

**REQUEST FOR COUNCIL ACTION**

**SUBJECT:** 5600 West 6300 South to 7000 South (F-0172(20)0

**SUMMARY:** Approve a Local Government Contract Modification between the Utah Department of Transportation (UDOT), Transportation Engineering Alliance (T E A) Group and West Jordan City to increase funding by \$141,603.41 for Construction Engineering Management services for the 5600 West 6300 South to 7000 South project for the total contract amount not to exceed \$588,665.14.

**FISCAL IMPACT:** Funds are available in the Capital Roads Account. Charge to City funds is \$9,586.55, or 6.77% of the \$141,603.41 request.

**STAFF RECOMMENDATION:**

Staff recommends approval of the Local Government Contract Modification to increase funding by \$141,603.41 for Construction Engineering Management services for the 5600 West 6300 South to 7000 South, for an amount not to exceed \$588,665.14.

**MOTION RECOMMENDED:**

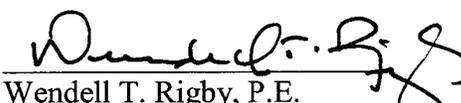
"I move to adopt Resolution No. 15-168 authorizing the Mayor to execute the Local Government Contract Modification to increase funding by \$141,603.41 for Construction Engineering Management services for the 5600 West 6300 South to 7000 South, for an amount not to exceed \$588,665.14.

Roll Call vote required

**Prepared by:**

  
David Murphy, P.E.  
CIP Manager

**Reviewed by:**

  
Wendell T. Rigby, P.E.  
Director of Public Works

**Reviewed as to Legal Sufficiency:**

  
Darien Alcorn  
Acting City Attorney

**Recommended by:**

  
Bryce Haderlie  
Interim City Manager

**BACKGROUND DISCUSSION:**

Due to West Jordan requested change orders, third party utility coordination, Federal Buy America certification and inclement weather, the hours and tests estimated at the beginning of the 5600 West (6200 South to 7000 South) project by TEA group were insufficient to cover the amount of the actual tests and supervision required over the life of the project. This contract modification is expected to cover the additional testing and inspection required by UDOT regulations for the construction management portion of the project.

**Attachments:**

Resolution

Local Government Contract Modification

THE CITY OF WEST JORDAN, UTAH  
A Municipal Corporation

RESOLUTION NO. 15-168

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A LOCAL  
GOVERNMENT CONTRACT MODIFICATION BETWEEN THE UTAH  
DEPARTMENT OF TRANSPORTATION, THE CITY OF WEST JORDAN  
AND T E A GROUP  
FOR 5600 WEST 6300 SOUTH TO 7000 SOUTH PROJECT

Whereas, the City Council of the City of West Jordan has reviewed the attached Local Government Contract Modification between the City of West Jordan, Utah Department of Transportation (UDOT) and T E A Group (a copy of which is attached as **Exhibit A**) for additional construction engineering management services for the 5600 West 6300 South to 7000 South Project, in an amount not-to-exceed \$141,603.41; and

Whereas, the proposed contract modification between the City of West Jordan, UDOT and T E A Group for additional construction engineering management services for the 5600 West 6300 South to 7000 South Project, in an amount not-to-exceed \$141,603.41, has been reviewed; and

Whereas, the City Council of the City of West Jordan has determined that the attached Local Government Contract Modification between the City of West Jordan, UDOT and T E A Group for an amount not-to-exceed \$141,603.41 is acceptable for the purpose of construction engineering management services for the 5600 West 6300 South to 7000 South Project.

NOW, THEREFORE, IT IS RESOLVED BY THE CITY COUNCIL OF WEST JORDAN, UTAH:

Section 1. After approval as to legal form by the City Attorney, the Mayor is hereby authorized and directed to execute the Local Government Contract Modification between the City of West Jordan, UDOT and T E A Group for construction engineering management services on the 5600 West 6300 South to 7000 South Project, in an amount not-to-exceed \$141,603.41.

Section 2. This Resolution shall take effect immediately.

Adopted by the City Council of West Jordan, Utah, this 25<sup>th</sup> day of August 2015

\_\_\_\_\_  
Kim V. Rolfe  
Mayor

ATTEST:

\_\_\_\_\_  
MELANIE S. BRIGGS  
City Recorder

**RESOLUTION NO. 15-168**

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A LOCAL  
GOVERNMENT CONTRACT MODIFICATION BETWEEN THE UTAH  
DEPARTMENT OF TRANSPORTATION, THE CITY OF WEST JORDAN  
AND PROJECT ENGINEERING CONSULTANTS, LTD  
FOR THE REDWOOD ROAD & 8200 SOUTH PROJECT**

Voting by the City Council

"AYE"

"NAY"

Jeff Haaga

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\_\_\_\_\_

Judy Hansen

\_\_\_\_\_

\_\_\_\_\_

Chris McConnehey

\_\_\_\_\_

\_\_\_\_\_

Chad Nichols

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\_\_\_\_\_

Sophie Rice

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\_\_\_\_\_

Ben Southworth

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Mayor Kim V. Rolfe

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**UDOT CONSULTANT SERVICES  
LOCAL GOVERNMENT CONTRACT MODIFICATION**

STATE OF UTAH  
UTAH DEPARTMENT OF TRANSPORTATION  
ENGINEERING SERVICES  
2013-2016 LG POOL (RPLOQ)  
COST PLUS FIXED FEE

EFFECTIVE DATE \_\_\_\_\_  
TRACKING NO. \_\_\_\_\_  
  
COOP NO. \_\_\_\_\_  
CONTRACT NO. **15-8487**  
MOD NO. **1**

**Consultant:** T E A Group Transportation Engineering Alliance  
**Project No.:** F-0172(20)0  
**PIN Description:** 5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan  
**Job/Proj. No.:** 5307913C  
**PIN No.:** 8100  
**Work Discipline:** Construction Engineering Management

This Modification is to be attached and made part of Contract No. 15-8487 between West Jordan City referred to as the LOCAL AUTHORITY, and T E A Group Transportation Engineering Alliance, referred to as CONSULTANT, and as approved by the Utah Department of Transportation, referred to as DEPARTMENT.

It has been determined that contract modifications are required to complete the work specified by this Contract. The CONSULTANT agrees to the modifications as specified below.

**CONTRACT MODIFICATIONS**

- Exhibit A - The "Services Provided by the CONSULTANT" contained in "Attachment C" to the Contract is changed.
- Exhibit B - The fixed fee amount, overhead rate, or hourly wages in "Attachment D, Fees" of the Contract is revised.
- Exhibit B - The maximum disbursement from "Attachment D, Fees" to the Contract is increased by \$141,603.41 for a new total of \$588,665.14.
- Exhibit C - The termination date for the Contract is extended to May 27, 2016.
- Exhibit D - Insurance.
- Other:

The parties hereto agree to abide by all provisions of the original Contract as well as the provisions of this and any previous contract modifications.

IN WITNESS WHEREOF, they sign and cause this Contract Modification to be executed.

CONSULTANT - T E A Group Transportation Engineering Alliance

UTAH DEPARTMENT OF TRANSPORTATION

By:   
Title: President  
Date: 7/24/15

By:   
Title: Engineer for Preconstruction  
Date: 7-21-15

LOCAL AUTHORITY - West Jordan City

DEPARTMENT Comptroller's Office

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

By: \_\_\_\_\_  
Title: Contract Administrator  
Date: \_\_\_\_\_

**Contract No. 15-8487 Mod. No. 1**

**EXHIBIT A**

**Scope of Services**

The Scope of Services is expanded to allow for additional work as requested by Peter S. Tang, Region 2, in the memorandum dated July 13, 2015 on Page 3 of this Exhibit.

For further details, see Pages 2 through 16 of this Exhibit.



# Contract Approval Memo

Memo Printed on: July 13, 2015 11:24 AM



PM Approval Date: **July 13, 2015**

UDOT PM: Peter S. Tang

The Project Manager has reviewed and approved the contract/modification documents: Executive Summary, Work Plan, QC/QA Plan and Checklist, Staffing Plan, Work Schedule, and Cost Proposal.

## PROJECT INFORMATION

PIN: 8100  
 Project No.: F-0172(20)0  
 Job/Proj: 5307913C  
 PIN Description: 5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan

## CONTRACT INFORMATION

CS Admin: Devon Tonks  
 Contract No.: 15-8487 Construction Engineering Management Service  
 Mod No.: 1 Accelerated Schedule, Utility Coordination & Change Orders  
 Expiration Date: **May 27, 2016**  
 Contract/Mod Amount: **\$141,603.41**  
 Fee Type: COST PLUS FIXED FEE  
 Selection Method: POOL - GE / LG (RPLOQ)  
 Period: 2013-2016 GE / LG  
 Phase: CONSTRUCTION ENGINEERING  
 Disciplines: CONSTRUCTION ENGINEERING MANAGEMENT

## CONTACTS

### Consultant

T E A GROUP TRANSPORTATION ENGINEERING  
 Darren Rosenstein  
 9025 SOUTH 1300 EAST  
 SANDY, UT 84094

### Local Government

West Jordan City  
 Greg Davenport  
 8000 S REDWOOD RD  
 WEST JORDAN, UT 84088

(801) 569-5077  
 GREGD@WJORDAN.COM



# TEA GROUP TRANSPORTATION ENGINEERING ALLIANCE

Prime

## UDOT CMS Contract Executive Summary

Contract Number:	158487	Mod:	1		
Project Number:	F-0172(20)0	PIN:	8100	UDOT Primary Contact:	Peter S. Tang
PIN Description:	5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan				

### Brief Description

- During the Preconstruction and Construction phases of the project, the anticipated construction schedule, scope of work, project accelerations, and shift durations all significantly increased. This resulted in an increased workload for our CEM staff. Some of the factors that led to the creation of this MOD are as follows:
  - Extended Preconstruction duration from our estimated 60 days to the actual 105 days
  - Additional 3rd Party Utility coordination & meetings
  - The addition of the Additive Bid Items
  - Assistance with Public Involvement while Horrock's contract was being negotiated.
  - Extended peak construction duration. We originally budgeted for a 154 calendar peak duration, the contractor will now work an estimated 196 days. This is an additional additional 42 Calendar Days (6 weeks) than we originally budgeted for.
  - A total of 16 Change Requests totaling over \$450,000 in additional construction work was added to the project.
  -
- Original Brief Description - Transportation Engineering Alliance (TEA Group) will provide CEM services for all aspects of the **5600 West; 6300 South to 7000 South Project**. The services will include staffing the project with a resident engineer, office staff, inspecting and testing staff required to perform general construction over-site. TEA Group will conduct a preconstruction meeting with the contractor, attend weekly construction meetings and perform construction inspection of all construction activities including but not limited to: traffic control, maintenance of traffic, materials quality assurance, project accounting, PDBS, ProjectWise, progress payment, and preparation of documentation & certifications for project close out.

## Project Team

TEA Group is the sole consultant on this contract.

## Assumptions

### ASSUMPTIONS

- o TEA Group has received the contractor schedule and the planned construction duration for both segment #1 and Segment #2 combined is 170 Calendar Days. Substantial completion is anticipated on or before July 16th at which point our construction management responsibilities will be finalized and we will start the closeout process.
  
- o Our estimated hours detailed in this MOD were derived from total hours worked and the weekly averages of each employee. Hours delegated may vary based on actual construction days/hours worked.

## Phasing

### PHASING

- TEA Group NTP to January 5<sup>th</sup>, 2015 - Finalize PS&E Review & Preconstruction Planning.
- Preconstruction meeting was held January 5<sup>th</sup>, 2015.
- January 6<sup>th</sup>, 2015 to February 6<sup>th</sup>, 2015 & Phase #1 was constructed
- January 6<sup>th</sup>, 2015 to July 15<sup>th</sup>, 2015 Full Construction is underway (*Contractor worked on both Phase #1 & Phase #2 work between 1/6/2015 and 2/6/2015*).
- July 16<sup>th</sup>, 2015 - Substantial Completion Achieved
  - o July 16<sup>th</sup>, 2015 to August 15<sup>th</sup>, 2015 - 1<sup>st</sup> Phase of Closeout working towards Physical Completion
- August 15<sup>th</sup>, 2015 - Physical Completion is Achieved
  - o August 15<sup>th</sup>, 2015 to September 15<sup>th</sup>, 2015 - 2<sup>nd</sup> Phase of Closeout - Preparation of all files for submittal to Region 2 Contract Specialist, Materials Engineer, and District Engineer.
- September 15<sup>th</sup>, 2015 - Final Acceptance is Achieved
- September 15<sup>th</sup>, 2015 to October 15<sup>th</sup>, 2015 files are prepared for submittal to the FHWA and UDOT Central.

## Fee Type

Cost + Fixed Fee

# TEA GROUP TRANSPORTATION ENGINEERING ALLIANCE

Prime

## UDOT CMS Contract Work Plan

Contract Number:	158487	Mod:	1		
Project Number:	F-0172(20)0	PIN:	8100	UDOT Primary Contact:	Peter S. Tang
PIN Description:	5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan				

### Activity: 85C

The MOD for the Preconstruction Activity is necessary due to the extended duration of the preconstruction phase, the extensive 3<sup>rd</sup> party utility coordination effort, the incorporation of all of the additive bid items into the project, and our assistance with the Public Involvement activity while Horrocks contract was being negotiated.

#### 85C Pre-Construction Review

##### Plan Review

- Specs - TEA Groups proposed team will conduct internal meetings to thoroughly review the project specifications in an effort to identify potential constructability issues and implement management practices that will minimize negative impacts to the public.
- Quantities - During our in-house plan reviews, we will evaluate the proposed bid item(s) and quantities in an effort to identify innovative construction techniques that will promote cost savings for our clients while ensuring quality and efficiency.
- Assist in Utility Coordination - During both the PS&E phase and construction phase of the project, Key members of TEA Group's staff will assist UDOT in communicating and coordinating with the Utility companies in an effort to minimize public impacts and maintain the construction schedule.
- Advertising activities
  - Field calls during advertising - During the advertising phase of the project, TEA Group's Engineers and inspection team will take field calls.
  - Conduct pre-bid meeting - Once the design phase of the project is complete, we will coordinate, schedule and conduct a pre-construction meeting with the contractor, utility companies, and UDOT representatives will be invited to attend. This meeting will address all beneficial adjustments made during the PS&E phase, coordinate all utility work, address partnering expectations and lay the groundwork for the remainder of the project.

### Activity: 87C

The additional costs for the Construction Management Activity are due to the increased construction duration, acceleration of daily construction activities, extended length of each shift, the addition of periodic weekend work, and the addition of 16 change order requests totaling over \$450,000 in additional construction. The hours represented in this

MOD were derived using actual hours worked as of 5/1/2015 and forecasting remaining hours required from the weekly average for each employee.

#### 87C Construction Management

- Change Orders - TEA Group will first attempt to mitigate all Change Order work and use innovative problem solving in an effort to avoid the need for a formal Change Order. In the event that a formal Change Order is unavoidable, TEA Group will coordinate with the contractor to clearly define the scope of work and negotiate hard in order to receive a fair price for the work that needs to be performed.
- RFI's - All RFI's will be immediately addressed and continuously tracked using the project's Google Doc System. All approved project team members will be able log on and view RFI's as they are generated and track each RFI's progress to the eventual resolution.
- Coordination / Weekly Meetings - TEA Group will coordinate and conduct a weekly construction coordination meeting throughout the duration of construction.
- Owner - All project owners and key stakeholders will be invited to attend weekly meetings. TEA Group will coordinate with the project team throughout the week and add all pertinent information to each week's agenda for formal discussion.
- Contractor - The contractor will be required to attend each weekly meeting. TEA Group will request that the contractor provide the project team with a 2 week look-ahead schedule that will be thoroughly reviewed in each meeting. TEA Group will coordinate with the project team throughout the week and add all pertinent information to each week's agenda for formal discussion.
- Partnering - During the weekly construction coordination meeting - TEA Group will also coordinate and conduct an informal partnering meeting and provide partnering evaluation surveys on a bi-monthly basis in an effort to track our partnering progress.
- MOT Review - Prior to construction the contractor will be required to submit a complete Traffic Control and MOT plan. These plans will be reviewed by Darren Rosenstein and sent to the Region 1 Traffic Engineers for formal acceptance. MOT and Traffic control will be inspected and monitored on a daily basis as construction progresses. Our team of inspectors and field engineers are all certified traffic control technicians under the new 2013 UDOT requirements and possess the knowledge and experience required to maintain safety.
- Third Party Coordination Utility - During Construction, Key members of TEA Group's staff will assist UDOT and the contractor in communicating and coordinating with the Utility companies in an effort to minimize public impacts and maintain the construction schedule.

- o LG - During construction, TEA Group will serve as an extension of WJC, WVC, and UDOT Region 2's construction Management staff. Keeping them informed with all pertinent information as construction progresses. Local Government representatives will be invited to attend the weekly construction coordination and partnering meetings throughout the life of the project in an effort to keep all members of the project team well informed and actively involved. Other stakeholders - Similar to the approach mentioned above, TEA Group will keep all other stakeholders actively involved and continuously informed.
- o Submittal Reviews - TEA Group's staff will collect review and file all submittal reviews required by the project's special provisions and the 2012 UDOT Standard Specifications.
- o CPM Schedule Review - Prior to the beginning of construction, the contractor will be required to submit a Baseline CPM schedule for review. This baseline will be reviewed by Darren Rosenstein and any issues or scheduling errors will be notes and sent to the contractor for revision.
- o Coordination with PI (Horrocks & WJC) - Throughout construction, TEA Group will coordinate with the project appointed Public Involvement Managers. In addition, all PIMs will be invited to attend our weekly construction coordination meetings.
- o Review Structures Shop Drawings - All structure & Shop drawings will be collected and reviewed prior to the contractor starting on these items of work.
- o Obtain & Review as-built drawings - As construction progresses, TEA Group engineers and inspectors will maintain a master copy of "As Built" drawings that will be copied and submitted to UDOT Construction once construction is complete.

**Activity: 89C**

The additional costs for the Project Administration Activity are due to the increased construction duration, acceleration of daily construction activities, extended length of each shift, the addition of periodic weekend work, the addition of 16 change order requests totaling over \$450,000 in additional construction, and the use of (18) subcontractors on the project (4 of which are DBE subs). These items of work will increase the documentation and submittal requirements and increase the amount of labor required to build a complete file.

89C Project Administration

- Project Documentation
  - Set up and maintain files - Throughout construction TEA Group will build and maintain all project files in hard copy format. Once the project is complete and ready to submit for final closeout, all project documentation, test results, visual inspections and quantity tracking sheets will be neatly filed in a clear format and submitted to the Region 2 Contract Specialist for archiving purposes.
  - ProjectWise - Upon completion, all project files will be uploaded and filed on ProjectWise for easy access and archive purposes.
- Project Account (PDBS)
  - Partial Pay Estimates / Quantities - All Partial Pay estimates and quantities will be tracked and synced with the prime contractor on a daily basis. Key LG and UDOT stakeholders will be able to log on to our Google Docs system and get up to the day accounting and budget details as the project progresses. Once quantities are confirmed and verified, they will be promptly entered into UDOT's PDBS system for formal tracking and eventual payment.
  - Prepare and submit final estimates - Once all work is considered satisfactorily complete and all required documentation has been received, TEA Group's administrative staff will proceed with the final estimate, reducing retention to subcontractors and processing a final estimate for closeout.
  - Monthly status of time reports - Contract time will be tracked through the use of UDOT's Project Wise system and monthly progress reports will have the accurate weather entered and will be circulated for signatures immediately following each calendar month that the project remains open.
- Document Control
  - Certification - All certifications required by the 2012 UDOT Standard Specifications and the project's specific specifications will be requested, verified and properly filed according to UDOT's preferred filing system for Highway Construction Projects.
  - Pay Item Documentation - All pay item(s) that require certifications, submittals, and visual inspections will be addressed. No payment will be made for items that are not adequately tracked in the field, verified for accuracy and properly certified, required by the 2012 UDOT Standard Specifications and the project's specific specifications will be requested, verified and properly filed according to UDOT's preferred filing system for Highway Construction Projects.
- Civil Rights
  - Employee Interviews - TEA Group will conduct all required Employee Interviews in the field as construction progresses.
  - EEO / Labor Compliance - TEA Group will collect all required EEO & Civil Rights documentation required and verify compliance with the Civil Rights requirements set forth by the FHWA and UDOT respectively.
  - DBE / WBE - TEA Group will work closely with the contractor in an effort to ensure that all DBE / WBE commitments and goals for the project are met. Including DBE/WBE subcontractor's overall load of work, subcontractor payments, CUF interviews, submittals, certifications and agreements.

Sub-contract coordination - TEA Group will receive all subcontract agreements and review them for accuracy and compliance prior to submitting them to the department for final approval.

**Activity: 91C**

The additional costs for the Field Inspection Activity are due to the increased construction duration, acceleration of daily construction activities, extended length of each shift, the addition of periodic weekend work, and the addition of 16 change order requests totaling over \$450,000 in additional construction. The hours represented in this MOD were derived using actual hours worked as of 5/1/2015 and forecasting remaining hours required from the weekly average for each employee.

**91C Field Inspection**

- At grade inspection - Our proposed team of field engineers, inspectors, surveyors and materials testing technicians are fully certified to perform all field testing and inspection services required under the project's proposed scope of work.
- MOT monitoring - MOT and Traffic control will be inspected and monitored on a daily basis as construction progresses. Our team of inspectors and field engineers are all certified traffic control technicians under the new 2013 UDOT requirements and possess the knowledge and experience required to maintain safety.
- Environmental Compliance - Environmental Controls, SWPPP, and BMPs will be inspected and monitored on a daily basis as construction progresses. These inspections will be documented on a daily basis and additional inspections will be made following all significant weather events (i.e. Rain > ½ "). These inspection reports will be maintained in the project file and all deficiencies will immediately be brought to the attention of the Prime Contractor for corrective action.

- Field documentation
  - Daily reports - Our team of field engineers and field inspectors will inspect and document all of the daily construction activities as they happen. All materials placed, installation procedures and general construction activities will be documented on UDOT approved forms and archived into PDBS for review and archive purposes.
  - 348's and 138's - Our team of inspectors and field engineers are all certified to inspect and test the gradation and compaction of major soils such as Granular Borrow, Borrow, and Untreated Base Course, etc. These tests will be conducted at the time of placement and documented and tracked on UDOT approved forms.
  - Visual inspection reports - All construction activities and bid items that are placed during construction will be inspected and monitored according to UDOT Standard & Special Specifications and
  - Collect and assemble weight tickets - All weight tickets and quantity tracking tickets will be collected in the field at time of placement. These tickets will be submitted to the project office for tracking, materials testing and payment purposes.
- Safety Compliance - TEA Group considers safety a top priority and will properly manage promote and maintain safety throughout construction. When an issues or circumstance arises that our team considers to be unsafe, construction activities will be required to cease until the issues is properly addressed and work can resume in a efficient and safe manner.
- Accident Prevention - MOT and Traffic control will be inspected and monitored on a daily basis as construction progresses. Our team of inspectors and field engineers are all certified traffic control technicians under the new UDOT requirements and possess the knowledge and experience required to maintain safety.

**Activity: 93C**

The additional costs for the Materials Testing Activity are due to the extended construction duration, accelerated construction schedule, extended length of each shift, the addition of periodic weekend work, and the addition of 16 change order requests totaling over \$450,000 in additional construction, coordination & communication of all materials testing results with consultant oversight - WCEC, extensive retesting & sampling of unsuitable UTBC material that required visits to Kilgore's source, multiple paired testing, and coordination with supplier's material QC manager.

93C Materials Testing

- Acceptance Testing - TEA Group's staff is familiar with the MS&TR requirements and has all the resources required to conduct these tests accordingly. The results of these tests will be documented on UDOT/FHWA approved forms and filed in the project file according to the Standard procedures set forth by UDOT.
- Field Sampling & Testing - Our proposed team of field engineers, inspectors, surveyors and materials testing technicians are fully certified to perform all field testing and inspection services required under the project's proposed scope of work.
- Lab Testing - Our team is fully equipped with the proper field and laboratory testing equipment required to address all materials testing requirements during construction of the project. Newel White will serve as our team's Lab Manager and is experienced and knowledgeable with all state and federal materials testing requirements. TEA Group has a fully AASHTO accredited AMRL certified mobile laboratory that is fully equipped with a high capacity of materials testing and inspection resources that can be mobilized the project site.
- Off site Sampling & Testing
  - Batch Plant - TEA Group will collect all applicable Sand & Agg reports and Batch Plant & Scale Certifications.
  - Casting Yards - TEA Group will collect a qualified list of precast suppliers, 28 day strength reports and all other pertinent information recorded on the R-256 reports.
  - Material Source - All material sources will be verified and approved according to the requirements set forth in the MS&TR.
- Lab Management Activities - Our team is fully equipped with the proper field and laboratory testing equipment required to address all materials testing requirements during construction of the project. Newel White will serve as our team's Lab Manager and is experienced and knowledgeable with all state and federal materials testing requirements. TEA Group has a fully AASHTO accredited AMRL certified mobile laboratory that is fully equipped with a high capacity of materials testing and inspection resources that can be mobilized the project site.
  - Documentation - All materials testing documentation will be recorded and tracked on the applicable UDOT / FHWA approved forms and properly filed in accordance with UDOT's requirements.
  - Lab Results - All lab results and materials testing documentation will be recorded and tracked on the applicable UDOT / FHWA approved forms and properly filed in accordance with UDOT's requirements. These will also be available for distribution to all project team members upon request.
  - Internal QC - A bi-weekly internal audit will be performed to ensure that proper documentation is being kept throughout the project. The audit will include a review of submittals, inspection reports, MSTR frequency & compliance, Buy America, ADA compliance and certifications. These audits will serve as a QC check of ongoing CEM practices to facilitate a "seamless" close out process.
  - Coordination with RE - TEA Group's Resident Engineer Darren Rosenstein, P.E. will maintain close communication and coordination with the lab personnel, inspection team and materials testing staff. In the event that issues arise, TEA Group will conduct internal meetings in an effort to resolve the issue.

**Activity: 97C**

The additional costs for the QC/QA Activity are due to the increased construction duration, extended length of each shift,

the addition of weekend work, and the incorporation of the additional mill and fill work on 6200 south.

#### 97C QC/QA Control

- Internal & External reviews & audits - A bi-weekly internal audit will be performed by Wesley Brackenbury to ensure that proper documentation is being kept throughout the project. The audit will include a review of submittals, inspection reports, MSTR frequency & compliance, Buy America, ADA compliance and certifications. These audits will serve as a QC check of ongoing CEM practices to facilitate a "seamless" close out process. In addition, TEA Group is prepared to facilitate any and all Independent Audits that UDOT and the FHWA deems necessary. This includes independent reviews of the complete project files, including all Civil Rights documentation, accounting ledgers, material certifications, MS&TR compliance, visual inspections and closeout documentation.
- LG Federal-aid Oversight activities
  - Federal compliance - TEA Group will set up our proven "Buy America" tracking and verification process that has proven to satisfy the strict Buy America requirements set forth by UDOT and the FHWA. In addition, TEA Group is prepared to facilitate any and all Independent Audits that UDOT and the FHWA deems necessary. This includes independent reviews of the complete project files, including all Civil Rights documentation, accounting ledgers, material certifications, MS&TR compliance, visual inspections and closeout documentation.

#### **Activity: 99C**

The additional costs for the Project Closeout Activity are due to the increased construction duration, OJT goal and DBE goal Change Orders, the addition of 16 change order requests totaling over \$450,000 in additional construction, and the use of (18) subcontractors on the project (4 of which are DBE subs), 1444 tracking, collection, & filing, FE participation in final walk through and punch list inspection, field assistance with finalizing quantities, overrun/underrun statements, FE & Lead Inspector compiling a "hard copy" set of red line drawings for WJC, and coordination & preparation of all materials files, project files, and Civil Rights requirements for WCEC's consultant oversight final review.

#### 99C Construction Closeout

- Final Forms - TEA Group's administrative staff will prepare and complete (with signatures) all final forms and documentation required to properly close the project.
- Box preparation - Throughout construction TEA Group will build and maintain all project files in hard copy format. Once the project is complete and ready to submit for final closeout, all project documentation, test results, visual inspections and quantity tracking sheets will be uploaded to ProjectWise for archiving purposes.
- Closeout Checklist - As part of the Final Forms preparation, the project files will be built and tracked using the final closeout checklist
- Construction Closeout to RCS - Once all project file documentation has been received and verified, all project files will be submitted to the UDOT Region 2 Contract Specialist for review and eventual closeout.
- Review project documentation & make recommendations to finalize project - Key members of TEA Group's team will perform independent audits of the project files, including all Civil Rights documentation, accounting ledgers, material certifications, MS&TR compliance, visual inspections and closeout documentation.
- Independent audit - In addition to the internal review audit criteria mentioned above, TEA Group is prepared to facilitate any and all Independent Audits that UDOT and the FHWA deems necessary. This includes independent reviews of the complete project files, including all Civil Rights documentation, accounting ledgers, material certifications, MS&TR compliance, visual inspections and closeout documentation.
- Post-construction conference - Once construction has been completed, TEA Group will coordinate and conduct a post construction conference to which all project stakeholders, UDOT Professionals, and FHWA representatives will be invited to attend.

TEA GROUP TRANSPORTATION ENGINEERING ALLIANCE

Prime

UDOT CMS Staffing Plan

Contract Number:	15-8487	Mod:	1
Project Number:	F-0172(20)0	PIN:	8100
PIN Description:	5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan		
		UDOT Primary Contact:	Peter S. Tang

Employee Name	Contract Job Title	Education/Certification	License Number	Hours	Current Rate	Proposal Rate	Approval Date
ROSENSTEIN, DARREN	RESIDENT ENGINEER	B.S CIVIL ENG.; CEMT;	UT-296978-2203	114	\$75.00	\$75.00	10/07/2014
MORGAN, TOMMY	OFFICE MGMT / PROJECT CONTROLS	B.S. ECON; CEMT; PART 1,2,&3		151	\$42.00	\$38.50	10/07/2014
BRACKENBURY, WESLEY	SR. MATERIALS TECHNICIAN	AGTT,ASTT,CSST,DTT,EBTT ,SMD,LB		316	\$34.00	\$32.00	10/07/2014
EVANS, GUY	FEILD ENGINEER	IQP; PARTNERING; CEMT		230	\$35.00	\$32.00	10/07/2014
BEST, DAVID	ENGINEERING TECHNICIAN IV	A.D; WAQTC#161734; IQP; PARTNE		-320	\$30.00	\$30.00	10/07/2014
CRIDDLE, JARIN	ENGINEERING TECHNICIAN IV	A.D. WAQTC #162028, IQP, PART		1,469	\$24.00	\$23.00	10/07/2014
ESKELSEN, DAVID QUINN	FIELD/LAB TECHNICIAN	WAQTC-161583; IQP; PARTNERING		250	\$22.50	\$22.50	10/07/2014
HARVEY, SALLY	ADMIN. ASSISTANT - BILLING	AD - SLCC		112	\$22.00	\$20.00	10/07/2014
OLSEN, PARKER	ENGINEERING TECHNICIAN	IQP; SRDT; CTT;		0	\$20.00	\$20.00	10/07/2014
HALLING, CALLIE	OFFICE ASSISTANT	CEMT; PARTNERING		217	\$30.00	\$20.00	10/07/2014
BETTINSON, JON	ENGINEERING TECHNICIAN III	161921; IQP; PARTNERING		-862	\$22.00	\$20.00	10/07/2014
HODGES, MARCUS	ENGINEERING TECHNICIAN II	IQP, CTT, SRDTT, PART		5	\$18.00	\$18.00	NTP
CHRISTIANSON, CHANDLER	ADMINISTRATIVE SUPPORT	BS PSHYCOLOGY (2015)		20	\$18.00	\$17.00	10/07/2014
BEEDE, AUSTIN	FIELD TECH / SAMPLE RUNNER			60	\$16.00	\$16.00	NTP
Total Hours for TEA GROUP TRANSPORTATION ENGINEERING ALLIANCE:				1,762			
<b>Pay Rate Variance Explanation</b>							
TEA Group will stick with the Pay Rates that were established in the original contract.							

07/20/2015 01:02 PM

**UDOT CMS Staffing Plan**

<b>Contract Number:</b> 15-8487	<b>Mod:</b> 1
<b>Project Number:</b> F-0172(20)0	<b>PIN:</b> 8100
<b>PIN Description:</b> 5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan	
<b>UDOT Primary Contact:</b> Peter S. Tang	

**Alternate Staff**

Employee Name	Contract Job Title	Education/Certification	License Number	Hours	Current Rate	Proposal Rate	Approval Date
STEWART, LARRY	ENGINEERING TECHNICIAN II	IQP, CTT, SRD TT, PART		0	\$25.00	\$18.00	10/07/2014
PURDIE, CHARLES	ENGINEERING TECHNICIAN II	IQP, CTT, SRD TT		0	\$25.00	\$18.00	10/07/2014
GREAVES, CAMERON	ENGINEERING TECHNICIAN III	IQP, CS TT, SRD TT, PART.		0	\$18.00	\$18.00	10/07/2014
HODGES, MARCUS	ENGINEERING TECHNICIAN II	IQP, CTT, SRD TT, PART		0	\$18.00	\$18.00	10/07/2014

**Contract No. 15-8487 Mod. No. 1**

**EXHIBIT B**

**Fees**

The maximum disbursement is increased from \$447,061.73 by \$141,603.41 for a new total of \$588,665.14 as negotiated and approved by Peter S. Tang, Region 2, in the memorandum dated July 13, 2015 on Page 3 of Exhibit A. The fixed fee amount is increased by \$14,032.77 for a new total of \$54,233.57. The overhead rate in this modification is the same as the base contract's overhead rate. The base contract was written with a FIXED overhead rate.

For further details, see Pages 2 through 4 of this Exhibit.

<b>Contract/Modification</b>	<b>Amount</b>	<b>NTP Date</b>	<b>Notes</b>
Base Contract	\$447,061.73	10/7/2014	Construction Engineering Management Service
Modification No. 1	\$141,603.41	Pending	Accelerated Schedule, Utility Coordination & Change Orders
<b>Total</b>	<b>\$588,665.14</b>		

## UDOT CMS Cost Proposal

<b>Contract Number:</b>	15-8487	<b>Mod:</b>	1		
<b>Project Number:</b>	F-0172(20)0	<b>PIN:</b>	8100	<b>UDOT Primary Contact:</b>	Peter S. Tang
<b>PIN Description:</b>	5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan				
Labor Costs					
Employee Name	Contract Job Title	Hours	Proposal Rate	Labor Cost	
BEEDE, AUSTIN	FIELD TECH / SAMPLE RUNNER	60	\$16.00	\$960.00	
BEST, DAVID	ENGINEERING TECHNICIAN IV	-320	\$30.00	-\$9,600.00	
BETTINSON, JON	ENGINEERING TECHNICIAN III	-862	\$20.00	-\$17,240.00	
BRACKENBURY, WESLEY	SR. MATERIALS TECHNICIAN	316	\$32.00	\$10,112.00	
CHRISTIANSON, CHANDLER	ADMINISTRATIVE SUPPORT	20	\$17.00	\$340.00	
CRIDDLE, JARIN	ENGINEERING TECHNICIAN IV	1,469	\$23.00	\$33,787.00	
ESKELSEN, DAVID QUINN	FIELD/LAB TECHNICIAN	250	\$22.50	\$5,625.00	
EVANS, GUY	FEILD ENGINEER	230	\$32.00	\$7,360.00	
HALLING, CALLIE	OFFICE ASSISTANT	217	\$20.00	\$4,340.00	
HARVEY, SALLY	ADMIN. ASSISTANT - BILLING	112	\$20.00	\$2,240.00	
HODGES, MARCUS	ENGINEERING TECHNICIAN II	5	\$18.00	\$90.00	
MORGAN, TOMMY	OFFICE MGMT / PROJECT CONTROLS	151	\$38.50	\$5,813.50	
OLSEN, PARKER	ENGINEERING TECHNICIAN	0	\$20.00	\$0.00	
ROSENSTEIN, DARREN	RESIDENT ENGINEER	114	\$75.00	\$8,550.00	
Total Hours:		1,762			
Total Direct Labor:				\$52,377.50	
Overhead:			143.56%	\$75,193.14	
Total Direct Labor plus Overhead:				\$127,570.64	
Fixed Fee:			11.00%	\$14,032.77	
Burdened Labor Cost:				\$141,603.41	
Total Contract Cost:				<b>\$141,603.41</b>	

**UDOT CMS Hours Derivation**

<b>Contract Number:</b> 15-8487	<b>Mod:</b> 1
<b>Project Number:</b> F-0172(20)0	<b>PIN:</b> 8100
<b>UDOT Primary Contact:</b> Peter S. Tang	
<b>PIN Description:</b> 5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan	

Employee Name	85C	87C	89C	91C	93C	97C	99C	Total
ROSENSTEIN, DARREN	14	100	0	0	0	0	0	114
MORGAN, TOMMY	51	100	0	0	0	0	0	151
EVANS, GUY	0	150	0	0	0	0	80	230
BRACKENBURY, WESLEY	0	0	0	0	128	128	60	316
BEST, DAVID	0	0	0	-320	0	0	0	-320
CRIDDLE, JARIN	28	0	0	1,411	0	0	30	1,469
ESKELSEN, DAVID QUINN	31	0	219	0	0	0	0	250
HARVEY, SALLY	0	0	112	0	0	0	0	112
BETTINSON, JON	0	0	0	-842	0	0	-20	-862
HALLING, CALLIE	0	0	157	0	0	0	60	217
OLSEN, PARKER	0	0	0	0	0	0	0	0
HODGES, MARCUS	5	0	0	0	0	0	0	5
CHRISTIANSON, CHANDLER	0	0	0	0	0	0	20	20
BEEDE, AUSTIN	0	0	0	0	60	0	0	60

### UDOT CMS Hours Derivation

<b>Contract Number:</b>	15-8487	<b>Mod:</b>	1
<b>Project Number:</b>	F-0172(20)0	<b>PIN:</b>	8100
<b>PIN Description:</b>	5600 WEST; 6300 SOUTH TO 7000 SOUTH, West Jordan		
	<b>UDOT Primary Contact:</b> Peter S. Tang		

	85C	87C	89C	91C	93C	97C	99C	Total
Firm Activity Totals:	129	350	488	249	188	128	230	1,762
Transaction Activity Totals:	129	350	488	249	188	128	230	1,762

**Contract No. 15-8487 Mod. No. 1**

**EXHIBIT C**

**Contract Date**

The contract completion date for the project is extended to May 27, 2016. The CONSULTANT is required to finish all work by the contract completion date. If additional time is required to complete this project, the CONSULTANT will be required to use the "Contract Time Extension Modification Form" located on the DEPARTMENT website.

For further details regarding the schedule, see Pages 2 through 2 of this Exhibit

# PIN#8100 - TEA GROUP SCHEDULE

PROJECT # F077E280  
 PROJECT MANAGER: PETER TANG, P.E.  
 CLIENT: PETER TANG, P.E.

ACTIVITY	August-14	September-14	October-14	November-14	December-14	January-15	February-15	March-15	April-15	May-15	June-15	July-15	August-15	September-15	October-15	November-15	December-15	January-16	February-16	
93-C- PRECONSTRUCTION REVIEW																				
93-C- CONSTRUCTION MANAGEMENT																				
93-C- PROJECT ADMINISTRATION																				
93-C- FIELD INSPECTION																				
93-C- MATERIALS TESTING																				
93-C- CONSTRUCTION CLOSURE																				
TOTAL DAYS IN MONTH	31	30	31	30	31	31	28	31	30	31	30	31	31	30	31	30	31	31	31	28
RUNNING TOTAL DAYS	31	61	92	122	153	184	212	243	273	304	334	365	396	426	457	487	518	549	580	608

**Contract No. 15-8487 Mod. No. 1**

**EXHIBIT D**

**Insurance**

As stated in the Contract Attachment B Standard Terms and Conditions, services to be provided by the CONSULTANT under this contract are required to be covered by insurance. The CONSULTANT'S insurer must be authorized to do business in Utah and must meet the specified A.M. Best rating or better at the time this contract is executed. Insurance shall be maintained in force until all activities which are required by this contract or as changed by contract modification are completed and accepted by the DEPARTMENT.

Insurance	Waived	Expiration Date	Insurance Carrier	Policy Number	Each Occurrence Limit	General Aggregate Limit	Additional Endorsement
AUTOMOBILE LIABILITY	N	6/1/2016	PROGRESSIVE	03749102-0	\$1,000,000	\$0	N
EXCESS/UMBRELLA LIABILITY	N	8/19/2015	HARTFORD CASUALTY INSURANCE CO	72SBANX1799	\$3,000,000	\$3,000,000	N
GENERAL LIABILITY	N	8/19/2015	HARTFORD CASUALTY INSURANCE CO	72SBANX1799	\$2,000,000	\$4,000,000	Y
PROFESSIONAL LIABILITY	N	4/7/2016	UNDERWRITERS AT LLOYDS LONDON	14LFSPL0134	\$1,000,000	\$2,000,000	N
WORKERS COMPENSATION	N	1/5/2016	SENTINEL INSURANCE LTD	72WECGAA539	\$1,000,000	\$0	N