



**CENTRAL TEXAS
Regional Mobility Authority**

Meeting Date: February 24, 2016
AGENDA ITEM # 8

Award work authorization no. 2 and amend work authorization no.1 to extend the current project schedule for construction inspection services for the 183 South Project.

Strategic Plan Relevance: Regional Mobility

Department: Engineering

Contact: Justin Word, P.E., Director of Engineering

Associated Costs: \$14,861,860.00

Funding Source: Project Funds

Action Requested: Consider and act on draft resolution

Summary:

On September 30, 2015, the Board authorized the Executive Director to negotiate and execute a professional services contract and work authorization for construction inspection services on the 183 South Project. This included efforts through June 30, 2016 and in an amount not to exceed \$18,000,000. As a result, the contract and Work Authorization (WA) No. 1 was executed in the amount of \$1,138,086.

To continue construction inspection efforts on the 183 South project, the Executive Director seeks Board approval to execute Supplemental WA No. 1 to extend the schedule on WA No. 1 from June 30, 2016 to December 31, 2020 and to execute WA No. 2 in the amount of \$14,861,860 with a schedule through December 31, 2020.

Backup provided: Proposed Supplemental Work Authorization No. 1
Proposed Work Authorization No. 2
Draft Resolution for Board Consideration

**GENERAL MEETING OF THE BOARD OF DIRECTORS
OF THE
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

RESOLUTION NO. 16-0XX

**AMEND WORK AUTHORIZATION NO. 1 TO EXTEND THE CURRENT
PROJECT SCHEDULE AND AWARD WORK AUTHORIZATION NO. 2 FOR
MATERIALS ACCEPTANCE TESTING FOR THE 183 SOUTH PROJECT**

WHEREAS, by Resolution 15-060 dated September 30, 2015, the Board of Directors authorized the Executive Director to negotiate and execute on behalf of the Mobility Authority an agreement with Reynolds, Smith & Hills, Inc. (“RS&H”) and an initial work authorization for services to be provided through June 30, 2016, for survey quality assurance services; and

WHEREAS, a proposed Supplemental Work Authorization No. 1 to extend the schedule on Work Authorization No. 1 from June 30, 2016 to December 31, 2020 is attached hereto as Exhibit 1; and

WHEREAS, a proposed Work Authorization No. 2 in the amount of \$14,861,860.00 with a schedule through December 31, 2020 is attached as Exhibit 2; and

WHEREAS, the Executive Director recommends approval of both the proposed Work Authorization No. 2 and amend Work Authorization No. 1.

NOW THEREFORE, BE IT RESOLVED that the Board of Directors hereby adopts and approves both the proposed Supplemental Work Authorization No. 1 and proposed Work Authorization No. 2 in substantially the form attached hereto as Exhibits 1 & 2, respectively.

BE IT FURTHER RESOLVED that the Executive Director is authorized to finalize and execute Supplemental Work Authorization No. 1 and Work Authorization No. 2 on behalf of the Mobility Authority.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 24th day of February, 2016.

Submitted and reviewed by:

Approved:

Geoffrey S. Petrov, General Counsel

Ray A. Wilkerson
Chairman, Board of Directors

Exhibit 1

ATTACHMENT C

**SUPPLEMENTAL WORK AUTHORIZATION NO. 1
TO WORK AUTHORIZATION NO. 1
CONTRACT FOR CONSTRUCTION INSPECTION SERVICES**

THIS SUPPLEMENTAL WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 4 of the Contract for Construction Inspection Services (the Contract) entered into by and between the Central Texas Regional Mobility Authority (the Mobility Authority) and RS&H, Inc. (The Engineer).

The following terms and conditions of Work Authorization No. 1 are hereby amended as follows:

PART I. Exhibit C, Work Schedule, is deleted in its entirety and replaced with Exhibit C-1, Work Schedule, which is hereto attached and made part of this Supplemental Work Authorization.

PART IV. This Supplemental Work Authorization shall become effective on the date of final acceptance of the parties hereto and shall terminate upon completion of the work, unless extended by a Supplemental Work Authorization as provided in Article 4 of the Contract

PART V. This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

This Supplemental Work Authorization shall become effective on the date of final execution of the parties hereto. All other terms and conditions of Work Authorization No. 1 not hereby amended are to remain in full force and effect.

IN WITNESS WHEREOF, this Supplemental Work Authorization is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER

**CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY**

(Signature)

(Signature)

(Printed Name)

Mike Heiligenstein

(Title)

Executive Director

(Date)

(Date)

*Construction Inspection Services
183 South Design-Build*

Exhibit C-1

Work Schedule

The Engineer will perform Construction Inspection Services as described in this Work Authorization and will submit deliverables to the Mobility Authority based on the following work schedule.

Original Notice to Proceed.....December 28, 2015

Contract Expiration..... December 31, 2020

ATTACHMENT B

**WORK AUTHORIZATION NO. 2
CONTRACT FOR CONSTRUCTION INSPECTION SERVICES**

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 4 of the Contract for Construction Inspection Services (the Contract) entered into by and between the Central Texas Regional Mobility Authority (the Mobility Authority) and RS&H, Inc. (the Engineer).

PART I. The Engineer will perform Construction Inspection services in accordance with the project description attached hereto in Exhibit B and made a part of this Work Authorization. The responsibilities of the Mobility Authority and the Engineer as well as the work schedule are further detailed in Exhibits A, B, and C which are attached hereto and made a part of the Work Authorization.

PART II. The maximum amount payable under this Work Authorization is \$14,861,860.00 and the method of payment will be calculated on a per-hour basis using hourly billing rates. This amount is based upon the Engineer's estimated Work Authorization costs included in Exhibit D, Fee Schedule/Budget, which is attached and made a part of this Work Authorization. DBE participation shall be tracked as documented in Work Authorization No. 1.

PART III. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the appropriate sections of the Contract.

PART IV. This Work Authorization shall become effective on the date of final acceptance of the parties hereto and shall terminate upon completion of the work , unless extended by a supplemental Work Authorization as provided in Article 4 of the Contract.

PART V. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

IN WITNESS WHEREOF, this Work Authorization is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER

**CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY**

(Signature)

(Printed Name)

(Title)

(Date)

(Signature)
Mike Heiligenstein

Executive Director

(Date)

LIST OF EXHIBITS TO WORK AUTHORIZATION

Exhibits	Title
A	Services to Be Provided by the Mobility Authority
B	Services to Be Provided by the Engineer
C	Work Schedule
D	Fee Schedule/Budget

EXHIBIT A

SERVICES TO BE PROVIDED BY THE MOBILITY AUTHORITY

The Mobility Authority shall perform and provide the following in a timely manner so as not to delay the Services to be provided by the Engineer:

1. Authorize the Engineer in writing to proceed.
2. Render reviews, decisions and approvals as promptly as necessary to allow for the expeditious performance of the Services to be provided by the Engineer.
3. Provide timely review and decisions in response to the Engineer's request for information and/or required submittals and deliverables, in order for the Engineer to maintain the agreed-upon work schedule.
4. Maintain the Project's Website.
5. Provide the Engineer with relevant data available to the Mobility Authority related to people, agencies and organizations interested in the proposed project.

Exhibit 2

EXHIBIT B

SERVICES TO BE PROVIDED BY THE ENGINEER

Consulting and professional services provided by the Engineer include, but are not limited to, providing and maintaining construction inspection staff at the field office supplied by the Design-Build team (the “D-B Contractor”), to oversee, review and document construction activities performed by the D-B Contractor. Scheduling of activities below will conform to established Mobility Authority, TxDOT and/or other required review and comment periods for each milestone of the Project.

The Engineer will work at the direction and supervision of the Mobility Authority and its General Engineering Consultant (GEC) to provide the Services. The Mobility Authority expects the Engineer to work cooperatively and collaboratively in assisting the GEC throughout all aspects and phases of construction operations and in its dealings with the D-B Contractor, suppliers, subcontractors, engineers, legal counsel, accountants, consultants, government entities, utilities, property owners, and the general public.

The Engineer staff will report to the GEC’s Resident Engineer (references herein to the “GEC” shall include the GEC’s Resident Engineer), and their staff, such as office engineer and record keeper, and keep the GEC informed of the D-B Contractor’s operations in the field, especially issues that would affect safety, quality, schedule, and potential construction disputes. The Engineer will also be responsible for coordinating with the Survey Support Consultant (SSC) as needed for the purposes of checking horizontal and vertical control points and lines and grades established by the D-B Contractor and for coordinating with the Materials Testing Consultant (MTC) on materials related items (i.e. scheduling materials tests, reporting and resolving materials issues, etc.).

The Engineer will not be responsible for providing inspections of tolling equipment (including ITS elements and lightning protection), utilities, HAZMAT mitigation or environmental/Storm Water Protection Pollution Prevention Plans (SWP3). These services will be provided by the GEC.

The Engineer will not control or direct the construction under the construction contract. Field inspections will not relieve the D-B Contractor of sole responsibility for the means and methods of construction, or for health or safety precautions in connection with the work under the construction contract. The D-B Contractor will remain responsible for design related services.

The Engineers should be aware that the time frames noted herein are tentative and subject to change. The Engineer will remain available as long as the services are required by the Mobility Authority, unless the agreement is terminated as described therein.

The Services to be provided by the selected Engineer include, without limitation, the following key elements:

A. General Requirements

- 1) Provide all labor, equipment, tools and incidentals to perform the Services.

- 2) Provide all Personal Protective Equipment (PPE), as necessary in performance of Services. PPE will meet all current standards set by OSHA and any additional project specific requirements.
- 3) Provide vehicles clearly displaying company logos, mobile phones, and computer equipment system (i.e. laptop, computers and/or tablets) capable of performing the Services.
- 4) Assist in the development of inspection forms and procedures within the project document control system. This would include efforts to develop the effective use of electronic inspection reporting from the field.
- 5) Participate in review of construction plans during their development in the design phase. This may include attendance of Technical Working Group meetings as required.
- 6) Services will include online entry of documents into the GECs document control system. The GEC will provide access to the project document control system. The Engineer will become familiar with the operation of this system, as needed, and respect the confidentiality of all information provided to and available on this system.
- 7) Assist in the resolution of construction issues and conflicts and provide timely data to the GEC and the D-B Contractor.
- 8) Perform the Services described in this agreement as needed before, during, and after the construction of improvements.

The Mobility Authority reserves the right to require replacement of any personnel assigned to the Project during this contract.

B. Construction Oversight Inspections

- 1) Perform and report construction inspections of all operations related to structures, roadway, drainage, traffic (i.e. signs, striping, signals, illumination), and maintenance of traffic to ensure that the D-B Contractor's work is conducted in accordance with the approved contract documents. All inspectors should have a current OSHA-10 Card (safety training). Current and valid certifications, as required, will need to be submitted to the GEC throughout the Contract duration for items a, b, c, and d, below. Although not a comprehensive list, at least one certified inspector will be required for each of the following construction components:
 - a. Traffic Control – A certified inspector is a person who has passed the Work Zone Traffic Control course offered by Texas A&M Engineering Extension Service (TEEX) and has a minimum of 5 years of experience in Traffic Control inspection.
 - b. Electrical – A certified inspector is a person who has passed the test from the TxDOT's course TRF450, "Roadway Illumination and Electrical Installations," and TRF453, "Electrical Requirements for Installation of Traffic Signals," and has a minimum of 5 years of experience in electrical inspection of roadway illumination and traffic signals. Equivalent courses are offered through University of Texas at Arlington. Submit a current and valid TRF certification for all electrical inspectors. Texas A&M

Engineering Extension Service (TEEX) certifications for “TxDOT Electrical Systems” course will not be accepted.

- c. Asphalt – A certified inspector is a person with a current Texas Asphalt Pavement Association (TxAPA) Hot-Mix Asphalt (HMA) Roadway Specialist – Level 1B certification and a minimum of 5 years of experience in asphalt inspection for roadways.
 - d. Concrete – A certified inspector is a person with a current American Concrete Institute (ACI) Concrete Field Testing Technician – Field Grade I certification and a minimum of 5 years of experience in inspection of structural concrete.
 - e. Railroad Work Zone Training – The Engineer will attend and become certified in Railroad Work Zone Training as provided by the Mobility Authority, or D-B Contractor.
- 2) Toll gantry column and truss inspections will be provided by the selected Engineer.
 - 3) Identify, document and make recommendations to the GEC regarding plan errors and omissions, substitutions, defects and deficiencies in the work of the contractor, subcontractors, vendors, etc.
 - 4) Provide sufficient staff and a staffing plan to maintain consistency throughout the Project to schedule and perform inspections of the D-B Contractor’s work. The Engineer shall be required to be on-site performing inspection duties at any time the work is being performed including nighttime hours and on weekends as required by the planned construction work. Inspections at locations other than the project site may be required. Staffing levels shall be optimized to eliminate and/or minimize overtime for both budget and safety reasons. If weather conditions, project delays, or work stoppages temporarily reduce the need for personnel, the Engineer will be responsible for managing their staffing levels and hours billed accordingly.
 - 5) Review and report daily documentation of construction quantities in support of D-B Contractor draw requests.
 - 6) Review and provide input on the D-B Contractor’s reported progress shown in the schedules, as needed.
 - 7) Contribute to a digital photograph log of the Project area during construction to document construction progress, with emphasis on areas with potential claim items/issues and on areas of real/potential public controversy. All photographs shall be digitally time and date stamped.

- 8) Prepare, follow-up on, and be involved in the resolution of Non-Compliance Reports (NCRs) for non-compliant work.
- 9) Work with the MTC to schedule material testing as needed for inspection of the construction work.
- 10) Coordinate as necessary with the Survey Verification Team in identification of survey needs and schedules.
- 11) Review material testing reports and assist in the resolution of any deficiencies reported.
- 12) Perform quality control checks on all documentation (i.e. drill shaft logs, daily work reports) prior to submitting them to the GEC for incorporation into the Project records.
- 13) The Engineer is solely responsible for the use of any sub-consultants. The use of sub-consultants must receive prior approval from the GEC.
- 14) Become familiar with and utilize the features of the designated Project document control system to standardize storage of Project documents.
- 15) Become familiar with and utilize the standard reporting forms used to document construction inspections.
- 16) Track, monitor, and report to the Mobility Authority on contracts and budgets for the Engineer and any sub-consultants.
- 17) Maintain and retain pertinent documentation on the Project and ensure that all documentation is provided to the GEC for incorporation into the Project records, which includes, but is not limited to, review and comment on the accuracy of as-built records produced by the D-B Contractor.
- 18) The scope and duration of the Project is based on the construction contract construction schedule, including any added days to the schedule by contract, as well as a close-out period. The Engineer shall be available as requested by the GEC during close-out and will be responsible to ensure that all documentation has been submitted and all outstanding project-related issues have been resolved.
- 19) The Engineer's inspectors (hereinafter referred to as Inspectors) will perform their work in a manner that minimizes disruption to the D-B Contractor's operations and schedule. The Inspectors will not hinder work that complies with the approved contract documents beyond that required for normal inspection and at pre-defined hold points (see below).

C. Inspection Levels

Inspections will be performed at three different levels:

- 1) Full Time Inspection (FTI) – continuous inspection during construction operation
- 2) Hold Point Inspection (HPI) – inspection at specific hold points in the work prior to the D-B Contractor continuing
- 3) Spot Inspection (SI) – Spot inspection during operation and inspection of end product

The Project's Quality Assurance Plan (QAP), attached as Exhibit D, lists the inspection level for different elements of the work. These may be modified to meet specific needs as discussed in the pre-activity meeting for that element of work. For items not listed in the Quality Assurance Plan, the GEC will develop inspection levels and hold points and present them to the D-B Contractor at the pre-activity meeting.

D. Inspection Checklists

Inspection checklists will be provided by the GEC as a tool for the Inspectors to verify that the Project is built in compliance with the approved construction documents. Inspection will not be limited to items on the checklist. Inspectors will document their inspections using the appropriate checklist. Inspectors are expected to notify the GEC of any issues or improvements that can be made to the checklists.

E. Meetings

- 1) Attend weekly progress meetings held by the GEC with the D-B Contractor.
- 2) Attend staff meetings for the construction oversight team held by the GEC.
- 3) Attend pre-activity meetings, safety meetings, and any other meetings requiring construction inspection expertise, as requested by the Mobility Authority or the GEC.

F. Traffic Control

- 1) Review, monitor and recommend modification to the D-B Contractor's maintenance of traffic/traffic control operations according to applicable specifications and standards through the use of approved inspection reports.
- 2) Provide an inspector that is certified to perform barricade inspections and submit proof of certification to the GEC for each inspector utilized on the Project for maintenance of traffic inspections. TxDOT required quarterly barrier inspections and recommended corrections will be coordinated with TxDOT, the GEC, and the D-B Contractor.
- 3) Document and issue deficiency reports to the D-B Contractor on any non-compliance of traffic control devices or layouts.
- 4) Verify lane closures and detours are in accordance with applicable standards.
- 5) Document track lane rental fees.

- 6) TxDOT Form 599 is required for the following:
 - a. Inspections of barricades at a minimum of three inspections per month (two daytime inspections and one nighttime inspection) from the time that project barricades are installed until they are removed from the Project. This is in addition to the quarterly barrier inspections required by TxDOT.
 - b. Documentation of deficiencies or actions needed. This will be submitted to the D-B Contractor for corrective actions. The inspector shall document when the deficiencies or actions are addressed and escalate as required. Once completed, submit to the GEC for review. No copies shall be maintained by the inspector, nor sent to any individual via email.
- 7) Verify the D-B Contractor makes repairs to critical items immediately and that other deficiencies or actions are being addressed within the timeframes specified by the contract and specifications. Advise the GEC on non-payment of applicable contract pay items, if needed.
- 8) Verify all traffic control items used by the D-B Contractor meet requirements of Texas Manual on Uniform Traffic Control Devices (TMUTCD, current version at the time of proposal or latest edition), traffic control plans, standards and specifications and State compliant list which include at a minimum:
 - a. Devices or signs installed shall be clean and free of damage, properly aligned and spaced, have proper reflectivity, and be properly mounted.
 - b. Pavement markings are performing properly.
 - c. Proper flagging procedures are followed
 - d. The overall set up is in compliance with TMUTCD and TxDOT requirements.

G. Drill Shafts (i.e. Bridges, Large Signs, Toll Gantries, Signals, High Mast Illumination)

The Inspector shall verify proper drill shaft or pile installations. Inspectors should have knowledge in geological materials to ensure proper founding is achieved, proper underwater and slurry displacement concrete placement procedures and proper use of steel casing for dewatering and stability applications are implemented. The Inspector shall complete a separate log for each drill shaft/pile.

H. Daily Work Reports (DWR)

Prepare a DWR for each day of work from the begin work date until final acceptance. All inspectors shall prepare their own DWR each day they are on the Project. Each DWR must have all applicable information included (i.e. the weather recorded for that day, including temperature high and low, weather conditions, all visitors to the Project, traffic conditions, lane closure hours, police officer names and hours worked, portable message sign hours, instruction given to the D-B Contractor, the D-B Contractor work hours, the D-B Contractor's equipment and utilization, safety concerns, and accidents. When recording information pertaining to accidents, record only factual information as observed. Also, include the subcontractors on the Project, the number of hours on the Project, a description of

the work they are performing, and items for payment. Work items inspected should be assigned to schedule activity IDs and change orders when applicable for purposes of documenting and tracking pay items.

I. D-B Contractor Quantities

Fill out a TxDOT Form 1257 for all applicable items as a means to pay for items of work inspected. Input the station number, supporting calculations, quantity being paid, any comments or remarks necessary, and any other information to properly distinguish the item being paid. Reference plan sheets as reference markers. Submit hard copies of measurements and attachments that support the calculations and quantities listed.

Quantities should be assigned to schedule activity IDs for purposes of documenting and tracking pay items. The Inspector shall be responsible for collecting material tickets for any material delivered during inspection.

Track and report on a monthly basis D-B Contractor's materials on hand.

J. Non-Conformance Reports (NCRs)

If the inspection identifies work that is in non-conformance, and that work can be corrected and completed in conformance with the approved construction documents, and the D-B Contractor corrects and completes the work in accordance with the approved construction documents, then no additional action is required.

If the work is not in conformance and is not easily correctable, then the Inspector will prepare a Non-Conformance Report (NCR) and provide it to the GEC for review. The GEC will determine whether an NCR will be officially submitted to the D-B Contractor. The NCR process will be as defined in other documents. The NCR should be resolved prior to the D-B Contractor proceeding with the work for which the NCR was issued. If the D-B Contractor chooses to continue, the work in question and subsequent affected work will be at the D-B Contractor's risk of rejection, removal or remediation. The Inspector will not issue a stop work notice.

If an NCR has been issued for work and the GEC determines that the work presents a safety, environmental, public perception or other vital problem, the GEC may issue a stop work notice until the issue is satisfactorily resolved.

K. Requests for Information (RFI)

Inspectors are responsible for verifying that the Project is implemented in accordance with the direction provided in RFIs. Inspectors will prepare RFIs as necessary during the Project and provide them to the GEC for review. The GEC will determine whether an RFI will be officially submitted to the D-B Contractor.

L. Shop Drawings and Submittals

Inspectors will be provided with access to the D-B Contractor's shop drawings and submittals. Inspectors will verify that the Project is constructed in compliance with these documents.

M. Punch List

- 1) Coordinate with the GEC, D-B Contractor and TxDOT in the generation of a final punch list.
- 2) Monitor the resolution of outstanding construction items.
- 3) Perform inspection to verify satisfactory completion of punch list items.

N. Deliverables

The following construction documentation will be maintained and kept up-to-date during the course of the construction contract for review by the GEC and will be submitted in a timely manner to the GEC after being checked by an appropriate member (senior inspector, project manager, etc.) of the selected Engineer staff.

- 1) Inspector Daily Work Reports
- 2) Inspector Checklists (includes any required calculations or worksheets)
- 3) Inspector Verified Quantities (TxDOT Form 1257)
- 4) Inspector Photographs and Videos.
- 5) Drill Shaft Logs
- 6) Barricade Inspection Reports
- 7) Provide materials tickets for all applicable items (i.e. Concrete, HMA, Flexbase, Prime, Fertilizer, Seed, etc.)
- 8) Punch list Documentation
- 9) Provide documentation for As-Built verification

EXHIBIT C

WORK SCHEDULE

The Engineer will perform Construction Inspection Services as described in this Work Authorization and will submit deliverables to the Mobility Authority based on the following work schedule.

Notice to Proceed..... Approximately March 01, 2016

Contract Expiration..... December 31, 2020

EXHIBIT D

FEE SCHEDULE/BUDGET

RS&H, Inc.

Cost Proposal to Provide Construction Inspection Services
CTRMA - 183 South

Work Authorization No. 2

Labor Summary

RS&H	\$	7,247,731
K Friese	\$	2,108,942
PaveTex	\$	1,488,666
Gsylva	\$	1,347,521
BURY	\$	1,476,379
TOTAL	\$	13,669,240

Direct Expenses

RS&H	\$	622,210
K Friese	\$	202,000
PaveTex	\$	130,150
Gsylva	\$	121,500
BURY	\$	116,760
TOTAL	\$	1,192,620

Maximum Not to Exceed \$ 14,861,860

<u>Fee Breakdown</u>	<u>Labor</u>	<u>Expenses</u>	<u>Total</u>	<u>%</u>	<u>DBE</u>
RS&H	\$ 7,247,731	\$ 622,210	\$ 7,869,941	53%	
K Friese	\$ 2,108,942	\$ 202,000	\$ 2,310,942	16%	16%
PaveTex	\$ 1,488,666	\$ 130,150	\$ 1,618,816	11%	11%
Gsylva	\$ 1,347,521	\$ 121,500	\$ 1,469,021	10%	10%
BURY	\$ 1,476,379	\$ 116,760	\$ 1,593,139	11%	
			\$ 14,861,860	100%	36%

Exhibit D

Oversight Staff		2016												Reg Hours (165 Hrs/MO)	OT Hours (10%)	Total Hour s	Avg. Rate	OH	Profit	Multiplier	Burdened Hourly Rate	Total Labor	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec										
TASK 1 -Construction Inspection Services FIRM																							
Project Management																							
Project Officer	RSH							0.01	0.01	0.01	0.01	0.01	0.01	10		10	\$97.57	1.94	0.12	3.29	\$ 321.04	\$ 3,178.28	
Project Manager	RSH							0.25	0.25	0.25	0.25	0.25	0.25	248		248	\$79.47	1.94	0.12	3.29	\$ 261.49	\$ 64,718.96	
Record Keeper/ Auditor	RSH							0.25	0.25	0.25	0.25	0.25	0.25	248		248	\$39.92	1.94	0.12	3.29	\$ 131.36	\$ 32,512.56	
Administrative Assistant	RSH							0.25	0.25	0.25	0.25	0.25	0.25	248		248	\$17.55	1.94	0.12	3.29	\$ 57.75	\$ 14,293.45	
Field Inspection																							
Roadway																							
Roadway Lead	RSH							0.50	0.50	0.50	0.50	0.50	0.50	495	50	545	\$44.03	1.17	0.12	2.44	\$ 107.23	\$ 58,386.00	
Sr. Inspector	RSH							2.00	2.00	2.00	2.00	2.00	2.00	1980	198	2,178	\$38.63	1.17	0.12	2.44	\$ 94.06	\$ 204,863.15	
Inspector	RSH							1.00	2.00	2.00	2.00	2.00	2.00	1815	182	1,997	\$30.13	1.17	0.12	2.44	\$ 73.37	\$ 146,477.16	
Sr. Inspector	KFA													0	0	0	\$38.63	1.33	0.12	2.60	\$ 100.60	\$ -	
Inspector	KFA							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$30.13	1.33	0.12	2.60	\$ 78.47	\$ 85,448.94	
Sr. Inspector	PT							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$38.63	1.6	0.12	2.87	\$ 110.75	\$ 120,601.96	
Inspector	PT							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$30.13	1.56	0.12	2.87	\$ 86.38	\$ 94,069.53	
Sr. Inspector	GS													0	0	0	\$38.63	1.5	0.12	2.74	\$ 105.99	\$ -	
Inspector	GS							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$30.13	1.5	0.12	2.74	\$ 82.67	\$ 90,027.48	
Sr. Inspector	BUR												1.00	1.00	330	33	363	\$38.63	1.6	0.12	2.91	\$ 112.48	\$ 40,828.79
Inspector	BUR													0	0	0	\$30.13	1.6	0.12	2.91	\$ 87.73	\$ -	
Structural																							
Structures Lead	RSH							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$44.03	1.17	0.12	2.44	\$ 107.23	\$ 116,772.00	
Sr. Inspector	RSH							2.00	2.00	2.00	2.00	2.00	2.00	1980	198	2,178	\$38.63	1.17	0.12	2.44	\$ 94.06	\$ 204,863.15	
Inspector	RSH							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$30.13	1.17	0.12	2.44	\$ 73.37	\$ 79,896.63	
Sr. Inspector	KFA							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$38.63	1.33	0.12	2.60	\$ 100.60	\$ 109,549.92	
Inspector	KFA													0	0	0	\$30.13	1.33	0.12	2.60	\$ 78.47	\$ -	
Sr. Inspector	PT													0	0	0	\$38.63	1.56	0.12	2.87	\$ 110.75	\$ -	
Inspector	PT													0	0	0	\$30.13	1.56	0.12	2.87	\$ 86.38	\$ -	
Sr. Inspector	GS							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$38.63	1.45	0.12	2.74	\$ 105.99	\$ 115,419.84	
Inspector	GS													0	0	0	\$30.13	1.45	0.12	2.74	\$ 82.67	\$ -	
Sr. Inspector	BUR							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$38.63	1.60	0.12	2.91	\$ 112.48	\$ 122,486.36	
Inspector	BUR													0	0	0	\$30.13	1.60	0.12	2.91	\$ 87.73	\$ -	
Traffic Control and Misc.																							
Traffic Control Lead	RSH							1.00	1.00	1.00	1.00	1.00	1.00	990	99	1,089	\$44.03	1.17	0.12	2.44	\$ 107.23	\$ 116,772.00	
Tolls / Electrical Lead	KFA													0	0	0	\$38.63	1.17	0.12	2.44	\$ 94.06	\$ -	
FTE (Full Time Equivalent)			0	0	0	0	0	0	16	17	17	17	18	18								TOTAL Labor	\$ 1,821,166.16
Field FTE			0	0	0	0	0	0	16	17	17	17	18	18									

Exhibit D

Oversight Staff		2017												Reg Hours (165 Hrs/MO)	OT Hours (10%)	Total Hour s	Avg. Rate	OH	Profit	Multiplier	Burdened Hourly Rate	Total Labor							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																
TASK 1 -Construction Inspection Services FIRM																													
Project Management																													
Project Officer	RSH	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	20		20	#####	1.94	0.12	3.29	\$ 330.67	\$ 6,547.26	
Project Manager	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	495		495	\$81.85	1.94	0.12	3.29	\$ 269.34	\$ 133,321.06	
Record Keeper/ Auditor	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	495		495	\$41.12	1.94	0.12	3.29	\$ 135.30	\$ 66,975.88	
Administrative Assistant	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	495		495	\$18.08	1.94	0.12	3.29	\$ 59.48	\$ 29,444.51	
Field Inspection																													
Roadway																													
Roadway Lead	RSH	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	990	99	1,089	\$45.35	1.17	0.12	2.44	\$ 110.45	\$ 120,275.16	
Sr. Inspector	RSH	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3960	396	4,356	\$39.78	1.17	0.12	2.44	\$ 96.88	\$ 422,018.10	
Inspector	RSH	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3960	396	4,356	\$31.03	1.17	0.12	2.44	\$ 75.57	\$ 329,174.12	
Sr. Inspector	KFA																			0	0	0	\$39.78	1.33	0.12	2.60	\$ 103.61	\$ -	
Inspector	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$31.03	1.33	0.12	2.60	\$ 80.82	\$ 176,024.81	
Sr. Inspector	PT	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$39.78	1.6	0.12	2.87	\$ 114.07	\$ 248,440.03	
Inspector	PT	1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3465	347	3,812	\$31.03	1.56	0.12	2.87	\$ 88.97	\$ 339,120.65	
Sr. Inspector	GS																			0	0	0	\$39.78	1.5	0.12	2.74	\$ 109.17	\$ -	
Inspector	GS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$31.03	1.5	0.12	2.74	\$ 85.15	\$ 185,456.60	
Sr. Inspector	BUR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$39.78	1.6	0.12	2.91	\$ 115.85	\$ 252,321.91	
Inspector	BUR																			0	0	0	\$31.03	1.6	0.12	2.91	\$ 90.36	\$ -	
Structural																													
Structures Lead	RSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$45.35	1.17	0.12	2.44	\$ 110.45	\$ 240,550.32	
Sr. Inspector	RSH	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3960	396	4,356	\$39.78	1.17	0.12	2.44	\$ 96.88	\$ 422,018.10	
Inspector	RSH	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3135	314	3,449	\$31.03	1.17	0.12	2.44	\$ 75.57	\$ 260,596.18	
Sr. Inspector	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$39.78	1.33	0.12	2.60	\$ 103.61	\$ 225,672.83	
Inspector	KFA				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1485	149	1,634	\$31.03	1.33	0.12	2.60	\$ 80.82	\$ 132,018.61	
Sr. Inspector	PT																			0	0	0	\$39.78	1.56	0.12	2.87	\$ 114.07	\$ -	
Inspector	PT																			0	0	0	\$31.03	1.56	0.12	2.87	\$ 88.97	\$ -	
Sr. Inspector	GS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$39.78	1.45	0.12	2.74	\$ 109.17	\$ 237,764.88	
Inspector	GS																			0	0	0	\$31.03	1.45	0.12	2.74	\$ 85.15	\$ -	
Sr. Inspector	BUR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$39.78	1.60	0.12	2.91	\$ 115.85	\$ 252,321.91	
Inspector	BUR																			165	17	182	\$31.03	1.60	0.12	2.91	\$ 90.36	\$ 16,400.92	
Traffic Control and Misc.																													
Traffic Control Lead	RSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$45.35	1.17	0.12	2.44	\$ 110.45	\$ 240,550.32	
Tolls / Electrical Lead	KFA					1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1320	132	1,452	\$39.78	1.17	0.12	2.44	\$ 96.88	\$ 140,672.70	
FTE (Full Time Equivalent)		18	18	18	20	21	22	22	22	22	22	22	22	22	22	22	22	22	22										
Field FTE		18	18	18	20	21	22	22	22	22	22	22	22	22	22	22	22	22	22										
																		TOTAL Labor \$ 4,477,686.84											

Exhibit D

Oversight Staff		2018												Reg Hours (165 Hrs/MO)	OT Hours (10%)	Total Hour s	Avg. Rate	OH	Profit	Multiplier	Burdened Hourly Rate	Total Labor							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																
TASK 1 -Construction Inspection Services FIRM																													
Project Management																													
Project Officer	RSH	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	20		20	#####	1.94	0.12	3.29	\$ 340.59	\$ 6,743.67	
Project Manager	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	495		495	\$84.31	1.94	0.12	3.29	\$ 277.42	\$ 137,320.69	
Record Keeper/ Auditor	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	495		495	\$42.35	1.94	0.12	3.29	\$ 139.36	\$ 68,985.16	
Administrative Assistant	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	495		495	\$18.62	1.94	0.12	3.29	\$ 61.27	\$ 30,327.84	
Field Inspection																													
Roadway																													
Roadway Lead	RSH	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	990	99	1,089	\$46.71	1.17	0.12	2.44	\$ 113.76	\$ 123,883.41	
Sr. Inspector	RSH	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	4620	462	5,082	\$40.98	1.17	0.12	2.44	\$ 99.79	\$ 507,125.08	
Inspector	RSH	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3960	396	4,356	\$31.96	1.17	0.12	2.44	\$ 77.84	\$ 339,049.34	
Sr. Inspector	KFA																			0	0	0	\$40.98	1.33	0.12	2.60	\$ 106.72	\$ -	
Inspector	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$31.96	1.33	0.12	2.60	\$ 83.24	\$ 181,305.56	
Sr. Inspector	PT	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$40.98	1.6	0.12	2.87	\$ 117.49	\$ 255,893.24	
Inspector	PT	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2310	231	2,541	\$31.96	1.56	0.12	2.87	\$ 91.64	\$ 232,862.84	
Sr. Inspector	GS																			0	0	0	\$40.98	1.5	0.12	2.74	\$ 112.44	\$ -	
Inspector	GS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$31.96	1.5	0.12	2.74	\$ 87.70	\$ 191,020.30	
Sr. Inspector	BUR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1320	132	1,452	\$40.98	1.6	0.12	2.91	\$ 119.33	\$ 173,261.04	
Inspector	BUR																			0	0	0	\$31.96	1.6	0.12	2.91	\$ 93.07	\$ -	
Structural																													
Structures Lead	RSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$46.71	1.17	0.12	2.44	\$ 113.76	\$ 247,766.83	
Sr. Inspector	RSH	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3960	396	4,356	\$40.98	1.17	0.12	2.44	\$ 99.79	\$ 434,678.64	
Inspector	RSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$31.96	1.17	0.12	2.44	\$ 77.84	\$ 169,524.67	
Sr. Inspector	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$40.98	1.33	0.12	2.60	\$ 106.72	\$ 232,443.02	
Inspector	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$31.96	1.33	0.12	2.60	\$ 83.24	\$ 181,305.56	
Sr. Inspector	PT																			0	0	0	\$40.98	1.56	0.12	2.87	\$ 117.49	\$ -	
Inspector	PT																			0	0	0	\$31.96	1.56	0.12	2.87	\$ 91.64	\$ -	
Sr. Inspector	GS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$40.98	1.45	0.12	2.74	\$ 112.44	\$ 244,897.82	
Inspector	GS																			0	0	0	\$31.96	1.45	0.12	2.74	\$ 87.70	\$ -	
Sr. Inspector	BUR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$40.98	1.60	0.12	2.91	\$ 119.33	\$ 259,891.57	
Inspector	BUR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$31.96	1.60	0.12	2.91	\$ 93.07	\$ 202,715.42	
Traffic Control and Misc.																													
Traffic Control Lead	RSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$46.71	1.17	0.12	2.44	\$ 113.76	\$ 247,766.83	
Tolls / Electrical Lead	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$40.98	1.17	0.12	2.44	\$ 99.79	\$ 217,339.32	
FTE (Full Time Equivalent)		22	22	22	22	22	21	21	21	21	20	20	20																
Field FTE		22	22	22	22	22	21	21	21	21	20	20	20																
																		TOTAL Labor \$ 4,686,107.85											

Exhibit D

Oversight Staff	2019												Reg Hours (165 Hrs/MO)	OT Hours (10%)	Total Hour s	Avg. Rate	OH	Profit	Multiplier	Burdened Hourly Rate	Total Labor									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																		
TASK 1 -Construction Inspection Services FIRM																														
Project Management																														
Project Officer	RSH	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17		17	#####	1.94	0.12	3.29	\$ 350.81	\$ 5,788.32	
Project Manager	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	413		413	\$86.84	1.94	0.12	3.29	\$ 285.74	\$ 117,866.93	
Record Keeper/ Auditor	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	413		413	\$43.62	1.94	0.12	3.29	\$ 143.54	\$ 59,212.26	
Administrative Assistant	RSH	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	413		413	\$19.18	1.94	0.12	3.29	\$ 63.11	\$ 26,031.40	
Field Inspection																														
Roadway																														
Roadway Lead	RSH	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	825	83	908	\$48.12	1.17	0.12	2.44	\$ 117.17	\$ 106,333.26	
Sr. Inspector	RSH	3.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2640	264	2,904	\$42.21	1.17	0.12	2.44	\$ 102.78	\$ 298,479.33	
Inspector	RSH	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1980	198	2,178	\$32.92	1.17	0.12	2.44	\$ 80.17	\$ 174,610.41	
Sr. Inspector	KFA																				0	0	0	\$42.21	1.33	0.12	2.60	\$ 109.92	\$ -	
Inspector	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1320	132	1,452	\$32.92	1.33	0.12	2.60	\$ 85.74	\$ 124,496.48	
Sr. Inspector	PT	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1485	149	1,634	\$42.21	1.6	0.12	2.87	\$ 121.01	\$ 197,677.52	
Inspector	PT																				0	0	0	\$32.92	1.56	0.12	2.87	\$ 94.39	\$ -	
Sr. Inspector	GS																				0	0	0	\$42.21	1.5	0.12	2.74	\$ 115.81	\$ -	
Inspector	GS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1155	116	1,271	\$32.92	1.5	0.12	2.74	\$ 90.34	\$ 114,771.36	
Sr. Inspector	BUR																				0	0	0	\$42.21	1.6	0.12	2.91	\$ 122.91	\$ -	
Inspector	BUR																				0	0	0	\$32.92	1.6	0.12	2.91	\$ 95.87	\$ -	
Structural																														
Structures Lead	RSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1650	165	1,815	\$48.12	1.17	0.12	2.44	\$ 117.17	\$ 212,666.53	
Sr. Inspector	RSH	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2805	281	3,086	\$42.21	1.17	0.12	2.44	\$ 102.78	\$ 317,134.29	
Inspector	RSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1320	132	1,452	\$32.92	1.17	0.12	2.44	\$ 80.17	\$ 116,406.94	
Sr. Inspector	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1155	116	1,271	\$42.21	1.33	0.12	2.60	\$ 109.92	\$ 139,659.51	
Inspector	KFA																				0	0	0	\$32.92	1.33	0.12	2.60	\$ 85.74	\$ -	
Sr. Inspector	PT																				0	0	0	\$42.21	1.56	0.12	2.87	\$ 121.01	\$ -	
Inspector	PT																				0	0	0	\$32.92	1.56	0.12	2.87	\$ 94.39	\$ -	
Sr. Inspector	GS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1320	132	1,452	\$42.21	1.45	0.12	2.74	\$ 115.81	\$ 168,163.17	
Inspector	GS																				0	0	0	\$32.92	1.45	0.12	2.74	\$ 90.34	\$ -	
Sr. Inspector	BUR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1155	116	1,271	\$42.21	1.60	0.12	2.91	\$ 122.91	\$ 156,151.52	
Inspector	BUR																				0	0	0	\$31.96	1.60	0.12	2.91	\$ 93.07	\$ -	
Traffic Control and Misc.																														
Traffic Control Lead	RSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1485	149	1,634	\$46.71	1.17	0.12	2.44	\$ 113.76	\$ 185,825.12	
Tolls / Electrical Lead	KFA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1485	149	1,634	\$40.98	1.17	0.12	2.44	\$ 99.79	\$ 163,004.49	
FTE (Full Time Equivalent)		18	17	17	16	16	15	15	11	8	4	0	0																	
Field FTE		18	17	17	16	16	15	15	11	8	4	0	0																	

TOTAL Labor \$ 2,684,278.85

DIRECT EXPENSES: Work Authorization 2

RS&H	Unit	No.	Unit Cost	Total
Inspector Vehicles	Per Month	372	\$1,400.00	\$ 520,800.00
Personal Protective Equipment (Fall Protection, Safety Gear)	Each	3	\$750.00	\$ 2,250.00
Cell Phone	Per Month	372	\$90.00	\$ 33,480.00
Tablet / Laptop Data Package	Per Month	372	\$90.00	\$ 33,480.00
SharePoint Server	Per Month	42	\$600.00	\$ 25,200.00
Inspection Tools (Wheels, Tapes, Levels, Transit, Supplies)	Job Total	1	\$7,000.00	\$ 7,000.00
Subtotal				\$ 622,210.00

K Friese	Unit	No.	Unit Cost	Total
Inspector Vehicles	Per Month	125	\$1,400.00	\$ 175,000.00
Personal Protective Equipment (Fall Protection, Safety Gear)	Each	2	\$750.00	\$ 1,500.00
Cell Phone	Per Month	125	\$90.00	\$ 11,250.00
Tablet / Laptop Data Package	Per Month	125	\$90.00	\$ 11,250.00
Inspection Tools (Wheels, Tapes, Levels, ,Supplies)	Job Total	1	\$3,000.00	\$ 3,000.00
Subtotal				\$ 202,000.00

PaveTex	Unit	No.	Unit Cost	Total
Inspector Vehicles	Per Month	80	\$1,400.00	\$ 112,000.00
Personal Protective Equipment (Fall Protection, Safety Gear)	Each	1	\$750.00	\$ 750.00
Cell Phone	Per Month	80	\$90.00	\$ 7,200.00
Tablet / Laptop Data Package	Per Month	80	\$90.00	\$ 7,200.00
Inspection Tools (Wheels, Tapes, Levels, Transit, Supplies)	Job Total	1	\$3,000.00	\$ 3,000.00
Subtotal				\$ 130,150.00

G SYLVA	Unit	No.	Unit Cost	Total
Inspector Vehicles	Per Month	75	\$1,400.00	\$ 105,000.00
Personal Protective Equipment (Fall Protection, Safety Gear)	Each	0	\$750.00	\$ -
Cell Phone	Per Month	75	\$90.00	\$ 6,750.00
Tablet / Laptop Data Package	Per Month	75	\$90.00	\$ 6,750.00
Inspection Tools (Wheels, Tapes, Levels, Transit, Supplies)	Job Total	1	\$3,000.00	\$ 3,000.00
Subtotal				\$ 121,500.00

Bury	Unit	No.	Unit Cost	Total
Inspector Vehicles	Per Month	72	\$1,400.00	\$ 100,800.00
Personal Protective Equipment (Fall Protection, Safety Gear)	Each	0	\$750.00	\$ -
Cell Phone	Per Month	72	\$90.00	\$ 6,480.00
Tablet / Laptop Data Package	Per Month	72	\$90.00	\$ 6,480.00
Inspection Tools (Wheels, Tapes, Levels, Transit, Supplies)	Job Total	1	\$3,000.00	\$ 3,000.00
Subtotal				\$ 116,760.00

Total Direct Expenses \$ 1,192,620.00