CITY		ENGINEER	
CITY OF JOPLIN 602 S. MAIN STREET JOPLIN, MO 64801		Name: Allgeier, Martin and Associates, Inc. Address: 7231 E. 24th Street, P.O. Box 2627 JOPLIN, MO 64804	
Attention: Mr. Chris Parker, P.E.		Attention: Chris Erisman, P.E.	
Department: Public Works, Engineering		Phone: 417.680.7200	Fax: 417.680.7300
Phone: **417-624-0820 x584**	Fax: **417-625-4738**		

WORK AUTHORIZATION NUMBER AMA - I&I RP - 002
TO AGREEMENT FOR PROFESSIONAL ENGINEERING CONSULTING SERVICES

City and Engineer agree to amend their Agreement for Professional Engineering Consulting Services, dated February 10, 2017, to include a scope of work and fees for engineering services, by adding the following terms to their Agreement.

1. Services. The City agrees to engage the services of the Engineer and the Engineer agrees to perform the services hereinafter set forth in connection with projects described in Exhibit A.

2. Addition to Services. The City may add to the Engineer services or delete therefrom activities of a similar nature to those set forth in Exhibit A, provided that the total cost of such work does not exceed the total cost allowance as specified in Paragraph 5 hereof. The Engineer shall undertake such changed activities only upon the direction of the City. All such directives and changes shall be in written form and prepared and approved by the City and shall be accepted and countersigned by the Engineer.

3. Term. The services of the Engineer shall commence as soon as practicable after the execution of this contract, unless otherwise directed in writing, and shall be undertaken and completed in such sequence as to assure their expeditious completion in the light of the purposes of the contract, but in any event, all of the services required hereunder shall be completed as set forth in the schedule for the project which is attached hereto as Exhibit A.

4. Costs not to Exceed. The City of Joplin is limited by law with respect to the amount of money it can pay. Therefore, the City has established a fixed sum for this contract, which cannot be exceeded unless this contract is amended. The Engineer providing services hereunder shall be required to keep track of the amount of hours billable under this contract at all times; and any work in excess of the fixed sum shall not be eligible for payment. The Engineer shall notify the City if Engineer anticipates that the contract amount may be exceeded, in order to determine whether or not the City is prepared to increase the total compensation. The Engineer shall establish a billing system showing the amount of money remaining on the contract, which shall be shown in each monthly billing.

5. Payment.

a. Conditioned upon acceptable performance. The City agrees to pay the Engineer in accordance with the terms set forth in Exhibit A, which shall constitute complete compensation for all services to be rendered under this contract; provided, that where payments are to be made periodically to Engineer for services rendered under this contract, the City expressly reserves the right to disapprove in whole or in part a request for payment where the services rendered during the period for which payment is claimed are not performed in a timely and satisfactory manner in accordance with the schedule and description of services set forth in Exhibit A.

b. Total compensation not to exceed. It is expressly understood that in no event will the total compensation and reimbursement to be paid to the Engineer under the terms of this work Authorization Number AMA – I&I RP - 002 exceed the sum of Three Hundred Fifty-Five Thousand, Two Hundred Eighty-Eight Dollars ($355,288).

6. Insurance. Without limiting any of the other obligations or liabilities of the Engineer, the Engineer shall secure and maintain at its own cost and expense, throughout the duration of this Contract and until the work is completed and accepted by the City of Joplin, insurance of such types and in such amounts as may be necessary to protect it and the interests of the City of Joplin against all hazards or risks of loss as hereunder specified or which may arise out of the performance of the Contract Documents. The form and

limits of such insurance, together with the underwriter thereof in each case, are subject to approval by the City of Joplin. Regardless of such approval, it shall be the responsibility of the Engineer to maintain adequate insurance coverage at all times during the term of the Contract. Failure of the Engineer to maintain coverage shall not relieve it of any contractual responsibility or obligation or liability under the Contract Documents.

The certificates of insurance, including evidence of the required endorsements hereunder or the policies, shall be filed with the City at the time that this contract is signed by the Engineer. All insurance policies shall provide thirty (30) days written notice to be given by the insurance company in question prior to modification or cancellation of such insurance. Such notices shall be mailed, certified mail, return receipt requested, to:

City of Joplin - Public Works, 602 S. Main, Joplin, MO 64801; and

Such policies shall name the City as an additional insured with limits of liability not less than the sovereign immunity limits for Missouri public entities calculated by the Missouri Department of Insurance as of January 1 each calendar year and published annually in the Missouri Register pursuant to Section 537.610, RSMo.
(See, http://insurance.mo.gov/industry/sovimmunity.php).

As of January 1, 2018, the minimum coverage for the insurance referred to herein shall be as set out below:

a. Workers' Compensation....Statutory coverage per RSMo 287.010 et seq.
Employer's Liability..... $1,000,000.00

b. Commercial General Liability Insurance, including coverage for Contractual Liability and Independent Contractors Liability. Such coverage shall apply to bodily injury and property damage on an "Occurrence Form Basis" with limits of at least Two Million Eight Hundred Four Thousand Forty Six and no/100 Dollars ($2,804,046.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Twenty Thousand Six Hundred Six and no/100 Dollars ($420,606.00) with respect to injuries and/or death of any one person in a single occurrence and an amount not less than at least $1,000,000 for all claims to property arising out of a single occurrence and at least $100,000 to any one owner with respect to damages to property. Engineer agrees that the proceeds of such insurance policy shall first be used to pay any award, damages, costs, and/or attorneys' fees incurred by or assessed against City, its employees, officers and agents, before payment of any award, damages, costs or attorneys fees of Engineer, its employees, officers or agents. Engineer agrees to cause its insurer to name City as an additional insured on such insurance policy, including the City as an additional insured for coverage under its products-completed operations hazard, and said policy shall be primary and noncontributory.

c. Automobile Liability Insurance covering bodily injury and property damage for owned, non-owned and hired vehicles, with limits of at least Two Million Eight Hundred Four Thousand Forty Six and no/100 Dollars ($2,804,046.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Twenty Thousand Six Hundred Six and no/100 Dollars ($420,606.00) with respect to injuries and/or death of any one person in a single accident or occurrence.

d. Errors and Omissions Insurance. The Engineer shall maintain a professional liability insurance policy in the amount of $1,000,000.00. This policy shall remain in full force and effect for a period of one year after completion and acceptance by the City of the construction of the project.

e. Subcontracts. In case any or all of this work is sublet, the Engineer shall require the subcontractor to procure and maintain all insurance required in subparagraphs (A), (B) and (C) hereof and in like amounts. Engineer shall require any and all subcontractors with whom it enters into a contract to perform work on this project to protect the City of Joplin through insurance against applicable hazards or risks and shall, upon request of the City, provide evidence of such insurance.

f. Notice. The Engineer and/or subcontractor shall furnish the City prior to beginning the work satisfactory proof of carriage of all the insurance required by this contract, with the provision that policies shall not be canceled, modified or non-renewed without thirty (30) days written notice to the City of Joplin.

g. Legislative or Judicial Changes. In the event the scope or extent of the City's tort liability as a governmental entity as described in Section 537.600 through 537.650 RSMo is broadened or increased during the term of this agreement by legislative or judicial action, the City may require Engineer, upon 10 days written notice, to execute a contract addendum whereby the Engineer agrees to provide, at a price not exceeding Engineer's actual increased premium cost, additional liability insurance coverage as the

City may require to protect the City from increased tort liability exposure as the result of such legislative or judicial action. Any such additional insurance coverage shall be evidenced by an appropriate certificate of insurance and shall take effect within the time set forth in the addendum.

7. All other terms and conditions of the original Agreement shall remain in effect.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals on the day and year herein stated.

REVIEWED FOR APPROVAL

Mr. Chris Parker, P.E., Sanitary Sewer Engineer
Name & Title of Staff Project Manager

CERTIFICATE OF DIRECTOR OF FINANCE

I certify that the expenditure contemplated by this document is within the purpose of the appropriation to which it is to be charged and that there is an unencumbered balance of appropriated and available funds to pay therefore.

_____
Leslie Haase, Director of Finance

APPROVED AS TO FORM

_____
Peter Edwards, City Attorney

Engineer: Allgeier, Martin and Associates, Inc.

By: _____

Printed Name: Chris Erisman, P.E.

Title: Vice President

Date: _____

CITY OF JOPLIN, MISSOURI

By: _____
David Hertberg, P.E.
Public Works Director

Date: _____

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EXHIBIT A

Project Name/Description Sanitary Sewer I&I Reduction Program
Consultant Allgeier, Martin and Assoc.

Engineering Services Agreement

Article 1 of the Agreement is supplemented to include the following agreement of the parties.

Engineer shall provide Basic and Additional Services as set forth below.

PART 1 – BASIC SERVICES *All deliverables referred to in the agreement shall also be provided in an electronic format to be specified by the City.*

A1.01 *Conceptual Phase*

A. Engineer shall:

1. Consult with Owner to define and clarify Owner's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility, and expandability, and any budgetary limitations, and identify available data, information, reports, facilities plans, and site evaluations.

   If Owner has already identified one or more potential solutions to meet its Project requirements, then proceed with the study and evaluation of such potential solutions. Options will be discussed and agreed to by Engineer at scoping meeting.

2. Identify potential solution(s) to meet Owner's Project requirements, as needed.

3. Study and evaluate the potential solution(s) to meet Owner's Project requirements.

4. Visit the Site, or potential Project sites, to review existing conditions and facilities, unless such visits are not necessary or applicable to meeting the objectives of the Study and Report Phase.

5. Advise Owner of any need for Owner to obtain, furnish, or otherwise make available to Engineer additional Project-related data and information, for Engineer's use in the study and evaluation of potential solution(s) to Owner's Project requirements, and preparation of a related report.

6. After consultation with Owner, recommend to Owner the solution(s) which in Engineer's judgment meet Owner's requirements for the Project.

7. Identify, consult with, and analyze requirements of governmental authorities having jurisdiction to approve the portions of the Project to be designed or specified by Engineer, including but not limited to mitigating measures identified in an environmental assessment for the Project.

8. Prepare a conceptual report (the "Report") which will, as appropriate, contain schematic layouts, sketches, and conceptual design criteria with appropriate exhibits to indicate the agreed-to requirements, considerations involved, and

Engineer's recommended solution(s). For each recommended solution Engineer will provide the following, which will be separately itemized: opinion of probable Construction Cost; proposed allowances for contingencies; the estimated total costs of design, professional, and related services to be provided by Engineer and its Consultants; and, on the basis of information furnished by Owner, a tabulation of other items and services included within the definition of Total Project Costs.

9. Advise Owner of any need for Owner to provide data or services of the types described in Exhibit B, for use in Project design, or in preparation for Contractor selection and construction.

10. When mutually agreed, assist Owner in evaluating the possible use of building information modeling; civil integrated management; geotechnical baselining of subsurface site conditions; innovative design, contracting, or procurement strategies; or other strategies, technologies, or techniques for assisting in the design, construction, and operation of Owner's facilities. The subject matter of this paragraph shall be referred to in Exhibit A and B as "Project Strategies, Technologies, and Techniques."

11. If requested to do so by Owner, assist Owner in identifying opportunities for enhancing the sustainability of the Project, and pursuant to Owner's instructions plan for the inclusion of sustainable features in the design.

12. Develop a scope of work and survey limits for any topographic and other surveys necessary for design.

13. Perform or provide the following other Study and Report Phase tasks or deliverables:

14. Furnish 6 review copies of the Report and any other Study and Report Phase deliverables to Owner by the due date and review by phone or in person with Owner.

15. Revise the Report and any other Study and Report Phase deliverables in response to Owner's comments, as appropriate, and furnish 6 copies of the revised Report and any other Study and Report Phase deliverables to the Owner by the agreed upon due date.

B. Engineer's services under the Study and Report Phase will be considered complete on the date when Engineer has delivered to Owner the revised Report and any other Study and Report Phase deliverables.

C. Billing/Payment Processing Options

1. Request for payment may be submitted at appropriate intervals during the contract. Application for payment must include a detailed breakdown of deliverables completed as well as specific tasks or percentages of specific tasks completed. Payment schedule will be at the approval of the city.

2. Deliverables option as determined by engineering staff on a project by project basis. Example: 30 percent – Preliminary plans, 60 percent Right of Way plans, 90 percent Final plans and bid documents, 100 percent project completion.

A1.02 Preliminary Design Phase - (30 percent plans)
Not included with scope of services

A1.03 Utility Requirements
Not included with scope of services

A1.04 Surveying Services - General
Not included with scope of services

A1.05 Right of Way Plan Phase - 60 percent plans
Not included with scope of services

A1.06 Final Design Phase
Not included with scope of services

A1.07 Bidding Phase
Not included with scope of services

A1.08 Construction Phase
Not included with scope of services

A1.09 Post-Construction Phase
Not included with scope of services

PART 2 – ADDITIONAL SERVICES

A2.01 *Additional Services Requiring Owner's Written Authorization*

A. If authorized in writing by Owner, Engineer shall provide Additional Services of the types listed below. These services are not included as part of Basic Services and will be paid for by Owner as indicated.

1. Preparation of applications and supporting documents (in addition to those furnished under Basic Services) for private or governmental grants, loans, or advances in connection with the Project; preparation or review of environmental assessments and impact statements; review and evaluation of the effects on the design requirements for the Project of any such statements and documents prepared by others; and assistance in obtaining approvals of authorities having jurisdiction over the anticipated environmental impact of the Project.

2. Undertaking investigations and studies including, but not limited to:

a. Detailed consideration of operations, maintenance, and overhead expenses.

ATTACHMENT NUMBER ONE
EXHIBIT A TO WORK AUTHORIZATION NUMBER AMA-I&I RP-002 TO AGREEMENT FOR PROFESSIONAL ENGINEERING CONSULTING SERVICES
(Between the City of Joplin, Missouri and Allgeier, Martin and Associates, Inc.)

1. SERVICES

Engineer shall provide the City of Joplin (OWNER) with the following services:

1.1 General

1.1.1 ENGINEER shall perform professional planning, evaluation and computer modeling services for the sanitary sewer collection system as hereinafter stated which include customary civil, structural, and mechanical engineering services.

1.1.2 Coordinate the planning, evaluation, data collection and design of components of the proposed City of Joplin Inflow and Infiltration (I/I) Reduction Program.

1.1.3 In general, the Project consists of the following:

1.1.3.1 Overall project management of the City of Joplin Sanitary Sewer I/I Reduction Program.

1.1.3.1.1 The Allgeier Martin (AMA) team working on this project will consist of Burns and McDonnell (BMcD) and TREKK. BMcD will serve as the assistant Program Manager.

1.1.3.2 System-wide program analysis including review of existing system information, analysis of obtained data from the completed system-wide flow monitoring, development of a wastewater hydrologic/hydraulic model and prioritization of recommendations.

2.1 Project Management and Administration: Manage and administer scope and allocate resources to complete the project within schedule and budget limitations.

2.1.1 Work Authorization Kickoff Meeting: Participate in a kickoff meeting for the work contained within this Work Authorization with the ENGINEER's team and the City. Discussions shall be held to review and confirm the project/program goals, objectives, and schedule; evaluate basic concerns on objectives and implementation of the Work; confirm responsibilities and the scope of services and assign project team contacts and communication protocols.

2.1.2 Progress Meetings: Attend project progress meetings, up to 3, with the OWNER to discuss items such as coordination of work and responsibilities, risk management, schedules, and project progress and implementation.

3.1 System Wide Program Analysis

3.1.1. Using the data gaps identified in Work Authorization number 1, undertake an evaluation of wastewater collection system assets and prepare a prioritized list of manholes to obtain information. For each identified manhole, field data collected will include GPS of rim elevation, condition assessment, identification of connecting sewers, I/I sources, structural deficiencies, and prioritized rehabilitation recommendations. Obtaining such field data for up to 250 manholes has been included within this scope of work.

3.1.1.1 Manhole Data Collection for up to 250 manholes. Provide the field work needed to determine manhole inventory including size of manholes, type of construction material, depths and pertinent attributes. A list and general vicinity of manholes that could not be inspected due to not be able to locate or if the manhole is buried will be tabulated on a daily basis and given to the OWNER's to be located and unburied. Upon field location by

the OWNER's crews, follow-up will be made to complete the inspection of the manhole. The field crews shall commit a maximum of 30 minutes searching for a manhole before classifying it as "could not locate" or "buried".

3.1.1.2 Survey data collected will be used to update the wastewater collection system hydraulic model and the City's GIS system.

3.1.2 System Wide Flow and Rainfall Analysis

3.1.2.1 The OWNER will provide the City's top ten industrial, commercial, and institutional (ICI) flows, respectively, which will be applied to the hydraulic model individually. The model will generate peak dry weather flow and base sanitary flow values but will not be identified separately in the flow analysis.

3.1.2.2 The collected rain gauge data from work in previous work authorizations and rain data provided by city rain gauges, was used to identify independent and unique rainfall events within the flow metering period and the associated sewer system response to those events. Inflow, infiltration, and groundwater influences will be disassembled from the aggregate flow meter data for inclusion in the hydraulic model.

3.1.2.3 The I/I and hydraulic model analysis will be derived using the NRCS 5-year 6-hour design rainfall event.

3.1.2.4 The rainfall dependent I/I (RDII) analysis will be conducted using three RDII unitization indices; RDII per inch-diameter-mile. RDII per inch of rainfall, and RDII per developed acre. The calculated RDII indices will be used to rank and prioritize individual meter basins for RDII.

3.1.3 Wastewater Hydrologic/Hydraulic Model

3.1.3.1 Develop Hydrologic/Hydraulic Model. Hydrologic sub-catchments for the hydraulic model will be delineated based on the location of flow meters.

3.1.3.1.1 The City's wastewater network hydraulic model will be developed using the following data provided by the OWNER if not already possessed by AMA:

- Existing GIS data
- Existing AutoCAD data
- Sewer system as-built record drawings
- Pump rating curves
- Pump type(s) and pump on/off settings
- Wet well size and dimensions

This data will be supplemented with survey data collected by others.

3.1.3.2 Hydraulic Model Calibration.

3.1.3.2.1 Dry weather calibration will consist of calibrating the hydraulic model to observed (flow meter) diurnal dry weather patterns. Calibration will be attempted at each flow meter location within the hydraulic model to within +/-10-percent or +/-0.2-MGD of peak dry weather flow. Dry weather calibration will be conducted for a total of up to twenty (20) flow metering points.

3.1.3.2.2 Wet weather calibration will consist of calibrating the hydraulic model to flow meter wet weather flow patterns using up to three (3) different observed rain gauge rain events. Wet weather calibration will be attempted at each flow meter location within the hydraulic model to within +/- 10-percent or +/-2.0-MGD of peak wet weather flow. Wet weather calibration will be conducted for up to twenty (20) flow metering points used for dry weather calibration.

3.1.3.2.3 Wet weather verification will be attempted at each flow meter location within the model to the same tolerances as for wet weather calibration. Different rain events will be used for verification as used for wet weather calibration. Wet weather verification will be conducted for up to twenty (20) flow metering points used for dry and wet weather calibration.

3.1.3.2.4 A Hydraulic Model Calibration Workshop will be conducted for the OWNER lasting up to four (4) hours. This workshop will present the hydraulic model calibration predictions against the metered wastewater collection system response. This workshop will also cover the collection system basis of design to be used. Basis of design will discuss and reach consensus with the OWNER on the following:

- Collection system utilization when capacity enhancements are triggered
- City preference for collection improvements in the form of rehabilitation, repair, replacement, and/or parallel
- Collection system cost bid-tabs to be used for pricing of collection system improvements

3.1.3.2.5 Calibrate hydraulic model using collected sampling pollutograph data for metals for up to twenty (20) flow metering points used for dry and wet weather calibration.

3.1.3.3 Coordination with the Operational Assessment of the Filmore and Tin Cup Lift Stations project to be completed under separate agreement by BMcD. A TM will present results of the flow analysis, rainfall analysis, and inflow and infiltration conditions for both pre-construction findings.

3.1.4 Wastewater Collection System and Wastewater Treatment Plant (WWTP) Analysis

3.1.4.1 The calibrated hydraulic model and the NRCS 5-year, 6-hour rainfall event will be used to stress test the collection system. Stress testing will identify locations within the existing wastewater collection system where there are Level of Service (LoS) deficiencies. The results of this analysis will also be used to evaluate collection system and WWTP capacity constraints subsequent to projected I/I rehabilitation efforts.

3.1.4.2 A Collection System and WWTP Analysis TM will be prepared and will document the OWNER's existing wastewater collection system LoS based performance under existing I/I conditions and under various I/I reduction scenarios. This TM will also summarize the flow analysis, model calibration, and metals calibration for up to twenty (20) flow metering points used for dry and wet weather calibration.

3.1.5 Prioritization of Recommendations

3.1.5.1 Priority Matrix Development. Two priority recommendations will be generated; needed infrastructure improvements, and procedural, operational, and financial recommendations.

3.1.5.2 A Review Meeting with the OWNER will be conducted to discuss and reach consensus with the OWNER on priority recommendations.

3.1.5.3 Finalize Recommendations. Priority recommendations will be revised and finalized based on discussions with the OWNER. A Recommendations TM will be prepared and will document the finalized priority recommendations.

3.1.6 Cost Estimates

3.1.6.1 Cost Analysis for Alternatives. Capital construction cost opinions will be generated for each improvement option developed as part of this project. The cost opinions will be presented in tabular form which include both CWSRF eligible and non-eligible costs.

3.1.7 Surveying: Additional surveying, as needed to update the hydraulic model and above that as indicated elsewhere within this scope of work, may be completed as an additional service upon receipt of prior approval of the OWNER.

4.1 Environmental Clearances and Permitting

The project will be undertaken with the understanding that no Environmental Clearances and/or Land Disturbance and Stormwater permitting will be required for this project and, therefore, the Engineer shall not be responsible for the preparation or production of any such items. Any required Corps of Engineers, Wetlands, or other associated permitting, if determined necessary, may be provided as an additional service.

2. TERMS

Schedule: The services of the Engineer shall commence as soon as practicable after the execution of this contract, unless otherwise directed in writing, and shall be undertaken and completed in such sequence as to assure their expeditious completion in the light of the purposes of the contract, but in any event, all of the services required hereunder for this Work Authorization scope of work shall be completed no later than September 30, 2018.

2.1.1 Utilizing information supplied by Engineer, the OWNER shall make final engineering and planning decisions in a timely manner to support the Engineer's ability to complete the Services according to the project schedule.

2.2 Distribution of compensation between individual tasks indicated in Section 3 may be altered as necessary to be consistent with services actually rendered, but shall not exceed the total estimated compensation amount unless approved in writing by the OWNER.

3. PAYMENT

3.1 Payment to Engineer shall be at the hourly labor Rates and Non-Labor Rates set forth in the attachment Number Two to Exhibit A: "RATE SCHEDULE 2017-2018" for Allgeier, Martin and Associates; Burns and McDonnell Schedule of Hourly Rates and expenses; and 2017 Compensation for Professional Engineering Services for TREKK Design Group, LLC (TREKK) with a total compensation ceiling of $355,228, as set forth in Work Authorization Number AMA – I&I RP - 002 to the Agreement for Professional Engineering Consulting Services, Section 5.b. with the estimated maximum fees broken down for respective services in more detail as follows:

Task	Estimated Fee
Project Management (Item 2.1)	$68,602
System Wide Program Analysis (Item 3.1)	$286,627
Total Estimated Maximum Fee	$355,228

ATTACHMENT NUMBER TWO

ALLGEIER, MARTIN and ASSOCIATES, INC.

Consulting Engineers and Surveyors

RATE SCHEDULE
2017 - 2018

LABOR RATES

Classification	Hourly Billing Rate 01/01/2017 Thru 12/31/2017	01/01/2018 Thru 12/31/2018
Principal/Engineer IV	$191	$195
Principal/Engineer III	$175	$180
Project Manager/Engineer II	$155	$160
Project Manager/Engineer I	$140	$145
Technician III/GIS Specialist	$128	$132
Technician III	$108	$112
Technician II	$95	$100
Technician I	$88	$94
Two-Man GPS Survey Crew	$181	$185
One-Man GPS Survey Crew	$140	$145
Three-Man Survey Crew	$201	$201
Two-Man Survey Crew	$155	$160
Registered Land Surveyor II	$166	$170
Registered Land Surveyor I	$145	$150
Survey Crew Member	$72	$76
Right of Way Specialist	$112	$116
Project Representative III	$108	$112
Project Representative II	$95	$100
Project Representative I	$88	$92
Secretary/Assistant	$72	$76
Print Specialist	$72	$76

Note: All pre-approved overtime hours shall be invoiced at 1½ times the hourly billing rate shown above.

NON-LABOR RATES

Item	Rate
Travel	$0.53 per mile (or current IRS rate)
Subsistence	Actual Cost
Lodging	Actual cost
Special Postage or Shipping	Actual cost
Printing	Actual cost
Surveying Materials	Actual cost
Subcontract Specialty Services	Cost + 5%
Flow meter installation	$450/each
Flow Monitoring	$75/meter/day
Rain Gauge Monitoring	$15/gauge/day

Attachment Number Two
Burns and McDonnell
Schedule of Hourly Rates and Expenses

Position Classification	Classification Level	Hourly Billing Rate
General Office*	5	$62.00
Technician*	6	$76.00
Assistant*	7	$88.00
	8	$118.00
	9	$143.00
Staff*	10	$158.00
	11	$172.00
Senior	12	$190.00
	13	$211.00
Associate	14	$220.00
	15	$228.00
	16	$233.00
	17	$237.00

Unit Cost Rates

Description	Unit Cost
Flow Meter Installation	$450.00/each
Flow Monitoring (minimum 5 meters)	$65.00/meter-day
Rain Gauge Monitoring	$15.00/gauge-day

NOTES:

1. Position classifications listed above refer to the firm's internal classification system for employee compensation. For example, "Associate", "Senior", etc., refer to such positions as "Associate Engineer", "Senior Architect", etc.

2. For any nonexempt personnel in positions marked with an asterisk (*), overtime will be billed at 1.5 times the hourly labor billing rates shown.

3. Project time spent by corporate officers will be billed at Level 17 rate plus 25 percent.

4. For outside expenses incurred by Burns & McDonnell, such as authorized travel and subsistence, and for services rendered by others such as subcontractors, the client shall pay the cost to Burns & McDonnell plus 10%.

5. Monthly invoices will be submitted for payment covering services and expenses during the preceding month. Invoices are due upon receipt. A late payment charge of 1.5% per month will be added to all amounts not paid within 30 days of the invoice date.

6. The services of contract/agency personnel shall be billed to Owner according to the rate sheet as if such contract/agency personnel is a direct employee of Burns & McDonnell.

7. The rates shown above are effective for services through December 31, 2018, and are subject to revision thereafter.

Compensation for Professional Engineering Services[1]
TREKK Design Group, LLC (TREKK)

The **OWNERS**'s payment to the **ENGINEER** shall be due and payable as follows:

I. For Engineering Services, Plan Review, Surveying, Construction Inspection, and Meetings, when authorized and agreed upon in writing, an amount based upon hourly rates plus expenses, in accordance with Section III below, or a negotiated amount as agreed upon.

II. For **Other Services**, when authorized and agreed upon in writing, an amount based upon hourly rates plus expenses or unit rates, in accordance with Section III below, or a negotiated amount as agreed upon.

III. Hourly Billing Rates and Expenses:

Project Principal	$180.00/hr - $240.00/hr
Division Lead	$120.00/hr - $225.00/hr
Project Manager	$ 99.00/hr - $225.00/hr
Assistant Project Manager	$ 99.00/hr - $225.00/hr
Quality Manager	$ 99.00/hr - $180.00/hr
Project Coordinator	$ 75.00/hr - $135.00/hr
Industry Specialist	$120.00/hr - $195.00/hr
Asset Manager	$114.00/hr - $195.00/hr
Senior Professional Engineer	$135.00/hr - $210.00/hr
Professional Engineer	$ 99.00/hr - $165.00/hr
Project Engineer I	$ 99.00/hr - $141.00/hr
Project Engineer II	$ 81.00/hr - $117.00/hr
Staff Engineer	$ 69.00/hr - $ 90.00/hr
Project Designer	$ 90.00/hr - $117.00/hr
CADD Technician I	$ 69.00/hr - $ 99.00/hr
CADD Technician II	$ 45.00/hr - $ 75.00/hr
Office Technician I	$ 75.00/hr - $ 99.00/hr
Office Technician II	$ 54.00/hr - $ 81.00/hr
Office Technician III	$ 45.00/hr - $ 66.00/hr
Senior Administrator	$ 75.00/hr - $135.00/hr
Administrator	$ 45.00/hr - $ 75.00/hr
Field Operations Manager	$ 90.00/hr - $150.00/hr
Field Manager	$ 78.00/hr - $120.00/hr
Field Technician I	$ 63.00/hr - $ 90.00/hr
Field Technician II	$ 54.00/hr - $ 75.00/hr
Field Technician III	$ 45.00/hr - $ 60.00/hr
GIS Analyst I	$ 75.00/hr - $120.00/hr
GIS Analyst II	$ 54.00/hr - $ 75.00/hr
Construction Observation Manager	$102.00/hr - $117.00/hr
Senior Construction Observer	$ 69.00/hr - $105.00/hr
Construction Observer	$ 45.00/hr - $ 90.00/hr
Survey Manager (PLS)	$102.00/hr - $135.00/hr
Professional Land Surveyor (PLS)	$ 90.00/hr - $117.00/hr
Survey Party Chief	$ 63.00/hr - $105.00/hr
Utility Locator	$ 60.00/hr - $105.00/hr
Survey Crew	$145.50/hr
Field Crew	$126.00/hr
Mileage	$00.54/mi
Color Photocopies	$00.25/each
Black-and-White Photocopies	$00.12/each
Out-of-Pocket Expenses, Supplies, Reproductions, etc	Cost

Note 1: The above hourly rates and unit prices are good through December 31, 2018.