
Goodbee & Associates *	\$ 42,015	4.74%	4.74%
Group 14 *	\$ -	0.00%	0.00%
Leese & Associates	\$ 22,050	2.49%	
LS Gallegos *	\$ -	0.00%	0.00%
Pinyon *	\$ 37,127	4.19%	4.19%
PK Electric *	\$ 46,720	5.27%	5.27%
Rocksol *	\$ 64,875	7.32%	7.32%
Total	\$ 886,629	100.00%	29.50%

* DBE Firm

Project Number: PWT2017-002 Description: 47th & York Pedestrian Bridge - Final Design & Construction Support City Project Manager: Mike Harmer, PE Wilson Project Manager: Scott Waterman, PE	WILSON & COMPANY																			Sub Consultants															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Totals															
	Principal	Senior PM	NEPA TM	Senior Env. Planner	Civil Design TM	Civil Designer	Structures TM	Structures Eng.	Rail Coordination TM	Drainage TM	Drainage Eng.	Traffic Eng.	Survey PM	Party Chief/Surveyor	Instrumentman	Senior Cadd Tech.	Cadd Tech.	Admin./Clerical	Graphic Designer	Total Wilson Hours	Wilson Total Task Cost	CG	Dig Studio	Goodbee	Group 14	Leese	LS Gallegos	Pyron	PK Electric	Rockwell	Total Hours - Wilson & Subs	Task Cost - Wilson & Subs			
Estimated workhours shown. Assumes June 2018 thru February 2019 (design phase) & 2 Month Ad/Bid Phase	\$ 255	\$ 240	\$ 175	\$ 195	\$ 130	\$ 115	\$ 200	\$ 130	\$ 220	\$ 235	\$ 130	\$ 140	\$ 175	\$ 85	\$ 60	\$ 110	\$ 100	\$ 95	\$ 125																
TASK DESCRIPTION																																			
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c. QC Plans & IDR																																			
2. 95% Structural Plans																																			
a. Final Design of Substructure & Superstructure																																			
b. 95% Plans (complete set)																																			
c. Specifications																																			
d. Independent Check																																			
e. QC Plans, Specs & IDR																																			
3. 100% Structural Plans																																			
a. Field Pack																																			
b. 100% Plan Set																																			
c. 100% Specifications																																			
d. QC																																			
B. Field Surveys																																			
1. Land Survey																																			
a. Survey utility potholes																																			
2. Geotechnical Investigations (previously completed)																																			
C. Right of Way (Assumes full CDOT ROW plans are required)																																			
1. Identify affected ownerships from 30% design																																			
2. Obtain Assessment Map																																			
3. Field Inspection of Properties																																			
4. Prepare Right of Way Ownership Map																																			
5. Prepare Right of Way Plans																																			
6. Legal Descriptions & Exhibits																																			
D. Civil Engineering / Site Design																																			
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b. Finalized 3-D Terrain Model																																			
c. 60% Design Plans																																			
d. 60% Quantities																																			
e. 60% Specs																																			
f. 95% Plans																																			
g. 95% Quantities																																			
h. 95% Specs																																			
i. 100% Plans & Specs																																			
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b. Develop Design drawings for 60% documents (5 Weeks)																																			
c. Finalize design drawings for 100% documents (8 Weeks)																																			
d. 3-D Printed Model																																			
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F. Utility Design and Coordination																																			
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2. Group Utility Coordination Meetings																																			
3. Individual Utility Coordination Meetings																																			
4. Progress Plans to 60%																																			
5. Develop 60% Utility Specification																																			
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8. 95% Utility Plans and Specifications																																			
9. Utility Agreements																																			
10. 100% Utility Plans and Specs																																			
11. Final Utility Agreements and Clearance Letter																																			
12. Denver Water Only Plans (4-inch relocation in Claude Court)																										</									



May 4, 2018

Scott Waterman
Wilson & Co.
1675 Broadway
Suite #200
Denver, CO 80202

Dear Scott,

CIG will provide ongoing stakeholder and community engagement for the project to include:

- 2 additional information pieces to provide ongoing communications
- Conduct 1 project open house
- Provide graphic and text input for the NDCC project website
- Translation services for the informational pieces and the open house

The estimated fee is \$10,903 in accordance with the rates in the contract.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Joy L. Wasendorf', with a long, sweeping horizontal line extending to the right.

Joy L. Wasendorf
Counselor

Scott Waterman, PE
Associate Vice-President
Wilson & Company, Inc., Engineers & Architects
1675 Broadway, Suite 200
Denver, CO 80202

April 26, 2018

47th and York Scope of Services for 60% through Construction

Dear Scott,

We are pleased to be working on your team to provide Landscape Architecture and Urban Design services for the implementation of 47th and York Pedestrian and Bicycle Bridge. Throughout the conceptual development of the project we have worked with Wilson & Company and the City and County of Denver to help coordinate community input, site opportunities and limitations, and design elements. Please see below for an outline of our Scope of Services to take this project through Construction Documentation and the anticipated scope broken out by Task.

<u>Task Description</u>	<u>Budget Request</u>
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<u>Task 1: Project Management</u>	\$12,784
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- Project Planning and Monitoring
 - Development of a Project Management Plan for Dig's Scope
 - Input on Team Project Schedule
 - Input on QAQC plan by Wilson
- General Project Management
 - Weekly project maintenance and coordination
 - Monthly invoicing and status reports
- Meetings
 - Attend One (1) project kick-off meeting
 - Attend Bi-monthly design meetings – Twelve (12) in total

<u>Task 4: Project Design</u>	\$47,630
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- 60% Landscape Design and Aesthetics (excludes design, other than gravel) within central area of south ramp structure)
 - Document Plans and Details for construction of:
 - York St. Streetscape;
 - South Ramp Entry Plaza;
 - North Ramp central area;
 - Supporting information for the North Ramp Water Quality concept (green alley);

- Irrigation Mainline Layout
- Draft Specifications for Plan Documents
- QA/QC of deliverable documents
- 100% Landscape Design and Aesthetics (excludes design within central area of south ramp structure)
 - Document Plans and Details for construction of:
 - York St. Streetscape;
 - South Ramp Entry Plaza;
 - North Ramp central area;
 - Supporting information for the North Ramp Water Quality concept (green alley);
 - Irrigation Design and Specifications
 - Finalized Specifications for Plan Documents
 - QA/QC of deliverable documents
- Construction Observation
 - Respond to Bidders' questions and clarifications
 - Attend One (1) Pre-Construction Meeting
 - Answer RFI's and Submittals
 - Site Observation Visits: Six (6)
 - Field Reports for Site Visits

Task 4: OPTIONAL Project Design - South Ramp Structure Central Area**\$32,700**

- Note: Design Fee only applicable as part of Scope outlined above.
 - 60% Design Documentation
 - Document Plans and Details for construction
 - Draft Specifications for Plan Documents
 - QA/QC of deliverable documents
 - 100% Construction Documents
 - Document Plans and Details for construction
 - Irrigation Design and Specifications
 - Finalized Specifications for Plan Documents
 - QA/QC of deliverable documents
 - Construction Observation
 - Respond to Bidders questions and Clarifications
 - Answer RFI's and Submittals
 - Site Observations Visits: Four (4)
 - Field Reports for Site Visits

Total Fees Request**\$93,114**

We hope that this proposal meets with your approval. If there are areas you would like to discuss or that need further clarification, please let us know.

Thank you,

Gretchen Wilson

AGREEMENT AND ACCEPTANCE:

Signed, this ___ Day of _____, 20__

Dig Studio, Inc.

**Scott Waterman,
Associate Vice-President, Wilson & Company**

Signed  _____ Signed _____

Print Gretchen Wilson, ASLA, PLA _____ Print _____

Title Principal Partner _____ Title _____

Goodbee and Associates, Inc.
CCD 47th and York Pedestrian Bridge
Scope of Work and Fee Estimate - Final Design
5/4/2018

Task	Description of Activities /Assumptions	Role	Principal	PM III	PM II	PM I	Designer	Administrator	CAD I	Admin Assistant	Total Hrs.	Total Cost
		2017 CCD Attachment 2	\$185/hr	\$150/hr	\$135/hr	\$120/hr	\$110/hr	\$105/hr	\$80/hr	\$75/hr		
Project Mgmt.	Project Meetings (assume 4 progress meetings)				8						8	\$1,080
	Monthly progress reports and invoicing. Assume 12 months.				6			12			18	\$2,070
Task X - Final Design - F	1. Finalize utility relocations based on 30% plans from ERA review comments and potholing				4		4				8	\$980
	2. Group utility coordination meeting - one meeting with all affected utility owners. Goodbee sets meeting, develops agenda, facilitation, meeting minutes. Assume up to 11 utility companies invited.				14						14	\$1,890
	3. Individual Coordination Meeting - one-on-one meetings/phone calls with up to 11 utility companies.				33		8				41	\$5,335
	4. 60% utility plans - attend review meeting, distribute plans to utility companies			4	10		20				34	\$4,150
	5. 60% Utility Specification			1	8						9	\$1,230
	6. Group utility coordination meeting - one meeting with all affected utility owners. Goodbee sets meeting, develops agenda, facilitation, meeting minutes. Assume up to 11 utility companies invited.				14						14	\$1,890
	7. Individual Coordination Meeting - one-on-one meetings/phone calls with up to 11 utility companies.				33		8				41	\$5,335
	8. 90% Utility Plans and specifications - attend review meeting, distribute plans to utility companies			4	16		16				36	\$4,520
	9. Utility Agreements - draft utility agreement letters for CCD review. Develop Xcel work request (if needed).			2	26						28	\$3,810
	10. 100% Utility Plans and specifications			1	4		4				9	\$1,130
	11. Final Utility Agreements - finalize utility agreement letters for CCD signature and distribution.			1	11						12	\$1,635
	12. Denver Water only plans (if needed) -Assume Denver Water only plan submittal for 4" waterline relocation including pre-submittal (60%), formal submittal (90%), revision (if needed), and final submittal (100%). Includes two meetings with Denver Water.				16		24				40	\$4,800
Task X - PDS	Bidding Support - Coordinate with utility companies with relocations on status of utility owner ERA utility plan review process and relocation timing. Attend pre-bid meeting and provide update on utility status and contractor obligations.				8						8	\$1,080
	Construction Support - respond to RFIs as requested.				8						8	\$1,080
TOTAL LABOR			0	13	219	0	84	12	0	0	328	\$42,015

Item	# of Units	Units	Unit Price	Subtotal
Private locator - completed in preliminary		days		\$0
Utility test holes (potholing) contractor - approximately 5 -7 supplemental test holes, with traffic control and restoration	1	LS		\$4,000
TOTAL ODCs				\$4,000

TOTAL ESTIMATE = \$46,015

- Assumptions and Exclusions:**
1. New pedestrian bridge over UPRR tracks connecting 47th and York. Utility design and coordination for 60%, 90%, and 100% plan submittal and limited PDS support.
 2. Assume a 12 month period of performance (May 2018 - May 2019).
 3. CAD work in AutoCAD. Utility plans assume 4 sheets including general notes (1), pothole log (2), and utility plans (2) at 1" = 50'.

Leese & Associates

47th & York Final Design and Construction Support

Task	Staff Category One Principal Hours	Staff Category Two CAD Tech Hours
Task 1. Project Management		
B. General Project Management		
2. Invoicing and Status Reports		8
C. Project Meetings		
1. Project Kickoff Meeting		2
2. Weekly Design Meetings		22
Task X. Final Design		
D. Civil Engineering / Site Design		
2. Urban Design and Aesthetics		
a. Finalize templates for railing and form liner	18	24
b. Refine lighting layout and schedule per photometric analysis	16	10
c. Color specifications for railing, concrete fascia, etc.	24	
d. Assist refinement of bridge and abutment details	20	
e. Interdiscipline Review	8	16
f. Shop Drawings Review	16	16
g. Requests for Information	16	
Total Hours /Project Cost	150	66
Labor Rate/hr	\$125.00	\$50.00
Labor Cost	\$18,750.00	\$3,300.00
Expenses	\$0.00	\$0.00
Mileage	\$0.00	\$0.00
Potholing	\$0.00	\$0.00
Subtotals	\$18,750.00	\$3,300.00
	Total Fee	\$22,050.00



Corporate Headquarters
9100 West Jewell Avenue Lakewood, CO 80232
TEL 303 980 5200 FAX 303 980 0089
www.pinyon-env.com

February 19, 2018

Jon Chesser
Colorado Environmental Operations Manager
Wilson & Company, Inc.
1675 Broadway, Suite 200
Denver, CO 80202

Via eMail: jon.chesser@wilsonco.com

Subject: Environmental Support Services, Historic Resource Task, Preliminary Design for the 47th Avenue and York Street Bicycle/Pedestrian Bridge Project, City and County of Denver, Colorado

Dear Mr. Chesser:

Pinyon Environmental, Inc. (Pinyon), respectfully submits this Change Order to complete additional Environmental Support Services related to the Historic Resource Task for the Preliminary Design for the 47th Avenue and York Street Bicycle/Pedestrian Bridge Project, City and County of Denver, Colorado. The scope of services for this Change Order is outlined in Attachment A.

The current approved project fee is \$49,736. Pinyon estimates the cost to complete the additional support, in accordance with the outlined services, will be an additional \$37,264 (Table I), resulting in a total project budget of \$87,000. Pinyon will invoice in accordance with our existing contract rates and terms. The authorized amount will not be exceeded without prior approval.

To authorize the outlined scope of services, please issue a new task order in accordance with our current project contract. Should you have any questions or require additional information, please do not hesitate to call. Thank you for considering Pinyon for your environmental consulting needs.

Sincerely,

PINYON ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "Robyn Kullas", written over a light blue horizontal line.

Robyn Kullas
Technical Group Manager NEPA and Planning

Cc: File

File Location: Z:\PROJECTS\2017\11737805 47th Ave & York St Bicycle-Ped Bridge\PM\ChangeOrder_I1.3.17

ATTACHMENT A

Detailed Scope of Services

The following scope outlines the historic resources work previously approved under the Sub-agreement for this project dated August 25, 2017 as well as the revised scope required to meet compliance under Section 106 of the National Historic Preservation Act based on coordination with Colorado Department of Transportation (CDOT) Historic Resource Staff.

Task: Historic Resources (approved in Project Contract dated August 25, 2017):

- The initial scope accommodated completion of:
 - Area of Potential Effects (APE) Map
 - Office of Archaeology and Historic Preservation (OAHP) COMPASS Database search
 - Review of County Assessor Data
 - Site Visit
 - (2) I403 Architectural Inventory Forms
 - (1) I405 Architectural Inventory Forms
 - Eligibility and Effects Letter

Initial Historic Resource Task Fee (previously approved): \$9,781.00

The revised scope based on CDOT direction:

Task A: Historic Resources - Meetings and Coordination:

Pinyon assumes the following coordination and public involvement meetings. Meetings are assumed to be attended by two Pinyon staff including the Project Manager and the Pinyon Staff Historian, unless otherwise noted.

- Kick-off meeting conducted on October 25, 2017 with Wilson, CDOT, City and County of Denver (CCOD), and Pinyon to review the project scope, affected environment, methodology, and anticipated deliverables.
- Attendance at FIR meeting (hours for historian attendance only, hours for PM already reflected in original scope).
- Two (2-hour) in-person meetings with Wilson, CDOT Historian, CCOD, and Pinyon at critical project milestones including discussions of potential adverse effects and creative solutions such as the incorporation of public art or historically sensitive design choices for the bridge.
- One (2-hour) in-person meeting with CDOT Historian, Pinyon Historian, SHPO, and Section 106 Consulting Parties.
- Four (1-hour) progress meetings with Wilson and Pinyon conducted via conference call and general coordination.

This task includes:

- Meetings, meeting preparation, and meeting minutes or follow-up emails as needed. Assumes no attendance at public meetings.

Task B: Historic Resources - Area of Potential Effect, Identification and Evaluation of Resources

- Pinyon will create an Area of Potential Effect (APE) in consultation with CDOT that accommodates both direct and indirect effects derived from potential visual impacts of the project.

- Pinyon will conduct a literature review of the project area. This includes a file search of the Office of Archaeology and Historic Preservation (OAHP) to determine previously recorded resources. Pinyon will also order GIS files for the APE, and will request previous documentation forms from sites and surveys as needed. The literature review will include the Denver County Assessor files, historic topographic maps, Denver City Directory records, Sanborn Fire Insurance Maps, and aerial imagery to determine potentially historic, un-recorded resources. Additionally, Pinyon will research and field reconnaissance surveys conducted by Historic Denver to streamline research. Evaluation will include archival resources that may be available through the City and County of Denver Local Archives, Denver Public Library Western History Collection, and other repositories as identified.
- Pinyon will conduct up to two site visits by a team of two historians to physically evaluate resources in the field.
- Pinyon will complete OAHP Form 1403 for up to 2 historic districts identified within the study area: Elyria (1881) and Mouat’s Addition (1892).. The level of effort for these district evaluations will be guided by the 2015 evaluation of the Garden Place Historic District (5DV1690), and conclusions will be informed by evaluations of North Denver neighborhoods completed by Historic Denver, Inc. through the *Discover Denver* initiative. Pinyon will complete OAHP Re-visitation Form 1405 for the segment of the Union Pacific Railroad within the study area. This task includes:
 - Area of Potential Effect Map development
 - OAHP Form 1403 completion for up to 2 historic districts, using the form completed for 5DV1690 as a guide for level of effort
 - OAHP Form 1403 completion for up to 11 resources, including up to 4 “1403-lite” forms, for the properties identified below:

Denver County Parcel No	Address	OAHP Form
224211001000	4750 York Street	Full 1403
223101044000	4751 York Street	1403-Lite
224211015000	4700 York Street	1403-Lite
223101010000	4720 Claude Court	Full 1403
223101011000	4714 Claude Court	Full 1403
223101012000	4708 Claude Court	1403-Lite
223101014000	4706 Claude Court	1403-Lite
223101015000	4700 Claude Court	Full 1403
223102019000	4717 Claude Court	Full 1403
223102018000	4709 Claude Court	Full 1403
223102037000	4705 Claude Court	Full 1403

- OAHP Form 1405 completion for segment of Union Pacific Railroad
- Two site visits for survey work completed by two people
- One site visit to support the drone survey
- Technical review and QC

Task C: Historic Resources - Eligibility and Effects Reporting

Pinyon will complete an Eligibility Report, including a project description, regulatory framework, project methodology, APE, and general historic context in the project area. The Eligibility Report will include a summary of the National Register eligibility of each resource in the APE.

Because the Section 106 consultation will be separate for the effects determinations, Pinyon will also complete a separate Effects Report which will include a description of the affected historic environment in the project area. The Effects Report will include an assessment of project effects under the National Historic Preservation Act Section 106. Effects analysis will include the potential for viewshed impacts on historic resources.

Pinyon will complete up to two Section 106 and Section 4(f) agency correspondence letters for CDOT use in consultation with the State Historic Preservation Office (SHPO): (1) Eligibility/Area of Potential Effects/Methodology Cover Letter, and (2) Effects Cover Letter. Pinyon will also complete up to three agency letters to respond to SHPO request(s) for additional information, if needed. Assumes Wilson will provide visual simulations for use in evaluating effects and inclusion in Effects Report.

This task includes:

- Agency Correspondence (Eligibility/APE letter, Effects letter)
- Up to 2 responses to SHPO regarding correspondence letters
- Eligibility Report
- Effects Report
- Technical Review and QC

Revised Historic Task Fee (Total): \$67,045

Assumptions

- It is assumed that OAHP I405 Re-visitation forms will not be required, with the exception of the re-evaluation of the UPRR Segment.
- It is assumed in this scope that the project will result in a finding of Section 106 no adverse effect and no uses will be identified under Section 4(f). Should the project result in a determination of adverse effect under Section 106, Additional scope and fee will be required.
- It is assumed that any properties within the study area currently undergoing Level II Documentation as Section 106 mitigation for the Central 70 Project will not require re-visitation, with the exception of the Union Pacific Railroad segment. This includes 4068 Josephine (5DV.9746), 2841 East 26th Avenue (5DV.9655), 4637 Claude Court (5DV.9667), 4639 Claude Court (5DV.9668), and the Stop n' Shop at 4600 York (5DV.9801).
- It is assumed that historic research resources, including Sanborn maps, historic aerials, and Denver business directories, will be acquired through GeoSearch in cooperation with the Hazardous Materials clearance process. It is assumed that costs associated with the GeoSearch are reflected in the Hazardous Materials budget.
- It is assumed that CDOT will acquire the research and survey materials completed by Historic Denver, Inc. regarding the study area and surrounding neighborhoods. These materials will be provided by CDOT prior to initiation of fieldwork to streamline the clearance effort and are critical to the methodologies assumed within this scope.
- Pinyon assumes that each deliverable will involve ongoing coordination with CDOT and CCOD and will include draft and final review/comment/revisions by Wilson, CCOD, and CDOT.

Table I Summary of Estimated Costs

Task A Historic Resource - Meetings and Coordination				
Description	Quantity	Unit	Rate	Extension
Labor Rates				
Project Manager	25.0	hours	\$225.00	\$5,625.00
Project Specialist	40.0	hours	\$139.00	\$5,560.00
Task Subtotal				\$11,185.00
Task B: Historic Resource - Area of Potential Effect, Identification and Evaluation of Resources				
Description	Quantity	Unit	Rate	Extension
Labor Rates				
Project Manager	15.0	hours	\$225.00	\$3,375.00
Project Specialist	45.0	hours	\$139.00	\$6,255.00
Project Engineer/Scientist	190.0	hours	\$115.00	\$21,850.00
Project Engineer/Scientist (GIS)	35.0	hours	\$115.00	\$4,025.00
Equipment/Material Unit Rates				
COMPASS database	1.0	each	\$300.00	\$300.00
Task Subtotal				\$35,805.00
Task C: Historic Resource - Eligibility and Effects Reporting				
Description	Quantity	Unit	Rate	Extension
Labor Rates				
Project Manager	20.0	hours	\$225.00	\$4,500.00
Project Specialist	10.0	hours	\$139.00	\$1,390.00
Project Engineer/Scientist	60.0	hours	\$115.00	\$6,900.00
Project Engineer/Scientist (GIS)	20.0	hours	\$115.00	\$2,300.00
Task Subtotal				\$15,090.00
Task D: Balloon Test and Drone Support				
Description	Quantity	Unit	Rate	Extension
Labor Rates				
Project Manager	5.0	hours	\$225.00	\$1,125.00
Project Specialist	10.0	hours	\$139.00	\$1,390.00
Project Engineer/Scientist	10.0	hours	\$115.00	\$1,150.00
Project Engineer/Scientist (GIS)	10.0	hours	\$115.00	\$1,150.00
Equipment/Material Unit Rates				
Materials	1.0	each	\$150.00	\$150.00
Task Subtotal				\$4,965.00
Initial Historic Task Fee Previously Approved				-\$9,781.00
Additional Historic Fee Authorized				-\$20,000.00
Historic Task Total				\$37,264.00



PK Electrical, Inc.

Contract Proposal DCP18169

Proposal For

Scott Waterman, PE
Wilson & Company
1675 Broadway, Ste. 200
Denver, CO 80202
P: (303) 297-2976 F: (303) 297-2693

From

Alan Wiskus, LEED AP BD+C
Principal

Apr 25, 2018

Project

47th & York Pedestrian Bridge - Final Design & Construction Support

Project Description

The project is a new pedestrian bridge at 47th & York over the UPRR railroad tracks. The ped bridge is approximately 100' long and includes handicap contouring ramps and stair cases on each end. The lighting design will follow conceptual layout sketches SK1, SK2 and SK3 (attached). The project requires two new XCEL service points.

Scope of Services

The electrical design will include lighting layout, photometric calculations (to meet CCD requirements), lighting technical specs, electric service designs, lighting control system layout and circuiting design, design details, power load and AIC calculations, engineer's cost estimate. Coordination with XCEL for new service locations. XCEL Builders Call Line Application (BCL) by others.

Design Meetings included: (1) Project Kick-Off, (1) 60% and (1) 90% Design Review Meeting.

Deliverables: 60% review, 90% review and 100% bid docs and technical specifications.

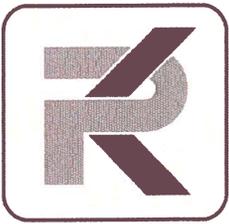
Permit Phase services include; responding to plan review comments.

Bid Phase services include; responding to bidder questions.

Construction Administration services include: consultation, submittal and shop drawings review, responding to RFIs. Site visits during construction include (1) at electrical rough-in and (1) for final punch walk.

Exclusions:

- * Digital renderings, permit, plan check, and utility fees.
- * Completing Building Department and Utility applications and submitting plans to these agencies.
- * Field surveying and locating services.
- * Low Voltage (Security, CCTV, Video) systems design.
- * Value Engineering - Redesign post 100%
- * OAC Construction Meetings.
- * Record Drawings.



PK Electrical, Inc.

Fee and Structure		Amount
Entire Project	Hourly	46,720.00
Reimbursable Expenses	Cost Plus	300.00
Total Amount \$		47,020.00

Terms and Conditions

See attached terms and conditions.

Authorization and Acceptance (Acknowledgment of Concurrence with the foregoing)

Alan Wiskus, LEED AP BD+C
Principal

Scott Waterman, PE
Associate Vice President

Date

May 16, 2018

Mr. Scott Waterman, PE
Wilson & Company, Inc.
7100 Broadway
Denver, CO 80221

Dear Scott,

I would like to respectfully ask you to add the following classifications to the CCD 47th Avenue and York Street project.

Title/Classification	Rate/Hr.
Administrative Assistant I	\$64.50
Administrative Assistant II	\$80.01
Laboratory Manager	\$123.16
Construction Services Project Manager	\$153.67
Materials Testing Technician	\$60.94

I appreciate the opportunity to work with you on this project. If I can be of any other assistance or you need additional information, please call me at (303) 962-9308.

Respectfully submitted,

lavassani

Abe Lavassani, P.E.
Senior Transportation Manager

RockSol Consulting Group, Inc.

RockSol Consulting Group, Inc.
Fee Estimate for Materials Testing Services
City and County of Denver - 47th and York

<i>Classification</i>	<i>Hours</i>	<i>Rate/Hour</i>	<i>Total Estimated Fee</i>
Administrative Assistant I	8	\$64.50	\$516.00
Administrative Assistant II	4	\$80.01	\$320.04
Laboratory Manager/Lead Tester	20	\$123.16	\$2,463.20
Construction Services Project Manager	20	\$153.67	\$3,073.40
Materials Testing Technician	960	\$60.94	\$58,502.40
Total Labor			\$64,875.04
Other Direct Costs			
Mileage			\$0.00
Miscellaneous			\$0.00
Total Other Direct Cost			\$0.00
Total			\$64,875.04