PROFESSIONAL SERVICES AGREEMENT
TIGER Grant First/Last Mile Connections Design

This Professional Services Agreement is entered into and made effective as of the ___ day of _____, 2018 (the "Effective Date") by and between UTAH TRANSIT AUTHORITY**,** a public transit district organized under the laws of the State of Utah ("UTA"), and CIVIL SCIENCE, INC., a Utah Corporation ("Consultant") (UTA and the Consultant are collectively referred to herein as the "Parties" or individually as a "Party").

RECITALS

A. UTA desires to engage professional services for the design of civil works components of UTA's TIGER Grant First/Last Mile Connections Program (the "Program"). The scope of work hereunder is more fully described in the attached Exhibit "A", Scope of Services.

B. On February 13, 2018, UTA issued Request for Qualifications Number 18-2399TP (the "RFQ") requesting interested parties to submit a Statement of Qualifications ("SOQ") to perform the services described in the RFQ.

C. Upon evaluation of the SOQs submitted in response to the RFQ, UTA selected Consultant as the preferred entity with whom to negotiate a contract to perform the Work.

D. Consultant is qualified and willing to perform the Work as set forth in Exhibit "A", Scope of Services.

AGREEMENT

NOW, THEREFORE, in accordance with the foregoing Recitals, which are incorporated herein by reference, and for and in consideration of the mutual covenants and agreements hereafter set forth, the mutual benefits to the Parties to be derived herefrom, and for other valuable consideration, the receipt and sufficiency of which the Parties acknowledge, it is hereby agreed as follows:

ARTICLE 1.0
Definitions

As used throughout this Contract, the following terms shall have the meanings set forth below:

1.1 The term "Change Order" shall mean a written modification to this Contract (the form of which shall be prescribed by UTA) pursuant to which the Parties shall mutually agree upon and effect any additions, deletions, or variations in the Work (as such Work is initially defined by this Contract). The scope of modifications may include, without limitation, changes in the: (i) consideration paid to Consultant, (ii) deliverables required to be furnished by Consultant; (iii) method, manner or scope of the Work; or (iv) required performance completion milestones or other Contract schedule requirements.

1.2 The term "Claims" shall have the meaning set forth in Section 16.1 of this Contract.

1.3 The term "Consultant's Project Manager/Design Manager" shall mean Andy Kitchen.

1.4 The term “Consultant’s SOQ” shall mean the SOQ submitted by Consultant in response to RFQ No. 18-2399TP.

1.5 The term “Contract” shall mean this Professional Services Agreement (inclusive of amendments and Change Orders hereto), together with all attached exhibits, all documents incorporated by reference pursuant to Article 26 hereof, and all drawings, reports, studies, industry standards, legal requirements and other items referenced in the foregoing documents.

1.6 The term “Indemnitees” shall mean the UTA parties set forth in Section 16.1 of this Contract.

1.7 The term “Scope of Services” shall mean the services described in or reasonably implied by this Contract including, but not limited to, Exhibit “A” (and all Contract requirements associated with such services).

1.8 The term “UTA’s Project Manager” shall mean Richard Miller, or his successor as appointed or designated in writing by UTA.

1.9 The term “Work” shall mean any activities undertaken or required to be undertaken by Consultant in conjunction with the Scope of Services or Contract.

ARTICLE 2.0
Description of Services

2.1 Consultant shall perform all Work as set forth in the Scope of Services. Except for items (if any) which this Contract specifically states will be UTA-provided, Consultant shall furnish all the labor, material and incidentals necessary for the Work.

2.2 Consultant shall perform all Work under this Contract in a professional manner, using at least that standard of care, skill and judgment which can reasonably be expected from similarly situated professionals.

2.3 All Work shall conform to generally accepted standards in the industry. Consultant shall perform all Work in compliance with applicable laws, regulations, rules, ordinances, permit constraints and other legal requirements including, without limitation, those related to safety and environmental protection.

2.4 Consultant shall furnish only qualified personnel and materials necessary for the performance of the Work.

2.5 When performing Work, Consultant shall comply with all work site rules including, without limitation, those related to safety and environmental protection.

ARTICLE 3.0
Day-to-Day Management of the Work

3.1 Consultant’s Project Manager/Design Manager will be the day-to-day contact person for Consultant and will be responsible for all Work, as well as the coordination of such Work with UTA.

3.2 UTA’s Project Manager will be the day-to-day contact person for UTA, and shall act as the liaison between UTA and Consultant with respect to the Work. UTA's Project Manager shall also coordinate any design reviews, approvals or other direction required from UTA

with respect to the Work.

ARTICLE 4.0
Progress of the Work

4.1 Consultant shall prosecute the Work in a diligent and continuous manner and in accordance with all applicable notice to proceed, critical path schedule and guaranteed completion date requirements set forth in (or developed and agreed by the Parties in accordance with) the Scope of Services.

4.2 Consultant shall conduct regular meetings to update UTA's Project Manager regarding the progress of the Work including, but not limited to, any unusual conditions or critical path schedule items that could affect or delay the Work. Such meetings shall be held at intervals mutually agreed to between the Parties.

4.3 Consultant shall deliver monthly progress reports and provide all Contract submittals and other deliverables as specified in the Scope of Services.

4.4 Any drawing or other submittal reviews to be performed by UTA in accordance with the Scope of Services are for the sole benefit of UTA, and shall not relieve Consultant of its responsibility to comply with the Contract requirements, nor shall any review or approval by UTA be deemed a waiver of UTA's right to require compliance with the Contract.

4.5 UTA will have the right to inspect, monitor and review any Work performed by Consultant hereunder as deemed necessary by UTA to verify that such Work conforms to the Contract requirements. Any such inspection, monitoring and review performed by UTA is for the sole benefit of UTA, and shall not relieve Consultant of its responsibility to comply with the Contract requirements.

4.6 UTA shall have the right to reject Work which fails to conform to the requirements of this Contract. Upon receipt of notice of rejection from UTA, Consultant shall (at its sole expense and without entitlement to equitable schedule relief) promptly re-perform, replace or re-execute the Work so as to conform to the Contract requirements.

4.7 If Consultant fails to promptly remedy rejected Work as provided in Section 4.6, UTA may (without limiting or waiving any rights or remedies it may have) perform necessary corrective action using other contractors or UTA's own forces. Any costs reasonably incurred by UTA in such corrective action shall be chargeable to Consultant.

ARTICLE 5.0
Period of Performance

5.1 This Contract shall commence as of the Effective Date. This Contract shall remain in full force and effect until all Work is completed in accordance with this Contract, as reasonably determined by UTA. The rights and obligations of UTA and Consultant under this Contract shall at all times be subject to and conditioned upon the provisions of this Contract.

ARTICLE 6.0
Consideration

6.1 For the performance of the Work, UTA shall pay Consultant in accordance with the budget and rates set forth in Exhibit B.

6.2 All costs contemplated to be reimbursed pursuant to Exhibit B shall only be reimbursable to the extent allowed under 2 CFR Part 200 Subpart E.

6.3 The full design budget estimate set forth in Exhibit B shall consistute a not-to-exceed amount for purposes of this Contract (the "Not to Exceed Amount"). Unless and until UTA has notified Consultant by written instrument designated or indicated to be a Change Order that the Not to Exceed Amount has been increased (which notice shall specify a revised Not to Exceed Amount), UTA shall not be obligated to make payments which would cause the total compensation paid to Consultant to exceed the Not to Exceed Amount.

6.4 UTA may withhold and/or offset from payment any amounts reasonably reflecting: (i) items of Work that have been rejected by UTA in accordance with this Contract; (ii) invoiced items that are not payable under this Contract; or (iii) amounts Consultant owes to UTA under this Contract.

ARTICLE 7.0
Contract Changes

7.1 UTA's Project Manager or designee may, at any time, by written order designated or indicated to be a Change Order, direct changes in the Work including, but not limited to, changes:

A. In the Scope of Services;

B. In the method or manner of performance of the Work; or

C. In the schedule or completion dates applicable to the Work.

To the extent that any change in Work directed by UTA causes an actual and demonstrable impact to: (i) Consultant's cost of performing the work; or (ii) the time required for the Work, then (in either case) the Change Order shall include an equitable adjustment to this Contract to make Consultant whole with respect to the impacts of such change.

7.2 A change in the Work may only be directed by UTA through a written Change Order or (alternatively) UTA's expressed, written authorization directing Consultant to proceed pending negotiation of a Change Order. Any changes to this Contract undertaken by Consultant without such written authority shall be at Consultant's sole risk. Consultant shall not be entitled to rely on any other manner or method of direction.

7.3 Consultant shall also be entitled to an equitable adjustment to address the actual and demonstrable impacts of "constructive" changes in the Work if: (i) subsequent to the Effective Date of this Contract, there is a material change with respect to any law or other requirement set forth in this Contract; or (ii) other conditions exist which materially modify the magnitude, character or complexity of the Work from what should have been reasonably assumed by Consultant based on the information included in (or referenced by) this Contract. In order to be eligible for equitable relief for "constructive" changes in Work, Consultant must give UTA's Project Manager or designee written notice containing:

(a) a written statement of facts constituting the basis for the Change,

(b) the relevant Contract provisions,

(c) an explanation of how the direction(s), circumstance(s) or condition(s) at issue deviate from the Contract's requirements,

(d) mitigation measures taken to date and

(e) as applicable, a cost estimate and/or preliminary time impact analysis.

Consultant must provide such notice of a "constructive" change and assert its right to an equitable adjustment under this Section within ten (10) days after Consultant becomes aware (or reasonably should have become aware) of the facts and circumstances giving rise to the "constructive" change. Consultant's failure to provide timely written notice as provided above, including the information that Consultant is required to submit, shall constitute a waiver of Consultant's rights with respect to such claim.

7.4 As soon as practicable, Consultant must provide UTA with information and documentation reasonably demonstrating the cost and schedule impacts associated with any change or alleged change in Work compensable under Section 7.1 or 7.3. Equitable adjustments will be made via Change Order. Any dispute regarding the Consultant's entitlement to an equitable adjustment (or the extent of any such equitable adjustment) shall be resolved in accordance with Article 20 of this Contract.

ARTICLE 8.0
Invoicing Procedures and Records

8.1 Consultant shall submit invoices to UTA's Project Manager for work satisfactorily completed. Invoices shall be submitted on a monthly basis.. Invoices shall be provided in the form specified by UTA and shall itemize the invoiced work on project-by-project basis. Reasonable supporting documentation demonstrating Consultant's entitlement to the requested payment must be submitted with each invoice. UTA shall have the right to disapprove (and withhold from payment) specific line items of each invoice to address non-conforming Work or invoicing deficiencies. Approval by UTA shall not be unreasonably withheld. UTA shall have the right to offset from payment amounts reasonably reflecting the value of any claim which UTA has against Consultant under this Contract. Payment for all invoice amounts not specifically disapproved by UTA shall be made to Consultant within thirty (30) calendar days of invoice submittal.

8.2 Any invoice or other request for payment submitted in accordance with Section 8.1 shall constitute Consultant's certification that such request is accurate and that Consultant has no reason to believe that any information contained therein is falsely represented.

ARTICLE 9.0
Ownership of Materials

9.1 All data including, but not limited to, maps, drawings, sketches, renderings, software, hardware, and specifications, including the original thereof, developed by Consultant as a part of its Work under this Contract (collectively and generically referred to in this Article as "Work Product") are the property of UTA. All Work Product must be delivered to UTA no later than the completion of the Work and prior to final payment by UTA. In the event this Contract is terminated prior to completion of the Work, then Consultant shall transmit

all Work Product completed or in-process as of the date of termination.

9.2 UTA shall not be construed to be the owner of any intellectual property contained in the Work Product that was owned or created by Consultant outside of the scope of this Contract. However, with respect to such intellectual property of Consultant, Consultant hereby grants UTA a non-exclusive perpetual license to use such intellectual property to the full extent reasonably necessary for UTA's use and enjoyment of the Work Product furnished under this Contract.

ARTICLE 10.0
Subcontracts

10.1 Consultant shall give advance written notification to UTA of any proposed subcontract (not indicated in Consultant's SOQ) negotiated with respect to the Work. UTA shall have the right to approve all subcontractors, such approval not to be withheld unreasonably.

10.2 No subsequent change, removal or substitution shall be made with respect to any such subcontractor without the prior written approval of UTA.

10.3 Consultant shall be solely responsible for making payments to subcontractors, and such payments shall be made within thirty (30) days after Consultant receives corresponding payments from UTA.

10.4 Consultant shall be responsible for and direct all Work performed by subcontractors.

10.5 Consultant agrees that no subcontracts shall provide for payment on a cost-plus-percentage-of-cost basis. Consultant further agrees that all subcontracts shall comply with all applicable laws.

ARTICLE 11.0
Key Personnel

11.1 Consultant shall provide the Key Personnel as indicated in Consultant's SOQ (or other applicable provisions of this Contract), and shall not change any of said Key Personnel without the express written consent of UTA.

11.2 In submitting a request to UTA to substitute Key Personnel, Consultant shall provide the name and qualifications of the proposed substitute with such request. Any proposed substitute must meet the minimum requirements for the Key Personnel position that are stated in the RFQ.

ARTICLE 12.0
Suspension of Work

12.1 UTA may, at any time, by written order to Consultant, require Consultant to suspend, delay, or interrupt all or any part of the Work called for by this Contract. Any such order shall be specifically identified as a "Suspension of Work Order" issued pursuant to this Article. Upon receipt of such an order, Consultant shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of further costs allocable to the Work covered by the order during the period of Work stoppage.

12.2 If a Suspension of Work Order issued under this Article is canceled, Consultant shall resume Work as mutually agreed to in writing by the Parties hereto.

12.3 If a Suspension of Work Order is not canceled and the Work covered by such order is terminated for the convenience of UTA, reasonable costs (subject to the limitations and exclusions set forth in Article 13.0) incurred as a result of the Suspension of Work Order shall be considered in negotiating the termination settlement.

12.4 If the Suspension of Work causes an increase in Consultant's cost or time to perform the Work, UTA's Project Manager or designee shall make an equitable adjustment to compensate Consultant for the additional costs or time, and modify this Contract by Change Order.

12.5 If Consultant believes that a Suspension of Work Order may interfere with the Work in a manner that jeopardizes safety, Consultant shall immediately inform UTA of the manner in which safety may be affected. In such event, Consultant shall await confirmation of the Suspension of Work Order from UTA before Consultant ceases the Work that is the subject of the notification from Consultant.

ARTICLE 13.0
Termination for Convenience; Termination for Cause and Default Remedies

13.1 UTA shall have the right to terminate this Contract at any time by providing written notice to Consultant. If this Contract is terminated for convenience, UTA shall pay Consultant its costs and a reasonable profit on work performed up to the effective date of the termination notice, plus costs reasonably and necessarily incurred by Consultant to effect such termination. UTA shall not be responsible for anticipated profits based on Work not performed as of the effective date of termination or any other consequential damages alleged to result from such termination. Consultant shall promptly submit a termination claim to UTA. If Consultant has any property in its possession belonging to UTA, Consultant will account for the same, and dispose of it in the manner UTA directs.

13.2 Subject to the exclusions in Sections 13.3 and 16.12, herein, if Consultant materially fails to perform any of its obligations under this Contract, and such failure is not cured or a cure initiated to the satisfaction of UTA within ten (10) days after receipt of written notice from UTA, UTA may, at its discretion:

A. Terminate this Contract (in whole or in part) for default and complete the Work using other contractors or UTA's own forces, in which event Consultant shall be liable for all incremental costs so incurred by UTA;

B. Pursue other remedies available under this Contract (regardless of whether the termination remedy is invoked); and/or

C. Except to the extent limited by this Contract, pursue other remedies available at law.

Upon receipt of a termination notice as provided above, Consultant shall (i) immediately discontinue all Work affected (unless the notice directs otherwise); (ii) deliver to UTA all data, drawings and other deliverables, whether completed or in process; and (iii) if Consultant has any property in its possession belonging to UTA, account for the same, and dispose of it in the manner UTA directs. Consultant shall submit a final invoice for all services performed and expenses incurred in accordance with the terms and conditions of this Contract up to the effective date of termination. If UTA has incurred damages in connection with the cancellation of this Contract, UTA shall calculate termination

damages payable under this Contract, shall offset such damages against Consultant's final invoice, and shall invoice Consultant for any additional amounts payable by Consultant (to the extent termination damages exceed the invoice). All rights and remedies provided in this Article are cumulative and not exclusive.

13.3 The ten (10) day notice and opportunity to cure period in Section 13.2 shall not apply if the Contractor's default is due to its failure to satisfy any requirement concerning workplace safety or environmental compliance, or if Consultant's action(s) and/or omission(s) materially jeopardize safety. Any such violation shall be considered sufficient grounds for the immediate termination for cause of this Contract by UTA.

13.4 If UTA terminates this Contract for any reason, Consultant shall remain available, for a period not exceeding 90 days, to UTA to respond to any questions or concerns that UTA may have regarding the Work completed by Consultant prior to termination.

ARTICLE 14.0
Information, Records, and Reports; Audit Rights

14.1 Consultant shall retain all books, papers, documents, accounting records and other evidence to support any cost-based billings allowable under Exhibit B (or any other provision of this Contract). Such records shall include, without limitation, time sheets and other cost documentation related to the performance of labor services, as well as subcontracts, purchase orders, other contract documents, invoices, receipts or other documentation supporting non-labor costs. Consultant shall also retain other books and records related to the performance, quality or management of this Contract and/or Consultant's compliance with this Contract. Records shall be retained by Consultant for a period of at least six (6) years after completion of the Work, or until any audit initiated within that six-year period has been completed (whichever is later).

14.2 During the performance of this Contract and during the six-year period after completion of the Work, the records that Consultant is required to maintain as provided in Section 14.1 of the Contract shall be made available for audit and inspection by UTA and other authorized auditing parties including, but not limited to, the Federal Transit Administration. Copies of requested records shall be furnished to UTA or designated audit parties upon request.

14.3 Consultant agrees that it shall flow-down (as a matter of written contract) the requirement to maintain records provided in Section 14.1 and the audit and inspection rights specified in Section 14.2 to all subcontractors utilized in the performance of the Work at any tier.

ARTICLE 15.0
Findings Confidential

15.1 Any documents, reports, information, or other data and materials available to or prepared or assembled by Consultant or subcontractors under this Contract are considered confidential and shall not be made available to any person, organization, or entity by Consultant without consent in writing from UTA.

15.2 It is hereby agreed that the following information is not considered to be confidential:

A. Information already in the public domain;

B. Information disclosed to Consultant by a third party who is not under a

confidentiality obligation;

C. Information developed by or in the custody of Consultant before entering into this Contract;

D. Information developed by Consultant through its work with other clients; and

E. Information required to be disclosed by law or regulation including, but not limited to, subpoena, court order or administrative order.

ARTICLE 16.0

General Indemnification and Insurance

16.1 Consultant shall protect, release, defend, indemnify and hold harmless UTA and its trustees, officers, employees and agents (hereinafter collectively "Indemnitees") against and from any and all claims, demands, suits, losses, costs and damages of every kind and description, including attorneys' fees and/or litigation expenses (hereinafter collectively "Claims"), brought or made against or incurred by any of the Indemnitees resulting from or arising out of the negligent acts or omissions (actual or alleged) of Consultant, its subcontractors or anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable in conjunction with this Contract or any Work performed hereunder. If an employee of Consultant, a subcontractor, anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable has a claim against UTA or another Indemnitee, Consultant's indemnity obligation set forth above will not be limited by any limitation on the amount of damages, compensation or benefits payable under any employee benefit acts, including workers' compensation or disability acts.

16.2 Consultant shall procure and maintain until all of its obligations have been discharged, including any warranty periods under this Contract are satisfied, insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, his agents, representatives, employees or subcontractors. The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract. The Utah Transit Authority in no way warrants that the minimum limits contained herein are sufficient to protect the Consultant from liabilities that might arise out of the performance of the Work under this contract by the Consultant, its agents, representatives, employees or subcontractors and Consultant is free to purchase additional insurance as may be determined necessary.

16.3 Consultant shall provide coverage with limits of liability not less than those stated below. An excess liability policy or umbrella liability policy may be used to meet the minimum liability requirements provided that the coverage is written on a "following form" basis.

A. Occurrence type Commercial General Liability Insurance ISO CG001, with an edition date of 11-88 or later, covering the indemnity and other liability provisions of this Contract, with no exclusions of explosion, collapse or underground hazards. Policy should include bodily injury, property damage and broad form contractual liability coverage. Limits of liability shall not be less than as follows:

- General Aggregate: $4,000,000
- Products – Completed Operations Aggregate: $1,000,000
- Personal and Advertising Injury: $1,000,000
- Each Occurrence: $2,000,000

The policy shall be endorsed to include the following additional insured language: "The Utah Transit Authority shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Consultant, including completed operations."

B. Professional Liability (Errors & Omissions) insurance, which policy shall cover professional misconduct or lack of ordinary skill with the following limits and coverages:

Minimum Limits:

$1,000,000 each claim

$2,000,000 annual aggregate

In the event that the professional liability insurance required by this Contract is written on a claims-made basis, Consultant warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of three (3) years beginning at the time Work under this Contract is completed.

C. Automobile insurance covering bodily injury and property damage for any owned, non-owned, and hired automobile with limits not less than $2,000,000 combined single limit of coverage. The policy shall be endorsed to include the following additional insured language: “The Utah Transit Authority shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Consultant including automobiles owned, leased, hired or borrowed by the Consultant.”

D. Workers' Compensation insurance conforming to the appropriate states' statutory requirements covering all employees of Consultant, and any employees of its subcontractors, representatives, or agents as long as they are engaged in the work covered by this Contract; or, such subcontractors, representatives, or agents shall provide evidence of their own Worker's Compensation insurance. The policy shall also cover Employers’ Liability, with limits no less than as follows:

- Each Accident: $100,000
- Disease – Each Employee: $100,000
- Disease – Policy Limit: $500,000

The policy shall contain a waiver of subrogation against UTA. This requirement shall not apply when a consultant or subcontractor is exempt under UCA, AND when such consultant or subcontractor executes the appropriate waiver form.

16.4 On insurance policies where UTA is named as an additional insured, UTA shall be an additional insured to the full limits of liability purchased by the Consultant. Insurance limits indicated in this agreement are minimum limits. Larger limits may be indicated after Consultant's assessment of the exposure for this Contract; for its own protection and the protection of UTA. Consultant's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.

16.5 Each insurance policy required by the insurance provisions of this Contract shall provide the required coverage and shall not be suspended, voided or canceled except after thirty (30) days prior written notice has been given to the Utah Transit Authority, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to UTA at the notice addressed contained in this Contract.

16.6 Insurance is to be placed with insurers duly licensed or authorized to do business in the State and with an "A.M. Best" rating of not less than A-VII. UTA is no way warrants that the above-required minimum insurance rating is sufficient to protect the Consultant from potential insurer insolvency.

16.7 Consultant warrants that this Contract has been thoroughly reviewed by its insurance agent, broker or consultant, and that said agent/broker/consultant has been instructed to procure for Consultant the insurance coverage and endorsements required herein.

16.8 Consultant shall furnish UTA with certificates of insurance (ACORD form or equivalent approved by UTA) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. All certificates and any required endorsements are to be received and approved by UTA before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of Work under this Contract and remain in effect for the duration of the Contract, or in accordance with any longer term specified herein. Failure to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of contract. All certificates required by this Contract shall be sent directly to UTA at the notice address provided herein. The Utah Transit Authority project/contract number and project description shall be noted on the certificate of insurance. UTA reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time. DO NOT SEND CERTIFICATES OF INSURANCE TO THE UTAH TRANSIT AUTHORITY'S CLAIMS AND INSURANCE DEPARTMENT.

16.9 Consultant's certificate(s) shall include all subcontractors as additional insureds under its policies **or** subcontractors shall maintain separate insurance as determined by the Consultant, however, subcontractors' limits of liability shall not be less than $1,000,000 per occurrence / $2,000,000 aggregate. Subcontractors maintaining separate insurance shall name Utah Transit Authority as an additional insured on their policy. Blanket additional insured endorsements are not acceptable from subcontractors. Utah Transit

Authority must be scheduled as an additional insured on any subcontractor policies.

16.10 Any modification or variation from the insurance requirements in this Contract shall be made by Claims and Insurance Department or the Office of General Counsel, whose decision shall be final. Such action will not require a formal Contract amendment, but may be made by administrative action.

16.11 UTA, as a self-insured governmental entity, shall not be required to provide insurance coverage for the risk of loss to UTA premises and improvements or equipment owned by UTA. The foregoing shall not preclude UTA from obtaining any insurance it may deem appropriate.

16.12 The ten (10) day period for notice and opportunity to cure provided in Section 13.2 shall not apply to the requirements of this Article 16.0. Consultant's failure, or that of any of Consultant's subcontractors, to maintain the insurance required by this Contract, or to furnish proof of such coverage on demand by UTA, shall be considered sufficient grounds for the immediate termination for cause of this Contract by UTA.

ARTICLE 17.0
Other Indemnities

17.1 Consultant shall protect, release, defend, indemnify and hold harmless UTA and the other Indemnitees against and from any and all Claims of any kind or nature whatsoever on account of infringement or allegations of infringement relating to Consultant's performance under this Contract. If notified promptly in writing and given authority, information and assistance, Consultant shall defend, or may settle at its expense, any suit or proceeding against UTA so far as based on a claimed infringement and Consultant shall pay all damages and costs awarded therein against UTA due to such breach. In case any portion of the Work is in such suit held to constitute such an infringement or an injunction is filed that interferes with UTA's rights under this Contract, including the delivery and implementation of Consultant's services pursuant to this Contract, Consultant shall, at its expense and through mutual agreement between the UTA and Consultant, either procure for UTA any necessary intellectual property rights, or modify Consultant's services or deliverables such that the claimed infringement is eliminated.

17.2 Consultant shall: (i) protect, release, defend, indemnify and hold harmless UTA and the other Indemnitees against and from any and all liens or Claims made or filed against UTA or upon the Work or the property on which the Work is located on account of any labor performed or labor, services, and equipment furnished by subcontractors of any tier; and (ii) keep the Work and said property free and clear of all liens or claims arising from the performance of any Work covered by this Contract by Consultant or its subcontractors of any tier. If any lien arising out of this Contract is filed, before or after Work is completed, Consultant, within ten (10) calendar days after receiving from UTA written notice of such lien, shall obtain a release of or otherwise satisfy such lien. If Consultant fails to do so, UTA may take such steps and make such expenditures as in its discretion it deems advisable to obtain a release of or otherwise satisfy any such lien or liens, and Consultant shall upon demand reimburse UTA for all costs incurred and expenditures made by UTA in obtaining such release or satisfaction. If any non-payment claim is made directly against UTA arising out of non-payment to any subcontractor, Consultant shall assume the defense of such claim within ten (10) calendar days after

receiving from UTA written notice of such claim. If Consultant fails to do so, Consultant shall upon demand reimburse UTA for all costs incurred and expenditures made by UTA to satisfy such claim.

ARTICLE 18.0
Independent Contractor

18.1 Consultant is an independent contractor and agrees that its personnel will not represent themselves as, nor claim to be, an officer or employee of UTA by reason of this Contract. Consultant is responsible to provide and pay the cost of all of its employees' benefits.

ARTICLE 19.0
Prohibited Interest

19.1 No member, officer, agent, or employee of UTA during his or her tenure or for one year thereafter shall have any interest, direct or indirect, including prospective employment by Consultant in this Contract or the proceeds thereof without specific written authorization by UTA.

ARTICLE 20.0
Dispute Resolution

20.1 The Parties shall attempt to informally resolve all claims, counterclaims and other disputes through the escalation process described below. No Party may bring a lawuit to enforce any term of this Contract without first having exhausted the process set forth in this Article 20.0.

20.2 A disputed issue shall not be considered ripe, nor shall UTA have any obligation to participate in the Dispute Resolution proceedings herein until such time as Consultant has supplied to UTA all of the information required to be submitted by Section 7.3 and UTA has had a reasonable time to review such information.

20.3 The time schedule for escalation of disputes, including disputed requests for a Change Order, shall be as follows:

Level of Authority	Time Periods
1. UTA's Project Manager/Consultant's Project Manager/Design Manager	Ten business days after receipt by UTA of information required by Section 7.3
1. UTA's Second Level/Consultant's Second Level	Five business days after Level 1
2. UTA's Third Level/Consultant's Third Level	Five business days after Level 2

The Parties may, upon mutual agreement, extend or shorten any time period specified in this Section 20.3.

20.4 Unless otherwise directed by UTA's Project Manager, Consultant shall diligently

continue performance under this Contract while matters in dispute are pending.

20.5 If the dispute cannot be resolved informally in accordance with the escalation procedures set forth above, then either Party may commence litigation in accordance with the venue and law provisions of this Contract; provided, however, that the Party seeking to commence litigation has provided the information required to be submitted by Section 7.3. If mutually agreed, the Parties may also submit the dispute to arbitration or mediation, with the cost of such proceedings to be borne equally by the Parties.

ARTICLE 21
Successors and Assignees

21.1 Consultant shall not assign, sublet, sell, transfer, or otherwise dispose of any interest in this Contract without prior written approval of UTA, and any attempted transfer in violation of this restriction shall be void.

ARTICLE 22.0
Nonwaiver

22.1 No failure or waiver or successive failures or waivers on the part of either Party in the enforcement of any condition, covenant, or article of this Contract shall operate as a discharge of any such condition, covenant, or article, nor render the same invalid, nor impair the right of either Party to enforce the same for the breach in question or in the event of any subsequent breaches by the other Party.

ARTICLE 23.0
Notices or Demands

23.1 Any formal notice or demand to be given by one Party to the other shall be given in writing by one of the following methods: (i) hand delivered; (ii) deposited in the mail, properly stamped with the required postage; (iii) sent via registered or certified mail; or (iv) sent via recognized overnight courier service. All such notices shall be addressed as follows:

If to UTA:
Utah Transit Authority
ATTN: Teressa Pickett
669 West 200 South
Salt Lake City, UT 84101

with a required copy to:
Utah Transit Authority
ATTN: General Counsel
669 West 200 South
Salt Lake City, UT 84101

If to Consultant:
Civil Science
ATTN: Andy Kitchen
3160 W Clubhouse Drive
Lehi, UT 84043

23.2 Any such notice shall be deemed to have been given, and shall be effective, on receipt in hand at the notice address then applicable for the Party to which the notice is directed; provided, however, that refusal to accept delivery of a notice or the inability to deliver a notice because of an address change which was not properly communicated shall not defeat or delay the giving of a notice. Either Party may change the address at which such Party desires to receive written notice by providing written notice of such change to the

other Party.

23.3 Notwithstanding Section 23.1, the Parties may, through mutual agreement, develop alternative communication protocols to address change notices, requests for information and similar categories of communications.

ARTICLE 24.0
Contract Administrator

24.1 UTA's Contract Administrator for this Contract is Teressa Pickett, or designee. All questions and correspondence relating to the contractual aspects of this Contract should be directed to said Contract Administrator, or designee.

ARTICLE 25.0
General Provisions

25.1 Neither this Contract nor any interest herein may be assigned, in whole or in part, by either Party hereto without the prior written consent of the other Party, except that without securing such prior consent, either Party shall have the right to assign this Contract to any successor or to such Party by way of merger or consolidation or acquisition of substantially all of the entire business and assets of such Party relating to the subject matter of this Contract, provided that such successor shall expressly assume all of the obligations and liabilities of such Party under this Contract, and provided further, that such Party shall remain liable and responsible to the other Party hereto for the performance and observance of all such obligations.

25.2 This Contract shall be interpreted in accordance with the substantive and procedural laws of the State of Utah. Any litigation between the Parties arising out of or relating to this Contract will be conducted exclusively in federal or state courts in the State of Utah and Consultant consents to the jurisdiction of such courts.

25.3 The headings of the articles, clauses, and sections of this Contract are inserted for reference purposes only and are not restrictive as to content.

25.4 The Parties enter into this Contract for the sole benefit of the Parties, in exclusion of any third party, and no third party beneficiary is intended or created by the execution of this Contract.

25.5 Any provision of this Contract prohibited or rendered unenforceable by operation of law shall be ineffective only to the extent of such prohibition or unenforceability without invalidating the remaining provisions of this Contract.

25.6 This Contract shall constitute the entire agreement and understanding of the Parties with respect to the subject matter hereof, and shall supersede all offers, negotiations and other agreements with respect thereto.

25.7 Any amendment to this Contract must be in writing and executed by the authorized representatives of each Party.

25.8 This Contract may be executed in any number of counterparts and by each of the Parties hereto on separate counterparts, each of which when so executed and delivered shall be an original, but all such counterparts shall together constitute one and the same instrument. Any signature page of this Contract may be detached from any counterpart and reattached

to any other counterpart hereof. The electronic transmission of a signed original of this Contract or any counterpart hereof and the retransmission of any signed facsimile transmission hereof shall be the same as delivery of an original.

25.9 Provisions of this Contract intended by their nature and content to survive termination of this Contract shall so survive including, but not limited to, Articles 9, 13, 14, 15, 16, 17, 19, 20 and 25.

ARTICLE 26.0
Incorporated Documents

26.1 UTA's RFQ No. 18-2399TP, including all federal clauses and other attachments, and Consultant's SOQ in response to the RFQ (including all federal and other certifications made in or pursuant to the SOQ), are hereby incorporated into and made a part of this Contract, except to the extent that such documents were changed or altered by subsequent negotiations as indicated by the terms of this Contract, including Exhibits A, B and C.

ARTICLE 27.0
Insurance Coverage Requirements for Consultant Employees

27.1 The following requirements apply to the extent that: (i) the initial value of this Contract is equal to or in excess of $2 million; (ii) this Contract, with subsequent modifications, is reasonably anticipated to equal or exceed $2 million; (iii) Consultant has a subcontract at any tier that involves a sub-consultant that has an initial subcontract equal to or in excess of $1 million; or (iv) any subcontract, with subsequent modifications, is reasonably anticipated to equal or exceed $1 million:

A. Consultant shall, prior to the effective date of this Contract, demonstrate to UTA that Consultant has and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5) for the Consultant's employees and the employee's dependents during the duration of this Contract.

B. Consultant shall also demonstrate to UTA that subcontractors meeting the above-described subcontract value threshold have and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5) for the subcontractor's employees and the employee's dependents during the duration of the subcontract.

IN WITNESS WHEREOF, the Parties have made and executed this Contract as of the day and year first above written.

UTAH TRANSIT AUTHORITY:

By_____

W. Steve Meyer

Interim Director

By_____

Mary De Loretto

Acting VP of OCA

CIVIL SCIENCE, INC.:

By Kyle J. Comer

Name Kyle J. Comer

Title President

By_____

Name_____

Title_____

Fed ID# 87-0673476

Approved as to Form

_____

UTA Legal Counsel

UTA Project Code – 18-2399TP

Exhibit A - Scope of Services

UTA TIGER Grant
Civil Science Contract Assumptions and Scope of Work

General Assumptions

1. All project documents will be stored on UDOT's ProjectWise system.
2. The following project types are not included in CS's scope – Bike Parking, Bike Repair Stands, Bus Shelters, and Wayfindings. Design on these projects will be performed by others.
3. UTA will provide the information used by the Local Partners to develop the Concept Reports.
4. Plans will be developed in Microstation or AutoCAD format depending on the project needs (see Scope of Services for project by project details).
5. In general, design services are limited to providing the contactor with what is needed for construction. Information not relevant to construction (i.e. Record Document data) will typically not be included.
6. The structure designs (overhead pedestrian bridges, box culverts, retaining walls, and miscellaneous drainage structures) will be reviewed by UTA. UDOT may supplement these reviews, but the designs will not go through the UDOT Structures design approval process.
7. Design services for removing or mitigating hazardous materials is not included. Should design services for removing or mitigating hazardous materials be requested, these are grounds for contract modifications.
8. The Right-Of-Way for each project has been previously acquired. The available ROW (and amount obtained, if applicable) is sufficient to deliver each project.
9. Utility agreement coordination with be performed by UTA.
10. CS will coordinate traffic impacts during construction with the Contractor. The Contractor is ultimately responsible for Staging Plans, MOT plans, TC plans, access plans for businesses and residences, temporary signage plans, and truck routing plans, as needed.
11. All environmental clearances and commitments and the associated documents are complete. CS will not be required to perform any environmental services, including work related to possible soil contamination.
12. CS will provide estimated quantities to the Contractor and UTA Independent Cost Estimator. These are estimates based on the available information and design progression. Actual quantities used in the field are not the responsibility of CS.
13. CS will provide the Contractor with a survey control process document indicating survey methods, coordinate systems, and procedures used during design. Survey control in the field and construction staking will be provided by others.
14. Digital design files (CAD, surface, digital terrain files) can be provided to the Contractor to assist in construction. CS is not responsible for the use/reuse of this digital data. Differences may exist between digital files and hard copy deliverable documents. Hard document deliverable files govern.
15. As-built drawings will be assembled at the end of construction and will include the information provided by the Contractor, their subcontractors, UTA, or their representatives. CS will not verify the accuracy of any of this information. CS's role will be limited to reporting the given information on the drawings. CAD files in 2D AutoCAD format will be provided to the Local Partners following completion of each project.
16. The following projects will not require design efforts or field support from Civil Science – TOCo_BKL_1, TOCo_BKL_2, OGD_BKL_4

Schedule Assumptions

1. UTA is ultimately responsible for the Program schedule. Civil Science and its teaming partners will work with the Contractor to facilitate timely project execution.
2. Design cannot proceed until given formal Notice To Proceed from UTA. UTA will not issue Notice To Proceed until the Local Partner has provided its matching funds.
3. It is anticipated that the following projects will begin design starting upon Notice To Proceed (2018 FY Program):
    a. BOU_ADA_1, DRA_BKL_5, FAR_ADA_1, FAR_BKL_1, FAR_CWI_1, FAR_CWI_3, FAR_SWK_3, FAR_SWK_4, FAR_SWK_7, FAR_CWI_6, HER_BKL_8, MID_CWI_1, OGD_BKL_4, SOJ_BKL_2, SOJ_BKL_4, SOJ_BKL_5, SOJ_BKL_6, SOJ_BKL_7, SSL_MUP_2, SUCo_BKS_1
    b. The designs of these projects are assumed to be required for completion December 31, 2018.
4. It is anticipated that the following projects will begin design starting July 1, 2018 (2019 FY Program):
    a. LEH_OP_1, OGD_BKL_1, SLC_BKS_1, SLC_MUP_1, SAN_MUP_1
    b. The designs of these projects are assumed to be required for completion June 30, 2019.
5. It is anticipated that the following projects will begin design starting July 1, 2019 (2020 FY Program):
    a. MIL_SWK_1, PRO_OP_1, SLC_OP_1, WEJ_RRX_2
    b. The designs of these projects are assumed to be required for completion June 30, 2020.
6. It is anticipated that the following projects will begin design starting July 1, 2020 (2021 FY Program):
    a. WVC_BKL_5
    b. The designs of these projects are assumed to be required for completion June 30, 2021.
7. The preceding projects and corresponding start and dates are based on the current information available and are subject to change. Such changes will be discussed with UTA to determine if contract modifications are necessary.

Project/Task Specific Assumptions and Scope of Work

General Programmatic Tasks

Development of standard processes and documents includes the following:

- Standard bid items/M&P document – coordinated with Contractor
- Design QC/QA Plan
- Survey control document
- Standard program documents preparation (review process forms, QC process, reporting, field visit document, etc)
- Projectwise coordination

BOU_ADA_1

1. Administration:
    a. 2-week field support schedule
    b. Field Support

    c. One Local Partner Kick-Off Meeting (Design Manager) – Concept exhibits
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination
    g. No additional public involvement assumed in this scope of work
    h. Assume one trip to Local Partner Office (2 hour round trip)
2. Quality Control Program:
    a. No QC assumed for this project, except for documents provided for field support
3. Survey and Mapping:
    a. Topography collection for 3 pedestrian ramps needing additional design review
4. Develop Plans:
    a. No plan development assumed for design in this scope of work
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Design for 3 pedestrian ramps requiring additional design review
    b. Provide design exhibit for each ramp with proposed grades, slopes, and improvements
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. No reviews assumed for design in this scope of work
17. Construction Drawings & Specs:
    a. No drawings assumed for design in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, one modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. NO VE/Cost Savings assumed for this scope of work
19. Quantities:
    a. Provide final quantities support to Contractor, UTA

20. Design Services During Construction:
    a. Provide design technician in field to coordinate design for each ped ramp, provide support as needed:
        i. Utilize ped ramp standards
        ii. Complete field visit documentation form
        iii. Complete technical infeasibility form as needed
        iv. Assume design review of 10 ramps/day
    b. Assume no RFIs
    c. Assume no submittal reviews
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline of provided concept and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

DRA_BKL_5

1. Administration:
    a. 4-week design schedule
    b. Expedited Design
    c. One Local Partner Kick-Off Meeting (Design Manager) – Combined with 30% Design Review
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination
    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house combined with FAR_SWK_4
    h. Assume one trip to Local Partner Office (0.5-hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed design package
    b. One formal QA review of project
3. Survey and Mapping:
    a. Obtain and process aerial imagery for project scope of work – assume accessibility to UTA aerial imagery
    b. No other right of way analysis, survey, or topography is anticipated for this scope of work
4. Develop Plans:
    a. Site visit, photos
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager) – combined with other projects
    d. Concept preparation – utilize current concept drawings
    e. 30% Design – layout of striping, plan sheets preparation (40-scale, 3 sheets)
    f. Address 30% comments
    g. Finalize striping and signing design
    h. Prepare cover, notes sheets
    i. Update plan sheets, key map
    j. Typical section detail sheet
    k. No drainage facilities, sidewalk, curb and gutter, etc anticipated

5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. 30% Design Review Meeting – preparation and coordination – combined with Kick-off Meeting (Design Mgr)
    b. 100% Design Review Meeting – preparation and coordination – digital via email only (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes
        ii. Finalize detail sheet – 1 sheet
        iii. Finalize signing and striping sheets
        iv. Erosion control plans – not anticipated in this scope of work
        v. Demo and Removal – not anticipated in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, no modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work

    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept/30% level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. No field visit during construction anticipated
    b. No RFIs anticipated
    c. No submittal reviews anticipated
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

FAR_ADA_1

1. Administration:
    a. 2-week field support schedule
    b. Field Support
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial (from Task 4) – combined with all Farmington projects (FAR_ADA_1, FAR_BKL_1, FAR_CWI_1, FAR_CWI_3, FAR_SWK_7, FAR_CWI_6)
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination
    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house combined with other Farmington projects
    h. Assume one trip to Local Partner Office (2 hour round trip)
2. Quality Control Program:
    a. No QC assumed for this project, except for documents provided for field support
3. Survey and Mapping:
    a. Topography collection for 1 pedestrian ramp needing additional design review
4. Develop Plans:
    a. No plan development assumed for design in this scope of work
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Design for 1 pedestrian ramp requiring additional design review
    b. Provide design exhibit for ramp with proposed grades, slopes, and improvements

10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. No reviews assumed for design in this scope of work
17. Construction Drawings & Specs:
    a. No drawings assumed for design in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, one modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. NO VE/Cost Savings assumed for this scope of work
19. Quantities:
    a. Provide final quantities support to Contractor, UTA
20. Design Services During Construction:
    a. Provide design technician in field to coordinate design for each ped ramp, provide support as needed:
        i. Utilize ped ramp standards
        ii. Complete field visit documentation form
        iii. Complete technical infeasibility form as needed
    b. Assume no RFIs
    c. Assume no submittal reviews
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline of provided concept and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

FAR_BKL_1

1. Administration:
    a. 4-week design schedule
    b. Expedited Design
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial (from Task 4) – combined with all Farmington projects (FAR_ADA_1, FAR_BKL_1, FAR_CWI_1, FAR_CWI_3, FAR_SWK_7, FAR_CWI_6)
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination

    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house combined with FAR_SWK_4
    h. Assume one trip to Local Partner Office (2 hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed design package
    b. One formal QA review of project
3. Survey and Mapping:
    a. Obtain and process aerial imagery for project scope of work – assume accessibility to UTA aerial imagery
    b. No other right of way analysis, survey, or topography is anticipated for this scope of work
4. Develop Plans:
    a. Site visit, photos – combined with other Farmington projects
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend) – combined with other Farmington projects
    d. Concept preparation – utilize current concept drawings
    e. 30% Design – layout of striping, plan sheets preparation (40-scale, 3 sheets)
    f. Address 30% comments
    g. Finalize striping and signing design
    h. Prepare cover, notes, survey control sheets – combined with all Farmington projects
    i. Update plan sheets, key map
    j. Typical section detail sheet
    k. No drainage facilities, sidewalk, curb and gutter, etc anticipated
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations

15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr)
    b. 100% Design Review Meeting – preparation and attendance (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control (common for all Farmington projects)
        ii. Finalize detail sheet – 1 sheet
        iii. Finalize signing and striping sheets
        iv. Erosion control plans – not anticipated in this scope of work
        v. Demo and Removal – not anticipated in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, no modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept/30% level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. No field visit during construction anticipated
    b. No RFIs anticipated
    c. No submittal reviews anticipated
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

FAR_CWI_1

1. Administration:
    a. 4-week design schedule
    b. Expedited Design
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial (from Task 4) – combined with all Farmington projects (FAR_ADA_1, FAR_BKL_1, FAR_CWI_1, FAR_CWI_3, FAR_SWK_7, FAR_CWI_6)
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination

    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house combined with other Farmington projects
    h. Assume one trip to Local Partner Office (2 hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed design package
    b. One formal QA review of project
3. Survey and Mapping:
    a. Obtain and process aerial imagery for project scope of work – assume accessibility to UTA aerial imagery
    b. No other right of way analysis, survey, or topography is anticipated for this scope of work
4. Develop Plans:
    a. Site visit, photos – combined with other Farmington projects
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend) – combined with other Farmington projects
    d. Concept preparation – utilize current concept drawings
    e. 30% Design – layout of striping, plan sheets preparation (40-scale, 1 sheet)
    f. Address 30% comments
    g. Finalize striping and signing design
    h. Prepare cover, notes, survey control sheets – combined with all Farmington projects
    i. Update plan sheets, key map
    j. Typical section detail sheet
    k. No drainage facilities, sidewalk, curb and gutter, etc anticipated
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Two pedestrian ramps will be re-graded as part of the design
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations

15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr)
    b. 100% Design Review Meeting – preparation and attendance (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control (common for all Farmington projects)
        ii. Finalize detail sheet – 1 sheet
        iii. Finalize signing and striping sheets
        iv. Erosion control plans – not anticipated in this scope of work
        v. Demo and Removal – not anticipated in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, one modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept/30% level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. No field visit during construction anticipated
    b. Address RFIs – assume 1
    c. Submittal reviews – assume 1
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

FAR_CWI_3

1. Administration:
    a. 4-week design schedule
    b. Expedited Design
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial (from Task 4) – combined with all Farmington projects (FAR_ADA_1, FAR_BKL_1, FAR_CWI_1, FAR_CWI_3, FAR_SWK_7, FAR_CWI_6)
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination

    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house combined with other Farmington projects
    h. Assume one trip to Local Partner Office (2 hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed design package
    b. One formal QA review of project

3. Survey and Mapping:
    a. Obtain and process aerial imagery for project scope of work – assume accessibility to UTA aerial imagery
    b. No other right of way analysis, survey, or topography is anticipated for this scope of work
4. Develop Plans:
    a. Site visit, photos – combined with other Farmington projects
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend) – combined with other Farmington projects
    d. Concept preparation – utilize current concept drawings
    e. 30% Design – layout of striping, plan sheets preparation (40-scale, 1 sheet)
    f. Address 30% comments
    g. Finalize striping and signing design
    h. Prepare cover, notes, survey control sheets – combined with all Farmington projects
    i. Update plan sheets, key map
    j. Typical section detail sheet
    k. No drainage facilities, sidewalk, curb and gutter, etc anticipated
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Two pedestrian ramps will be re-graded as part of the design
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor

14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr)
    b. 100% Design Review Meeting – preparation and attendance (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control (common for all Farmington projects)
        ii. Finalize detail sheet – 1 sheet
        iii. Finalize signing and striping sheets
        iv. Erosion control plans – not anticipated in this scope of work
        v. Demo and Removal – not anticipated in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, one modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept/30% level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. No field visit during construction anticipated
    b. Address RFIs – assume 1
    c. Submittal reviews – assume 1
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

FAR_SWK_4

1. Administration:
    a. 12-week design schedule
    b. Expedited Design for Sidewalk Extension to State Street (from 350 South (Smoot Drive))
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4) – combined with all Farmington projects (FAR_ADA_1, FAR_BKL_1, FAR_CWI_1, FAR_CWI_3, FAR_SWK_7, FAR_CWI_6)
    d. 0.5-hr/wk management of design effort

    e. Monthly schedule updates
    f. 0.25-hr/wk Contractor coordination
    g. 0.25-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house (combined with other Farmington projects)
    i. Assume two trips to Local Partner Office (2 hour round trip)
    j. Assume one trip to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend) – combined for all Farmington projects
    d. Concept preparation – typical section concept, horizontal layout of project extents, property access/driveway locations, Kick-off meeting exhibit preparation
    e. 30% Design – typical section development, horizontal layout of sidewalk, driveway tie-ins, plan sheets preparation (40-scale, 2 sheets, double panel)
    f. Address 30% comments
    g. Finalize horizontal sidewalk design
    h. Prepare cover, notes, survey control sheets
    i. Update plan sheets, key map
    j. Typical section detail sheet
    k. No drainage facilities assumed
    l. Finalize 60% plan set, submit for review
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (100%)

    c. Driveway design tie-ins – 18
10. Structural Design:
    a. Back of sidewalk retaining wall design – assume retained height does not exceed 3' – assume no structural calculations required
11. Drainage:
    a. No drainage analysis assumed in this scope of work
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. Finalize utility company relocation designs coordination (design provided by companies), hand off to Contractor
    d. Assume no relocation of power poles – sidewalk design around poles
    e. Assume 1 site meeting with utility companies – 1 trip (combined with other Farmington projects)
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr)
    b. 100% Design Review Meeting – preparation and attendance (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 2 sheets
        iii. Finalize plan sheets
        iv. Erosion control plan – 1 sheet
        v. Demo and Removal – combined with other sheets
    b. No drainage facilities anticipated in this scope of work
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide one modified and special provision
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 100% quantities update
    d. RFC – final quantities delivery to Contractor, UTA

    e. Verify quantities from CRS's completed design from Glovers Lane to 350 South
20. Design Services During Construction:
    a. Collate CRS design plans and specifications – from Glovers Lane to 350 South
    b. Field visit during construction, and documentation report – assume 1
    c. Address RFIs – assume 1
    d. Submittal reviews – assume 2
    e. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

FAR_SWK_7

1. Administration:
    a. 2-week preconstruction support schedule
    b. Field Support
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4) – combined with all Farmington projects (FAR_ADA_1, FAR_BKL_1, FAR_CWI_1, FAR_CWI_3, FAR_SWK_7, FAR_CWI_6)
    d. 0.25-hr/wk management of field support effort
    e. One schedule update
    f. 4-hr Contractor coordination
    g. 0.25-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house (combined with other Farmington projects)
    i. Trips to Local Partner Office (2 hour round trip) bundled with other Farmington projects
2. Quality Control Program:
    a. Formal QC review of completed construction package components only (not for design/production of plans or specifications)
3. Survey and Mapping:
    a. No survey/mapping assumed in this scope of work
4. Develop Plans:
    a. No design assumed in this scope of work
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. No design criteria tasks assumed in this scope of work
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work

12. Utilities:
    a. No utilities/coordination assumed for design in this scope of work
13. Staging Plans & MOT:
    a. No MOT assumed in this scope of work
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscaping assumed for design in this scope of work
    b. No lighting assumed for design in this scope of work
16. Design and Constructability Review:
    a. No reviews assumed for design in this scope of work
17. Construction Drawings & Specs:
    a. Collate CRS completed design plans (assume CRS stamped and signed)
    b. Receive and collate CRS completed project specifications
18. VE/Cost Savings Measures:
    a. No VE/Cost Savings tasks assumed in this scope of work
19. Quantities:
    a. Verify quantity takeoffs from CRS, as provided in CAD files and plan set
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 1
    b. Address RFIs – assume 2
    c. Submittal reviews – assume 3
    d. Formal plan set design change – assume coordination of 2, completed by CRS
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

HER_BKL_8

1. Administration:
    a. 4-week design schedule
    b. Expedited Design
    c. One Local Partner Kick-Off Meeting (Design Manager) – Combined with South Jordan City Kick-off Meeting – utilize available concept plan
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination
    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house
    h. Assume one trip to Local Partner Office (0.5-hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed design package (including SOJ_BKL_7)
    b. One formal QA review of project
3. Survey and Mapping:
    a. Obtain and process aerial imagery for project scope of work – assume accessibility to UTA aerial imagery
    b. No other right of way analysis, survey, or topography is anticipated for this scope of work

4. Develop Plans:
    a. Site visit, photos – in conjunction with South Jordan projects
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager) – combined with other projects
    d. Concept preparation – utilize current concept drawings
    e. 30% Design – layout of striping, plan sheets preparation (100-scale, 5 sheets) – combined with SOJ_BKL_7
    f. Address 30% comments
    g. Finalize striping and signing design
    h. Prepare cover, notes sheets – combine with South Jordan projects
    i. Update plan sheets, key map
    j. Typical section detail sheet – intersection striping detail sheets as necessary
    k. No drainage facilities, sidewalk, curb and gutter, etc anticipated
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. 30% Design Review Meeting – preparation and coordination – combined with Kick-off Meeting (Design Mgr)
    b. 100% Design Review Meeting – preparation and coordination – digital via email only (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)

17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set (combine with South Jordan projects):
        i. Update cover, notes
        ii. Finalize detail sheets – 3 sheets – intersection striping
        iii. Finalize signing and striping sheets
        iv. Erosion control plans – not anticipated in this scope of work
        v. Demo and Removal – not anticipated in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, no modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept/30% level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. No field visit during construction anticipated
    b. No RFIs anticipated
    c. No submittal reviews anticipated
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SOJ_BKL_2

1. Administration:
    a. 4-week design schedule
    b. Expedited Design
    c. Includes striping required for SOJ_BKL_4 and SOJ_BKL_5
    d. One Local Partner Kick-Off Meeting (Design Manager) – Combined with South Jordan City Kick-off Meetings – utilize available concept plan
    e. Monthly schedule update
    f. 0.5-hr Contractor coordination
    g. 0.5-hr UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house
    i. Assume one trip to Local Partner Office (0.5-hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed design package
    b. One formal QA review of project
3. Survey and Mapping:
    a. Obtain and process aerial imagery for project scope of work – assume accessibility to UTA aerial imagery

    b. No other right of way analysis, survey, or topography is anticipated for this scope of work
4. Develop Plans:
    a. Site visit, photos – in conjunction with South Jordan projects
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager) – combined with other projects
    d. Concept preparation – utilize current concept drawings
    e. 30% Design – layout of striping, plan sheets preparation (100-scale, 8 sheets)
    f. Address 30% comments
    g. Finalize striping and signing design
    h. Prepare cover, notes sheets – combine with South Jordan projects
    i. Update plan sheets, key map
    j. Typical section detail sheet – intersection striping detail sheets as necessary
    k. No drainage facilities, sidewalk, curb and gutter, etc anticipated
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other South Jordan projects):
    a. 30% Design Review Meeting – preparation and coordination – combined with Kick-off Meeting (Design Mgr)
    b. 100% Design Review Meeting – preparation and coordination – digital via email only (Design Mgr)

c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)

17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set (combine with South Jordan projects):
        i. Update cover, notes
        ii. Finalize detail sheets – 3 sheets – intersection striping
        iii. Finalize signing and striping sheets
        iv. Erosion control plans – not anticipated in this scope of work
        v. Demo and Removal – not anticipated in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, no modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept/30% level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. No field visit during construction anticipated
    b. No RFIs anticipated
    c. No submittal reviews anticipated
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SOJ_BKL_4

1. See SOJ_BKL_2

SOJ_BKL_5

1. See SOJ_BKL_2

SOJ_BKL_6

1. Administration:
    a. 4-week design schedule
    b. Expedited Design
    c. One Local Partner Kick-Off Meeting (Design Manager) – Combined with South Jordan City Kick-off Meetings – utilize available concept plan
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination

    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house
    h. Assume one trip to Local Partner Office (0.5-hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed design package
    b. One formal QA review of project
3. Survey and Mapping:
    a. Obtain and process aerial imagery for project scope of work – assume accessibility to UTA aerial imagery
    b. No other right of way analysis, survey, or topography is anticipated for this scope of work
4. Develop Plans:
    a. Site visit, photos – in conjunction with South Jordan projects
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager) – combined with other projects
    d. Concept preparation – utilize current concept drawings
    e. 30% Design – layout of striping, plan sheets preparation (100-scale, 7 sheets)
    f. Address 30% comments
    g. Finalize striping and signing design
    h. Prepare cover, notes sheets – combine with South Jordan projects
    i. Update plan sheets, key map
    j. Typical section detail sheet – intersection striping detail sheets as necessary
    k. No drainage facilities, sidewalk, curb and gutter, etc anticipated
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work

10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor

14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other South Jordan projects):
    a. 30% Design Review Meeting – preparation and coordination – combined with Kick-off Meeting (Design Mgr)
    b. 100% Design Review Meeting – preparation and coordination – digital via email only (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set (combine with South Jordan projects):
        i. Update cover, notes
        ii. Finalize detail sheets – 3 sheets – intersection striping
        iii. Finalize signing and striping sheets
        iv. Erosion control plans – not anticipated in this scope of work
        v. Demo and Removal – not anticipated in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, no modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept/30% level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. No field visit during construction anticipated
    b. No RFIs anticipated
    c. No submittal reviews anticipated
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SOJ_BKL_7

1. Administration:
    a. 4-week design schedule
    b. Expedited Design
    c. One Local Partner Kick-Off Meeting (Design Manager) – Combined with Herriman City Kick-off Meeting – utilize available concept plan
    d. Monthly schedule update

    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination
    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house
    h. Assume one trip to Local Partner Office (0.5-hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed design package (including HER_BKL_8)
    b. One formal QA review of project
3. Survey and Mapping:
    a. Imagery work included in HER_BKL_8
    b. No other right of way analysis, survey, or topography is anticipated for this scope of work
4. Develop Plans:
    a. Site visit, photos – in conjunction with Herriman project, other South Jordan projects
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager) – combined with other projects
    d. Concept preparation – utilize current concept drawings
    e. 30% Design – layout of striping, plan sheets preparation (100-scale, 5 sheets) – combined with HER_BKL_8
    f. Address 30% comments
    g. Finalize striping and signing design
    h. Prepare cover, notes sheets – combine with South Jordan projects
    i. Update plan sheets, key map
    j. Typical section detail sheet – intersection striping detail sheets as necessary
    k. No drainage facilities, sidewalk, curb and gutter, etc anticipated
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Included in HER_BKL_8
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work

b. No lighting design assumed in this scope of work

16. Design and Constructability Review (combined with other South Jordan projects):
    a. 30% Design Review Meeting – preparation and coordination – combined with Kick-off Meeting (Design Mgr)
    b. 100% Design Review Meeting – preparation and coordination – digital via email only (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set (combine with Herriman/South Jordan projects):
        i. Update cover, notes
        ii. Finalize detail sheets – 3 sheets – intersection striping
        iii. Finalize signing and striping sheets
        iv. Erosion control plans – not anticipated in this scope of work
        v. Demo and Removal – not anticipated in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, no modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. Included in HER_BKL_8
19. Quantities:
    a. Concept/30% level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. No field visit during construction anticipated
    b. No RFIs anticipated
    c. No submittal reviews anticipated
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SSL_MUP_2

1. Administration:
    a. 12-week design schedule
    b. Full Design Effort
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    d. 1-hr/wk management of design effort
    e. Monthly schedule updates
    f. 0.5-hr/wk Contractor coordination
    g. 0.5-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    i. Assume two trips to Local Partner Office (1.25 hour round trip)
    j. Assume one trip to UTA Office associated with project

2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
    d. Concept preparation – typical section concept, horizontal layout of project extents, drainage facilities, Kick-off meeting exhibit preparation
    e. 30% Design – typical section development, multi-use path layout, intersection tie-ins, plan and profile sheets preparation (40-scale, 2 sheets)
    f. Address 30% comments
    g. Finalize horizontal path design
    h. Prepare cover, notes, survey control sheets
    i. Update plan and profile sheets, key map
    j. Typical sections detail sheet
    k. Develop draining facilities – open channels, area drains as needed – this scope assumes that storm drain facilities will not be needed
    l. Finalize 60% plan set, submit for review
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No pavement analysis assumed for design in this scope of work
    b. Utilize local partner provided pavement section
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. Simple area hydrology analysis

    b. Identification of proposed outfall
    c. Prepare drainage memo documenting drainage paths
    d. Final design swale capacity analysis as required (60% - 100% design)
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. 60% utility company coordination – design impacts (assume one company)
    d. Coordinate utility company relocation design (design provided by company)
    e. Assume no Contractor pothole needs
    f. Finalize utility company relocation design coordination, hand off to Contractor
    g. Assume no site meetings with utility companies needed
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. Concept landscape ideas – 30% design (FFKR)
    b. Preparation of landscape and irrigation plan at 60% design (FFKR)
    c. Finalize landscape/irrigation plans, including specifications (FFKR)
    d. Lighting design – City provided street light spec, spacing, circuit design and power utility coordination – assume no luminance analysis in this scope of work
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    b. 60% Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
    c. 100% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 3 sheets
        iii. Finalize plan and profile sheets
        iv. Erosion control plan – 1 sheet
        v. Demo and Removal – combined with other sheets
    b. Assume no required storm drain networks
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide two modified and special provisions
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30%, 60% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications

19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 1
    b. Address RFIs – assume 1
    c. Submittal reviews – assume 2
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SUCo_BKS_1

1. Administration:
    a. 2-week preconstruction support schedule
    b. Field Support
    c. One Local Partner Kick-Off Meeting (Design Manager Attend)
    d. 0.5-hr/wk management of field support effort
    e. No schedule update needs
    f. 4-hr Contractor coordination
    g. Assume no public communications needs for this scope of work
    h. Assume one trip to Local Partner Office (3 hour round trip)
2. Quality Control Program:
    a. Formal QC review of completed construction package components only (not for design/production of plans or specifications)
    b. Formal QC reviews of pad design and site layout at RFC
    c. One formal QA review of project
3. Survey and Mapping:
    a. No survey/mapping assumed in this scope of work
4. Develop Plans:
    a. No design assumed in this scope of work
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. No design criteria tasks assumed in this scope of work
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. Preparation of pad site layout using aerial imagery – 2 pads

    b. Utilize assumed soil bearing values
    c. Select appropriate specifications for concrete, subgrade material, etc
    d. Prepare pad design – 2 pads
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utilities/coordination assumed for design in this scope of work
13. Staging Plans & MOT:
    a. No MOT assumed in this scope of work
14. Environmental Commitments:
    a. No environmental commitments review assumed in this scope of work
15. Landscaping & Irrigation:
    a. No landscaping assumed for design in this scope of work
16. Design and Constructability Review:
    a. No reviews assumed for design in this scope of work
17. Construction Drawings & Specs:
    a. No construction drawings and specifications assumed for this scope of work
18. VE/Cost Savings Measures:
    a. No VE/Cost Savings tasks assumed in this scope of work
19. Quantities:
    a. Provide quantities for pad work
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 1
    b. No RFIs assumed
    c. Submittal reviews – assume 1
    d. No formal design changes assumed during construction
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

MID_CWI_1

1. Administration:
    a. 12-week design schedule
    b. Expedited Design for Pedestrian Crossing and HAWK signal
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    d. 0.5-hr/wk management of design effort
    e. Monthly schedule updates
    f. 0.25-hr/wk Contractor coordination
    g. 0.25-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house
    i. Assume one trip to UTA Office associated with project
    j. Assume one trip to Local Partner Office (2 hour round trip)
2. Quality Control Program:
    a. Formal QC reviews at 30%, 100%, RFC
    b. Formal QA reviews of each milestone

    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor combined with other projects
    d. Concept preparation – horizontal layout of project extents, signal and striping configurations, RR modifications, Kick-off meeting exhibit preparation
    e. 30% Design – horizontal layout of signal and striping improvements, curb and gutter/ped ramp modifications, plan sheets preparation (40-scale, 2 sheets)
    f. Address 30% comments
    g. Finalize horizontal layout
    h. Prepare cover, notes, survey control sheets
    i. Update plan sheets
    j. Signal and RR modifications detail sheets
    k. Drainage facility improvements not anticipated
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (100%)
    c. Minor modifications to pedestrian ramps and curbing as required
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage analysis assumed in this scope of work
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts) – signal tie-in, etc

    c. Finalize utility company relocation designs coordination (design provided by companies), hand off to Contractor
    d. Assume 1 site meeting with utility companies – 1 trip
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
    b. Assumes no additional environmental inventory related to new crossing locations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr and Design Lead)
    b. 100% Design Review Meeting – preparation and attendance (Design Mgr and Design Lead)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 3 sheets
        iii. Finalize plan sheets
        iv. Erosion control plan – combined with other sheets
        v. Demo and Removal – combined with other sheets
    b. No drainage facilities anticipated in this scope of work
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide two modified and special provision
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30% - material exchanges, constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 100% quantities update
    d. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 1
    b. Address RFIs – assume 2
    c. Submittal reviews – assume 3
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

FAR_SWK_3

1. Administration:
    a. 12-week design schedule
    b. Expedited Design for curb & gutter, sidewalk along 200 West/Frontage Road
    c. One Local Partner Kick-Off Meeting combined with FAR_SWK_4
    d. 0.5-hr/wk management of design effort
    e. Monthly schedule updates
    f. 0.25-hr/wk Contractor coordination
    g. 0.25-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house combined with FAR_SWK_4
    i. Assume one trip to Local Partner Office (2 hour round trip)
2. Quality Control Program:
    a. Formal QC reviews at 30%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – trip combined with FAR_SWK_4
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor combined with FAR_SWK_4
    d. Concept preparation – typical section concept, horizontal layout of project extents, property access/driveway locations, Kick-off meeting exhibit preparation
    e. 30% Design – typical section development, horizontal layout of sidewalk, curb and gutter, driveway tie-ins, plan & profile sheets preparation (40-scale, 3 sheets)
    f. Address 30% comments
    g. Finalize horizontal curb and gutter, sidewalk design
    h. Prepare cover, notes, survey control sheets
    i. Update plan & profile sheets, key map
    j. Typical section detail sheet
    k. Assume surface flow of storm water in curb and gutter to existing inlets downstream – No drainage facilities assumed
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
    b. Assume no permitting through UDOT
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project

    b. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (100%)
    c. Driveway design tie-ins – 4
10. Structural Design:
    a. No structural assumed for design in this scope of work
    b. Minor back of walk retaining may be required at the corner of the Frontage Road and Glovers Lane – assume retaining is less than 3' in height and does not require analysis
11. Drainage:
    a. No drainage analysis assumed in this scope of work
    b. Assume surface flow of storm water in curb and gutter to existing inlets downstream – No drainage facilities assumed
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. Finalize utility company relocation designs coordination (design provided by companies), hand off to Contractor
    d. Assume 1 site meeting with utility companies – 1 trip (combined with other Farmington projects)
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr)
    b. 100% Design Review Meeting – preparation and attendance (Design Mgr)
    c. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 2 sheets
        iii. Finalize plan sheets
        iv. Erosion control plan – 1 sheet
        v. Demo and Removal – combined with other sheets
    b. No drainage facilities anticipated in this scope of work
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide one modified and special provision
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner

b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
c. Contractor coordination at 30% - material exchanges, constructability modifications

19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 100% quantities update
    d. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 1 (combined with other Farmington projects)
    b. Address RFIs – assume 1
    c. Submittal reviews – assume 2
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

OGD_BKL_1

1. Administration:
    a. 28-week design schedule
    b. Full Design Effort
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    d. 1-hr/wk management of design effort
    e. Monthly schedule updates
    f. 0.5-hr/wk Contractor coordination
    g. 0.5-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    i. Assume two trips to Local Partner Office (2 hour round trip)
    j. Assume one trip to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip

b. Pre-kick off material collection, review
c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
d. Concept preparation – utilize concept provided, update with new topography, typical section concept, horizontal layout of project extents, striping, SD facilities, property access locations, Kick-off meeting exhibit preparation
e. 30% Design – typical section development, horizontal layout of striping, curb and gutter, sidewalk, intersection tie-ins, pavement and overlay extents, plan and profile sheets preparation (40-scale, 4 sheets)
f. Address 30% comments
g. Finalize horizontal roadway design
h. Prepare cover, notes, survey control sheets
i. Update plan and profile sheets, key map
j. Signing and striping sheets (40-scale, 4 sheets)
k. Typical sections detail sheets
l. Develop storm drain pipe networks
m. Finalize 60% plan set, submit for review
n. Review and include pavement overlay if practical

5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. Coordination with Geotechnical Engineer – Pavement Analysis & Design
    b. Perform field work, laboratory testing, pavement analysis, reporting (Terracon)
    c. Pavement analysis & design includes existing asphalt coring (3) and (3) 10’ borings
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
    c. Intersections/access vertical design – 6
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. Roadway hydrology analysis
    b. Identification of proposed outfalls
    c. Preliminary storm drain analysis
    d. Prepare preliminary drainage memo
    e. Update roadway hydrology and storm drain analysis (60% - 100% design)
    f. Prepare final drainage memo
    g. Assume modifications to existing storm drain system related to inlet location and elevations, possible additional inlet lateral tie-ins, no modifications to the existing storm drain trunk lines

12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. 60% utility company coordination – design impacts (assume two companies)
    d. Coordinate utility company relocation designs (design provided by companies)
    e. Identify Contractor pothole needs
    f. Finalize utility company relocation design coordination, hand off to Contractor
    g. Assume 2 site meetings with utility companies – 2 trips
    h. Initial sewer and water existing facility evaluation with Contractor, City – possible contract with City (separate from this contract) for proposed sewer and water replacement facilities
13. Staging Plans & MOT:
    a. Construction traffic impact analysis at 30% design
    b. Traffic control plan coordination with Contractor at 100% plan completion – provide two plan sheets incorporating plan and referencing standard traffic control standards
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. Concept landscape ideas – 30% design (FFKR)
    b. Preparation of landscape and irrigation plan at 60% design (FFKR)
    c. Preparation of streetscape plan at 60% design (FFKR)
    d. Finalize landscape/irrigation and streetscape plans, including specifications (FFKR)
    e. Lighting design – City provided street light spec, spacing, circuit design and power utility coordination – assume no luminance analysis in this scope of work
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    b. 60% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    c. 100% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 7 sheets
        iii. Finalize plan and profile sheets, signing and striping sheets
        iv. Erosion control plans – 2 sheets
        v. Demo and Removal – 2 sheets
    b. Finalize storm drain pipe networks
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide six modified and special provisions
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30%, 60% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications

    d. Address overlay, raised cross walk
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 3
    b. Address RFIs – assume 5
    c. Submittal reviews – assume 5
    d. Formal plan set design change – assume 2
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SAN_MUP_1

1. Administration:
    a. 16-week design schedule
    b. Full Design Effort
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    d. 3-hr/wk management of design effort
    e. Monthly schedule updates
    f. 3.5-hr/wk Contractor coordination, coordinate exposure of existing pedestrian underpass top of box
    g. 1-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    i. Assume six trips to Local Partner Office (0.75 hour round trip) – coordinate with City, property owner, and developer/developer's engineer
    j. Assume two trips to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip

b. Pre-kick off material collection, review
c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
d. Concept preparation – typical sections concept for path, 102nd South and Beetdigger Blvd, horizontal layout of project extents, striping and signing, SD facilities, Kick-off meeting exhibit preparation
e. 30% Design – typical section development, horizontal layout of 102nd South, Beetdigger Blvd, path, striping, curb and gutter, sidewalk, intersection tie-in, canal structure, pedestrian underpass structure, plan and profile sheets preparation (40-scale, 5 sheets); box culvert situation and layout drawings (4 sheets)
f. Address 30% comments
g. Finalize horizontal roadway and path design
h. Prepare cover, notes, survey control sheets
i. Update plan and profile sheets, key map
j. Typical sections detail sheets
k. Develop storm drain pipe networks
l. Finalize 60% plan set, submit for review

5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
    b. Assume right of way plat for 102nd South and Beetdigger, along with property donated by landowner, has been completed by others, or will be completed by others utilizing the design line work prepared in this scope of work
6. Permits:
    a. This scope of work assumes that Sandy City will procure permits from the irrigation company, Salt Lake County Flood Control, and Nationwide Permit (Section 404 Permit)
    b. Time has been provided in this task to coordinate commitments and design restrictions related to the obtained permits
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. Coordination with Geotechnical Engineer – Pedestrian underpass structure design, retaining wall design (Beetdigger Blvd adjacent to canal)
    b. Perform field work, laboratory testing, pavement analysis, reporting (Terracon)
        i. 1 boring assumed
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
    c. Intersections/access vertical design – 1
10. Structural Design:
    a. Develop geometric and design criteria for MSE wall between the canal and Beetdigger road.
    b. Determine preferred box culvert type and layout, includes documentation memo. Consider cast-in-place and precast.
    c. Develop geometric and design criteria for precast box culvert (assumed type) that carries 10200 South over the canal.

    d. Design cast-in-place box culvert (assumed type) for extension of box culvert under TRAX.
11. Drainage:
    a. Roadway, pedestrian underpass hydrology analysis
    b. Identification of proposed outfalls – assume existing tie-in is to the west at Weeping Willow Drive
    c. Preliminary storm drain analysis
    d. Prepare preliminary drainage memo
    e. Update roadway/pedestrian underpass hydrology and storm drain analysis (60% - 100% design)
    f. Prepare final drainage memo
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. 60% utility company coordination – design impacts (assume two companies)
    d. Coordinate utility company relocation designs (design provided by companies, with exception of Sandy City water)
    e. Design proposed water line within roadway improvement limits – include in all design milestones
    f. Identify Contractor pothole needs
    g. Finalize utility company relocation design coordination, hand off to Contractor
    h. Assume 2 site meetings with utility companies – 2 trips
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. Concept landscape ideas – 30% design (FFKR)
    b. Preparation of landscape and irrigation plan at 60% design (FFKR)
    c. Finalize landscape/irrigation plans, including specifications (FFKR)
    d. Lighting design – City provided street light spec, spacing, circuit design and power utility coordination – assume no luminance analysis in this scope of work
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    b. 60% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    c. 100% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 7 sheets
        iii. Finalize plan and profile sheets
        iv. Erosion control plans – 3 sheets
        v. Demo and Removal – 3 sheets
        vi. Prepare structural plan sheets – 6 sheets
    b. Finalize storm drain pipe networks

    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide six modified and special provisions
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30%, 60% – identify any long-lead items – assume canal box culvert pre-cast, steel for cast-in-place pedestrian underpass
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 4
    b. Address RFIs – assume 6
    c. Submittal reviews – assume 8
    d. Formal plan set design change – assume 2
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SLC_BKS_1

1. Administration:
    a. 2-week preconstruction support schedule
    b. Field Support
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – combined with SLC_MUP_1 or SLC_OP_1
    d. 0.5-hr/wk management of field support effort
    e. No schedule update needs
    f. 4-hr Contractor coordination
    g. Assume no public communications needs for this scope of work (bundle with SLC_MUP_1 or SLC_OP_1 if needed)
    h. Trips to Local Partner Office (1 hour round trip) bundled with other SLC projects
2. Quality Control Program:
    a. Formal QC review of completed construction package components only (not for design/production of plans or specifications)
    b. Formal QC reviews of pad design and site layout at RFC
    c. One formal QA review of project
3. Survey and Mapping:
    a. No survey/mapping assumed in this scope of work
4. Develop Plans:
    a. No design assumed in this scope of work

5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. No design criteria tasks assumed in this scope of work
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. Preparation of pad site layout using aerial imagery – 2 pads
    b. Utilize assumed soil bearing values
    c. Select appropriate specifications for concrete, subgrade material, etc
    d. Prepare pad design – 2 pads
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utilities/coordination assumed for design in this scope of work
13. Staging Plans & MOT:
    a. No MOT assumed in this scope of work
14. Environmental Commitments:
    a. No environmental commitments review assumed in this scope of work
15. Landscaping & Irrigation:
    a. No landscaping assumed for design in this scope of work
16. Design and Constructability Review:
    a. No reviews assumed for design in this scope of work
17. Construction Drawings & Specs:
    a. No construction drawings and specifications assumed for this scope of work
18. VE/Cost Savings Measures:
    a. No VE/Cost Savings tasks assumed in this scope of work
19. Quantities:
    a. Provide quantities for pad work
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 2
    b. No RFIs assumed
    c. Submittal reviews – assume 1
    d. No formal design changes assumed during construction
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SLC_MUP_1

1. Administration:
    a. 16-week design schedule
    b. Full Design Effort

c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
d. Kick off meeting and associated reviews meetings will be held separate from other SLC projects because of the level of effort and complexity required
e. 3-hr/wk management of design effort
f. Monthly schedule updates
g. 2.5-hr/wk Contractor coordination
h. 0.5-hr/wk UTA, Local Partner coordination
i. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
j. Assume six trips to Local Partner Office (1.0 hour round trip)
k. Assume two trips to UTA Office associated with project

2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review – including review of City Creek facility drawings, Jordan River Trail structure drawings
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
    d. Concept preparation – typical section concept, horizontal layout of project extents, rail crossing improvements, drainage facilities, Kick-off meeting exhibit preparation
    e. 30% Design – typical section development, horizontal layout of multi-use path, intersection tie-ins, crossing striping and concept signal layouts, plan and profile sheets preparation (40-scale, 13 sheets)
    f. Address 30% comments
    g. Finalize horizontal path design
    h. Prepare cover, notes, survey control sheets
    i. Update plan and profile sheets, key map
    j. Intersection signing/striping and signal sheets (40-scale, 3 sheets)
    k. Typical sections detail sheets
    l. Develop draining facilities – open channels, area drains as needed – this scope assumes that storm drain facilities will not be needed
    m. Finalize 60% plan set, submit for review
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
    b. Stream alteration permit completed by others

    c. UPRR permitting support provided (assuming Marshall Rail Services will provide permitting for UPRR)
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No pavement analysis assumed for design in this scope of work
    b. Utilize local partner provided pavement section
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
    c. Intersections/access vertical design – 6
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. Simple area hydrology analyses (per block of path, split by intersections, etc)
    b. Identification of proposed outfalls
    c. Preliminary, localized drainage facilities analysis (area drains, swales, storm drain)
    d. Update path hydrology and drainage facilities analysis (60% - 100% design)
    e. Prepare final drainage memo
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. 60% utility company coordination – design impacts (assume one company)
    d. Coordinate utility company relocation designs (design provided by companies)
    e. Identify Contractor pothole needs
    f. Finalize utility company relocation design coordination, hand off to Contractor
    g. Assume 2 site meetings with utility companies – 2 trips
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. Concept landscape ideas – 30% design (FFKR)
    b. Preparation of landscape and irrigation plan at 60% design (FFKR)
    c. Finalize landscape/irrigation plans, including specifications (FFKR)
    d. Lighting design – City provided street light spec, spacing, circuit design and power utility coordination – assume no luminance analysis in this scope of work
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    b. 60% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    c. 100% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)

17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 10 sheets
        iii. Finalize plan and profile sheets
        iv. Signal, Signing and striping sheets – 3 signals
        v. Erosion control plans – 6 sheets
        vi. Demo and Removal – 6 sheets
    b. Finalize draining pipe networks and facilities as required
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide eight modified and special provisions
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30%, 60% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 3
    b. Address RFIs – assume 5
    c. Submittal reviews – assume 4
    d. Formal plan set design change – assume 1
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

LEH_OP_1

1. Administration:
    a. 26-week design schedule
    b. Full Design Effort
    c. Assume approximate 285’ 2-span, seismic design, prefabricated bridge spans (truss or similar), design loads provided by fabricator, no elevator components
    d. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    e. 2-hr/wk management of design effort
    f. Monthly schedule updates
    g. 2-hr/wk Contractor coordination
    h. 2-hr/wk UTA, Local Partner coordination

    i. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    j. Assume six trips to Local Partner Office (0.25 hour round trip)
    k. Assume two trips to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
    d. Concept preparation – typical section concept, horizontal layout of project extents, drainage facilities, structure footprint, Kick-off meeting exhibit preparation
    e. 30% Design – typical section development, horizontal layout, plan and profile sheets preparation (40-scale, 3 sheets); bridge situation and layout sheets (2 sheets)
    f. Address 30% comments
    g. Finalize horizontal design
    h. Prepare cover, notes, survey control sheets
    i. Update plan and profile sheets, key map
    j. Typical sections detail sheets
    k. Develop drainage facility design as needed
    l. Finalize 60% plan set, submit for review
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
    b. UPRR permitting support provided (assuming Marshall Rail Services will provide permitting for UPRR)
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
    d. Use traditional UDOT/AASHTO design criteria for MSE wall and pedestrian bridge
8. Geotechnical:
    a. Coordination with Geotechnical Engineer
    b. Perform field work, laboratory testing, pavement analysis, reporting (Terracon)
        i. 5 soil borings (1 at each substructure and 1 behind each abutment approx. 100')

9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
10. Structural Design:
    a. Determine preferred bridge type and layout, includes documentation memo. Consider the following alternatives:
        i. MSE wall wrapped, deep foundation abutments and similar deep foundations for Bent.
        ii. Concrete ramp structures
        iii. GRS-IBS (spread footings at abutments and bent)
    b. Develop structural calculations and design documentation
    c. Coordinate design with MSE and truss bridge fabricator
    d. Integrate lighting into the structure
    e. Assumes the design will provide information for early procurement of steel piles (if applicable), prefabricated truss span, and reinforcing steel quantity estimate.
11. Drainage:
    a. Hydrology analysis as needed around bridge structure
    b. Minor drainage facility analysis
    c. Update drainage facility analysis as needed (60% - 100% design)
    d. Prepare final drainage memo
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. 60% utility company coordination – design impacts (assume two companies)
    d. Coordinate utility company relocation designs (design provided by companies)
    e. Identify Contractor pothole needs
    f. Finalize utility company relocation design coordination, hand off to Contractor
    g. Assume 1 site meeting with utility companies – 1 trip
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
    b. Develop strategy for constructing bent foundation near traffic
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. Concept landscape/aesthetic ideas – 30% design (FFKR)
    b. Preparation of landscape and irrigation/aesthetic plan at 60% design (FFKR)
    c. Finalize landscape/irrigation/aesthetic plans, including specifications (FFKR)
    d. No lighting design assumed in this scope of work
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    b. 60% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    c. 100% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
    e. Does not include formal UDOT structural review process

17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 10 sheets
        iii. Finalize plan and profile sheets
        iv. Erosion control plans – 2 sheets
        v. Demo and Removal – 2 sheets
        vi. Develop structural drawings – 13 sheets (includes reinforcing summary sheets)
    b. Finalize drainage facility design
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide seven modified and special provisions
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30%, 60% – identify any long-lead items
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
        i. Includes quantities for VE and structure type selection
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 3
    b. Address RFIs – assume 5
    c. Submittal reviews – assume 5
    d. Formal plan set design change – assume 2
    e. Review shop drawings – assume MSE wall and ped bridge
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

FAR_CWI_6

1. Administration:
    a. 2-week field support schedule
    b. Field Support
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial (from Task 4) – combined with all Farmington projects (FAR_ADA_1, FAR_BKL_1, FAR_CWI_1, FAR_CWI_3, FAR_SWK_7, FAR_CWI_6)
    d. Monthly schedule update
    e. 0.5-hr Contractor coordination
    f. 0.5-hr UTA, Local Partner coordination
    g. Provide exhibits, documents to Contractor for public involvement effort, attendance at one city council meeting/open house combined with other Farmington projects

    h. Assume one trip to Local Partner Office (2 hour round trip)
2. Quality Control Program:
    a. No QC assumed for this project
3. Survey and Mapping:
    a. No survey/mapping assumed for design in this scope of work
4. Develop Plans:
    a. No plan development assumed for design in this scope of work
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. No earthwork and grading assumed for design in this scope of work
10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage assumed for design in this scope of work
12. Utilities:
    a. No utility work assumed for design in this scope of work
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review (combined with other Farmington projects):
    a. No reviews assumed for design in this scope of work
17. Construction Drawings & Specs:
    a. No drawings assumed for design in this scope of work
    b. Prepare specifications in Word/PDF format – reference and include standard specifications, one modified and/or special provisions anticipated
18. VE/Cost Savings Measures:
    a. NO VE/Cost Savings assumed for this scope of work
19. Quantities:
    a. Provide final quantities support to Contractor, UTA
20. Design Services During Construction:
    a. Provide design technician in field to coordinate design for each ped ramp, provide support as needed:
        i. Utilize ped ramp standards
        ii. Complete field visit documentation form
        iii. Complete technical infeasibility form as needed

b. Assume no RFIs
c. Assume no submittal reviews
d. Assume no formal plan set design changes

21. As-built Drawings:
    a. Receive Contractor redline of provided concept and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

MIL_SWK_1

1. Administration:
    a. 16-week design schedule
    b. Full Design Effort
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    d. 0.5-hr/wk management of design effort
    e. Monthly schedule updates
    f. 0.25-hr/wk Contractor coordination
    g. 0.25-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    i. Assume two trips to Local Partner Office (1.0 hour round trip)
    j. Assume one trip to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
    d. Concept preparation – Utilize Salt Lake County 30% plans
    e. 30% Design – Update Salt Lake County plans to Microstation, incorporating updated survey information (20-scale, 11 sheets)
    f. Address 30% comments
    g. Finalize horizontal roadway design
    h. Update cover, notes, survey control sheets
    i. Update roadway plan sheets, key map (no plan and profile sheets)
    j. Assume no need for signing and striping sheets
    k. Update typical sections detail sheets
    l. Assume no storm drain pipe networks needed

m. Finalize 60% plan set, submit for review

5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
    c. Intersections/access vertical design – 5

10. Structural Design:
    a. No structural assumed for design in this scope of work
11. Drainage:
    a. No drainage analysis assumed in this scope of work.
    b. Includes some coordination of existing inlets and proposed impacts
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination at 30% - assume minimal impacts
    c. Coordinate limited utility company relocation designs (design provided by companies)
    d. Finalize utility company relocation design coordination, hand off to Contractor
    e. Assume one site meeting with utility companies – 1 trip
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr)
    b. 60% Design Review Meeting – preparation and attendance (Design Mgr)
    c. 100% Design Review Meeting – preparation and attendance (Design Mgr)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 6 sheets
        iii. Finalize roadway plan sheets

iv. Erosion control plans – 2 sheets
v. Demo and Removal – combined with other sheets

b. No storm drain improvements except tie-ins to existing inlet boxes
c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide two modified and special provisions

18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Assume no alternative materials needs or long lead items
    c. Contractor coordination at 30%, 60% - constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 1
    b. Address RFIs – assume 1
    c. Submittal reviews – assume 2
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

PRO_OP_1

1. Administration:
    a. 26-week design schedule
    b. Full Design Effort
    c. Assume approximate 150' single span, fabricated bridge span (truss or similar), design loads provided by fabricator
    d. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    e. 2-hr/wk management of design effort
    f. Monthly schedule updates
    g. 2-hr/wk Contractor coordination
    h. 2-hr/wk UTA, Local Partner coordination
    i. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    j. Assume six trips to Local Partner Office (1.0 hour round trip)
    k. Assume two trip to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)

    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
    d. Concept preparation – typical section concept, horizontal layout of project extents, drainage facilities, structure footprint, Kick-off meeting exhibit preparation
    e. 30% Design – typical section development, horizontal layout, plan and profile sheets preparation (40-scale, 3 sheets); bridge situation and layout sheets (2 sheets, FFKR/Baker)
    f. Address 30% comments
    g. Finalize horizontal design
    h. Prepare cover, notes, survey control sheets
    i. Update plan and profile sheets, key map
    j. Typical sections detail sheets
    k. Develop drainage facility design as needed
    l. Finalize 60% plan set, submit for review
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
    b. UPRR permitting support provided (assuming Marshall Rail Services will provide permitting for UPRR)
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
    d. Use building design criteria for bridge (i.e. IBC, AISC, ACI, ASCE, etc.)
8. Geotechnical:
    a. Coordination with Geotechnical Engineer – Pavement Analysis & Design
    b. Perform field work, laboratory testing, pavement analysis, reporting (Terracon)
        i. 2 soil borings (1 at each substructure)
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
10. Structural Design (FFKR):
    a. Determine preferred bridge type and layout, includes documentation memo. Consider the following alternatives:
        i. Integrated bridge support and elevator shaft
        ii. Separated bridge support and elevator shaft

    b. Develop structural calculations and design documentation
    c. Coordinate with truss bridge fabricator
    d. Integrate lighting into the structure
    e. Assumes the design will provide information for early procurement of steel piles (if applicable), prefabricated truss span, and reinforcing steel quantity estimate
11. Drainage:
    a. Hydrology analysis as needed around bridge structure
    b. Minor drainage facility analysis
    c. Update drainage facility analysis as needed (60% - 100% design)
    d. Prepare final drainage memo
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. 60% utility company coordination – design impacts (assume two companies)
    d. Coordinate utility company relocation designs (design provided by companies)
    e. Identify Contractor pothole needs
    f. Finalize utility company relocation design coordination, hand off to Contractor
    g. Assume 1 site meeting with utility companies – 1 trip
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
    b. Support strategy for constructing near railroads (CS and FFKR)
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. Concept landscape/aesthetic ideas – 30% design (FFKR)
    b. Preparation of landscape and irrigation/aesthetic plan at 60% design (FFKR)
    c. Finalize landscape/irrigation/aesthetic plans, including specifications (FFKR)
    d. No street lighting design assumed in this scope of work (structure lighting included in Task 10)
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    b. 60% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    c. 100% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
    e. Does not include formal UDOT structures review process
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
    b. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 11 sheets
        iii. Finalize plan and profile sheets
        iv. Erosion control plans – 2 sheets
        v. Demo and Removal – 2 sheets
        vi. Develop structural drawings – 23 sheets (includes reinforcing summary sheets, FFKR)
    c. Finalize drainage facility design

d. Prepare specifications in Word/PDF format – reference and include standard specifications, provide seven modified and special provisions

18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30%, 60% – identify any long-lead items
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
        i. Includes quantities for VE and structure type selection (FFKR)
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 3
    b. Address RFIs – assume 5
    c. Submittal reviews – assume 5
    d. Formal plan set design change – assume 2
    e. Review structural shop drawings – ped bridge (FFKR)
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

SLC_OP_1

1. Administration:
    a. 26-week design schedule
    b. Full Design Effort
    c. Assume approximate 150' single span, fabricated bridge span (truss or similar), design loads provided by fabricator
    d. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    e. 2-hr/wk management of design effort
    f. Monthly schedule updates
    g. 2-hr/wk Contractor coordination
    h. 2-hr/wk UTA, Local Partner coordination
    i. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    j. Assume six trips to Local Partner Office (1.5 hour round trip)
    k. Assume two trip to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)

    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
    d. Concept preparation – typical section concept, horizontal layout of project extents, drainage facilities, structure footprint, Kick-off meeting exhibit preparation
    e. 30% Design – typical section development, horizontal layout, plan and profile sheets preparation (40-scale, 3 sheets); bridge situation and layout sheets (2 sheets, FFKR/Baker)
    f. Address 30% comments
    g. Finalize horizontal design
    h. Prepare cover, notes, survey control sheets
    i. Update plan and profile sheets, key map
    j. Typical sections detail sheets
    k. Develop drainage facility design as needed
    l. Finalize 60% plan set, submit for review
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
    b. UPRR permitting support provided (assuming Marshall Rail Services will provide permitting for UPRR)
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
    d. Use building design criteria for bridge (i.e. IBC, AISC, ACI, ASCE, etc.)
8. Geotechnical:
    a. Coordination with Geotechnical Engineer – Pavement Analysis & Design
    b. Perform field work, laboratory testing, pavement analysis, reporting (Terracon)
        i. 2 soil borings (1 at each substructure)
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
10. Structural Design (FFKR):
    a. Determine preferred bridge type and layout, includes documentation memo. Consider the following alternatives:
        i. Integrated bridge support and elevator shaft
        ii. Separated bridge support and elevator shaft

    b. Develop structural calculations and design documentation
    c. Coordinate with truss bridge fabricator
    d. Integrate lighting into the structure
    e. Assumes the design will provide information for early procurement of steel piles (if applicable), prefabricated truss span, and reinforcing steel quantity estimate
11. Drainage:
    a. Hydrology analysis as needed around bridge structure
    b. Minor drainage facility analysis
    c. Update drainage facility analysis as needed (60% - 100% design)
    d. Prepare final drainage memo
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. 60% utility company coordination – design impacts (assume two companies)
    d. Coordinate utility company relocation designs (design provided by companies)
    e. Identify Contractor pothole needs
    f. Finalize utility company relocation design coordination, hand off to Contractor
    g. Assume 1 site meeting with utility companies – 1 trip
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
    b. Support strategy for constructing near railroads (CS and FFKR)
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. Concept landscape/aesthetic ideas – 30% design (FFKR)
    b. Preparation of landscape and irrigation/aesthetic plan at 60% design (FFKR)
    c. Finalize landscape/irrigation/aesthetic plans, including specifications (FFKR)
    d. No street lighting design assumed in this scope of work (structure lighting included in Task 10)
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    b. 60% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    c. 100% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
    e. Does not include formal UDOT structures review process
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
    b. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 11 sheets
        iii. Finalize plan and profile sheets
        iv. Erosion control plans – 2 sheets
        v. Demo and Removal – 2 sheets
        vi. Develop structural drawings – 23 sheets (includes reinforcing summary sheets, FFKR)
    c. Finalize drainage facility design

    d. Prepare specifications in Word/PDF format – reference and include standard specifications, provide seven modified and special provisions
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30%, 60% – identify any long-lead items
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
        i. Includes quantities for VE and structure type selection (FFKR)
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 3
    b. Address RFIs – assume 5
    c. Submittal reviews – assume 5
    d. Formal plan set design change – assume 2
    e. Review structural shop drawings – ped bridge (FFKR)
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

WEJ_RRX_2

1. Administration:
    a. 16-week design schedule
    b. Full Design Effort
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    d. 0.25-hr/wk management of design effort
    e. Monthly schedule updates
    f. 0.25-hr/wk Contractor coordination
    g. 0.25-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    i. Assume two trips to Local Partner Office (1 hour round trip)
    j. Assume one trip to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)

3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
    d. Concept preparation – horizontal layout of project extents, Kick-off meeting exhibit preparation
    e. 30% Design – horizontal layout, curb and gutter, sidewalk, pavement extents, rail crossing improvements and signage, plan and profile sheets preparation (40-scale, 2 sheets)
    f. Address 30% comments
    g. Finalize horizontal roadway design
    h. Prepare cover, notes, survey control sheets
    i. Update plan and profile sheets, key map
    j. Finalize 60% plan set, submit for review
5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. No geotechnical assumed for design in this scope of work
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
    c. Address vertical impacts to detention basin
10. Structural Design:
    a. Back of sidewalk retaining wall design – assume retained height does not exceed 3’ – no structural calculations required
11. Drainage:
    a. Roadway drainage calculations for one inlet to drain into existing detention basin
    b. Assume no drainage memo
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Assume no impacts to utilities
    c. Assume power poles will be protected in place

13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr)
    b. 60% Design Review Meeting – preparation and attendance (Design Mgr)
    c. 100% Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
    d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)
17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 3 sheets, including intersection and railroad crossing detail sheet)
        iii. Finalize plan and profile sheets
        iv. Erosion control plans – 1 sheet
        v. Demo and Removal – combined with other sheets
    b. No storm drain improvements except an inlet box and tie-in to detention basin
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide two modified and special provisions
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications
19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 1
    b. Address RFIs – assume 1
    c. Submittal reviews – assume 2
    d. Assume no formal plan set design changes
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

WVC_BKL_5

1. Administration:
    a. 16-week design schedule
    b. Full Design Effort
    c. One Local Partner Kick-Off Meeting (Design Manager, Design Lead Attend) – Concept exhibit, strip plot with aerial, Extopo, ROW/Boundary, concept (from Task 4)
    d. 3-hr/wk management of design effort
    e. Monthly schedule updates
    f. 0.5-hr/wk Contractor coordination
    g. 0.5-hr/wk UTA, Local Partner coordination
    h. Provide exhibits, documents to Contractor for public involvement effort, attend one city council meeting/open house
    i. Assume six trips to Local Partner Office (1.5 hour round trip)
    j. Assume one trip to UTA Office associated with project
2. Quality Control Program:
    a. Formal QC reviews at 30%, 60%, 100%, RFC
    b. Formal QA reviews of each milestone
    c. QC review of ROW/Boundary CAD file (CS)
    d. QC survey control (CS)
    e. QC field topography (Perigee)
3. Survey and Mapping:
    a. ROW/property document research (Perigee)
    b. Survey request preparation & blue stakes request (CS)
    c. Set control, field topography (Perigee)
    d. ROW/boundary analysis, prepare ROW/Boundary CAD file (Perigee)
    e. Topography data post processing, prepare ExTopo CAD file (CS)
4. Develop Plans:
    a. Site visit, photos – one trip
    b. Pre-kick off material collection, review
    c. Pre-kick off meeting with UTA, Contractor (Design Manager, Design Lead attend)
    d. Concept preparation – typical section concept, horizontal layout of project extents, striping, SD facilities, undeveloped property access locations, Kick-off meeting exhibit preparation
    e. 30% Design – typical section development, horizontal layout of striping, curb and gutter, sidewalk, intersection tie-ins, pavement and overlay extents, plan and profile sheets preparation (40-scale, 7 sheets)
    f. Address 30% comments
    g. Finalize horizontal roadway design
    h. Prepare cover, notes, survey control sheets
    i. Update plan and profile sheets, key map
    j. Signing and striping sheets (40-scale, 4 sheets) – assume bike lane striping and signing on both sides of street
    k. Typical sections detail sheets
    l. Develop storm drain pipe networks
    m. Finalize 60% plan set, submit for review
    n. Review and include pavement overlay if practical

5. Right-of-way:
    a. Reserved only for potential ROW action – none assumed in this scope of work
6. Permits:
    a. No permitting assumed for design in this scope of work
7. Design Criteria:
    a. Using Program Standard Drawings & Specifications Document and Design Document, identify and document standards for this project
    b. Coordination with Active Transportation Designer (Alta) – standard elements to incorporate into project
    c. Bid items coordination with Contractor
8. Geotechnical:
    a. Coordination with Geotechnical Engineer – Pavement Analysis & Design
    b. Perform field work, laboratory testing, pavement analysis, reporting (Terracon)
    c. Pavement analysis & design includes existing asphalt coring (3) and (3) 10' borings
    d.
9. Earthwork and Grading:
    a. Preliminary vertical design (30%)
    b. Final vertical design (60%)
    c. Intersections/access vertical design – 4
10. Structural Design:
    a. Back of sidewalk retaining wall design – assume retained height does not exceed 3' – minimal structural design required
11. Drainage:
    a. Roadway hydrology analysis
    b. Identification of proposed outfalls
    c. Preliminary storm drain analysis
    d. Prepare preliminary drainage memo
    e. Update roadway hydrology and storm drain analysis (60% - 100% design)
    f. Prepare final drainage memo
12. Utilities:
    a. Initial collection of as-built drawings from utility companies (water/sewer, power, communications, gas)
    b. Initial utility company coordination efforts (30% design impacts)
    c. 60% utility company coordination – design impacts (assume two companies)
    d. Coordinate utility company relocation designs (design provided by companies)
    e. Identify Contractor pothole needs
    f. Finalize utility company relocation design coordination, hand off to Contractor
    g. Assume no relocation of power poles – curb and sidewalk design around poles
    h. Assume 4 site meetings with utility companies – 4 trips
13. Staging Plans & MOT:
    a. Assume straight forward effort handled by Contractor
14. Environmental Commitments:
    a. Review and documentation of commitments, identification of design limitations
15. Landscaping & Irrigation:
    a. No landscape design assumed in this scope of work
    b. No lighting design assumed in this scope of work
16. Design and Constructability Review:
    a. 30% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)

b. 60% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
c. 100% Design Review Meeting – preparation and attendance (Design Mgr, Design Lead)
d. RFC Design Review Meeting – preparation and coordination – digital via email only (Design Mgr, Design Lead)

17. Construction Drawings & Specs:
    a. Prepare 100% Plan Set:
        i. Update cover, notes, survey control
        ii. Finalize detail sheets – 7 sheets
        iii. Finalize plan and profile sheets, signing and striping sheets
        iv. Erosion control plans – 3 sheets
        v. Demo and Removal – 3 sheets
    b. Finalize storm drain pipe networks
    c. Prepare specifications in Word/PDF format – reference and include standard specifications, provide seven modified and special provisions
18. VE/Cost Savings Measures:
    a. Variable Scope Analysis – at 30%, in coordination with Contractor, UTA, Local Partner, Active Transportation Designer
    b. Review material needs at 30%, 60% – identify any long-lead items – assume none in this scope of work
    c. Contractor coordination at 30%, 60% - material exchanges, constructability modifications

19. Quantities:
    a. Concept level estimate of quantities – submitted to Contractor prior to Pre-Kick off Meeting
    b. 30% quantities update
    c. 60% quantities update
    d. 100% quantities update
    e. RFC – final quantities delivery to Contractor, UTA
20. Design Services During Construction:
    a. Field visit during construction, and documentation report – assume 3
    b. Address RFIs – assume 5
    c. Submittal reviews – assume 5
    d. Formal plan set design change – assume 2
21. As-built Drawings:
    a. Receive Contractor redline and review
    b. Provide comments, verify comments addressed
    c. File as-built drawings as final, close out project

Exhibit B - Considerations

UTA TIGER Grant Program - Design Summary and Hours

4/26/2018

Year	Project	Total Hrs	Civil Science	Perigee*	FFKR	Terracon	MBI	Design Estimate	Design Estimate % of Budget	Design Effort	Firm Involvement
2018	BOU_ADA_1	154.25	140.25	14	0	0	0	$18,114.98	7.1%	Field Support	CS - field support, design, Perigee - survey
2018	DRA_BKL_5	26	26	0	0	0	0	$2,830.92	19.9%	Expedited Design	CS - design
2018	FAR_ADA_1	37.75	27.75	10	0	0	0	$4,290.55	11.0%	Field Support	CS - field support, design, Perigee - survey
2018	FAR_BKL_1	37.25	37.25	0	0	0	0	$3,951.83	3.1%	Expedited Design	CS - design
2018	FAR_CWI_1	45.75	45.75	0	0	0	0	$5,131.07	18.0%	Expedited Design	CS - design
2018	FAR_CWI_3	45.75	45.75	0	0	0	0	$5,131.07	17.5%	Expedited Design	CS - design
2018	FAR_SWK_4	345	264	81	0	0	0	$40,795.21	5.9%	Expedited Design	CS - design, Perigee - survey - for extension of SW to State Street only
2018	FAR_SWK_7	51.75	51.75	0	0	0	0	$6,404.45	3.3%	Field Support	CS - field support
2018	FAR_SWK_3	236	173	63	0	0	0	$27,252.26	15.1%	Expedited Design	CS - design, Perigee - survey
2018	FAR_CWI_6	17.25	17.25	0	0	0	0	$2,082.02	19.0%	Field Support	CS - field support
2018	HER_BKL_8	30.75	30.75	0	0	0	0	$3,221.62	18.9%	Expedited Design	CS - design
2018	MID_CWI_1	217.75	165.75	52	0	0	0	$28,637.46	14.4%	Expedited Design	CS - design, Perigee - survey
2018	SOJ_BKL_2	58.75	58.75	0	0	0	0	$6,201.16	14.0%	Expedited Design	CS - design
2018	SOJ_BKL_4	0	0	0	0	0	0	$0.00	0.0%	N/A	N/A - See SOJ_BKL_2
2018	SOJ_BKL_5	0	0	0	0	0	0	$0.00	0.0%	N/A	N/A - See SOJ_BKL_2
2018	SOJ_BKL_6	15	15	0	0	0	0	$1,567.16	25.4%	Expedited Design	CS - design
2018	SOJ_BKL_7	19	19	0	0	0	0	$1,998.24	22.3%	Expedited Design	CS - design
2018	SSL_MUP_2	375	290	45	40	0	0	$45,751.59	7.4%	Full Design	CS - design, Perigee - survey, FFKR - landscaping
2018	SUCo_BKS_1	44.75	44.75	0	0	0	0	$5,315.43	0.6%	Field Support	CS - field support
2019	LEH_OP_1	3211.25	3002.25	48	52	109	0	$398,911.56	7.6%	Full Design	CS - design & structural, Perigee - survey, FFKR - landscaping & structure aesthetics
2019	OGD_BKL_1	1643.5	1294.5	89	212	48	0	$193,419.46	10.1%	Full Design	CS - design, Perigee - survey, FFKR - landscaping
2019	SLC_BKS_1	42.75	42.75	0	0	0	0	$5,223.58	0.6%	Field Support	CS - field support
2019	SLC_MUP_1	1849.5	1533.5	156	160	0	0	$215,600.27	8.9%	Full Design	CS - design, Perigee - survey, FFKR - landscaping
2019	SAN_MUP_1	1916	1773	73	28	42	0	$218,109.33	8.0%	Full Design	CS - design, Perigee - survey, FFKR - landscaping, Terracon - geotechnical
2020	MIL_SWK_1	352.5	307.5	45	0	0	0	$42,317.22	10.7%	Full Design	CS - design, Perigee - survey
2020	PRO_OP_1	3944	1633	44	0	124	2143	$493,611.60	11.4%	Full Design	CS - design, Perigee - survey, Terracon - geotechnical, MBI - structural & aesthetics
2020	SLC_OP_1	3761	1635	44	1958	124	0	$497,592.15	8.2%	Full Design	CS - design, Perigee - survey, FFKR - structural, structure aesthetics & landscaping, Terracon - geotechnical
2020	WEJ_RRX_2	196.75	167.75	29	0	0	0	$25,241.58	24.9%	Full Design	CS - design, Perigee - survey
2021	WVC_BKL_5	1369.5	1246.5	77	0	46	0	$161,440.74	9.4%	Full Design	CS - design, Perigee - survey, Terracon - geotechnical
	Total	20044.5	14088.5	870	2450	493	2143	$2,460,144.51	7.7%		
	% of Work	100%	70%	4.3%	12%	2%	11%				

* Perigee - DBE - 3% Goal

Design Effort	Design Estimate	Design Estimate % of Budget
Field Support	$41,431.01	1.9%
Expedited Design	$126,718.00	9.4%
Full Design	$2,460,144.51	8.5%

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
BOU_ADA_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	11.5	$49.75	$572.13
AJ Yates		$51.50	
Kyle Comer	0.75	$53.00	$39.75
Jay Meacham		$46.50	
Brandon Weight	2	$39.50	$79.00
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	16.5	$39.50	$651.75
Jacob Elder		$24.52	
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	8	$39.50	$316.00
Todd Kitchen	4	$28.00	$112.00
Greg Perkins	96	$34.10	$3,273.60
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont		$15.00	
Francois Dupuis	1	$42.00	$42.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	140.25		$5,112.98
	Overhead Rate / Overhead Amount	181.43%	$9,276.47
	Subtotal		$14,389.45
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$1,726.73
		Total Labor	$16,116.18

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	1,250	$681.25
		Direct Expenses	$681.25

SUBCONSULTANT(S) EXPENSE

Perigee	$ 1,317.55
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	$1,317.55
TOTAL COSTS	**$18,114.98**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
BOU_ADA_1
Field Support

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																		1	0.5	2
1.2 Schedule	1																				1
1.3 Coordination with the Contractor	1																				1
1.4 Coordination with UDOT and the Local Partners	3																				3
1.5 Public Communications	1																				1
2.0 QUALITY CONTROL			0.75		2			4													6.75
3.0 SURVEYING AND MAPPING								2					4								6
4.0 DEVELOP PLANS																					
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	1							3						4							8
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING												8									8
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	1							3						4							8
18.0 VALUE ENGINEERING/COST SAVING MEASURES																					
19.0 QUANTITIES								0.5													0.5
20.0 DESIGN SERVICES DURING CONSTRUCTION	2							4						75							81
21.0 AS-BUILT DRAWINGS	1													13							14
Summary of Hours	11.5		0.75		2			16.5				8	4	96					1	0.5	140.25
Summary of Raw Labor Expense	$572.13		$39.75		$79.00			$651.75				$316.00	$112.00	$3,273.60					$42.00	$26.75	
	8%																				

TOTAL LABOR HOURS	**140.25**
TOTAL RAW LABOR EXPENSES	**$5,112.98**

Assumptions: See Scope of Work

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
DRA_BKL_5

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	3.5	$49.75	$174.13
AJ Yates		$51.50	
Kyle Comer	0.5	$53.00	$26.50
Jay Meacham	0.5	$46.50	$23.25
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones		$39.50	
Jacob Elder	0.5	$24.52	$12.26
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	6	$39.50	$237.00
Todd Kitchen	14	$28.00	$392.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	26		$893.64
	Overhead Rate / Overhead Amount	181.43%	$1,621.32
	Subtotal		$2,514.96
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$301.79
		Total Labor	$2,816.75

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	26	$14.17
		Direct Expenses	$14.17

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$2,830.92**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
DRA_BKL_5
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																	0.5	0.5		1.5
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	1																				1
1.5 Public Communications	0.5																				0.5
2.0 QUALITY CONTROL			0.5	0.5																	1
3.0 SURVEYING AND MAPPING													1								1
4.0 DEVELOP PLANS												2	6								8
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA												2									2
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	0.5																				0.5
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS									0.5				6								6.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES												0.25									0.25
19.0 QUANTITIES												0.5	1								1.5
20.0 DESIGN SERVICES DURING CONSTRUCTION												1									1
21.0 AS-BUILT DRAWINGS												0.25									0.25
Summary of Hours	3.5		0.5	0.5					0.5			6	14					0.5	0.5		26
Summary of Raw Labor Expense	$174.13		$26.50	$23.25					$12.26			$237.00	$392.00					$7.50	$21.00		
	13%																				

TOTAL LABOR HOURS	**26**
TOTAL RAW LABOR EXPENSES	**$893.64**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
FAR_ADA_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	4	$49.75	$199.00
AJ Yates		$51.50	
Kyle Comer	0.25	$53.00	$13.25
Jay Meacham	0.25	$46.50	$11.63
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	2	$39.50	$79.00
Jacob Elder		$24.52	
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	4.25	$39.50	$167.88
Todd Kitchen		$28.00	
Greg Perkins	16	$34.10	$545.60
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	27.75		$1,044.85
	Overhead Rate / Overhead Amount	181.43%	$1,895.67
	Subtotal		$2,940.52
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$352.86
		Total Labor	$3,293.38

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	176	$95.92
		Direct Expenses	$95.92

SUBCONSULTANT(S) EXPENSE

Perigee	$901.25
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	$901.25
TOTAL COSTS	**$4,290.55**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
FAR_ADA_1
Field Support

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																	0.5	0.5		1.5
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	0.5																				0.5
1.5 Public Communications	0.5																				0.5
2.0 QUALITY CONTROL			0.25	0.25																	0.5
3.0 SURVEYING AND MAPPING																					
4.0 DEVELOP PLANS																					
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	0.5							0.5						1							2
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING												4									4
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	0.5							1						1							2.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES																					
19.0 QUANTITIES								0.5													0.5
20.0 DESIGN SERVICES DURING CONSTRUCTION														12							12
21.0 AS-BUILT DRAWINGS	0.5											0.25		2							2.75
Summary of Hours	4		0.25	0.25				2				4.25		16				0.5	0.5		27.75
Summary of Raw Labor Expense	$199.00		$13.25	$11.63				$79.00				$167.88		$545.60				$7.50	$21.00		
	14%																				

TOTAL LABOR HOURS	**27.75**
TOTAL RAW LABOR EXPENSES	**$1,044.85**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
FAR_BKL_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	3.5	$49.75	$174.13
AJ Yates		$51.50	
Kyle Comer	0.5	$53.00	$26.50
Jay Meacham	0.5	$46.50	$23.25
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones		$39.50	
Jacob Elder	1.5	$24.52	$36.78
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	8.75	$39.50	$345.63
Todd Kitchen	21	$28.00	$588.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter	0.5	$31.50	$15.75
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	37.25		$1,238.53
	Overhead Rate / Overhead Amount	181.43%	$2,247.06
	Subtotal		$3,485.59
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$418.27
		Total Labor	$3,903.87

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	88	$47.96
		Direct Expenses	$47.96

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$3,951.83**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
FAR_BKL_1
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																0.5	0.5	0.5		2
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	0.5																				0.5
1.5 Public Communications	0.5																				0.5
2.0 QUALITY CONTROL			0.5	0.5																	1
3.0 SURVEYING AND MAPPING													1								1
4.0 DEVELOP PLANS									1			4	8								13
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA												2									2
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	1											0.5									1.5
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS									0.5				10								10.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES												0.5									0.5
19.0 QUANTITIES												0.5	2								2.5
20.0 DESIGN SERVICES DURING CONSTRUCTION												1									1
21.0 AS-BUILT DRAWINGS												0.25									0.25
Summary of Hours	3.5		0.5	0.5					1.5			8.75	21				0.5	0.5	0.5		37.25
Summary of Raw Labor Expense	$174.13		$26.50	$23.25					$36.78			$345.63	$588.00				$15.75	$7.50	$21.00		
	9%																			**TOTAL LABOR HOURS**	**37.25**
																				TOTAL RAW LABOR EXPENSES	**$1,238.53**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
FAR_CWI_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	5	$49.75	$248.75
AJ Yates		$51.50	
Kyle Comer	0.5	$53.00	$26.50
Jay Meacham	0.5	$46.50	$23.25
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	1	$39.50	$39.50
Jacob Elder	1.5	$24.52	$36.78
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	16.75	$39.50	$661.63
Todd Kitchen	19	$28.00	$532.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter	0.5	$31.50	$15.75
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	45.75		$1,612.66
	Overhead Rate / Overhead Amount	181.43%	$2,925.84
	Subtotal		$4,538.49
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$544.62
		Total Labor	$5,083.11

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	88	$47.96
		Direct Expenses	$47.96

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$5,131.07**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
FAR_CWI_1
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																0.5	0.5	0.5		2
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	0.5																				0.5
1.5 Public Communications	0.5																				0.5
2.0 QUALITY CONTROL			0.5	0.5				1													2
3.0 SURVEYING AND MAPPING													1								1
4.0 DEVELOP PLANS									1			4	8								13
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	1											2									3
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING												4									4
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	1											0.5									1.5
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS									0.5			4	8								12.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES												0.5									0.5
19.0 QUANTITIES												0.5	2								2.5
20.0 DESIGN SERVICES DURING CONSTRUCTION	0.25											1									1.25
21.0 AS-BUILT DRAWINGS	0.25											0.25									0.5
Summary of Hours	5		0.5	0.5				1	1.5			16.75	19				0.5	0.5	0.5		45.75
Summary of Raw Labor Expense	$248.75		$26.50	$23.25				$39.50	$36.78			$661.63	$532.00				$15.75	$7.50	$21.00		
	11%																			**TOTAL LABOR HOURS**	**45.75**
																				TOTAL RAW LABOR EXPENSES	**$1,612.66**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
FAR_CWI_3

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	5	$49.75	$248.75
AJ Yates		$51.50	
Kyle Comer	0.5	$53.00	$26.50
Jay Meacham	0.5	$46.50	$23.25
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	1	$39.50	$39.50
Jacob Elder	1.5	$24.52	$36.78
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	16.75	$39.50	$661.63
Todd Kitchen	19	$28.00	$532.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter	0.5	$31.50	$15.75
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	45.75		$1,612.66
	Overhead Rate / Overhead Amount	181.43%	$2,925.84
	Subtotal		$4,538.49
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$544.62
		Total Labor	$5,083.11

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	88	$47.96
		Direct Expenses	$47.96

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$5,131.07**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
FAR_CWI_3
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																0.5	0.5	0.5		2
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	0.5																				0.5
1.5 Public Communications	0.5																				0.5
2.0 QUALITY CONTROL			0.5	0.5				1													2
3.0 SURVEYING AND MAPPING													1								1
4.0 DEVELOP PLANS									1			4	8								13
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	1											2									3
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING												4									4
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	1											0.5									1.5
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS									0.5			4	8								12.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES												0.5									0.5
19.0 QUANTITIES												0.5	2								2.5
20.0 DESIGN SERVICES DURING CONSTRUCTION	0.25											1									1.25
21.0 AS-BUILT DRAWINGS	0.25											0.25									0.5
Summary of Hours	5		0.5	0.5				1	1.5			16.75	19				0.5	0.5	0.5		45.75
Summary of Raw Labor Expense	$248.75		$26.50	$23.25				$39.50	$36.78			$661.63	$532.00				$15.75	$7.50	$21.00		
	11%																			**TOTAL LABOR HOURS**	**45.75**
																				TOTAL RAW LABOR EXPENSES	**$1,612.66**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
FAR_CWI_6

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	3	$49.75	$149.25
AJ Yates		$51.50	
Kyle Comer	0.5	$53.00	$26.50
Jay Meacham		$46.50	
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	1	$39.50	$39.50
Jacob Elder	1.5	$24.52	$36.78
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	0.25	$39.50	$9.88
Todd Kitchen		$19.00	
Greg Perkins	9.5	$34.10	$323.95
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter	0.5	$31.50	$15.75
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	17.25		$630.11
		Overhead Rate / Overhead Amount 181.43%	$1,143.20
		Subtotal	$1,773.30
		Fixed Fee Rate / Fixed Fee Amount 12.00%	$212.80
		Total Labor	$1,986.10

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	176	$95.92
		Direct Expenses	$95.92

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$2,082.02**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
FAR_CWI_6
Field Support

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$19.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																0.5	0.5	0.5		2
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	0.5																				0.5
1.5 Public Communications	0.5																				0.5
2.0 QUALITY CONTROL			0.5																		0.5
3.0 SURVEYING AND MAPPING																					
4.0 DEVELOP PLANS																					
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA								0.5						0.5							1
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS								0.5	1					1							2.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES																					
19.0 QUANTITIES									0.5												0.5
20.0 DESIGN SERVICES DURING CONSTRUCTION	0.25													8							8.25
21.0 AS-BUILT DRAWINGS	0.25											0.25									0.5
Summary of Hours	3		0.5					1	1.5			0.25		9.5			0.5	0.5	0.5		17.25
Summary of Raw Labor Expense	$149.25		$26.50					$39.50	$36.78			$9.88		$323.95			$15.75	$7.50	$21.00		
	17%																			**TOTAL LABOR HOURS**	**17.25**
																				TOTAL RAW LABOR EXPENSES	**$630.11**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
FAR_SWK_3

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	18.5	$49.75	$920.38
AJ Yates		$51.50	
Kyle Comer	1	$53.00	$53.00
Jay Meacham	3	$46.50	$139.50
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	25	$39.50	$987.50
Jacob Elder	15.5	$24.52	$380.06
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	34	$39.50	$1,343.00
Todd Kitchen	72	$28.00	$2,016.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	0.5	$37.30	$18.65
JaNae Kotter	1	$31.50	$31.50
Gershawn Delimont	1	$15.00	$15.00
Francois Dupuis	1	$42.00	$42.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	173		$5,973.34
	Overhead Rate / Overhead Amount	181.43%	$10,837.42
	Subtotal		$16,810.76
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$2,017.29
		Total Labor	$18,828.05

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	88	$47.96
		Direct Expenses	$47.96

SUBCONSULTANT(S) EXPENSE

Perigee	$ 8,376.25
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	$8,376.25
TOTAL COSTS	**$27,252.26**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
FAR_SWK_3
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	4																1	1	1	0.5	7.5
1.2 Schedule	2																				2
1.3 Coordination with the Contractor	2																				2
1.4 Coordination with UDOT and the Local Partners	1																				1
1.5 Public Communications																					
2.0 QUALITY CONTROL	0.5		1	3												0.5					5
3.0 SURVEYING AND MAPPING								2					7								9
4.0 DEVELOP PLANS	1							6	3				30								40
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	0.5							1													1.5
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING								1				12									13
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES								1	3			6									10
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS									0.5												0.5
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	4											2									6
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	1							6	6			12	32								57
18.0 VALUE ENGINEERING/COST SAVING MEASURES	1							6													7
19.0 QUANTITIES								1	3				3								7
20.0 DESIGN SERVICES DURING CONSTRUCTION	1							1													2
21.0 AS-BUILT DRAWINGS	0.5											2									2.5
Summary of Hours	18.5		1	3				25	15.5			34	72			0.5	1	1	1	0.5	173
Summary of Raw Labor Expense	$920.38		$53.00	$139.50				$987.50	$380.06			$1,343.00	$2,016.00			$18.65	$31.50	$15.00	$42.00	$26.75	
	11%																			**TOTAL LABOR HOURS**	**173**
																				TOTAL RAW LABOR EXPENSES	**$5,973.34**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
FAR_SWK_4

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	39	$49.75	$1,940.25
AJ Yates	4.5	$51.50	$231.75
Kyle Comer	2	$53.00	$106.00
Jay Meacham	6	$46.50	$279.00
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	52	$39.50	$2,054.00
Jacob Elder	48	$24.52	$1,176.96
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	30	$39.50	$1,185.00
Todd Kitchen	68	$28.00	$1,904.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	8	$37.30	$298.40
JaNae Kotter	2	$31.50	$63.00
Gershawn Delimont	2	$15.00	$30.00
Francois Dupuis	2	$42.00	$84.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	264		$9,379.11
		Overhead Rate / Overhead Amount 181.43%	$17,016.52
		Subtotal	$26,395.63
		Fixed Fee Rate / Fixed Fee Amount 12.00%	$3,167.48
		Total Labor	$29,563.10

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	490	$267.05
		Direct Expenses	$267.05

SUBCONSULTANT(S) EXPENSE

Perigee	$ 10,965.06
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	$10,965.06
TOTAL COSTS	**$40,795.21**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
FAR_SWK_4
Expedited Design/Field Support

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	6																1	1	2	0.5	10.5
1.2 Schedule	2																				2
1.3 Coordination with the Contractor	3																				3
1.4 Coordination with UDOT and the Local Partners	8							4													12
1.5 Public Communications	4																				4
2.0 QUALITY CONTROL	1	1	2	6												8					18
3.0 SURVEYING AND MAPPING	1							3					12								16
4.0 DEVELOP PLANS	1							10	6				24								41
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	1							3													4
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING	1							3				16									20
10.0 STRUCTURAL DESIGN	1	2							8												11
11.0 DRAINAGE																					
12.0 UTILITIES	1							2	3			8									14
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS									1												1
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	6							3													9
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	1	1						16	24			4	32				1	1			80
18.0 VALUE ENGINEERING/COST SAVING MEASURES	0.5	0.5						1													2
19.0 QUANTITIES								3	6												9
20.0 DESIGN SERVICES DURING CONSTRUCTION	1							4													5
21.0 AS-BUILT DRAWINGS	0.5											2									2.5
Summary of Hours	39	4.5	2	6				52	48			30	68			8	2	2	2	0.5	264
Summary of Raw Labor Expense	$1,940.25	$231.75	$106.00	$279.00				$2,054.00	$1,176.96			$1,185.00	$1,904.00			$298.40	$63.00	$30.00	$84.00	$26.75	
	15%																				

TOTAL LABOR HOURS	**264**
TOTAL RAW LABOR EXPENSES	**$9,379.11**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
FAR_SWK_7

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	12.25	$49.75	$609.44
AJ Yates		$51.50	
Kyle Comer	1	$53.00	$53.00
Jay Meacham	3	$46.50	$139.50
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	19	$39.50	$750.50
Jacob Elder	12	$24.52	$294.24
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	1	$39.50	$39.50
Todd Kitchen		$20.00	
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter	1	$31.50	$31.50
Gershawn Delimont	1	$15.00	$15.00
Francois Dupuis	1	$42.00	$42.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	51.75		$2,001.43
	Overhead Rate / Overhead Amount	181.43%	$3,631.19
	Subtotal		$5,632.62
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$675.91
		Total Labor	$6,308.53

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	176	$95.92
		Direct Expenses	$95.92

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$6,404.45**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
FAR_SWK_7
Field Support

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$20.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	3																1	1	1	0.5	6.5
1.2 Schedule	2																				2
1.3 Coordination with the Contractor	4																				4
1.4 Coordination with UDOT and the Local Partners	1																				1
1.5 Public Communications	1																				1
2.0 QUALITY CONTROL			1	3																	4
3.0 SURVEYING AND MAPPING																					
4.0 DEVELOP PLANS																					
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA								2													2
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS								8	8												16
18.0 VALUE ENGINEERING/COST SAVING MEASURES																					
19.0 QUANTITIES								1	4												5
20.0 DESIGN SERVICES DURING CONSTRUCTION	1							8													9
21.0 AS-BUILT DRAWINGS	0.25											1									1.25
Summary of Hours	12.25		1	3				19	12			1					1	1	1	0.5	51.75
Summary of Raw Labor Expense	$609.44		$53.00	$139.50				$750.50	$294.24			$39.50					$31.50	$15.00	$42.00	$26.75	

TOTAL LABOR HOURS	**51.75**
TOTAL RAW LABOR EXPENSES	**$2,001.43**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
HER_BKL_8

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	3.5	$49.75	$174.13
AJ Yates		$51.50	
Kyle Comer	0.25	$53.00	$13.25
Jay Meacham	0.25	$46.50	$11.63
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones		$39.50	
Jacob Elder	1	$24.52	$24.52
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	6.25	$39.50	$246.88
Todd Kitchen	18.5	$28.00	$518.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	30.75		$1,016.90
	Overhead Rate / Overhead Amount	181.43%	$1,844.95
	Subtotal		$2,861.85
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$343.42
		Total Labor	$3,205.27

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	30	$16.35
		Direct Expenses	$16.35

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$3,221.62**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
HER_BKL_8
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																	0.5	0.5		1.5
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	1																				1
1.5 Public Communications	1																				1
2.0 QUALITY CONTROL			0.25	0.25																	0.5
3.0 SURVEYING AND MAPPING													0.5								0.5
4.0 DEVELOP PLANS									0.5			1	7								8.5
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA												1									1
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS									0.5			2	10								12.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES												0.5									0.5
19.0 QUANTITIES												0.5	1								1.5
20.0 DESIGN SERVICES DURING CONSTRUCTION												1									1
21.0 AS-BUILT DRAWINGS												0.25									0.25
Summary of Hours	3.5		0.25	0.25					1			6.25	18.5					0.5	0.5		30.75
Summary of Raw Labor Expense	$174.13		$13.25	$11.63					$24.52			$246.88	$518.00					$7.50	$21.00		
	11%																				

TOTAL LABOR HOURS	**30.75**
TOTAL RAW LABOR EXPENSES	**$1,016.90**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
LEH_OP_1 - MSE Wall Ramp Option

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	327	$49.75	$16,268.25
AJ Yates	678	$51.50	$34,917.00
Kyle Comer	16	$53.00	$848.00
Jay Meacham	40	$46.50	$1,860.00
Brandon Weight	36	$39.50	$1,422.00
Chris Maples		$33.50	
Mark Brailsford	232	$35.00	$8,120.00
Justin Jones	224	$39.50	$8,848.00
Jacob Elder	225	$24.52	$5,517.00
Nick Bjorkman	224	$28.00	$6,272.00
David Viets		$29.50	
Jake Wilder	284	$39.50	$11,218.00
Todd Kitchen	677.25	$28.00	$18,963.00
Greg Perkins		$34.10	
Kevin Clapper	20	$35.00	$700.00
Dodd Greer	6	$37.30	$223.80
JaNae Kotter	4	$31.50	$126.00
Gershawn Delimont	4	$15.00	$60.00
Francois Dupuis	4	$42.00	$168.00
Craig Swenson	1	$53.50	$53.50
TOTAL	3002.25		$115,584.55
	Overhead Rate / Overhead Amount	181.43%	$209,705.05
	Subtotal		$325,289.60
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$39,034.75
		Total Labor	$364,324.35

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	150	$81.75
		Direct Expenses	$81.75

SUBCONSULTANT(S) EXPENSE

Perigee	$8,590.73
FFKR	$6,500.00
Michael Baker	
Terracon	$19,414.73
Total Subconsultant	$34,505.46
TOTAL COSTS	**$398,911.56**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
LEH_OP_1 - MSE Wall Ramp Option
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	40																4	4	4	1	53
1.2 Schedule	32																				32
1.3 Coordination with the Contractor	60	100																			160
1.4 Coordination with UDOT and the Local Partners	40	80																			120
1.5 Public Communications	8																				8
2.0 QUALITY CONTROL	16	100	16	24	36											6					198
3.0 SURVEYING AND MAPPING	4							4					24								32
4.0 DEVELOP PLANS	8							40	40	40		50	20								198
Situation and Layout Sheets							20						40								60
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	8	80						20				20									128
8.0 GEOTECHNICAL	4	40																			44
9.0 EARTHWORK AND GRADING	8									40		120									168
10.0 STRUCTURAL DESIGN																					
Structure Type Selection Report		10					20														30
Develop FEM																					
Strength/Service Design		20					40														60
Seismic Design		30					80														110
Superstructure Design and Coordination																					
11.0 DRAINAGE	4			16				16	30												66
12.0 UTILITIES	6									24		24									54
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC	4	16													20						40
14.0 ENVIRONMENTAL COMMITMENTS	1								3												4
15.0 LANDSCAPING AND IRRIGATION	4																				4
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	24	32						24													80
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	16	60						100		80		50	90								396
Finish Situation and Layout Sheets									32				100								132
Foundation/Utility Plan									32				100								132
Drilled Shaft Details									16				50								66
Columns/Footing									16				50								66
Ramps																					
Bridge Abutment									16				50								66
Bridge Span Details									8				25								33
Bearing Details									8				25								33
Fencing Details																					
Lighting Details									8				25								33
Rebar Schedules									16				50								66
18.0 VALUE ENGINEERING/COST SAVING MEASURES	16																				16
Type Selection		40					16														56
Determine Early Release Items		20					16														36
19.0 QUANTITIES	8						20	20		40											88
20.0 DESIGN SERVICES DURING CONSTRUCTION	16	40					20														76
21.0 AS-BUILT DRAWINGS		10										20	28.25								58.25
Summary of Hours	327	678	16	40	36		232	224	225	224		284	677.25		20	6	4	4	4	1	3002.25
Summary of Raw Labor Expens	$16,268.25	$34,917.00	$848.00	$1,860.00	$1,422.00		$8,120.00	$8,848.00	$5,517.00	$6,272.00		$11,218.00	$18,963.00		$700.00	$223.80	$126.00	$60.00	$168.00	$53.50	
																			TOTAL LABOR HOURS		**3002.25**
																			TOTAL RAW LABOR EXPENSES		**$115,584.55**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
MID_CWI_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	25.75	$49.75	$1,281.06
AJ Yates	4	$51.50	$206.00
Kyle Comer	1.5	$53.00	$79.50
Jay Meacham	3	$46.50	$139.50
Brandon Weight	4	$39.50	$158.00
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	13	$39.50	$513.50
Jacob Elder	3	$24.52	$73.56
Nick Bjorkman	13	$28.00	$364.00
David Viets		$29.50	
Jake Wilder	44	$39.50	$1,738.00
Todd Kitchen	49	$28.00	$1,372.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	2	$37.30	$74.60
JaNae Kotter	1	$31.50	$31.50
Gershawn Delimont	1	$15.00	$15.00
Francois Dupuis	1	$42.00	$42.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	165.75		$6,114.97
	Overhead Rate / Overhead Amount	181.43%	$11,094.39
	Subtotal		$17,209.37
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$2,065.12
		Total Labor	$19,274.49

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	250	$136.25
		Direct Expenses	$136.25

SUBCONSULTANT(S) EXPENSE

Perigee	$ 9,226.72
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	$9,226.72
TOTAL COSTS	**$28,637.46**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
MID_CWI_1
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	6																1	1	1	0.5	9.5
1.2 Schedule	1.5																				1.5
1.3 Coordination with the Contractor	2	2																			4
1.4 Coordination with UDOT and the Local Partners	4							1													5
1.5 Public Communications	1																				1
2.0 QUALITY CONTROL			1.5	3	4			1								2					11.5
3.0 SURVEYING AND MAPPING	0.5							3					9								12.5
4.0 DEVELOP PLANS	1							2	3			4	12								22
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	1							2				7									10
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING												5									5
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES	0.5											6	4								10.5
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS	1							2		6											9
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	4											3									7
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	1									4		8	24								37
18.0 VALUE ENGINEERING/COST SAVING MEASURES	1	2						2				2									7
19.0 QUANTITIES										3		1									4
20.0 DESIGN SERVICES DURING CONSTRUCTION	1											6									7
21.0 AS-BUILT DRAWINGS	0.25											2									2.25
Summary of Hours	25.75	4	1.5	3	4			13	3	13		44	49			2	1	1	1	0.5	165.75
Summary of Raw Labor Expense	$1,281.06	$206.00	$79.50	$139.50	$158.00			$513.50	$73.56	$364.00		$1,738.00	$1,372.00			$74.60	$31.50	$15.00	$42.00	$26.75	
	16%																			**TOTAL LABOR HOURS**	**165.75**
																				TOTAL RAW LABOR EXPENSES	**$6,114.97**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
MIL_SWK_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	57	$49.75	$2,835.75
AJ Yates		$51.50	
Kyle Comer	2	$53.00	$106.00
Jay Meacham	8	$46.50	$372.00
Brandon Weight	12	$39.50	$474.00
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	36	$39.50	$1,422.00
Jacob Elder	16	$24.52	$392.32
Nick Bjorkman	24	$28.00	$672.00
David Viets		$29.50	
Jake Wilder	52	$39.50	$2,054.00
Todd Kitchen	89	$28.00	$2,492.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	4	$37.30	$149.20
JaNae Kotter	2	$31.50	$63.00
Gershawn Delimont	2	$15.00	$30.00
Francois Dupuis	3	$42.00	$126.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	307.5		$11,215.02
	Overhead Rate / Overhead Amount	181.43%	$20,347.41
	Subtotal		$31,562.43
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$3,787.49
		Total Labor	$35,349.92

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	386	$210.37
		Direct Expenses	$210.37

SUBCONSULTANT(S) EXPENSE

Perigee	$ 6,756.93
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	$6,756.93
TOTAL COSTS	**$42,317.22**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
MIL_SWK_1
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	8																2	2	3	0.5	15.5
1.2 Schedule	2																				2
1.3 Coordination with the Contractor	4																				4
1.4 Coordination with UDOT and the Local Partners	8							3													11
1.5 Public Communications	1																				1
2.0 QUALITY CONTROL			2	8	12											4					26
3.0 SURVEYING AND MAPPING	1							4					16								21
4.0 DEVELOP PLANS	2							6	4			8	24								44
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	2							2				2									6
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING	1							2				8									11
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE	1									8			8								17
12.0 UTILITIES								1	4			18	8								31
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS	1								2												3
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	16							3													19
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	3							6		16		12	32								69
18.0 VALUE ENGINEERING/COST SAVING MEASURES	2							2													4
19.0 QUANTITIES	1							1	6				1								9
20.0 DESIGN SERVICES DURING CONSTRUCTION	3							6													9
21.0 AS-BUILT DRAWINGS	1											4									5
Summary of Hours	57		2	8	12			36	16	24		52	89			4	2	2	3	0.5	307.5
Summary of Raw Labor Expense	$2,835.75		$106.00	$372.00	$474.00			$1,422.00	$392.32	$672.00		$2,054.00	$2,492.00			$149.20	$63.00	$30.00	$126.00	$26.75	
	19%																			**TOTAL LABOR HOURS**	**307.5**
																				TOTAL RAW LABOR EXPENSES	**$11,215.02**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
OGD_BKL_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	161.5	$49.75	$8,034.63
AJ Yates	52	$51.50	$2,678.00
Kyle Comer	4	$53.00	$212.00
Jay Meacham	12	$46.50	$558.00
Brandon Weight	20	$39.50	$790.00
Chris Maples		$33.50	
Mark Brailsford	16	$35.00	$560.00
Justin Jones	195	$39.50	$7,702.50
Jacob Elder	94	$24.52	$2,304.88
Nick Bjorkman	151	$28.00	$4,228.00
David Viets		$29.50	
Jake Wilder	222	$39.50	$8,769.00
Todd Kitchen	327	$28.00	$9,156.00
Greg Perkins		$34.10	
Kevin Clapper	20	$35.00	$700.00
Dodd Greer	10	$37.30	$373.00
JaNae Kotter	3	$31.50	$94.50
Gershawn Delimont	3	$15.00	$45.00
Francois Dupuis	3	$42.00	$126.00
Craig Swenson	1	$53.50	$53.50
TOTAL	1294.5		$46,385.01
	Overhead Rate / Overhead Amount	181.43%	$84,156.31
	Subtotal		$130,541.32
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$15,664.96
		Total Labor	$146,206.28

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	1,740	$948.30
		Direct Expenses	$948.30

SUBCONSULTANT(S) EXPENSE

Perigee	$ 10,774.38
FFKR	$26,500.00
Michael Baker	
Terracon	$8,990.50
Total Subconsultant	$46,264.88
TOTAL COSTS	**$193,419.46**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
OGD_BKL_1
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	28																3	3	3	1	38
1.2 Schedule	8																				8
1.3 Coordination with the Contractor	16	12																			28
1.4 Coordination with UDOT and the Local Partners	24							6													30
1.5 Public Communications	8												6								14
2.0 QUALITY CONTROL			4	12	20											10					46
3.0 SURVEYING AND MAPPING								4					32								36
4.0 DEVELOP PLANS	8							22	24	24		16	80								174
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	4	4						6				6									20
8.0 GEOTECHNICAL	2							8													10
9.0 EARTHWORK AND GRADING	6							16				60									82
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE	3							24		40			8								75
12.0 UTILITIES	8							4	8	16		50	16								102
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC	1	6											24		16						47
14.0 ENVIRONMENTAL COMMITMENTS	0.5								2												2.5
15.0 LANDSCAPING AND IRRIGATION	1						16	8					5								30
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	16							16													32
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	10	8						40	50	50		80	130								368
18.0 VALUE ENGINEERING/COST SAVING MEASURES	4	8						8													20
19.0 QUANTITIES	3	8						10		21		2	10								54
20.0 DESIGN SERVICES DURING CONSTRUCTION	8	6						23	10				16		4						67
21.0 AS-BUILT DRAWINGS	3											8									11
Summary of Hours	161.5	52	4	12	20		16	195	94	151		222	327		20	10	3	3	3	1	1294.5
Summary of Raw Labor Expense	$8,034.63	$2,678.00	$212.00	$558.00	$790.00		$560.00	$7,702.50	$2,304.88	$4,228.00		$8,769.00	$9,156.00		$700.00	$373.00	$94.50	$45.00	$126.00	$53.50	
	12%																			**TOTAL LABOR HOURS**	**1294.5**
																				TOTAL RAW LABOR EXPENSES	**$46,385.01**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
PRO_OP_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	330	$49.75	$16,417.50
AJ Yates	390	$51.50	$20,085.00
Kyle Comer	8	$53.00	$424.00
Jay Meacham	24	$46.50	$1,116.00
Brandon Weight	20	$39.50	$790.00
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	184	$39.50	$7,268.00
Jacob Elder	26	$24.52	$637.52
Nick Bjorkman	208	$28.00	$5,824.00
David Viets		$29.50	
Jake Wilder	234	$39.50	$9,243.00
Todd Kitchen	168	$28.00	$4,704.00
Greg Perkins		$34.10	
Kevin Clapper	20	$35.00	$700.00
Dodd Greer	8	$37.30	$298.40
JaNae Kotter	4	$31.50	$126.00
Gershawn Delimont	4	$15.00	$60.00
Francois Dupuis	4	$42.00	$168.00
Craig Swenson	1	$53.50	$53.50
TOTAL	1633		$67,914.92
		Overhead Rate / Overhead Amount 181.43%	$123,218.04
		Subtotal	$191,132.96
		Fixed Fee Rate / Fixed Fee Amount 12.00%	$22,935.96
		Total Labor	$214,068.91

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	520	$283.40
		Direct Expenses	$283.40

SUBCONSULTANT(S) EXPENSE

Perigee	$8,592.89
FFKR	
Michael Baker	$244,039.62
Terracon	$26,626.78
Total Subconsultant	$279,259.29
TOTAL COSTS	**$493,611.60**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
PRO_OP_1
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	40																4	4	4	1	53
1.2 Schedule	32																				32
1.3 Coordination with the Contractor	60	60																			120
1.4 Coordination with UDOT and the Local Partners	40	40																			80
1.5 Public Communications	8																				8
2.0 QUALITY CONTROL	16	24	8	16	20											8					92
3.0 SURVEYING AND MAPPING	4							4					28								36
4.0 DEVELOP PLANS	8							40		40		50	50								188
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	8	45						8				8									69
8.0 GEOTECHNICAL	4	20																			24
9.0 EARTHWORK AND GRADING	8									40		80									128
10.0 STRUCTURAL DESIGN		8																			8
11.0 DRAINAGE	4			8				16	24												52
12.0 UTILITIES	6									24		24									54
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC	4	16													20						40
14.0 ENVIRONMENTAL COMMITMENTS	1								2												3
15.0 LANDSCAPING AND IRRIGATION	4																				4
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	24	32						24													80
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	16	20						80		80		60	90								346
18.0 VALUE ENGINEERING/COST SAVING MEASURES	16	80																			96
19.0 QUANTITIES	8							12		24											44
20.0 DESIGN SERVICES DURING CONSTRUCTION	16	45																			61
21.0 AS-BUILT DRAWINGS	3											12									15
Summary of Hours	330	390	8	24	20			184	26	208		234	168		20	8	4	4	4	1	1633
Summary of Raw Labor Expens	$16,417.50	$20,085.00	$424.00	$1,116.00	$790.00			$7,268.00	$637.52	$5,824.00		$9,243.00	$4,704.00		$700.00	$298.40	$126.00	$60.00	$168.00	$53.50	
	20%																				
																				TOTAL LABOR HOURS	**1633**
																				TOTAL RAW LABOR EXPENSES	**$67,914.92**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SAN_MUP_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	155	$49.75	$7,711.25
AJ Yates	208	$51.50	$10,712.00
Kyle Comer	10	$53.00	$530.00
Jay Meacham	40	$46.50	$1,860.00
Brandon Weight	30	$39.50	$1,185.00
Chris Maples		$33.50	
Mark Brailsford	152	$35.00	$5,320.00
Justin Jones	215	$39.50	$8,492.50
Jacob Elder	193	$24.52	$4,732.36
Nick Bjorkman	105	$28.00	$2,940.00
David Viets	105	$29.50	$3,097.50
Jake Wilder	122	$39.50	$4,819.00
Todd Kitchen	422	$28.00	$11,816.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	8	$37.30	$298.40
JaNae Kotter	2	$31.50	$63.00
Gershawn Delimont	2	$15.00	$30.00
Francois Dupuis	3	$42.00	$126.00
Craig Swenson	1	$53.50	$53.50
TOTAL	1773		$63,786.51
	Overhead Rate / Overhead Amount	181.43%	$115,727.87
	Subtotal		$179,514.38
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$21,541.73
		Total Labor	$201,056.10

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	310	$168.95
		Direct Expenses	$168.95

SUBCONSULTANT(S) EXPENSE

Perigee	$ 9,144.84
FFKR	$3,500.00
Michael Baker	
Terracon	$4,239.44
Total Subconsultant	$16,884.28
TOTAL COSTS	**$218,109.33**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SAN_MUP_1
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	26	12															2	2	3	1	46
1.2 Schedule	7																				7
1.3 Coordination with the Contractor	20	24																			44
1.4 Coordination with UDOT and the Local Partners	10							3													13
1.5 Public Communications	3																				3
2.0 QUALITY CONTROL		50	10	22	30											8					120
3.0 SURVEYING AND MAPPING	1							4	3				24								32
4.0 DEVELOP PLANS	8	8						50	55	55	60	24	140								400
5.0 RIGHT-OF-WAY																					
6.0 PERMITS	8							4													12
7.0 DESIGN CRITERIA	4	6						8				6									24
8.0 GEOTECHNICAL	1	6						6													13
9.0 EARTHWORK AND GRADING	4							8				40									52
10.0 STRUCTURAL DESIGN	2	40					100														142
11.0 DRAINAGE	4			18				16	50				16								104
12.0 UTILITIES	3							12				40	20								75
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS	1								3												4
15.0 LANDSCAPING AND IRRIGATION	1						12	4													17
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	16							16													32
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	16	40					40	40	50	50	45		200								481
18.0 VALUE ENGINEERING/COST SAVING MEASURES	6	12						8													26
19.0 QUANTITIES	3	4						12	24				6								49
20.0 DESIGN SERVICES DURING CONSTRUCTION	8	6						24	8			4	16								66
21.0 AS-BUILT DRAWINGS	3											8									11
Summary of Hours	155	208	10	40	30		152	215	193	105	105	122	422			8	2	2	3	1	1773
Summary of Raw Labor Expense	$7,711.25	$10,712.00	$530.00	$1,860.00	$1,185.00		$5,320.00	$8,492.50	$4,732.36	$2,940.00	$3,097.50	$4,819.00	#########			$298.40	$63.00	$30.00	$126.00	$53.50	
	9%																				

TOTAL LABOR HOURS	**1773**
TOTAL RAW LABOR EXPENSES	**$63,786.51**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SLC_BKS_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	6.5	$49.75	$323.38
AJ Yates	14	$51.50	$721.00
Kyle Comer	0.25	$53.00	$13.25
Jay Meacham		$46.50	
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones		$39.50	
Jacob Elder	11	$24.52	$269.72
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	1	$39.50	$39.50
Todd Kitchen	10	$28.00	$280.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont		$15.00	
Francois Dupuis		$42.00	
Craig Swenson		$53.50	
TOTAL	42.75		$1,646.85
	Overhead Rate / Overhead Amount	181.43%	$2,987.87
	Subtotal		$4,634.72
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$556.17
		Total Labor	$5,190.88

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	60	$32.70
		Direct Expenses	$32.70

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$5,223.58**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SLC_BKS_1
Field Support

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	1																				1
1.2 Schedule																					
1.3 Coordination with the Contractor	2	2																			4
1.4 Coordination with UDOT and the Local Partners	3																				3
1.5 Public Communications																					
2.0 QUALITY CONTROL	0.25	1	0.25																		1.5
3.0 SURVEYING AND MAPPING																					
4.0 DEVELOP PLANS																					
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA		1										1									2
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN		2							8				10								20
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS																					
18.0 VALUE ENGINEERING/COST SAVING MEASURES																					
19.0 QUANTITIES		1							3												4
20.0 DESIGN SERVICES DURING CONSTRUCTION		6																			6
21.0 AS-BUILT DRAWINGS	0.25	1																			1.25
Summary of Hours	6.5	14	0.25						11			1	10								42.75
Summary of Raw Labor Expense	$323.38	$721.00	$13.25						$269.72			$39.50	$280.00								
	15%																				

TOTAL LABOR HOURS	**42.75**
TOTAL RAW LABOR EXPENSES	**$1,646.85**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SLC_MUP_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	196	$49.75	$9,751.00
AJ Yates	86	$51.50	$4,429.00
Kyle Comer	8	$53.00	$424.00
Jay Meacham	32	$46.50	$1,488.00
Brandon Weight	36	$39.50	$1,422.00
Chris Maples		$33.50	
Mark Brailsford	16	$35.00	$560.00
Justin Jones	224	$39.50	$8,848.00
Jacob Elder	163	$24.52	$3,996.76
Nick Bjorkman	169	$28.00	$4,732.00
David Viets		$29.50	
Jake Wilder	200	$39.50	$7,900.00
Todd Kitchen	384	$28.00	$10,752.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	12	$37.30	$447.60
JaNae Kotter	2	$31.50	$63.00
Gershawn Delimont	2	$15.00	$30.00
Francois Dupuis	3	$42.00	$126.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	1533.5		$54,996.11
	Overhead Rate / Overhead Amount	181.43%	$99,779.44
	Subtotal		$154,775.55
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$18,573.07
		Total Labor	$173,348.62

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	900	$490.50
		Direct Expenses	$490.50

SUBCONSULTANT(S) EXPENSE

Perigee	$21,761.15
FFKR	$20,000.00
Michael Baker	
Terracon	
Total Subconsultant	$41,761.15
TOTAL COSTS	**$215,600.27**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SLC_MUP_1
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	36	12															2	2	3	0.5	55.5
1.2 Schedule	8																				8
1.3 Coordination with the Contractor	20	24																			44
1.4 Coordination with UDOT and the Local Partners	32							5													37
1.5 Public Communications	8																				8
2.0 QUALITY CONTROL		12	8	24	36											12					92
3.0 SURVEYING AND MAPPING								6	3				32								41
4.0 DEVELOP PLANS	16	10						40	60	65		50	130								371
5.0 RIGHT-OF-WAY																					
6.0 PERMITS	8							12													20
7.0 DESIGN CRITERIA	6	6						12													24
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING	4	1						16	8	8		50									87
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE	4			8				24		24			8								68
12.0 UTILITIES	3								10			30	8								51
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS	1								2												3
15.0 LANDSCAPING AND IRRIGATION	1						16	8													25
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	10							10													20
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	10							45	60	60		60	180								415
18.0 VALUE ENGINEERING/COST SAVING MEASURES	5	5						8													18
19.0 QUANTITIES	5							8	20				10								43
20.0 DESIGN SERVICES DURING CONSTRUCTION	16	16						30		12		4	16								94
21.0 AS-BUILT DRAWINGS	3											6									9
Summary of Hours	196	86	8	32	36		16	224	163	169		200	384			12	2	2	3	0.5	1533.5
Summary of Raw Labor Expense	$9,751.00	$4,429.00	$424.00	$1,488.00	$1,422.00		$560.00	$8,848.00	$3,996.76	$4,732.00		$7,900.00	#########			$447.60	$63.00	$30.00	$126.00	$26.75	
	13%																				

TOTAL LABOR HOURS	**1533.5**
TOTAL RAW LABOR EXPENSES	**$54,996.11**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SLC_OP_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	332	$49.75	$16,517.00
AJ Yates	390	$51.50	$20,085.00
Kyle Comer	8	$53.00	$424.00
Jay Meacham	24	$46.50	$1,116.00
Brandon Weight	20	$39.50	$790.00
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	184	$39.50	$7,268.00
Jacob Elder	26	$24.52	$637.52
Nick Bjorkman	208	$28.00	$5,824.00
David Viets		$29.50	
Jake Wilder	234	$39.50	$9,243.00
Todd Kitchen	168	$28.00	$4,704.00
Greg Perkins		$34.10	
Kevin Clapper	20	$35.00	$700.00
Dodd Greer	8	$37.30	$298.40
JaNae Kotter	4	$31.50	$126.00
Gershawn Delimont	4	$15.00	$60.00
Francois Dupuis	4	$42.00	$168.00
Craig Swenson	1	$53.50	$53.50
TOTAL	1635		$68,014.42
		Overhead Rate / Overhead Amount 181.43%	$123,398.56
		Subtotal	$191,412.98
		Fixed Fee Rate / Fixed Fee Amount 12.00%	$22,969.56
		Total Labor	$214,382.54

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	600	$327.00
		Direct Expenses	$327.00

SUBCONSULTANT(S) EXPENSE

Perigee	$8,255.83
FFKR	$244,750.00
Michael Baker	
Terracon	$26,626.78
Total Subconsultant	$279,632.61
TOTAL COSTS	**$494,342.15**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SLC_OP_1
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	40																4	4	4	1	53
1.2 Schedule	32																				32
1.3 Coordination with the Contractor	60	60																			120
1.4 Coordination with UDOT and the Local Partners	40	40																			80
1.5 Public Communications	8																				8
2.0 QUALITY CONTROL	16	24	8	16	20											8					92
3.0 SURVEYING AND MAPPING	4							4					28								36
4.0 DEVELOP PLANS	8							40		40		50	50								188
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	8	45						8				8									69
8.0 GEOTECHNICAL	4	20																			24
9.0 EARTHWORK AND GRADING	8									40		80									128
10.0 STRUCTURAL DESIGN		8																			8
11.0 DRAINAGE	4			8				16	24												52
12.0 UTILITIES	8									24		24									56
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC	4	16													20						40
14.0 ENVIRONMENTAL COMMITMENTS	1								2												3
15.0 LANDSCAPING AND IRRIGATION	4																				4
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	24	32						24													80
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	16	20						80		80		60	90								346
18.0 VALUE ENGINEERING/COST SAVING MEASURES	16	80																			96
19.0 QUANTITIES	8							12		24											44
20.0 DESIGN SERVICES DURING CONSTRUCTION	16	45																			61
21.0 AS-BUILT DRAWINGS	3											12									15
Summary of Hours	332	390	8	24	20			184	26	208		234	168		20	8	4	4	4	1	1635
Summary of Raw Labor Expens	$16,517.00	$20,085.00	$424.00	$1,116.00	$790.00			$7,268.00	$637.52	$5,824.00		$9,243.00	$4,704.00		$700.00	$298.40	$126.00	$60.00	$168.00	$53.50	

TOTAL LABOR HOURS	**1635**
TOTAL RAW LABOR EXPENSES	**$68,014.42**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SOJ_BKL_2

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	6	$49.75	$298.50
AJ Yates		$51.50	
Kyle Comer	0.5	$53.00	$26.50
Jay Meacham	1	$46.50	$46.50
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones		$39.50	
Jacob Elder	2.5	$24.52	$61.30
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	14.25	$39.50	$562.88
Todd Kitchen	33.5	$28.00	$938.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	58.75		$1,962.18
	Overhead Rate / Overhead Amount	181.43%	$3,559.97
	Subtotal		$5,522.15
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$662.66
		Total Labor	$6,184.81

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	30	$16.35
		Direct Expenses	$16.35

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$6,201.16**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SOJ_BKL_2
Expedited Design (includes SOJ_BKL_4 & SOJ_BKL_5)

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																	0.5	0.5		1.5
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	1																				1
1.5 Public Communications	0.5																				0.5
2.0 QUALITY CONTROL			0.5	1																	1.5
3.0 SURVEYING AND MAPPING													0.5								0.5
4.0 DEVELOP PLANS	1								0.5			3.5	12								17
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA												1									1
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	1																				1
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	1								2			6	19								28
18.0 VALUE ENGINEERING/COST SAVING MEASURES												0.5									0.5
19.0 QUANTITIES												1	2								3
20.0 DESIGN SERVICES DURING CONSTRUCTION												2									2
21.0 AS-BUILT DRAWINGS												0.25									0.25
Summary of Hours	6		0.5	1					2.5			14.25	33.5					0.5	0.5		58.75
Summary of Raw Labor Expense	$298.50		$26.50	$46.50					$61.30			$562.88	$938.00					$7.50	$21.00		
	10%																				

TOTAL LABOR HOURS	**58.75**
TOTAL RAW LABOR EXPENSES	**$1,962.18**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SOJ_BKL_6

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	1	$49.75	$49.75
AJ Yates		$51.50	
Kyle Comer		$53.00	
Jay Meacham	0.25	$46.50	$11.63
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones		$39.50	
Jacob Elder	0.25	$24.52	$6.13
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	4	$39.50	$158.00
Todd Kitchen	8.5	$28.00	$238.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	15		$492.01
	Overhead Rate / Overhead Amount	181.43%	$892.64
	Subtotal		$1,384.65
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$166.16
		Total Labor	$1,550.81

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	30	$16.35
		Direct Expenses	$16.35

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$1,567.16**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SOJ_BKL_6
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																	0.5	0.5		1.5
1.2 Schedule																					
1.3 Coordination with the Contractor	0.25																				0.25
1.4 Coordination with UDOT and the Local Partners	0.25																				0.25
1.5 Public Communications																					
2.0 QUALITY CONTROL				0.25																	0.25
3.0 SURVEYING AND MAPPING																					
4.0 DEVELOP PLANS									0.25			1	4								5.25
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA												0.5									0.5
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS												1	4								5
18.0 VALUE ENGINEERING/COST SAVING MEASURES																					
19.0 QUANTITIES												0.25	0.5								0.75
20.0 DESIGN SERVICES DURING CONSTRUCTION												1									1
21.0 AS-BUILT DRAWINGS												0.25									0.25
Summary of Hours	1			0.25					0.25			4	8.5					0.5	0.5		15
Summary of Raw Labor Expense	$49.75			$11.63					$6.13			$158.00	$238.00					$7.50	$21.00		
	7%																				

TOTAL LABOR HOURS	**15**
TOTAL RAW LABOR EXPENSES	**$492.01**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SOJ_BKL_7

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	2.5	$49.75	$124.38
AJ Yates		$51.50	
Kyle Comer	0.25	$53.00	$13.25
Jay Meacham	0.25	$46.50	$11.63
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones		$39.50	
Jacob Elder	1	$24.52	$24.52
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	3	$39.50	$118.50
Todd Kitchen	11	$28.00	$308.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont	0.5	$15.00	$7.50
Francois Dupuis	0.5	$42.00	$21.00
Craig Swenson		$53.50	
TOTAL	19		$628.77
	Overhead Rate / Overhead Amount	181.43%	$1,140.78
	Subtotal		$1,769.55
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$212.35
		Total Labor	$1,981.89

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	30	$16.35
		Direct Expenses	$16.35

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$1,998.24**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SOJ_BKL_7
Expedited Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	0.5																	0.5	0.5		1.5
1.2 Schedule	0.5																				0.5
1.3 Coordination with the Contractor	0.5																				0.5
1.4 Coordination with UDOT and the Local Partners	0.5																				0.5
1.5 Public Communications	0.5																				0.5
2.0 QUALITY CONTROL			0.25	0.25																	0.5
3.0 SURVEYING AND MAPPING																					
4.0 DEVELOP PLANS									0.5			0.5	4								5
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA																					
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS									0.5			1	6								7.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES																					
19.0 QUANTITIES												0.25	1								1.25
20.0 DESIGN SERVICES DURING CONSTRUCTION												1									1
21.0 AS-BUILT DRAWINGS												0.25									0.25
Summary of Hours	2.5		0.25	0.25					1			3	11					0.5	0.5		19
Summary of Raw Labor Expense	$124.38		$13.25	$11.63					$24.52			$118.50	$308.00					$7.50	$21.00		
	13%																				

TOTAL LABOR HOURS	**19**
TOTAL RAW LABOR EXPENSES	**$628.77**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SSL_MUP_2

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	52	$49.75	$2,587.00
AJ Yates	5	$51.50	$257.50
Kyle Comer	2	$53.00	$106.00
Jay Meacham	5	$46.50	$232.50
Brandon Weight	6	$39.50	$237.00
Chris Maples		$33.50	
Mark Brailsford	12	$35.00	$420.00
Justin Jones	58.5	$39.50	$2,310.75
Jacob Elder	11	$24.52	$269.72
Nick Bjorkman	38	$28.00	$1,064.00
David Viets		$29.50	
Jake Wilder	33	$39.50	$1,303.50
Todd Kitchen	61	$28.00	$1,708.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	2	$37.30	$74.60
JaNae Kotter	1	$31.50	$31.50
Gershawn Delimont	1	$15.00	$15.00
Francois Dupuis	2	$42.00	$84.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	290		$10,727.82
		Overhead Rate / Overhead Amount 181.43%	$19,463.48
		Subtotal	$30,191.30
		Fixed Fee Rate / Fixed Fee Amount 12.00%	$3,622.96
		Total Labor	$33,814.26

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	315	$171.68
		Direct Expenses	$171.68

SUBCONSULTANT(S) EXPENSE

Perigee	$ 6,765.65
FFKR	$5,000.00
Michael Baker	
Terracon	
Total Subconsultant	$11,765.65
TOTAL COSTS	**$45,751.59**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SSL_MUP_2
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	8																1	1	2	0.5	12.5
1.2 Schedule	2																				2
1.3 Coordination with the Contractor	4	3																			7
1.4 Coordination with UDOT and the Local Partners	8							3.5													11.5
1.5 Public Communications	3												1								4
2.0 QUALITY CONTROL			2	4	6											2					14
3.0 SURVEYING AND MAPPING	1							2	2				12								17
4.0 DEVELOP PLANS	4							10		4			20								38
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	3	1						3													7
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING	2							4				20									26
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE	1			1				5		16											23
12.0 UTILITIES	1							1		4		8	4								18
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS									1												1
15.0 LANDSCAPING AND IRRIGATION	1						12	6													19
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	6							6													12
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	2							8	8	8		2	24								52
18.0 VALUE ENGINEERING/COST SAVING MEASURES	1	1						2													4
19.0 QUANTITIES	1							2		6											9
20.0 DESIGN SERVICES DURING CONSTRUCTION	3							6													9
21.0 AS-BUILT DRAWINGS	1											3									4
Summary of Hours	52	5	2	5	6		12	58.5	11	38		33	61			2	1	1	2	0.5	290
Summary of Raw Labor Expense	$2,587.00	$257.50	$106.00	$232.50	$237.00		$420.00	$2,310.75	$269.72	$1,064.00		$1,303.50	$1,708.00			$74.60	$31.50	$15.00	$84.00	$26.75	
	18%																			**TOTAL LABOR HOURS**	**290**
																				TOTAL RAW LABOR EXPENSES	**$10,727.82**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
SUCo_BKS_1

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	7.5	$49.75	$373.13
AJ Yates	11.5	$51.50	$592.25
Kyle Comer	0.25	$53.00	$13.25
Jay Meacham		$46.50	
Brandon Weight		$39.50	
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones		$39.50	
Jacob Elder	14	$24.52	$343.28
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	1	$39.50	$39.50
Todd Kitchen	10	$28.00	$280.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer		$37.30	
JaNae Kotter		$31.50	
Gershawn Delimont		$15.00	
Francois Dupuis		$42.00	
Craig Swenson		$53.50	
TOTAL	44.25		$1,641.41
	Overhead Rate / Overhead Amount	181.43%	$2,978.00
	Subtotal		$4,619.41
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$554.33
		Total Labor	$5,173.73

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	260	$141.70
		Direct Expenses	$141.70

SUBCONSULTANT(S) EXPENSE

Perigee	
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	
TOTAL COSTS	**$5,315.43**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
SUCo_BKS_1
Field Support

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	1																				1
1.2 Schedule																					
1.3 Coordination with the Contractor	2	1																			3
1.4 Coordination with UDOT and the Local Partners	4																				4
1.5 Public Communications																					
2.0 QUALITY CONTROL	0.25	0.5	0.25																		1
3.0 SURVEYING AND MAPPING																					
4.0 DEVELOP PLANS																					
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA		0.5										1									1.5
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING																					
10.0 STRUCTURAL DESIGN		2							7				10								19
11.0 DRAINAGE																					
12.0 UTILITIES																					
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS																					
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW																					
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS		0.5							4												4.5
18.0 VALUE ENGINEERING/COST SAVING MEASURES																					
19.0 QUANTITIES									3												3
20.0 DESIGN SERVICES DURING CONSTRUCTION		6																			6
21.0 AS-BUILT DRAWINGS	0.25	1																			1.25
Summary of Hours	7.5	11.5	0.25						14			1	10								44.25
Summary of Raw Labor Expense	$373.13	$592.25	$13.25						$343.28			$39.50	$280.00								
	17%																				

TOTAL LABOR HOURS	**44.25**
TOTAL RAW LABOR EXPENSES	**$1,641.41**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
WEJ_RRX_2

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	32.25	$49.75	$1,604.44
AJ Yates	4	$51.50	$206.00
Kyle Comer	1	$53.00	$53.00
Jay Meacham	2	$46.50	$93.00
Brandon Weight	5	$39.50	$197.50
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	29	$39.50	$1,145.50
Jacob Elder	28	$24.52	$686.56
Nick Bjorkman		$28.00	
David Viets		$29.50	
Jake Wilder	14	$39.50	$553.00
Todd Kitchen	47	$28.00	$1,316.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	2	$37.30	$74.60
JaNae Kotter	1	$31.50	$31.50
Gershawn Delimont	1	$15.00	$15.00
Francois Dupuis	1	$42.00	$42.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	167.75		$6,044.85
	Overhead Rate / Overhead Amount	181.43%	$10,967.17
	Subtotal		$17,012.01
	Fixed Fee Rate / Fixed Fee Amount	12.00%	$2,041.44
		Total Labor	$19,053.46

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	194	$105.73
		Direct Expenses	$105.73

SUBCONSULTANT(S) EXPENSE

Perigee	$ 6,082.39
FFKR	
Michael Baker	
Terracon	
Total Subconsultant	$6,082.39
TOTAL COSTS	**$25,241.58**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
WEJ_RRX_2
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	4																1	1	1	0.5	7.5
1.2 Schedule	2																				2
1.3 Coordination with the Contractor	4																				4
1.4 Coordination with UDOT and the Local Partners	4							3													7
1.5 Public Communications	3																				3
2.0 QUALITY CONTROL		4	1	2	5											2					14
3.0 SURVEYING AND MAPPING	0.5							2	1				7								10.5
4.0 DEVELOP PLANS								6	3				8								17
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	1							2													3
8.0 GEOTECHNICAL																					
9.0 EARTHWORK AND GRADING	1							2				8									11
10.0 STRUCTURAL DESIGN																					
11.0 DRAINAGE	0.5							5	3												8.5
12.0 UTILITIES	1											4									5
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS	0.25								1												1.25
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	7																				7
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	1							4	16				32								53
18.0 VALUE ENGINEERING/COST SAVING MEASURES	1							1													2
19.0 QUANTITIES								1	4												5
20.0 DESIGN SERVICES DURING CONSTRUCTION	2							3													5
21.0 AS-BUILT DRAWINGS												2									2
Summary of Hours	32.25	4	1	2	5			29	28			14	47			2	1	1	1	0.5	167.75
Summary of Raw Labor Expense	$1,604.44	$206.00	$53.00	$93.00	$197.50			$1,145.50	$686.56			$553.00	$1,316.00			$74.60	$31.50	$15.00	$42.00	$26.75	
	19%																			**TOTAL LABOR HOURS**	**167.75**
																				TOTAL RAW LABOR EXPENSES	**$6,044.85**

Civil Science, Inc.

CONSULTANT COST PROPOSAL - UTA TIGER Grant Program
WVC_BKL_5

DIRECT LABOR EXPENSES

LABOR DESCRIPTION	HOURS	PAY RATE $/HR.	AMOUNT $
AndyKitchen	157.5	$49.75	$7,835.63
AJ Yates	77	$51.50	$3,965.50
Kyle Comer	4	$53.00	$212.00
Jay Meacham	38	$46.50	$1,767.00
Brandon Weight	22	$39.50	$869.00
Chris Maples		$33.50	
Mark Brailsford		$35.00	
Justin Jones	209	$39.50	$8,255.50
Jacob Elder	205	$24.52	$5,026.60
Nick Bjorkman	92	$28.00	$2,576.00
David Viets		$29.50	
Jake Wilder	205	$39.50	$8,097.50
Todd Kitchen	223	$28.00	$6,244.00
Greg Perkins		$34.10	
Kevin Clapper		$35.00	
Dodd Greer	8	$37.30	$298.40
JaNae Kotter	2	$31.50	$63.00
Gershawn Delimont	2	$15.00	$30.00
Francois Dupuis	1.5	$42.00	$63.00
Craig Swenson	0.5	$53.50	$26.75
TOTAL	1246.5		$45,329.88
		Overhead Rate / Overhead Amount 181.43%	$82,241.99
		Subtotal	$127,571.87
		Fixed Fee Rate / Fixed Fee Amount 12.00%	$15,308.62
		Total Labor	$142,880.49

DIRECT EXPENSES

DESCRIPTION	RATE	NUMBER	$ AMOUNT
Lodging (Conus Rate)	$91.00	-	
Full Day Per Diem (Conus Rate)	$51.00	-	
Partial Day Per Diem (Conus Rate)	$38.25	-	
Company Vehicle Mileage @ 53.5 Cents	$0.545	890	$485.05
		Direct Expenses	$485.05

SUBCONSULTANT(S) EXPENSE

Perigee	$ 10,027.00
FFKR	
Michael Baker	
Terracon	$8,048.20
Total Subconsultant	$18,075.20
TOTAL COSTS	**$161,440.74**

PREPARED BY: A. Kitchen

Civil Science, Inc.
HOUR DERIVATION and LABOR COST
WVC_BKL_5
Full Design

	Andy Kitchen	AJ Yates	Kyle Comer	Jay Meacham	Brandon Weight	Chris Maples	Mark Brailsford	Justin Jones	Jacob Elder	Nick Bjorkman	David Viets	Jake Wilder	Todd Kitchen	Greg Perkins	Kevin Clapper	Dodd Greer	JaNae Kotter	Gershawn Delimont	Francois Dupuis	Craig Swenson	Total Number of Hours
	$49.75	$51.50	$53.00	$46.50	$39.50	$33.50	$35.00	$39.50	$24.52	$28.00	$29.50	$39.50	$28.00	$34.10	$35.00	$37.30	$31.50	$15.00	$42.00	$53.50	
1.0 ADMINISTRATION																					
1.1 Management of the Design Effort	48																2	2	1.5	0.5	54
1.2 Schedule	4																				4
1.3 Coordination with the Contractor	8	8																			16
1.4 Coordination with UDOT and the Local Partners	11.5							3													14.5
1.5 Public Communications	5												3								8
2.0 QUALITY CONTROL	2	20	4	14	22											8					70
3.0 SURVEYING AND MAPPING	2							3	3				24								32
4.0 DEVELOP PLANS	8							28	30	30		16	40								152
5.0 RIGHT-OF-WAY																					
6.0 PERMITS																					
7.0 DESIGN CRITERIA	4	3						16				16									39
8.0 GEOTECHNICAL	2							8													10
9.0 EARTHWORK AND GRADING	12							40				70									122
10.0 STRUCTURAL DESIGN		16							40												56
11.0 DRAINAGE	4			24				16	60				16								120
12.0 UTILITIES	3									12		50	16								81
13.0 STAGING PLANS AND MAINTENANCE OF TRAFFIC																					
14.0 ENVIRONMENTAL COMMITMENTS	1								2												3
15.0 LANDSCAPING AND IRRIGATION																					
16.0 DESIGN AND CONSTRUCTABILITY REVIEW	16							16													32
17.0 CONSTRUCTION DRAWINGS AND SPECIFICATIONS	8	16						40	40	50		45	100								299
18.0 VALUE ENGINEERING/COST SAVING MEASURES	4	8						8													20
19.0 QUANTITIES	4							8	20				8								40
20.0 DESIGN SERVICES DURING CONSTRUCTION	8	6						23	10				16								63
21.0 AS-BUILT DRAWINGS	3											8									11
Summary of Hours	157.5	77	4	38	22			209	205	92		205	223			8	2	2	1.5	0.5	1246.5
Summary of Raw Labor Expense	$7,835.63	$3,965.50	$212.00	$1,767.00	$869.00			$8,255.50	$5,026.60	$2,576.00		$8,097.50	$6,244.00			$298.40	$63.00	$30.00	$63.00	$26.75	
	13%																			**TOTAL LABOR HOURS**	**1246.5**
																				TOTAL RAW LABOR EXPENSES	**$45,329.88**

Exhibit C – Federal Clauses

FEDERAL CLAUSES

NO GOVERNMENT OBLIGATION TO THIRD PARTIES

The Authority and the Contractor acknowledge and agree that, notwithstanding any concurrence by the federal government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the federal government, the federal government is not a party to this Contract and shall not be subject to any obligations or liabilities to the Authority, the Contractor or any other party (whether or not a party to the Contract) pertaining to any matter resulting from the Contract. The Contractor agrees to include the above clause in each subcontract or purchase order financed in whole or in part with federal assistance provided by FTA. It is further agreed that the clause shall not be modified, except to identify the Subcontractor or Supplier who will be subject to its provisions.

PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS

The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 USC §3801, et seq. and United States Department of Transportation regulations, "Program Fraud Civil Remedies," 49 CFR Part 31, apply to its actions pertaining to the Contract. Upon execution of the underlying Contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying Contract or the FTA assisted project for which the Work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious or fraudulent claim, statement, submission, or certification, the federal government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the federal government deems appropriate. The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission or certification to the federal government under a contract connected with a project that is financed in whole or in part with federal assistance originally awarded by FTA under the authority of 49 USC §5307, the federal government reserves the right to impose the penalties of 18 USC §1001 and 49 USC §5307(n)(1) on the Contractor, to the extent the federal government deems appropriate. The Contractor agrees to include the above two clauses in each subcontract or purchase order financed in whole or in part with federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the Subcontractor or Supplier who will be subject to the provisions.

ACCESS TO RECORDS AND REPORTS

The Contractor agrees to provide the Authority, the FTA Administrator, the Comptroller General of the United States or any of their authorized representatives access to any books, documents, papers and records of the Contractor which are directly pertinent to this Contract for the purposes of making audits, examinations, excerpts and transcriptions. The Contractor also agrees, pursuant to 49 CFR 633.17 to provide the FTA Administrator or his authorized representatives including any project management oversight auditor access to the Contractor's records and construction sites pertaining to a major capital project (defined at 49 USC §5302(a)(1)), which is receiving federal financial assistance through the programs described at 49 USC §§5307, 5309 or 5311. The Contractor further agrees to include in all of its subcontracts and purchase orders under the Contract a provision to the effect that the Subcontractor or Supplier agrees that the Authority, the United States Department of Transportation and the Comptroller General of the United States, the project management oversight auditor, or any of their duly authorized representatives shall, until the expiration of three (3) years after final payment under the subcontract, have access to and the right to examine any directly pertinent books, documents, papers, and other records of the Subcontractor or Supplier.

FEDERAL CHANGES

The Contractor shall at all times comply with all applicable FTA regulations, policies, procedures and directives, including without limitation those listed directly or by reference in the Master Agreement between the Authority and the FTA, as they may be amended or promulgated from time to time during the term of the Contract. The Contractor's failure to so comply shall constitute a material breach of the Contract.

CIVIL RIGHTS REQUIREMENTS

(1) Nondiscrimination - In accordance with Title VI of the Civil Rights Act, as amended, 42 U.S.C. § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, section 202 of the Americans with Disabilities Act of 1990, 42 U.S.C. § 12132, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.

(2) Equal Employment Opportunity - The following equal employment opportunity requirements apply to the underlying contract:

(a) Race, Color, Creed, National Origin, Sex - In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e, and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F.R. Parts 60 et seq ., (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 U.S.C. § 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(b) Age - In accordance with section 4 of the Age Discrimination in Employment Act of 1967, as amended, 29 U.S.C. § § 623 and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(c) Disabilities - In accordance with section 102 of the Americans with Disabilities Act, as amended, 42 U.S.C. § 12112, the Contractor agrees that it will comply with the requirements of U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. Part 1630, pertaining to employment of persons with disabilities. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(3) The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties

DISADVANTAGED BUSINESS ENTERPRISES (DBE)

a. This contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, *Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs.* The national goal for participation of Disadvantaged Business Enterprises (DBE) is 10%. The agency's overall goal for DBE participation is **6.2%.** A separate contract goal **of 3.0 % DBE participation has** been established for this procurement.

b. The contractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of this DOT-assisted contract. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as Utah Transit Authority deems appropriate**. Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph** (see 49 CFR 26.13(b)).

c. Bidders/offerors are required to document sufficient DBE participation to meet these goals or, alternatively, document adequate good faith efforts to do so, as provided for in 49 CFR 26.53. Award of this contract is conditioned on submission of the following **[concurrent with and accompanying sealed bid] [concurrent with and accompanying an initial proposal]**:

1. The names and addresses of DBE firms that will participate in this contract;

2. A description of the work each DBE will perform;

3. The dollar amount of the participation of each DBE firm participating;

4. Written documentation of the bidder/offeror's commitment to use a DBE subcontractor whose participation it submits to meet the contract goal;

5. Written confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment; and

6. If the contract goal is not met, evidence of good faith efforts to do so.

[Bidders][Offerors] must present the information required above as a matter of responsiveness (see 49 CFR 26.53(3)).

d. **Prompt Payment and Return of Retainage.** The contractor is required to pay its subcontractors performing work related to this contract for satisfactory performance of that work no later than 30 days after the contractor's receipt of payment for that work from the Utah Transit Authority**.** In addition, is required to return any retainage payments to those subcontractors within 30 days after the subcontractor's work related to this contract is satisfactorily completed.

e. The contractor must promptly notify Utah Transit Authority, whenever a DBE subcontractor performing work related to this contract is terminated or fails to complete its work, and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. The contractor may not terminate any DBE subcontractor and perform that work through its own forces or those of an affiliate without prior written consent of Utah Transit Authority**.**

INCORPORATION OF FTA TERMS

All contractual provisions required by the United States Department of Transportation, as set forth in the most recent edition and revisions of FTA Circular 4220.1F, "Third Party Contracting Guidance," are incorporated by reference into the Contract Documents. All FTA mandated terms shall take precedence over other conflicting terms, if any in the Contract Documents. The Contractor shall not perform any act, fail to perform any act, or refuse to comply with any Authority requests that would cause the Authority to be in violation of any FTA terms and conditions.

TERMINATION

(For contracts over $10,000.00)

a. Termination for Convenience (General Provision) The (Recipient) may terminate this contract, in whole or in part, at any time by written notice to the Contractor when it is in the Government's best interest. The Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. The Contractor shall promptly submit its termination claim to (Recipient) to be paid the Contractor. If the Contractor has any property in its possession belonging to the (Recipient), the Contractor will account for the same, and dispose of it in the manner the (Recipient) directs.

b. Termination for Default [Breach or Cause] (General Provision) If the Contractor does not deliver supplies in accordance with the contract delivery schedule, or, if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or if the Contractor fails to comply with any other provisions of the contract, the (Recipient) may terminate this contract for default. Termination shall be effected by serving a notice of termination on the contractor setting forth the manner in which the Contractor is in default. The contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.

If it is later determined by the (Recipient) that the Contractor had an excusable reason for not performing, such as a strike, fire, or flood, events which are not the fault of or are beyond the control of the Contractor, the (Recipient), after setting up a new delivery of performance schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.

c. Opportunity to Cure (General Provision) The (Recipient) in its sole discretion may, in the case of a termination for breach or default, allow the Contractor [an appropriately short period of time] in which to cure the defect. In such case, the notice of termination will state the time period in which cure is permitted and other appropriate conditions

If Contractor fails to remedy to (Recipient)'s satisfaction the breach or default of any of the terms, covenants, or conditions of this Contract within [ten (10) days] after receipt by Contractor of written notice from (Recipient) setting forth the nature of said breach or default, (Recipient) shall have the right to terminate the Contract without any further obligation to Contractor. Any such termination for default shall not in any way operate to preclude (Recipient) from also pursuing all available remedies against Contractor and its sureties for said breach or default.

d. Waiver of Remedies for any Breach In the event that (Recipient) elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this Contract, such waiver by (Recipient) shall not limit (Recipient)'s remedies for any succeeding breach of that or of any other term, covenant, or condition of this Contract.

GOVERNMENT-WIDE DEBARMENT AND SUSPENSION

The Contract is a covered transaction for purposes of 49 CFR Part 29. As such, the Contractor is required to verify that none of the Contractor, its principals (as defined at 49 CFR 29.995) or affiliates (as defined at 49 CFR 29.905) are excluded or disqualified as defined at 49 CFR 29.940 and 29.945. The Contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any subcontract or purchase order that it enters into. *(A certification is to be submitted with each bid or offer of $25,000 or more.)*

BREACHES AND DISPUTE RESOLUTION

Disputes – Disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in writing by the authorized representative of The Authority. This decision shall be final and conclusive unless within [ten (10)] days from the date of receipt of its copy, the Contractor mails or otherwise furnishes a written appeal to the authorized Authority Representative. In connection with any such appeal, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the authorized Authority Representative shall be binding upon the Contractor and the Contractor shall abide by the decision.

Performance During Dispute – Unless otherwise directed by The Authority, Contractor shall continue performance under this Contract while matters in dispute are being resolved.

Claims for Damages – Should either party to the Contract suffer injury or damage to person or property because of any act or omission of the party or of any of his employees, agents or others for whose acts he is legally liable, a claim for damages therefore shall be made in writing to such other party within reasonable time after the first observance of such injury or damage.

Remedies – Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the Authority and the Contractor arising out of or relating to this agreement or its breach will be decided by arbitration if the parties mutually agree, or in a court of competent jurisdiction within the State in which The Authority is located.

Rights and Remedies – The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by laws. No action or failure to act by The Authority or Authority's authorized representative or Contractor shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

LOBBYING

Modifications have been made to the Clause pursuant to Section 10 of the Lobbying Disclosure Act of 1995, P.L. 104-65 [to be codified at 2 U.S.C. § 1601, *et seq.*]

- Lobbying Certification and Disclosure of Lobbying Activities for third party contractors are mandated by 31 U.S.C. 1352(b)(5), as amended by Section 10 of the Lobbying Disclosure Act of 1995, and DOT implementing regulation, "New Restrictions on Lobbying," at 49 CFR § 20.110(d)

- Language in Lobbying Certification is mandated by 49 CFR Part 19, Appendix A, Section 7, which provides that contractors file the certification required by 49 CFR Part 20, Appendix A.

Modifications have been made to the Lobbying Certification pursuant to Section 10 of the Lobbying Disclosure Act of 1995.- Use of "Disclosure of Lobbying Activities," Standard Form-LLL set forth in Appendix B of 49 CFR Part 20, as amended by "Government wide Guidance For New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96) is mandated by 49 CFR Part 20, Appendix A.

Byrd Anti-Lobbying Amendment, 31 U.S.C. 1352, as amended by the Lobbying Disclosure Act of 1995, P.L. 104-65 [to be codified at 2 U.S.C. § 1601, et seq.] - Contractors who apply or bid for an award of $100,000 or more shall file the certification required by 49 CFR part 20, "New Restrictions on Lobbying." Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose the name of any registrant under the Lobbying Disclosure Act of 1995 who has made lobbying contacts on its behalf with non-Federal funds with respect to that Federal contract, grant or award covered by 31 U.S.C. 1352. Such disclosures are forwarded from tier to tier up to the recipient.

APPENDIX A, 49 CFR PART 20--CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

(To be submitted with each bid or offer exceeding $100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq* .)]

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such expenditure or failure.]

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq., apply* to this certification and disclosure, if any.

_____ Signature of Contractor's Authorized Official

_____ Name and Title of Contractor's Authorized Official

_____ Date

CLEAN AIR REQUIREMENTS

The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 USC §§ 7401, et seq. The Contractor agrees to report each violation to the Authority and understands and agrees that the Authority will, in turn, report each violation as required to assure notification to the FTA and the appropriate EPA Regional Office. The Contractor also agrees to include these requirements in each subcontract exceeding $100,000 financed in whole or in part with federal assistance provided by FTA.

CLEAN WATER REQUIREMENTS

The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 USC §1251, et seq. The Contractor agrees to report each violation to the Authority and understands and agrees that the Authority will, in turn, report each violation as required to assure notification to FTA and the appropriate Regional Office of the United States Environmental Protection Agency. The Contractor also agrees to include these requirements in each subcontract or purchase order exceeding $100,000 financed in whole or in part with federal assistance provided by FTA.

FLY AMERICA REQUIREMENTS

The Contractor agrees to comply with 49 USC §40118 and 41 CFR Part 301-10, which provide that contractors are required to use United States -Flag air carriers for federally financed international air travel and transportation of their personal effects or property, to the extent such service is available, unless travel by foreign air carrier is a matter of necessity, as defined by 49 USC §40118 and CFR Part 301-10.

SEISMIC SAFETY REQUIREMENTS

The Contractor agrees that any new building or addition to an existing building will be designed and constructed in accordance with the standards for Seismic Safety required in Department of Transportation Seismic Safety Regulations 49 CFR Part 41 and will certify to compliance to the extent required by the regulation. The Contractor also agrees to ensure that all work performed under this contract including work performed by a subcontractor is in compliance with the standards required by the Seismic Safety Regulations and the certification of compliance issued on the project.

ENERGY CONSERVATION REQUIREMENTS

The Contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

ADA ACCESS

The Contractor agrees to comply with 49 U.S.C. § 5301(d), which states the Federal policy that elderly individuals and individuals with disabilities have the same right as other individuals to use public transportation services and facilities, and that special efforts shall be made in planning and designing those services and facilities to implement transportation accessibility rights for elderly individuals and individuals with disabilities. The Recipient also agrees to comply with all applicable provisions of section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 794, which prohibits discrimination on the basis of disability in the administration of programs or activities receiving Federal financial assistance; with the Americans with Disabilities Act of 1990 (ADA), as amended, 42 U.S.C. §§ 12101 et seq., which requires that accessible facilities and services be made available to individuals with disabilities; with the Architectural Barriers Act of 1968, as amended, 42 U.S.C. §§ 4151 et seq., which requires that buildings and public accommodations be accessible to individuals with disabilities; and with other laws and amendments thereto pertaining to access for individuals with disabilities that may be applicable. In addition, the Recipient agrees to comply with applicable implementing Federal regulations, and any later amendments thereto, and agrees to follow applicable Federal implementing directives, except to the extent FTA approves otherwise in writing.

SEAT BELT USE

In accordance with Executive Order No. 13043, "Increasing Seat Belt Use in the United States," April 16, 1997, 23 U.S.C. § 402 note, the Recipient is encouraged to adopt and promote on-the-job seat belt use policies and programs for its employees and other personnel that operate company-owned, rented, or personally operated vehicles, and to include this provision in any third party contracts, third party subcontracts, or subagreements involving the Project.

DISTRACTED DRIVING, INCLUDING TEXT MESSAGING WHILE DRIVING

In accordance with Executive Order No. 13513, "Federal Leadership on Reducing Text Messaging While Driving," October 1, 2009, 23 U.S.C. § 402 note, the Recipient is encouraged to adopt and enforce workplace safety policies to decrease crashes caused by distracted drivers, including policies to ban text messages while using an employer supplied electronic device and driving a vehicle you own or rent, a company owned, rented or leased vehicle, a privately owned vehicle when performing any company work on behalf of the project or any vehicle on or off duty. This provision is to be included in any third party contracts, third party subcontracts or subagreements at each tier financed with federal funds.

Accept Terms of Clauses_____ Date_____ Company Name_____ Federal I.D. No._____