

## PURCHASE OF SERVICE AGREEMENT

THIS AGREEMENT ("Agreement") is made this 20<sup>th</sup> day of August 2013, by and between the Adams County Board of County Commissioners, located at 4430 South Adams County Parkway, Brighton, Colorado 80601, hereinafter referred to as the "County," and URS, located at 8181 E. Tufts Ave, Denver, CO 80237, hereinafter referred to as the "Contractor." The County and the Contractor may be collectively referred to herein as the "Parties".

The County and the Contractor, for the consideration herein set forth, agree as follows:

### **1. SERVICES OF THE CONTRACTOR:**

- 1.1. All work shall be in accordance with the attached RFP 2013.152 and the Contractor's response to the RFP 2013.152 attached hereto as Exhibit A, and incorporated herein by reference. Should there be any discrepancy between Exhibit A and this Agreement the terms and conditions of this Agreement shall prevail.
- 1.2. Emergency Services: In the event the Adams County Board of County Commissioners declares an emergency, the County may request additional services (of the type described in this Agreement or otherwise within the expertise of Contractor) to be performed by Contractor. If County requests such additional services, Contractor shall provide such services in a timely fashion given the nature of the emergency, pursuant to the terms of this Agreement. Unless otherwise agreed to in writing by the parties, Contractor shall bill for such services at the rates provided for in this Agreement.

**2. RESPONSIBILITIES OF THE COUNTY:** The County shall provide information as necessary or requested by the Contractor to enable the Contractor's performance under this Agreement.

### **3. TERM:**

- 3.1. Term of Agreement: The Term of this Agreement shall be for one-year from the date of this Agreement.

**4. PAYMENT AND FEE SCHEDULE:** The County shall pay the Contractor for services furnished under this Agreement, and the Contractor shall accept as full payment for those services, the sum of: fifty six thousand sixty dollars (\$56,060.00). Payment shall be made to the contractor within thirty (30) days of the receipt of a correct invoice.

- 4.1. Payment pursuant to this Agreement, whether in full or in part, is subject to and contingent upon the continuing availability of County funds for the purposes hereof. In the event that funds become unavailable, as determined by the County, the County may immediately terminate this Agreement or amend it accordingly.

**5. INDEPENDENT CONTRACTOR:** In providing services under this Agreement, the Contractor acts as an independent contractor and not as an employee of the County. The Contractor shall be solely and entirely responsible for his/her acts and the acts of his/her employees, agents, servants, and subcontractors during the term and performance of this Agreement. No employee, agent, servant, or subcontractor of the Contractor shall be deemed

to be an employee, agent, or servant of the County because of the performance of any services or work under this Agreement. The Contractor, at its expense, shall procure and maintain workers' compensation insurance as required by law. **Pursuant to the Workers' Compensation Act § 8-40-202(2)(b)(IV), C.R.S., as amended, the Contractor understands that it and its employees and servants are not entitled to workers' compensation benefits from the County. The Contractor further understands that it is solely obligated for the payment of federal and state income tax on any moneys earned pursuant to this Agreement.**

**6. NONDISCRIMINATION:**

**6.1. The Contractor shall not discriminate against any employee or qualified applicant for employment because of age, race, color, religion, marital status, disability, sex, or national origin. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices provided by the local public agency setting forth the provisions of this nondiscrimination clause. Adams County is an equal opportunity employer.**

6.1.1. The Contractor will cause the foregoing provisions to be inserted in all subcontracts for any work covered by this Agreement so that such provisions will be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

**7. INDEMNIFICATION:** The Contractor agrees to indemnify and hold harmless the County, its officers, agents, and employees for, from, and against any and all claims, suits, expenses, damages, or other liabilities, including reasonable attorney fees and court costs, to the extent arising out of damage or injury to persons, entities, or property, caused or sustained by any person(s) as a result of the Contractor's negligent performance or failure to perform pursuant to the terms of this Agreement or as a result of any subcontractors' performance or failure to perform pursuant to the terms of this Agreement.

**8. INSURANCE:** The Contractor agrees to maintain insurance of the following types and amounts:

8.1. Commercial General Liability Insurance: to include products liability, completed operations, contractual, broad form property damage and personal injury.

8.1.1. Each Occurrence: \$1,000,000

8.1.2. General Aggregate: \$2,000,000

8.2. Comprehensive Automobile Liability Insurance: to include all motor vehicles owned, hired, leased, or borrowed.

8.2.1. Bodily Injury/Property Damage: \$1,000,000 (each accident)

8.2.2. Personal Injury Protection: Per Colorado Statutes

8.3. Workers' Compensation Insurance: Per Colorado Statutes

8.4. Professional Liability Insurance: to include coverage for damages or claims for damages arising out of the rendering, or failure to render, any professional services, as applicable.

8.4.1. Each Claim: \$1,000,000

8.4.2. This insurance requirement applies only to Contractors who are performing services under this Agreement as professionals licensed under the laws of the State of Colorado, such as physicians, lawyers, engineers, nurses, mental health providers, and any other licensed professionals.

8.5. Adams County as "Additional Insured": The Contractor's commercial general liability, comprehensive automobile liability, and/or certificates of insurance shall be issued to include Adams County as an "additional insured" and shall include the following provisions:

8.5.1. Underwriters shall have no right of recovery or subrogation against the County, it being the intent of the parties that the insurance policies so affected shall protect both parties and be primary coverage for any and all losses resulting from the actions or negligence of the Contractor.

8.5.2. The insurance companies issuing the policy or policies shall have no recourse against the County for payment of any premiums due or for any assessments under any form of any policy.

8.5.3. Any and all deductibles contained in any insurance policy shall be assumed by and at the sole risk of the Contractor.

8.6. Licensed Insurers: All insurers of the Contractor must be licensed or approved to do business in the State of Colorado. Upon failure of the Contractor to furnish, deliver and/or maintain such insurance as provided herein, this Agreement, at the election of the County, may be immediately declared suspended, discontinued, or terminated. Failure of the Contractor in obtaining and/or maintaining any required insurance shall not relieve the Contractor from any liability under this Agreement, nor shall the insurance requirements be construed to conflict with the obligations of the Contractor concerning indemnification.

8.7. Endorsement: Each insurance policy herein required shall be endorsed to state that coverage shall not be suspended, voided, or canceled without thirty (30) days prior written notice by certified mail, return receipt requested, to the County.

8.8. Proof of Insurance: At any time during the term of this Agreement, the County may require the Contractor to provide proof of the insurance coverage or policies required under this Agreement.

## 9. TERMINATION:

9.1. For Cause: If, through any cause, the Contractor fails to fulfill its obligations under this Agreement in a timely and proper manner, or if the Contractor violates any of the covenants, conditions, or stipulations of this Agreement, the County shall thereupon have the right to immediately terminate this Agreement, upon giving written notice to the Contractor of such termination and specifying the effective date thereof.

9.2. For Convenience: The County may terminate this Agreement at any time by giving written notice as specified herein to the other party, which notice shall be given at least thirty (30) days prior to the effective date of the termination. If this Agreement is terminated by the County, the Contractor will be paid an amount that bears the same ratio to the total compensation as the services actually performed bear to the total services the Contractor was to perform under this Agreement, less payments previously

made to the Contractor under this Agreement.

## **10. MUTUAL UNDERSTANDINGS:**

- 10.1. Jurisdiction and Venue: The laws of the State of Colorado shall govern as to the interpretation, validity, and effect of this Agreement. The parties agree that jurisdiction and venue for any disputes arising under this Agreement shall be with Adams County, Colorado.
- 10.2. Compliance with Laws: During the performance of this Agreement, the Contractor agrees to strictly adhere to all applicable federal, state, and local laws, rules and regulations, including all licensing and permit requirements. The parties hereto aver that they are familiar with § 18-8-301, et seq., C.R.S. (Bribery and Corrupt Influences), as amended, and § 18-8-401, et seq., C.R.S. (Abuse of Public Office), as amended, and that no violation of such provisions are present. Contractor warrants that it is in compliance with the residency requirements in §§ 8-17.5-101, et seq., C.R.S. Without limiting the generality of the foregoing, the Contractor expressly agrees to comply with the privacy and security requirements of the Health Insurance Portability and Accountability Act of 1996 (HIPAA).
- 10.3. OSHA: Contractor shall comply with the requirements of the Occupational Safety and Health Act (OSHA) and shall review and comply with the County's safety regulations while on any County property. Failure to comply with any applicable federal, state or local law, rule, or regulation shall give the County the right to terminate this agreement for cause.
- 10.4. Record Retention: The Contractor shall maintain records and documentation of the services provided under this Agreement, including fiscal records, and shall retain the records for a period of three (3) years from the date this Agreement is terminated. Said records and documents shall be subject at all reasonable times to inspection, review, or audit by authorized Federal, State, or County personnel.
- 10.5. Assign Ability: Neither this Agreement, nor any rights hereunder, in whole or in part, shall be assignable or otherwise transferable by the Contractor without the prior written consent of the County.
- 10.6. Waiver: Waiver of strict performance or the breach of any provision of this Agreement shall not be deemed a waiver, nor shall it prejudice the waiving party's right to require strict performance of the same provision, or any other provision in the future, unless such waiver has rendered future performance commercially impossible.
- 10.7. Force Majeure: Neither party shall be liable for any delay or failure to perform its obligations hereunder to the extent that such delay or failure is caused by a force or event beyond the control of such party including, without limitation, war, embargoes, strikes, governmental restrictions, riots, fires, floods, earthquakes, or other acts of God.
- 10.8. Notice: Any notices given under this Agreement are deemed to have been received and to be effective: (1) Three (3) days after the same shall have been mailed by certified mail, return receipt requested; (2) Immediately upon hand delivery; or (3) Immediately upon receipt of confirmation that an E-mail was received. For the purposes of this

Agreement, any and all notices shall be addressed to the contacts listed below:

Department: Adams County Engineering  
Contact: Jennifer Shi  
Address: 4430 South Adams County Parkway  
City, State, Zip: Brighton, CO 80601  
Phone: 720-523-6968  
E-mail: [jshi@adcogov.org](mailto:jshi@adcogov.org)

Department: Adams County Purchasing  
Contact: Jennifer Tierney  
Address: 4430 South Adams County Parkway  
City, State, Zip: Brighton, Colorado 80601  
Phone: 720-523-6049  
E-mail: [jtierney@adcogov.org](mailto:jtierney@adcogov.org)

Department: Adams County Attorney's Office  
Address: 4430 South Adams County Parkway  
City, State, Zip: Brighton, Colorado 80601  
Phone: 720.523.6116

Contractor: URS  
Contact: Travis Boone  
Address: 8181 E. Tufts Ave  
City, State, Zip: Denver, CO 80237  
Phone: 303-740-2671  
E-mail: [travis.boone@urs.com](mailto:travis.boone@urs.com)

- 10.9. Integration of Understanding: This Agreement contains the entire understanding of the parties hereto and neither it, nor the rights and obligations hereunder, may be changed, modified, or waived except by an instrument in writing that is signed by the parties hereto.
- 10.10. Severability: If any provision of this Agreement is determined to be unenforceable or invalid for any reason, the remainder of this Agreement shall remain in effect, unless otherwise terminated in accordance with the terms contained herein.
- 10.11. Authorization: Each party represents and warrants that it has the power and ability to enter into this Agreement, to grant the rights granted herein, and to perform the duties and obligations herein described.

## **11. CHANGE ORDERS OR EXTENSIONS:**

- 11.1. Change Orders: The County may, from time to time, require changes in the scope of the services of the Contractor to be performed herein including, but not limited to, additional instructions, additional work, and the omission of work previously ordered. The Contractor shall be compensated for all authorized changes in services, pursuant to the applicable provision in the Invitation to Bid, or, if no provision exists, pursuant to the terms of the Change Order.

11.2. Extensions: The County may, upon mutual written agreement by the parties, extend the time of completion of services to be performed by the Contractor.

**12. COMPLIANCE WITH C.R.S. § 8-17.5-101, ET. SEQ. AS AMENDED 5/13/08**: Pursuant to Colorado Revised Statute (C.R.S.), § 8-17.5-101, *et. seq.*, as amended May 13, 2008, the Contractor shall meet the following requirements prior to signing this Agreement (public contract for service) and for the duration thereof:

12.1. The Contractor shall certify participation in the E-Verify Program (the electronic employment verification program that is authorized in 8 U.S.C. § 1324a and jointly administered by the United States Department of Homeland Security and the Social Security Administration, or its successor program) or the Department Program (the employment verification program established by the Colorado Department of Labor and Employment pursuant to C.R.S. § 8-17.5-102(5)) on the attached certification.

12.2. The Contractor shall not knowingly employ or contract with an illegal alien to perform work under this public contract for services.

12.3. The Contractor shall not enter into a contract with a subcontractor that fails to certify to the Contractor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this public contract for services.

12.4. At the time of signing this public contract for services, the Contractor has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this public contract for services through participation in either the E-Verify Program or the Department Program.

12.5. The Contractor shall not use either the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while this public contract for services is being performed.

12.6. If Contractor obtains actual knowledge that a subcontractor performing work under this public contract for services knowingly employs or contracts with an illegal alien, the Contractor shall: notify the subcontractor and the County within three days that the Contractor has actual knowledge that the subcontractor is employing or contracting with an illegal alien; and terminate the subcontract with the subcontractor if within three days of receiving the notice required pursuant to the previous paragraph, the subcontractor does not stop employing or contracting with the illegal alien; except that the contractor shall not terminate the contract with the subcontractor if during such three days the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an illegal alien.

12.7. Contractor shall comply with any reasonable requests by the Department of Labor and Employment (the Department) made in the course of an investigation that the Department is undertaking pursuant to the authority established in C.R.S. § 8-17.5-102(5).

- 12.8. If Contractor violates this Section, of this Agreement, the County may terminate this Agreement for breach of contract. If the Agreement is so terminated, the Contractor shall be liable for actual and consequential damages to the County.
- 12.9. This Agreement shall not create any rights or benefits to parties other than County and Contractor. No third party shall have the right to rely on Contractor's opinions rendered in connection with the Services without the written consent of Contractor and the third party's agreement to be bound to the same conditions and limitations as County. Reuse of any deliverables by County on any extension of this project or any other project without the written authorization of Contractor shall be at County's sole risk.

IN WITNESS WHEREOF, the Parties have caused their names to be affixed hereto:

Board of County Commissioners

[Signature]  
Chair

8-26-13  
Date

URS

[Signature] 08/24/13  
Signature Date

TRAVIS BOONE VICE PRESIDENT  
Printed Name Title

Attest:

Karen Long, Clerk and Recorder  
Deputy Clerk

[Signature]



Approved as to Form:

[Signature]  
Adams County Attorney's Office

NOTARIZATION:

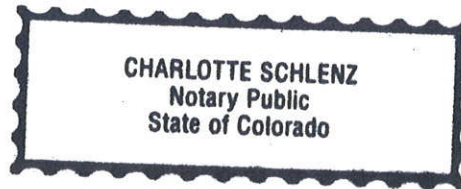
COUNTY OF Denver)

STATE OF Colorado)SS.

Signed and sworn to before me this 21 day of August, 2013,

by Travis Boone,

[Signature]  
Notary Public



My commission expires on: 3/16/2015



**CONTRACTOR'S CERTIFICATION OF COMPLIANCE**

Pursuant to Colorado Revised Statute, § 8-17.5-101, *et.seq.*, as amended 5/13/08, as a prerequisite to entering into a contract for services with Adams County, Colorado, the undersigned Contractor hereby certifies that at the time of this certification, Contractor does not knowingly employ or contract with an illegal alien who will perform work under the attached contract for services and that the Contractor will participate in the E-Verify Program or Department program, as those terms are defined in C.R.S. § 8-17.5-101, *et. seq.* in order to confirm the employment eligibility of all employees who are newly hired for employment to perform work under the attached contract for services.

**CONTRACTOR:**

URS CORPORATION  
Company Name

SEPTEMBER 11, 2013  
Date

Travis Boone  
Signature

TRAVIS BOONE  
Name (Print or Type)

VICE PRESIDENT  
Title

Note: Registration for the E-Verify Program can be completed at: <https://www.vis-dhs.com/employerregistration>. It is recommended that employers review the sample "memorandum of understanding" available at the website prior to registering

Exhibit A

**REQUEST FOR PROPOSAL  
2013.152 Professional Engineering Services for  
W.60th Place Improvements**

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**Questions Due**

**Date: July 9, 2013**

**Time: 12:00 P.M.**

**Proposal Due**

**Date: July 16, 2013**

**Time: 3:00 P.M.**



**Adams County is utilizing the RFQ 2013.035 solicitation – Non Project Specified  
Professional Services – Approved List of Engineering Firms selected in the  
roadway engineering category**

Adams County is accepting proposals for **professional services associated with the 2014 Street Program Project (Project)**. The County anticipates reconstruction of the roadway as well as curb, gutter, pedestrian walk, and handicapped accessible ramps in compliance with the Americans with Disability Act (ADA) on south side of the road, along with drainage, as needed on W. 60<sup>th</sup> Place from Broadway to the west end of the right of way. The project goals are to design the horizontal and vertical alignments for the road to address drainage issues, roadway layouts, sidewalk locations, and other infrastructure coordination. The roadway reconstruction has been prioritized and indicated by the Transportation Asset Management System (TAMS). As a result, Adams County is requesting surveying, geotechnical investigation, drainage analysis, and roadway professional engineering services.

The goal for the County is to provide that the **Project** will not negatively impact private properties, existing drainage conditions, and will improve or enhance roadway safety, pavement strength, improve driving conditions, provide a pedestrian friendly walk, and drainage, as needed at minimal cost.

All questions must be submitted in writing and sent via email to: [jtierney@adcogov.org](mailto:jtierney@adcogov.org) by **12:00 p.m. on July 9, 2013**.

Proposals for consideration will be received by Purchasing Agent, Jennifer Tierney, Adams County Government Center, 4430 South Adams County Parkway, Suite C4000A Brighton, CO 80601-8212, up to **3:00 P.M., July 16, 2013**. **Proposals will be accepted by emailing Jennifer Tierney at [jtierney@adcogov.org](mailto:jtierney@adcogov.org), or you may submit your proposal in person at the address listed above.**

#### **SCOPE OF WORK**

The Consultant shall perform all necessary professional services including but not limited to:

- A. Public Outreach and Project Meetings (including meeting minutes)
  1. Initial Project Meeting
  2. Progress Meetings
  3. Public Meetings
  4. Utility Meetings
  5. Determine the need for the discharge pipes from the building at 6001 Broadway, Denver, CO.
  
- B. Roadway Engineering
  1. Evaluate the design within project limits, which shall include vertical and horizontal alignments, cross sections, pedestrian facilities, and drainage mitigation. The improvements will need to fit within the existing County rights-of-way. Provide curb cuts or curb return details and cross sections at each driveway edge and critical locations, such as sidewalks and other features that might be affected by the Project.
  2. Present the preliminary design to Adams County and impacted utility companies for review. The Consultant shall review comments from Adams County, utility companies, and affected parties developed under the preliminary design phase, and incorporate the agreed upon changes into the final design.

3. Draw the preliminary plan and profile design on a scale of 1" = 20' horizontal and 1" = 5' vertical. The County may allow the consultant to use different scales after a review of the preliminary plans.
4. Design and plot the proposed horizontal and vertical alignments. The proposed design shall strive for no impact on the adjacent properties. The plans shall include pay items modeled after CDOT's standard pay items.
5. Potholing to avoid conflicts. All utilities shall be shown on the plans.
6. The roadway horizontal configuration shall include but not limited to the followings:
  - a. Two lanes
  - b. Curb, gutter, and sidewalks on south side of the road.
7. Prepare the construction plans on half size (11" x 17") paper along with an electronic CD. The final plans shall include but not limit to: typical section, summary of approximate quantities, survey control diagram and tabulation, geometric data, demolition plan, proposed roadway centerline, flowlines, curb, gutter, sidewalk, drainage infrastructures (pipes, inlets, manholes, etc.) plans; centerline profile, flow line profile as needed; cross section at the edge of each driveway and identified improvements to the walkway or other improvements with sufficient details and information for bidding and construction purposes.
8. Provide project special provisions if CDOT's standards and specifications are not sufficient.

C. Surveying Service

1. Obtain signed permission to enter private property.
2. Provide topographical survey that is sufficient for the design of roadway and drainage improvements.
3. The horizontal and vertical accuracy shall be at 1/10 foot for landscape areas and 1/100 foot for hardscape areas.
4. Obtain intersection configurations and cross-sections. Survey shall be extended at least 200 feet at each leg.
5. Copies of all survey field notes, maps, electronic drawing files, etc., shall be furnished to the County.
6. The survey shall contain all necessary information to design drainage, curb, gutter, driveway and sidewalk improvements for those areas indicated in the exhibits.
7. Show locations of all utilities on the plans.
8. Establish at least two (2) temporary benchmarks / control points with elevations on Adams County Datum for each street. Locations shall be at opposite ends of the area to be improved and in an area where potential disturbance will be minimal.

D. Geotechnical Engineering

1. Provide field sampling and testing of existing pavements and soils necessary for proper pavement design as per the CDOT Pavement Design Manual.
2. Perform boring and subsurface geotechnical investigations for structure selection reports.
3. Provide testing results used in the design process that are certified by a professional engineer.
4. Provide pavement rehabilitation alternatives and recommendations.

5. Provide pavement thickness design analysis including alternative pavement sections.
6. Provide engineering geology plan sheets.

D. Drainage Engineering

Hydrology - The study, analysis, review and design of hydrology sufficient to provide information for storm sewer design and / or runoff calculations for West 60<sup>th</sup> Place. The Consultant shall provide the following information:

1. Collect historical drainage data including drainage studies and master drainage plans.
2. Establish drainage basin data.
3. Select run-off parameters and predict peak flows using existing studies and methods including flood history.
4. Provide calculations including computer modeling of hydrologic analysis.

Hydraulic - The Consultant shall provide analysis, review and design services for subsurface storm sewer, primarily related to stormwater drainage. This includes:

1. Locate and address flood, drainage and erosion problem areas.
2. Furnish the design, size, and location of storm sewer and other drainage facilities.
3. Furnish stormwater management plans and reports which include erosion and sediment control plans that meet Adams County Stormwater Quality Regulations.
4. Prepare all necessary plans or profiles for the drainage improvements as needed.
5. Furnish design and sizing calculations including computer modeling.
6. Prepare hydraulic analyses and reports.

The Consultant shall be responsible to ensure that all personnel proposed under this RFP are qualified through training, experience, and appropriate certification for the tasks assigned and shall have a working knowledge of Adams County's standard practices.

The Consultant shall conform to all applicable federal, state, and county regulations.

A general "notice to proceed" will be given for each specific assignment upon completion of a "Not To Exceed" Cost Estimate, including the timeframe in which to complete the work and include staff availability in the proposal.

**ATTACHMENT:**  
Project Location Map

<b>CONSULTANT EVALUATION – SCORING FORM</b>	
<b>Panel Member:</b>	<b>Max. Score</b>
<b>Project Team/ Consultant:</b>	<b>10</b>
1) If the prime firm cannot provide some services for the project in house, they should use of subconsultants on the approved RFQ list unless the sub consultants had been listed in your RFQ proposal and successful on the past projects.	
Comments:	
<b>Rates of Services</b>	<b>20</b>
1) Evaluated firm's rates for personnel on an hourly basis 2) Evaluated sub-consultant's rates for personnel on an hourly basis including reimbursable expenses 3) Evaluated the project cost based on the project approach	
Comments:	
<b>Work Plan</b>	<b>25</b>
1) Firm demonstrated clear understanding of the project goals. 2) Project Approach 3) Schedule for delivery	
Comments:	
Total Score	







**URS**

*Proposal For*

# 2013.152 Professional Engineering Services for W. 60th Place Improvements

July 16, 2013



*Submitted By:*  
URS Corporation  
8181 East Tufts Avenue  
Denver, CO 80237





8181 East Tufts Avenue  
Denver, CO 80237  
Tel: 303-740-2600  
www.urs.com

July 16, 2013

Jennifer Tierney  
Purchasing Agent  
Adams County Government Center  
4430 South Adams County Parkway, Suite C4000A  
Brighton, CO 80601-8212  
jtierney@adcogov.org

**Subject: Proposal for 2013.152 Professional Engineering Services for W. 60<sup>th</sup> Place Improvements**

Dear Jennifer,

URS understands W. 60<sup>th</sup> Place Improvements Project. We have developed a work plan which includes a solid approach, an efficient schedule, and a reasonable budget based on this understanding. We are poised to take action to complete the project in excess of your expectations.

As outlined in our proposal, we have successfully completed similar projects on budget and schedule. Successful completion of these projects combined with high quality and project constructability has led to the satisfaction of our clients. A few of those projects include:

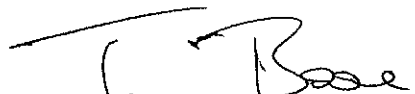
- ▶ Tennyson Street, 38th to 44th Avenues, Roadway Reconstruction, Denver, CO
- ▶ Lower Hoffman Drainageway Project, Adams County and UDFCD
- ▶ Stapleton Redevelopment Project, Forest City Stapleton, Denver, CO

Our Team of proven engineers is excited to successfully complete your project. Thank you for your consideration of our proposal and if you have any questions, please do not hesitate to contact Ms. Margie Krell at 303-796-4600 or via email at [margie.krell@urs.com](mailto:margie.krell@urs.com)

Sincerely,

URS Corporation

  
Margie Krell, PE  
Project Manager

  
Travis Boone, PE, Vice President  
Principal-in-Charge



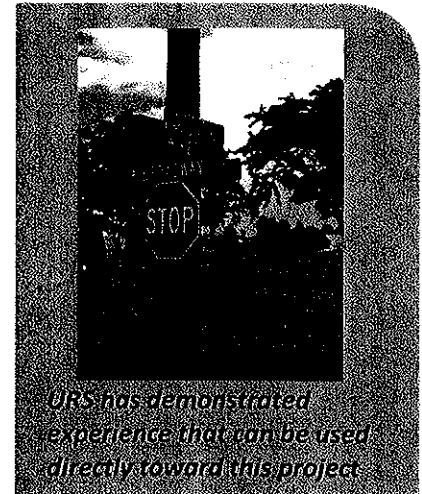
## **1. INTRODUCTION**

As a consultant on the approved list of engineering firms selected in the roadway engineering category for RFQ 2013.035 Non-Project Specified Professional Services, URS Corporation (URS) has demonstrated expertise and past project experience necessary for the tasks involved in the 2014 Street Program Project scope of work. Our proposal and engineering fee estimate has been developed to respond to the items specified in the RFP, and as modified by Addendum 1, dated July 10, 2013.

## **2. WORK PLAN**

### **2.1 Project Understanding**

Roadway reconstruction of W. 60<sup>th</sup> Place has been prioritized by the Adams County Transportation Asset Management System (TAMS) and indicated as a necessary improvement. Key to the reconstruction is adjusting the roadway layout to meet the Adams County (County) typical section for local industrial/commercial roadway, as appropriate for the existing right-of-way (ROW). Surveying, geotechnical investigation and pavement design, and utility coordination will also be required to complete a quality design.

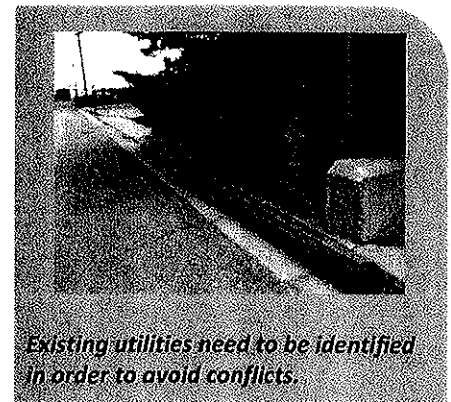


### **2.2 Project Approach**

URS will incorporate an approach on this project that was successful on several recent urban roadway reconstruction projects for the City and County of Denver. This approach is based on involving the key project components early and continuing close collaboration both between the project disciplines and between URS and the County throughout the course of the project.

#### **2.2.1 Data Collection**

The Ayres survey team will establish the local control from the County Survey Control monuments using GPS derived elevations. Two temporary control monuments will be established, one at each end of the project area. The control monuments will be located outside of the area of potential disturbance for the construction of this project. The team will obtain permission to enter private properties and will perform topographical survey for the 1350' long corridor, extending 200' beyond the anticipated tie-in location at the intersection of W. 60<sup>th</sup> Place and Broadway. Surface features relating to the existing roadway layout, drainage, utilities, and public ROW limits will be included in the topographical survey.



To supplement the topographic survey, the project team will obtain regional LiDAR data from the 2008 DNC survey to assist in determining drainage basins and existing off-site drainage patterns.

Also as part of the project data collection, the URS team will contact the Utility Notification Center of Colorado (UNCC) to get a list of the possible utility owners within the project corridor. The team will contact the companies on the list to verify the existence of facilities within the corridor and to establish a point of contact. The team will also work to obtain the following information from each owner:

- Utility location maps
- Description of the size and material of the utility
- Special considerations for specific utilities
- Potential future utility improvement plans or needs

## 2013.152 Professional Engineering Services for W. 60th Place Improvements

The utility location maps will be used to review the survey information and to create a drawing of the existing utilities for use in the project improvement plans. URS will evaluate potential conflicts with and/or impacts to existing utilities in our design considerations and recommend adjustment or relocation as needed.

### Deliverables

- ▶ AutoCad file of the topographic and improvement survey
- ▶ Copies of all survey field notes and maps
- ▶ Survey control diagram and tabulation
- ▶ AutoCad file of the existing contours based on the topographic survey and the DNC LiDAR data
- ▶ Existing utility locations incorporated in the design drawings

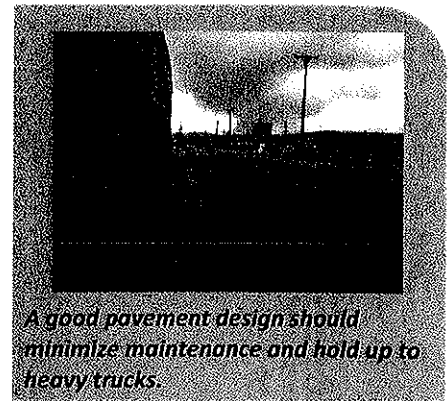
### 2.2.2 Geotechnical Engineering

Kumar & Associates will provide the geotechnical engineering on this project, a partnership that has delivered successful results for previous projects. Based on experience on similar projects, the geotechnical investigation and pavement design will be divided into four steps: collecting samples, conducting laboratory testing, analyzing the data, and preparing a report to provide conclusions and recommendations.

1. Sample collection: Drill 5 exploratory borings at selected locations along the project street segments. The depths of the borings are anticipated to range from 10 to 15 feet, with the final depths to be determined in the field as drilling progresses and as the subsurface profile become evident. The borings will be made to obtain information on the existing pavement section type and thickness, determine the underlying subsurface profile, obtain samples for laboratory testing, and estimate the ground-water level and depth to bedrock, if encountered within the drilled depth.

The geotechnical team will coordinate with the Utility Notification Center of Colorado to locate buried utilities prior to drilling. We will obtain a permit from the County to work within the street ROWs. We understand that this will be a "no-fee" permit. Also, we will obtain subcontract services to perform traffic control measures in accordance with applicable MUTCD requirements.

2. Testing: Conduct a laboratory testing program on selected samples obtained from the borings to determine:
  - Moisture content
  - Density of undisturbed fine-grained samples
  - Gradation characteristics of coarse-grained samples
  - Consolidation and/or swell potential of fine-grained soil samples
  - Atterberg limits
  - Water Soluble Sulfates
  - Hveem Stabilometer (R-value)
3. Analyze the data obtained from the field and laboratory portions of the study to provide engineering recommendations for:
  - Pavement section alternatives for the reconstruction of the street segments
  - Feasibility of an asphalt overlay alternative for the street segments
  - Utility excavation, bedding, and backfill
  - Subgrade preparation measures
  - Subgrade stabilization requirements, if applicable
  - Mitigation of sulfate attack on concrete, if any



## 2013.152 Professional Engineering Services for W. 60th Place Improvements

4. Prepare a report to summarize the site exploration data, laboratory test results, observations, and provide our conclusions and recommendations. The field work and report preparation will be supervised by a registered professional engineer.

### Deliverables

- ▶ Geotechnical Investigation and Pavement Design Report
- ▶ Engineering Geology plan sheets

### 2.2.3 Drainage Engineering

The W. 60th Place Improvement Project lies within two major drainage basins as defined by Urban Drainage Flood Control District (UDFCD). Major Basin Clear Creek 04300 lies on the west and Major Basin DFA 0059 lies on the east. Based on the 54th and Pecos Outfall Systems Planning Study, new storm drain systems are proposed on the west and on the east that run north and connect to a proposed outfall that discharges runoff into Clear Creek. URS will work to align the drainage design with the future systems in mind. Although the project site and existing storm drain is limited, URS will look for opportunities to provide stormwater quality improvements where feasible.

The storm drainage analysis and design will adhere to the Adams County Development Standards and Regulations for Storm Drainage Design and Technical Criteria. For the hydrologic analysis URS will use the 2008 DNC LIDAR to determine the project drainage basins. The peak flows for the minor (5-year) and the major (100-year) storm events will be determined using the Rational Method. URS anticipates that the drainage basin sizes will be less than 90 acres; therefore computer aided hydrologic models are not required per County criteria.

URS will address drainage problem areas and identify potential water quality areas and coordinate closely with the roadway design. StormCAD analysis will be provided for any proposed storm drain systems and storm drain profiles will be prepared for proposed facilities. Storm drain and inlet design will adhere to the *Adams County Development Standards and Regulations for Storm Drainage Design and Technical Criteria*.

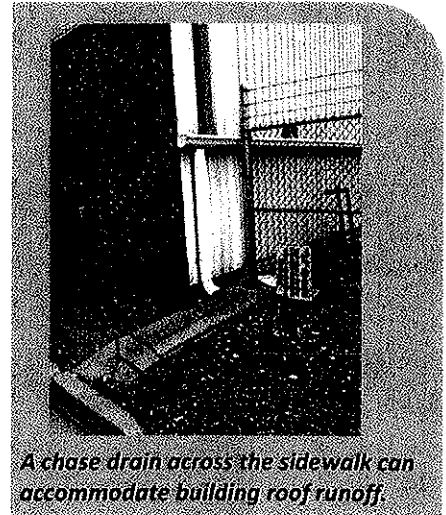
URS will prepare a Drainage Study to present the analysis and conclusions. Methods of capturing roadway runoff while keeping the existing access to the Rocky Mountain Prestress property will be evaluated. An Erosion and Sediment Control (ESC) Plan for construction will be prepared using the County's ESC Plan Template. URS will coordinate with the County permitting efforts related to the project storm drainage as necessary.

### Deliverables

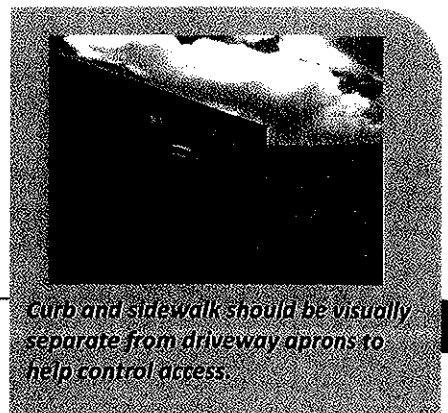
- ▶ Drainage Study, including hydrologic and hydraulic calculations
- ▶ Storm Drain Plan and Profiles
- ▶ ESC Plan

### 2.2.4 Roadway Engineering

The roadway engineering team will tie the gathered survey and existing utility information and recommendations by the geotechnical and drainage disciplines together to develop a roadway reconstruction design based on a modified County typical section for local industrial/commercial roadways. The modification will consist of constructing curb, gutter, and sidewalk, but not on the north side along the Rocky Mountain Prestress property to preserve the existing site access. The design will include vertical and



*A chase drain across the sidewalk can accommodate building roof runoff.*



*Curb and sidewalk should be visually separate from driveway aprons to help control access.*

## 2013.152 Professional Engineering Services for W. 60th Place Improvements

horizontal alignments, the proposed pavement section, curb and gutter, curb ramps, on-street parking, and sidewalk locations that meet ADA requirements. The design will be constrained by the existing ROW unless otherwise directed by the County. The potential for a cul-de-sac at the west end of 60<sup>th</sup> Place will also be considered.

Preliminary construction plans will be prepared and submitted to the County for review and comment. Comments will be discussed and resolved in a design review meeting including URS and the County. URS will incorporate resulting minor modifications into the design prior to submittal of final construction plans.

### Deliverables

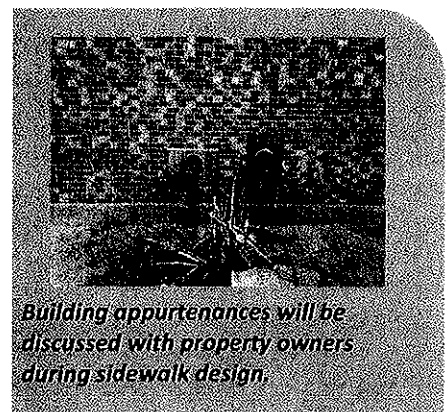
- ▶ Half-size (11"x17") Preliminary Construction Plans
- ▶ Half-size (11"x17") Final Construction Plans
  - title sheet
  - typical section and pavement section
  - summary of approximate quantities
  - survey control diagram and tabulation (per Data Collection task)
  - engineering geology/boring log (per Geotechnical Engineering task)
  - geometric data
  - demolition and removal plan
  - proposed roadway layout including utilities
  - roadway centerline profile
  - storm drain plan and profiles (per Drainage Engineering task)
  - water quality feature details (if applicable)
  - ESC Plan
  - cross sections at the edge of each driveway and identified improvements to the walkway
- ▶ Project Special Provisions for items not sufficiently covered in CDOT's Standard Specifications for Road and Bridge Construction
- ▶ Construction Cost Estimate
- ▶ Electronic files of the plans

### 2.2.5 Coordination and Communication

URS will schedule and conduct a project kick-off meeting with the County. The team will hold regular progress meetings both with the County and internally for design coordination between the disciplines. URS will arrange meetings with affected property owners.

### Deliverables

- ▶ Meeting Minutes

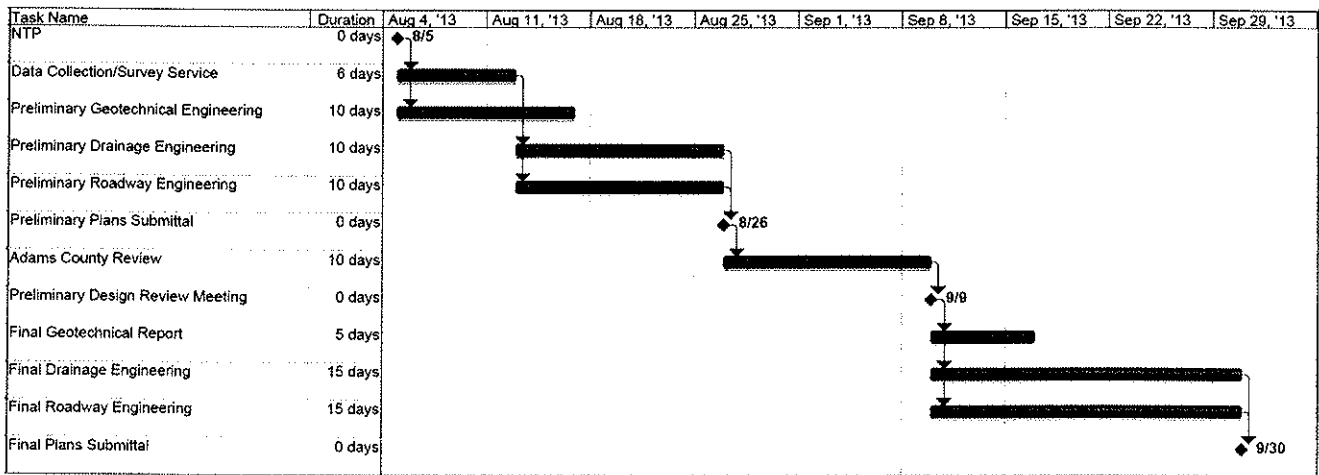


# 2013.152 Professional Engineering Services for W. 60th Place Improvements

## 2.3 Schedule of Delivery

URS recognizes the time-sensitive nature of this project so that the cost can be included in the funding request for the 2014 Street Paving Project and the plans can be included in the 2014 Street Paving Project bid documents, and is committed to effectively managing this schedule. Our Project Manager, Margie Krell, will communicate regularly with the County to ensure there is a clear understanding of critical dates and deadlines. Discussing the schedule regularly at progress meetings, through phone conversations, email correspondence, and in monthly progress reports has proven beneficial in keeping smaller task orders on track. If schedule slippage occurs, corrective actions will be taken. These may include bringing more resources, modifying the work plan, or giving priority to critical-path work.

**Exhibit 1. Proposed Project Schedule** (based on an assumed Notice-to-Proceed)





## **PROJECT TEAM**

Based on our understanding of your needs, we have provided brief biographies for the staff who will be leading the key disciplines identified in the Scope of Work. These individuals have the technical experience needed to support the County's drainage, roadway, surveying, and geotechnical needs. URS believes that maintaining high quality standards is part of each team member's role. All of the key staff hold Colorado licenses (PE or PLS) in the area for the work that they are responsible for.

### **Margie Krell | Project Manager and Lead Roadway Engineer**

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Margie has 15 years of experience as a Transportation Engineer and Project Manager, specializing in roadway design, task management, discipline coordination, and plan preparation. Margie will serve as the single point of contact for the County and will be responsible for managing this project and providing leadership to URS team members engaged in the required discipline activities. She will provide technical leadership and coordination and be responsible for making sure the scope is carried out to meet the County's expectations. Margie will also verify that the URS Quality Management System processes are being adhered to for each deliverable. Margie will be available as needed for this project.

### **Travis Boone | Principal-in-Charge**

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Travis, with 18 years of experience in the transportation industry, has a broad background in management, construction, and design. As Project Principal and URS Vice President, Travis will ensure that the right resources are available and will act on behalf of URS on contractual matters. Beyond fulfilling the County contractual requirements, Travis will maintain active involvement in the team's performance; providing input on critical project issues and overseeing communication with property owners. Travis will be available as needed to support Margie and the County during the course of this project.

### **Michelle Morgan | Lead Drainage and Utility Engineer**

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Michelle is a Senior Engineer and Project Manager with 18 years of experience in civil engineering. Her expertise lies in infrastructure planning and design, utility coordination and design, and hydraulics and hydrology analysis and design. Most recently, she was responsible for the design of sanitary sewer, water, drainage, and water quality facilities for several sites as part of the Stapleton Redevelopment project. Her responsibilities for this project will include managing the drainage and utility design team, collaborating with other project disciplines, and coordinating with governing municipalities.

## 2013.152 Professional Engineering Services for W. 60th Place Improvements

### Subconsultants

We selected our subconsultants based on previous experience, talents, commitment, and availability. All of our subconsultants are on the approved RFQ list.

#### **Jim Noll, Kumar & Associates | Geotechnical Engineering Oversight**

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Jim has more than 31 years of experience in geotechnical, materials, and geologic engineering projects. He has performed a wide variety of investigations and engineering services for projects including transportation; drainage/waterways; retail, industrial, and commercial buildings; water and wastewater treatment/distribution facilities; and mining operations. Transportation related projects range from urban interchanges to mountainous terrain to rural aggregate surface roadways. His background includes project management ranging from small-scale projects to large, multi-year contracts for various governmental agencies.

#### **Joshua Barker, Kumar & Associates | Lead Geotechnical Engineer**

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Josh has more than 22 years of experience in the geotechnical engineering field. He has extensive experience with both field and laboratory testing of concrete, soils, and reinforcing steel. He also has experience on highways, airfield runways and taxiways, and pavement rehabilitation projects. His transportation related experience includes testing and analysis of pavements through the use of a Falling Weight Deflectometer. Josh also has experience with structure foundations ranging from residences to multi-story commercial buildings. His duties currently involve coordinating field and laboratory testing, conducting engineering analysis and design, and generating geotechnical engineering reports.

#### **Walter Pennington, Ayres Associates | Survey Manager**

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Walt's expertise is in planning and designing water resource/civil design projects that include hydrology and hydraulics, stream stabilization, storm drain design, detention and sediment basins, levee evaluation and design, wetlands restoration, airport deicing facilities, railroad yard retrofit drainage facilities, permitting, floodplain analysis and mapping, utility design, stormwater pollution prevention plans, public presentations, and commercial land development. Walt will oversee the survey team for this project.

## **PAST PERFORMANCE**

### **Tennyson Street, 38th to 44th Avenues, Roadway Reconstruction, Denver, CO**

URS provided design and construction services for the reconstruction of Tennyson Street between 38th Avenue and 44th Avenue (a ½-mile urban collector street) under an on-call contract for the City and County of Denver. Project elements included vertical alignment adjustment, pedestrian improvements, water quality in an urban location, traffic signal reconstruction, intersection design, utility relocation, landscaping, lighting, irrigation, and public involvement. URS designed the signing and striping for the reconstruction and developed the construction phasing plan and the associated temporary traffic control design



*Bulb-outs shortened pedestrian crossing distance and allowed some driveways to be reconstructed ADA-compliant while keeping most of the on-street parking.*

### **Lower Hoffman Drainageway Project, Adams County & UDFCD**

URS prepared a preliminary design for improving the conveyance capacity and stabilizing approximately 4,500 feet of the Lower Hoffman Drainageway in the County. The project design included numerous small and large grade control structures, several large concrete box culvert crossings, stacked boulder walls, a substantial storm drain system, and modifications to two irrigation facilities. The URS design included master planned trails, utility upgrades, and future transportation projects planned for the project corridor.



*A segment of the Lower Hoffman Channel needed capacity improvements and stabilization through future development and adjacent to an existing street.*

### **Stapleton Redevelopment Project, Forest City Stapleton, Denver, CO**

URS is the lead consultant to Forest City Stapleton, the master developer of the redevelopment of the former Stapleton Airport. The URS led design team has been involved with land use planning, infrastructure planning, program management and all aspects of the infrastructure design. Kumar & Associates is a key team member, providing all of the project's geotechnical analysis and pavement design recommendations.



*Task orders include roadway, utility, pedestrian, and other infrastructure design.*

## PROJECT CONTROL

### Cost Controls

Our Project Manager, Margie Krell, will work closely with each of our task leaders to communicate the budget requirements and deliverables. URS' project charges are tracked daily, and project status is summarized weekly using the URS accounting system. We will provide the County Project Manager with monthly formal invoices and progress reports.

### Project Management Approach

Strong project management is crucial to meeting the County's goals and objectives of this project, and our project management approach outlined schematically in **Exhibit 2** consists of:

- ▶ Assigning experienced technical personnel to key positions and maintaining that continuity
- ▶ Developing a Project Execution Plan (PXP) and communications procedures
- ▶ Maintaining regular communications with the County's Project Manager and the project team on directives, schedule, and budget
- ▶ Monitoring the project throughout all phases for innovation and value engineering opportunities

We have assigned an experienced Project Manager to this project. Our approach to managing and completing projects is to prepare the PXP to meet the client's expectations and requirements for the project, work the plan, and measure performance.

The PXP establishes the road map for all team members and details the protocols and procedures that will be used to implement the project, including health and safety, quality, staffing, schedules, project management and technical tools, all key deliverables, and a contacts listing with communication protocols. With this plan in place, URS can successfully complete the project on time, within budget, and to the requirements of the County.

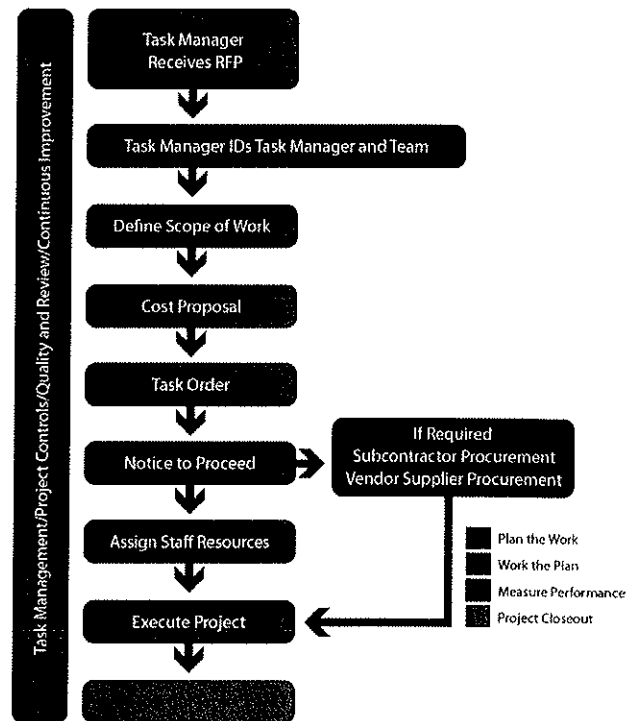
URS will **Plan the Work** for this project by:

- ▶ Meeting with the County's Project Manager initially to discuss the project, individual aspects from the preliminary phase through final design, and establish the County's expectations
- ▶ Ensuring the Scope of Work, Project Deliverables, and Fee Proposal meet the County's expectations
- ▶ Scheduling the project team, tailored to meet exact technical and schedule requirements of each project

We **Work the Plan** by:

- ▶ Holding a project kick-off meeting with the URS team and subcontractors, and presenting the PXP
- ▶ Assigning staff resources, scheduling, and monitoring the work
- ▶ Regularly communicating and coordinating with the County's Project Manager (and stakeholders) during design to ensure delivery of a high-quality, technically sound project

**Exhibit 2. Project Management Approach**



## 2013.152 Professional Engineering Services for W. 60th Place Improvements

Performance is measured by monitoring the budget and schedule, implementing the Quality Program procedures, and seeking input and feedback from the County and project stakeholders.

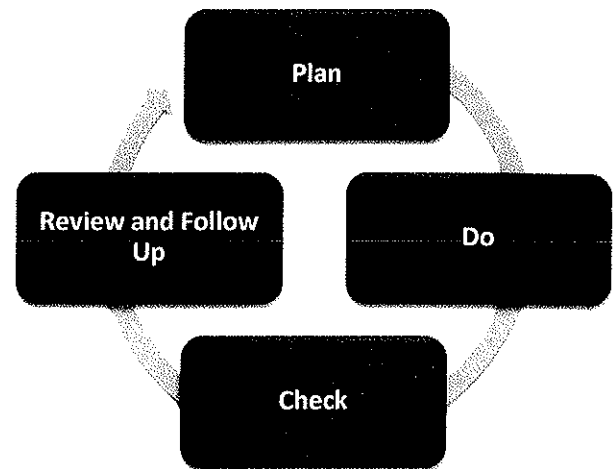
Key elements of our project management approach are effective communication, thorough quality control, and developing and maintaining the project schedule.

### Quality Control

URS is committed to providing our clients with quality professional services. Quality of deliverable products is based on our current Quality Program, which has been in place for more than 25 years and is ISO 9001 compliant. It is a comprehensive program to ensure that quality is built-in, not bolted-on to our deliverables. The essential components of the program are listed below.

- ▶ Identify and provide appropriately trained staff
- ▶ Establish clear lines of responsibility, authority, and accountability
- ▶ Develop, maintain, and assign prequalified staff to tasks
- ▶ Define methods of operation/procedures
- ▶ Document and detail check activities
- ▶ Establish procedures for auditing and corrective action
- ▶ Complete independent technical peer review of project deliverables

Exhibit 3. URS' Quality program for Adams County is based on our successful delivery of similar projects.



The organizational structure requires verification of compliance with quality procedures described in the URS Quality Management System (QMS) by qualified personnel. The URS QMS is based on formal procedures, applicable to all deliverables, and for this Scope of Work includes:

- ▶ **PXP** - The PXP provides team members with information about the scope, project criteria, schedule, budget, health & safety, communications protocols, filing procedures, and design standards. The plan defines required quality activities and designates who will be responsible.
- ▶ **Independent Technical Reviews (ITRs)** - For project deliverables, an (ITR) is enlisted to assess the soundness of the work product, including adherence to the scope, technical soundness, completeness, and conformance with the standard of professional practice.
- ▶ **Detail Checking** - Project deliverables are subjected to a standardized, systematic detail checking procedure whereby the items in a deliverable are checked prior to submittal.
- ▶ **Interdisciplinary Design Coordination** - Coordination plan reviews and meetings are conducted to maximize compatibility between all of the project's technical disciplines.
- ▶ **Documentation and Audits** - An organization of QA officers and coordinators exists within the company to apply implementation of the program. Their authority extends to regular training for our employees, internal auditing of projects, and employee awareness campaigns.

The URS Quality Program has been successfully applied to thousands of projects and will be applied to all phases of work and deliverables for this project.

**Scheduling**

Our reputation for completing projects on time comes from our attention to project planning, providing experienced staff and dedicated project managers. The depth of our staff resources allows us to provide appropriate personnel when schedules change unexpectedly or are accelerated. Completing projects on time directly correlates to detailed project planning and successful execution of planned tasks. In addition to compliance with project schedules, the size and availability of our staff resources allows the URS team to respond quickly to client needs. Personnel assignment and delivery of services will be based on the requirements of each project. Based on the size and duration of this project, URS recommends a bar chart or milestone table format for the schedule.

# 2013.152 Professional Engineering Services for W. 60th Place Improvements

## RATES OF SERVICE (20PTS)

### URS Hourly Rates

#### Exhibit 4. URS 2013 Hourly Rates

##### PERSONNEL CHARGES

The charge for all time required in performing the Scope of Services, including office, field, and travel time, will be at the Unit Price Hourly Rates set forth below for the labor classifications indicated.

<u>Labor Classification</u>	<u>Hourly Rate</u>
Assistant/Support Staff 1	47
Assistant/Support Staff 2	58
Assistant/Support Staff 3	69
Assistant/Support Staff 4	79
Assistant/Support Staff 5	91
Assistant/Support Staff 6	101
Assistant/Support Staff 7	111
Assistant/Support Staff 8	122
Assistant/Support Staff 9	133
Assistant/Support Staff 10	143
Staff 1	84
Staff 2	96
Staff 3	106
Staff 4	116
Project 1	128
Project 2	138
Project 3	148
Project 4	160
Consultant 1	175
Consultant 2	191
Consultant 3	207
Expert Witness	398

Project Manager Classification rates are by levels and depend on the size and complexity of the job.

Charges for temporary personnel under Company supervision and using Company facilities will be invoiced according to the hourly rate corresponding to their classification, if not billed as subcontractors.

When Company staff appears as expert witnesses at court trials, arbitration hearings, mediation, and depositions, their time will be charged at the Expert Witness rate.

Overtime (hours worked in excess of eight (8) hours per day) by exempt personnel will be charged at the above straight time hourly rate. Overtime by non-exempt personnel will be charged at time and a half.

Project accounting reporting and financial services, including submission of invoice support documentation will be charged at the appropriate rate of the staff performing the work.

##### LABORATORY SERVICES

The charges for laboratory testing performed at Company facilities are set forth in the Schedule of Company Laboratory Testing Charges.

##### FIELD EQUIPMENT

The charges for field equipment owned by URS are set forth in the Schedule of Equipment Charges. Leased or rented field equipment will be charged as an other direct cost.

##### OTHER PROJECT CHARGES

###### Subcontracts

The cost of services subcontracted by the Company to others will be charged at cost plus 15%.

###### Travel and Other Direct Costs

The cost of travel (airfares, lodging, meals, rental vehicles, parking fees, baggage handling cost, etc.) or other direct cost (field supplies, report binding supplies, film and processing, etc.) will be charged at cost plus 15%. A per diem may be used for lodging and meals.

###### Communications

A flat rate of 3% (6% international) of the total labor charges will be invoiced for charges for normal domestic telephone, long-distance telephone, cellular telephone, facsimiles, email, and correspondence mailing. All other communication fees (e.g., Express Mail, other shipping, etc.) will be charged as Other Direct Costs.

###### Document Reproduction

In-house labor for document reproduction will be charged directly to projects. External reproduction will be charged at cost plus 15%.

###### Dedicated Equipment

Equipment (e.g., cellular telephone, computers, etc.) dedicated to specific projects will be billed at cost plus 15%.

###### Vehicles and Mileage

Company owned or leased field vehicles (pick-ups, vans, trucks, etc.) used on project assignments will be charged at the rates noted in the Schedule of Equipment Charges. The mileage charge for personal autos will be the current mileage rate established by the Internal Revenue Service.

## 2013.152 Professional Engineering Services for W. 60th Place Improvements

### Subconsultant Hourly Rates

#### Exhibit 5. Kumar & Associates 2013 Hourly Rates

Principal Engineer:	\$160/hr
Project Engineer:	\$75/hr
Field Engineer:	\$60/hr
Draftsperson:	\$65/hr
Word Processing:	\$50/hr

#### Kumar & Associates Laboratory Testing Rates

Natural Moisture Content and Dry Density	\$15/ea
Percent Passing No. 200 Siev	\$25/ea
Atterberg Limits	\$45/ea
Water Soluble Sulfates	\$50/ea
Swell-Consolidations	\$60/ea
R-value	\$270/ea

#### Kumar & Associates Outside Services Rates

Drilling:	\$135/hr
Traffic Control Services	\$400/lump sum

#### Exhibit 6. Ayres Associates 2013 Hourly Rates

Senior Vice President/Principal Engineer	\$185.00
Senior Associate	\$185.00
Director	\$180.00
Division Manager	\$165.00
Senior Project Manager	\$150.00
Project Manager	\$130.00
Senior Scientist	\$130.00
Senior Project Engineer	\$135.00
Project Engineer II	\$125.00
Project Engineer I	\$110.00
Engineer*/Scientist	\$ 90.00
Engineering Technician	\$ 65.00
Construction Resident	\$ 65.00
Survey Manager	\$120.00
Licensed Surveyor	\$ 85.00
Party Chief	\$ 70.00
Survey Technician	\$ 55.00
Two-Man Survey Crew	\$125.00
Senior CADD Technician	\$ 85.00
CADD Technician	\$ 70.00
Word Processor/Technical Editor/ Contract Administrator	\$ 75.00
Clerical/Billing Clerk	\$ 55.00



## 2013.152 Professional Engineering Services for W. 60th Place Improvements

### Project Cost

URS has prepared a detailed cost spreadsheet which is included in the Attachment. The not-to-exceed firm-fixed price for the design of W. 60<sup>th</sup> Place Improvements is \$56,060.

### Exhibit 7. Project Cost Estimate

Task	Description	Cost
1	Data Collection	\$ 1,500
2	Survey Services	\$ 5,130
3	Drilling – Geotechnical Investigation	\$ 4,130
4	Drainage Engineering	\$16,600
5	Roadway Engineering	\$21,300
6	Coordination & Communication	\$ 7,400
	<b>TOTAL</b>	<b>\$56,060</b>

# ATTACHMENTS

1. Detailed Cost Estimate



Exhibit A

**REQUEST FOR PROPOSAL  
2013.152 Professional Engineering Services for  
W.60th Place Improvements**

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**Questions Due**

**Date: July 9, 2013**

**Time: 12:00 P.M.**

**Proposal Due**

**Date: July 16, 2013**

**Time: 3:00 P.M.**



**Adams County is utilizing the RFQ 2013.035 solicitation – Non Project Specified  
Professional Services – Approved List of Engineering Firms selected in the  
roadway engineering category**

Adams County is accepting proposals for **professional services associated with the 2014 Street Program Project (Project)**. The County anticipates reconstruction of the roadway as well as curb, gutter, pedestrian walk, and handicapped accessible ramps in compliance with the Americans with Disability Act (ADA) on south side of the road, along with drainage, as needed on W. 60<sup>th</sup> Place from Broadway to the west end of the right of way. The project goals are to design the horizontal and vertical alignments for the road to address drainage issues, roadway layouts, sidewalk locations, and other infrastructure coordination. The roadway reconstruction has been prioritized and indicated by the Transportation Asset Management System (TAMS). As a result, Adams County is requesting surveying, geotechnical investigation, drainage analysis, and roadway professional engineering services.

The goal for the County is to provide that the **Project** will not negatively impact private properties, existing drainage conditions, and will improve or enhance roadway safety, pavement strength, improve driving conditions, provide a pedestrian friendly walk, and drainage, as needed at minimal cost.

All questions must be submitted in writing and sent via email to: [jtierney@adcogov.org](mailto:jtierney@adcogov.org) by **12:00 p.m. on July 9, 2013**.

Proposals for consideration will be received by Purchasing Agent, Jennifer Tierney, Adams County Government Center, 4430 South Adams County Parkway, Suite C4000A Brighton, CO 80601-8212, up to **3:00 P.M., July 16, 2013**. **Proposals will be accepted by emailing Jennifer Tierney at [jtierney@adcogov.org](mailto:jtierney@adcogov.org), or you may submit your proposal in person at the address listed above.**

#### **SCOPE OF WORK**

The Consultant shall perform all necessary professional services including but not limited to:

**A. Public Outreach and Project Meetings (including meeting minutes)**

1. Initial Project Meeting
2. Progress Meetings
3. Public Meetings
4. Utility Meetings
5. Determine the need for the discharge pipes from the building at 6001 Broadway, Denver, CO.

**B. Roadway Engineering**

1. Evaluate the design within project limits, which shall include vertical and horizontal alignments, cross sections, pedestrian facilities, and drainage mitigation. The improvements will need to fit within the existing County rights-of-way. Provide curb cuts or curb return details and cross sections at each driveway edge and critical locations, such as sidewalks and other features that might be affected by the Project.
2. Present the preliminary design to Adams County and impacted utility companies for review. The Consultant shall review comments from Adams County, utility companies, and affected parties developed under the preliminary design phase, and incorporate the agreed upon changes into the final design.

3. Draw the preliminary plan and profile design on a scale of 1" = 20' horizontal and 1" = 5' vertical. The County may allow the consultant to use different scales after a review of the preliminary plans.
4. Design and plot the proposed horizontal and vertical alignments. The proposed design shall strive for no impact on the adjacent properties. The plans shall include pay items modeled after CDOT's standard pay items.
5. Potholing to avoid conflicts. All utilities shall be shown on the plans.
6. The roadway horizontal configuration shall include but not limited to the followings:
  - a. Two lanes
  - b. Curb, gutter, and sidewalks on south side of the road.
7. Prepare the construction plans on half size (11" x 17") paper along with an electronic CD. The final plans shall include but not limit to: typical section, summary of approximate quantities, survey control diagram and tabulation, geometric data, demolition plan, proposed roadway centerline, flowlines, curb, gutter, sidewalk, drainage infrastructures (pipes, inlets, manholes, etc.) plans; centerline profile, flow line profile as needed; cross section at the edge of each driveway and identified improvements to the walkway or other improvements with sufficient details and information for bidding and construction purposes.
8. Provide project special provisions if CDOT's standards and specifications are not sufficient.

C. Surveying Service

1. Obtain signed permission to enter private property.
2. Provide topographical survey that is sufficient for the design of roadway and drainage improvements.
3. The horizontal and vertical accuracy shall be at 1/10 foot for landscape areas and 1/100 foot for hardscape areas.
4. Obtain intersection configurations and cross-sections. Survey shall be extended at least 200 feet at each leg.
5. Copies of all survey field notes, maps, electronic drawing files, etc., shall be furnished to the County.
6. The survey shall contain all necessary information to design drainage, curb, gutter, driveway and sidewalk improvements for those areas indicated in the exhibits.
7. Show locations of all utilities on the plans.
8. Establish at least two (2) temporary benchmarks / control points with elevations on Adams County Datum for each street. Locations shall be at opposite ends of the area to be improved and in an area where potential disturbance will be minimal.

D. Geotechnical Engineering

1. Provide field sampling and testing of existing pavements and soils necessary for proper pavement design as per the CDOT Pavement Design Manual.
2. Perform boring and subsurface geotechnical investigations for structure selection reports.
3. Provide testing results used in the design process that are certified by a professional engineer.
4. Provide pavement rehabilitation alternatives and recommendations.

5. Provide pavement thickness design analysis including alternative pavement sections.
6. Provide engineering geology plan sheets.

D. Drainage Engineering

Hydrology - The study, analysis, review and design of hydrology sufficient to provide information for storm sewer design and / or runoff calculations for West 60<sup>th</sup> Place. The Consultant shall provide the following information:

1. Collect historical drainage data including drainage studies and master drainage plans.
2. Establish drainage basin data.
3. Select run-off parameters and predict peak flows using existing studies and methods including flood history.
4. Provide calculations including computer modeling of hydrologic analysis.

Hydraulic - The Consultant shall provide analysis, review and design services for subsurface storm sewer, primarily related to stormwater drainage. This includes:

1. Locate and address flood, drainage and erosion problem areas.
2. Furnish the design, size, and location of storm sewer and other drainage facilities.
3. Furnish stormwater management plans and reports which include erosion and sediment control plans that meet Adams County Stormwater Quality Regulations.
4. Prepare all necessary plans or profiles for the drainage improvements as needed.
5. Furnish design and sizing calculations including computer modeling.
6. Prepare hydraulic analyses and reports.

The Consultant shall be responsible to ensure that all personnel proposed under this RFP are qualified through training, experience, and appropriate certification for the tasks assigned and shall have a working knowledge of Adams County's standard practices.

The Consultant shall conform to all applicable federal, state, and county regulations.

A general "notice to proceed" will be given for each specific assignment upon completion of a "Not To Exceed" Cost Estimate, including the timeframe in which to complete the work and include staff availability in the proposal.

**ATTACHMENT:**  
Project Location Map

<b>CONSULTANT EVALUATION – SCORING FORM</b>	
<b>Panel Member:</b>	<b>Max. Score</b>
<b>Project Team/ Consultant:</b>	<b>10</b>
1) If the prime firm cannot provide some services for the project in house, they should use of subconsultants on the approved RFQ list unless the sub consultants had been listed in your RFQ proposal and successful on the past projects.	
Comments:	
<b>Rates of Services</b>	<b>20</b>
1) Evaluated firm's rates for personnel on an hourly basis 2) Evaluated sub-consultant's rates for personnel on an hourly basis including reimbursable expenses 3) Evaluated the project cost based on the project approach	
Comments:	
<b>Work Plan</b>	<b>25</b>
1) Firm demonstrated clear understanding of the project goals. 2) Project Approach 3) Schedule for delivery	
Comments:	
<b>Total Score</b>	





**ADAMS COUNTY**  
**COLORADO**

**ADAMS COUNTY, COLORADO**  
**PROPOSAL FORM**  
**2013.152 ENGINEERING SERVICES FOR**  
**THE 2014 STREETS PAVING PROGRAM**  
**PROPOSAL SIGNATURE PAGE**

**VENDOR'S STATEMENT**

I have read and fully understand all the special conditions herein set forth in the foregoing paragraphs, and by my signature set forth hereunder, I hereby agree to comply with all said special conditions as stated or implied. In consideration of the above statement, the following proposal is hereby submitted.

WE THE UNDERSIGNED HEREBY ACKNOWLEDGE RECEIPT OF

Addenda #\_\_\_\_ Addenda #\_\_\_\_ Addenda #\_\_\_\_

If None, Please write NONE.

\_\_\_\_\_  
COMPANY NAME DATE

\_\_\_\_\_  
TYPE OF ENTITY (CORPORATION,  
GENERAL PARTNERSHIP, ETC.)

\_\_\_\_\_  
TAX IDENTIFICATION NUMBER

\_\_\_\_\_  
STATE OF INCORPORATION,  
IF APPLICABLE

\_\_\_\_\_  
ADDRESS

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
CITY, STATE, ZIP CODE

\_\_\_\_\_  
PRINTED SIGNATURE

\_\_\_\_\_  
TELEPHONE NUMBER

\_\_\_\_\_  
FAX NUMBER or EMAIL ADDRESS

\_\_\_\_\_  
COUNTY  
(Corporate Officer/Manager/General or  
Seal - If Proposal is by a Corporation)

\_\_\_\_\_  
TITLE  
Registered Agent, or General or Managing Partner)