City of Columbia

701 East Broadway, Columbia, Missouri 65201



Agenda Item Number: R 125-15

Department Source: Public Works

To: City Council

From: City Manager & Staff Council Meeting Date: 8/03/2015

Re: Professional Engineering Services Agreement with HDR Engineering for the Henderson Branch

Sewer Extension Project

Documents Included With This Agenda Item

Council memo, Resolution/Ordinance, Exhibits to Resolution/Ordinance

Supporting documentation includes: Map

Executive Summary

Authorizing an agreement with HDR Engineering, Inc of Columbia, Missouri in the amount of \$299,874, to provide professional engineering services related to the Henderson Branch Sewer Extension project. HDR was selected for this project in accordance with the City's professional consultant procurement guidelines.

Discussion

The scope of the services for the Henderson Branch Sewer Extension project includes providing the necessary professional surveying and civil engineering design services to develop bid-ready construction documents for the Henderson Branch Sewer Extension project. These services include surveying, geotechnical investigation, participation in the public improvement process, utility coordination, environmental permitting, easement preparation, development of preliminary and final plans and the preparation of as-built documents.

The project includes approximately 8,000 linear feet of gravity sewer ranging in size from 18" to 24" diameter, and would extend public sewer from the existing Perche Creek interceptor sewer, along the Henderson Branch creek to a point just north of I-70, near the Midway Auto Truck Plaza at the NW corner of the I-70 and US-40 interchange. This sewer extension is planned to ultimately serve the entire Henderson Branch watershed, approximately 1,300 acres, and an additional 800 acres of property adjacent to this watershed. The project will allow the elimination of existing sewage treatment facilities that discharge into the Henderson Branch Creek which flows into Perche Creek, resulting in an improved water quality in the streams. This project will allow for future development in the area to have access to a public sewer, as well as allow for elimination of additional treatment facilities that discharge in the area.

HDR Engineering has been selected for this project in accordance with the City's professional consultant procurement guidelines based upon their understanding of the project requirements and their experience with similar projects. The total engineering contract not to exceed amount of \$299,874 is within the usual and customary guidelines for this type of project.

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Fiscal Impact

Short-Term Impact: The engineering contract is for a not-to-exceed amount of \$299,874.00. To date, \$300,000 has been appropriated to the Henderson Branch Sewer Extension project account for design services.

Long-Term Impact: The total project cost, including construction of the Henderson Branch Sewer Extension, is estimated at \$2,300,000.

Vision, Strategic & Comprehensive Plan Impact

Vision Impact: Environment

Strategic Plan Impact: Infrastructure

Comprehensive Plan Impact: Environmental Management, Infrastructure

Suggested Council Action

Authorize the City Manager to execute an agreement with HDR Engineering to provide professional engineering services for the Henderson Branch Sewer Extension project.

Legislative History

08/05/13 (Ord 21760) calling a special election on whether to issue the Sewer System Revenue Bonds in the amount of \$32,340,000 for constructing, improving, repairing, rehabilitating, replacing, equipping, expanding and extending the city-owned sewerage system.

Department Approved

City Manager Approved

Introduced by	Council Bill No	R 125-15
A F	RESOLUTION	
with HDR Engineering, Inc	for professional engineering s c. for surveying and civil engi on Branch Sewer Extension	ineering
BE IT RESOLVED BY THE COUNCIL FOLLOWS:	. OF THE CITY OF COLUM	IBIA, MISSOURI, AS
SECTION 1. The City Manager professional engineering services with engineering services for the Hendersor content of the agreement shall be subs and made a part hereof.	n HDR Éngineering, Inc. fo n Branch Sewer Extension p	r surveying and civil project. The form and
ADOPTED this day of _		, 2015.
ATTEST:		
City Clerk	Mayor and Presidin	g Officer
APPROVED AS TO FORM:		
City Counselor		

AGREEMENT For PROFESSIONAL ENGINEERING SERVICES Between THE CITY OF COLUMBIA, MISSOURI And

THIS AGREEMENT made as of _____ day of ______, 20__, by and between the City of Columbia, Missouri, hereinafter called the CITY, and HDR Engineering, Inc., hereinafter called the ENGINEER.

HDR Engineering, Inc.

WITNESSETH, that whereas the CITY intends to make improvements as described below, hereinafter called the PROJECT, consisting of the following:

The following is a summary of the tasks associated with the scope of services to be provided by HDR Engineering, Inc. (HDR) for the Henderson Branch Sewer Extension Project.

- 1. Project Management and Control
- 2. Conceptual Design & Public Involvement
- 3. Permitting Assistance
- 4. Survey & Geotechnical Investigation
- 5. Final Design
- 6. Bid Phase Services
- 7. Construction Phase Services

See Attachment A for detailed scope of services.

NOW, THEREFORE, in consideration of the mutual covenants set out herein the parties agree as follows:

ENGINEER shall serve as CITY's professional engineering contractor in those assignments to which this Agreement applies, and shall give consultation and advice to CITY during the performance of the services. All services shall be performed under the direction of a professional engineer registered in the State of Missouri and qualified in the particular field.

SECTION 1 - AUTHORIZATION OF SERVICES

1.1 ENGINEER shall not undertake to begin any of the services contemplated by this agreement until directed in writing to do so by CITY. CITY may elect to authorize the PROJECT as a whole or in parts.

1.2 Authorized work may include services described hereafter as Basic Services or as Additional Services of ENGINEER.

SECTION 2 - BASIC SERVICES OF ENGINEER

- 2.1 General
- 2.1.1 Perform professional engineering services as set forth in Attachment A "Scope of Basic Services," dated July 6, 2015.
- 2.1.2 The ENGINEER will designate the following listed individuals as its project team with responsibilities as assigned. The ENGINEER shall dedicate whatever additional resources are necessary to accomplish the PROJECT within the specified time frame but will not remove these individuals from the assigned tasks for any reason within the control of the ENGINEER without the written approval of the CITY.

Name and Title Assignment

Trent Stober, Vice President Project Principal

Aaron Bresette, Sr. Project Manager Project Manager

All of the services required hereunder will be performed by the ENGINEER or under its supervision and all personnel engaged in the work shall be fully qualified and authorized or permitted under state and local law to perform such services.

None of the work or services covered by this Agreement shall be subcontracted without the prior written approval of the CITY and any work or services so subcontracted shall be subject to the provisions of this Agreement.

- 2.2 The ENGINEER shall furnish such periodic reports as the CITY may request pertaining to the work or services undertaken pursuant to this Agreement, the costs and obligations incurred or to be incurred, and any other matters covered by this Agreement.
- 2.3 The ENGINEER shall maintain accounts and records, including personnel, property and financial records, adequate to identify and account for all costs pertaining to the Agreement and any other records as deemed necessary by the CITY to assure proper accounting for all project funds. These records must be available to the CITY or its authorized representatives, for audit purposes, and must be retained for three (3) years after expiration or completion of this Agreement.

SECTION 3 - ADDITIONAL SERVICES OF ENGINEER

3.1 General

If authorized in writing by CITY, and agreed to in writing by ENGINEER, ENGINEER shall furnish or obtain from others Additional Services of the following types which are not considered normal or customary Basic Services. The scope of Additional Services may include:

3.1.1 Financial Consultation

Consult with CITY's fiscal agents and bond attorneys and provide such engineering data as required for any bond prospectus or other financing requirements

3.1.2 Property Procurement Assistance

Provide consultation and assistance on property procurement as related to professional engineering services being performed.

- 3.1.3 Obtaining Services of Others
- Provide through subcontract the services or data set forth in Attachment A.
- 3.1.4 Preliminary or final engineering design of capital facilities except as specifically identified herein.
- 3.1.5 Preparation of reports, data, application, etc., in connection with modifications to FEMA floodplain definition and/or mapping.
- 3.1.6 Extra Services

Services not specifically defined heretofore that may be authorized in writing by CITY.

SECTION 4 - RESPONSIBILITIES OF CITY

- 4.1 Provide full information as to CITY's requirements for the PROJECT.
- 4.2 Assist ENGINEER by placing at ENGINEER's disposal available information pertinent to the assignment including previous reports and other data relative thereto, including the items outlined in Attachment A "Scope of Basic Services," dated July 6, 2015.
- 4.3 Guarantee access to and make all provisions for ENGINEER to enter upon public and private property as required for ENGINEER to perform his services under this Agreement.

- 4.4 Examine all studies, reports, sketches, estimates, Bid Documents, Drawings, proposals and other documents presented by ENGINEER and render in writing decisions pertaining thereto.
- 4.5 Provide such professional legal, accounting, financial and insurance counseling services as may be required for the PROJECT.
- 4.6 Designate Nathan Runyan, as CITY's representative with respect to the services to be performed under this Agreement. Such person shall have complete authority to transmit instructions, receive information, interpret and define CITY's policies and decisions with respect to materials, equipment, elements and systems to be used in the PROJECT, and other matters pertinent to the services covered by this Agreement.
- 4.7 Give prompt written notice to ENGINEER whenever CITY observes or otherwise becomes aware of any defect in the PROJECT.
- 4.8 Furnish approvals and permits from all governmental authorities having jurisdiction over the PROJECT and such approvals and consents from others as may be necessary for completion of the PROJECT.
- 4.9 Furnish ENGINEER data such as probings and subsurface explorations, with appropriate professional interpretations; property, boundary, easement, right-of-way, topographic and utility surveys; zoning and deed restriction; and other special data or consultations, all of which ENGINEER may rely upon in performing his services under this Agreement.

SECTION 5 - PERIOD OF SERVICE

- 5.1 This Agreement will become effective upon the first written notice by CITY authorizing services hereunder.
- 5.2 This Agreement shall be applicable to all work assignments authorized by CITY subsequent to the date of its execution and shall be effective as to all assignments authorized.
- Services shall be started within 10 calendar days of Notice to Proceed and Final Design documents completed within 400 calendar days from the issuance of the Notice to Proceed. CITY shall have the right to establish performance times for individual phases or elements of the PROJECT by delivering a written schedule setting out the performance times to the ENGINEER.

SECTION 6 - PAYMENTS TO ENGINEER

6.1 Amount of Payment

- 6.1.1 For services performed, CITY shall pay ENGINEER the sum of amounts determined as follows:
- 6.1.1.1 For time spent by personnel, payment at the rates indicated in the "Rate Schedule for Professional Services," Attachment B. Such rates include overhead and profit. The schedule is effective to December 31, 2016, and may be revised thereafter.
- 6.1.1.2 For outside expenses incurred by ENGINEER, such as authorized travel and subsistence, commercial services, and incidental expenses, the cost to ENGINEER.
- 6.1.1.3 For reproduction, printing, long-distance telephone calls, company vehicle usage, testing apparatus, computer services and computer-assisted drafting (CAD), amounts will be charged according to the ENGINEER's standard rates in effect at the time service is provided.
- 6.1.1.4 For professional services rendered by others as subcontractor(s) to ENGINEER such as surveying, real property descriptions, soil borings, subsurface investigations, laboratory testing, field quality control tests, progress photos, or other activities required or requested by CITY, will be billed at the cost to ENGINEER.
- 6.1.1.5 For time spent by outside individual professional consultants employed by ENGINEER in providing services to CITY, the cost to ENGINEER. Expenses incurred by such outside consultants in service to CITY shall be reimbursable in accordance with 6.1.1.2 above.
- 6.1.2 Total payment for Scope of Services and all other expenses and costs to the City under this agreement and described herein **shall not exceed \$299,874.00**.

6.2 Payments

6.2.1 The ENGINEER shall submit an invoice for services rendered to the CITY not more than once every month. Upon receipt of the invoice and progress report, the CITY will, as soon as practical, pay the ENGINEER for the services rendered, provided the CITY does not contest the invoice, to the extent of ninety-five percent (95%) of the uncontested amount earned. Upon completion and acceptance of the final plans by the CITY, the five percent (5%) of these services retained by the CITY will be paid to the ENGINEER.

SECTION 7 - GENERAL CONSIDERATIONS

7.1 Insurance

7.1.1 ENGINEER'S INSURANCE: ENGINEER agrees to maintain, on a primary basis and at its sole expense, at all times during the life of this contract the following insurance coverages, limits, including endorsements described herein. The requirements contained herein, as well as CITY's review or acceptance of insurance maintained by ENGINEER is not intended to and shall not in any manner limit or qualify the liabilities or obligations assumed by ENGINEER under this contract

Commercial General Liability ENGINEER agrees to maintain Commercial General Liability at a limit of liability not less than \$2,000,000 combined single limit for any one occurrence covering both bodily injury and property damage, including accidental death. Coverage shall not contain any endorsement(s) excluding nor limiting Contractual Liability or Cross Liability. If the contract involves any underground/digging operations, the general liability certificate shall include X, C and U (Explosion, Collapse and Underground) coverage.

Professional Liability ENGINEER agrees to maintain Professional (Errors & Omissions) Liability at a limit of liability not less than \$2,000,000 per claim and \$2,000,000 aggregate. For policies written on a "Claims-Made" basis, ENGINEER agrees to maintain a Retroactive Date prior to or equal to the effective date of this contract. In the event the policy is canceled, non-renewed, switched to an Occurrence Form, retroactive date advanced; or any other event triggering the right to purchase a Supplemental Extended Reporting Period (SERP) during the life of this contract, ENGINEER agrees to purchase a SERP with a minimum reporting period not less than two (2) years. The requirement to purchase a SERP shall not relieve ENGINEER of the obligation to provide replacement coverage.

Business Automobile Liability ENGINEER agrees to maintain Business Automobile Liability at a limit of liability not less than \$2,000,000 combined single limit for any one occurrence and not less than \$150,000 per individual, covering both bodily injury, including accidental death, and property damage, to protect themselves from any and all claims arising from the use of the ENGINEER's own automobiles, and trucks; hired automobiles, and trucks; and automobiles both on and off the site of work. Coverage shall include liability for Owned, Non-Owned & Hired automobiles. In the event ENGINEER does not own automobiles, ENGINEER agrees to maintain coverage for Hired & Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

 minimum limits shall be \$500,000 each employee, \$500,000 each accident and \$500,000 policy limit. In case any class of employees engaged in hazardous work under this contract is not protected under the Workers' Compensation Statute, the ENGINEER shall provide and shall cause each subcontractor to provide Employers' Liability Insurance for the protection of their employees not otherwise protected.

Excess/Umbrella Liability The above liability limits may be satisfied by any combination of primary and excess/umbrella liability policies.

<u>Additional Insured</u> ENGINEER agrees to endorse CITY as an Additional Insured with a CG 2026 Additional Insured – Designated Person or Organization endorsement, or similar endorsement, to the Commercial General Liability. The Additional Insured shall read "City of Columbia."

<u>Waiver of Subrogation</u> ENGINEER agrees by entering into this contract to a Waiver of Subrogation for each required policy herein except professional liability. When required by the insurer, or should a policy condition not permit ENGINEER to enter into an pre-loss agreement to waive subrogation without an endorsement, then ENGINEER agrees to notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy, which includes a condition specifically prohibiting such an endorsement, or voids coverage should ENGINEER enter into such an agreement on a pre-loss basis.

<u>Certificate(s) of Insurance</u> ENGINEER agrees to provide CITY with Certificate(s) of Insurance evidencing that all coverages, limits and endorsements required herein are maintained and in full force and effect. Said Certificate(s) of Insurance shall include a minimum thirty (30) day endeavor to notify due to cancellation or non-renewal of coverage. The Certificate(s) of Insurance shall name the City as additional insured in an amount as required in this contract and contain a description of the project or work to be performed.

Right to Revise or Reject CITY reserves the right, but not the obligation, to review and revise any insurance requirement, not limited to limits, coverages and endorsements based on insurance market conditions affecting the availability or affordability of coverage; or changes in the scope of work / specifications affecting the applicability of coverage. Additionally, the CITY reserves the right, but not the obligation, to review and reject any insurance policies failing to meet the criteria stated herein or any insurer providing coverage due of its poor financial condition or failure to operating legally.

7.1.2 HOLD HARMLESS AGREEMENT: To the fullest extent not prohibited by

law, ENGINEER shall indemnify and hold harmless the City of Columbia, its directors, officers, agents and employees from and against all claims, damages, losses and expenses (including but not limited to attorney's fees) arising by reason of any negligent

act or failure to act, or willful misconduct, of ENGINEER, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with ENGINEER or a subcontractor for part of the services), of anyone directly or indirectly employed by ENGINEER or by any subcontractor, or of anyone for whose acts the ENGINEER or its subcontractor may be liable, in connection with providing these services except as provided in this Agreement. This provision does not, however, require ENGINEER to indemnify, hold harmless or defend the City of Columbia from its own negligence, except as set out herein.

7.1.3 Professional Oversight Indemnification

The ENGINEER understands and agrees that CITY has contracted with ENGINEER based upon ENGINEER's representations that ENGINEER is a skilled professional and fully able to provide the services set out in this Agreement. In addition to any other indemnification set out in this Agreement, ENGINEER agrees to defend, indemnify and hold and save harmless the CITY from any and all claims, settlements and judgments whatsoever arising out of the CITY's alleged negligence in hiring or failing to properly supervise the ENGINEER.

The insurance required by this Agreement shall include coverage which shall meet ENGINEER's obligations to indemnify the CITY as set out above and the CITY shall be named as co-insured for such insurance.

7.2 Professional Responsibility

- 7.2.1 ENGINEER will exercise reasonable skill, care, and diligence in the performance of its services and will carry out its responsibilities in accordance with customarily accepted good professional engineering practices. If the ENGINEER fails to meet the foregoing standard, ENGINEER will perform at its own cost, and without reimbursement from CITY, the professional engineering services necessary to correct errors and omissions which are caused by ENGINEER's failure to comply with above standard, and which are reported to ENGINEER within one year from the completion of ENGINEER's services for the PROJECT.
- 7.2.2 In addition, ENGINEER will be responsible to CITY for damages caused by its negligent conduct during its activities at the PROJECT site or in the field.

7.3 Estimates and Projections

Estimates and projections prepared by ENGINEER relating to construction costs and schedules, operation and maintenance costs, equipment characteristics and performance, and operating results are based on ENGINEER's experience, qualifications and judgment as a design professional. Since ENGINEER has no control over weather, cost and availability of labor, material and equipment, labor productivity, construction contractor's procedures and methods, unavoidable delays, construction contractor's methods of determining prices, economic conditions, competitive bidding or

market conditions and other factors affecting such estimates or projections, ENGINEER does not guarantee that actual rates, costs, performance, schedules, etc., will not vary from estimates and projections prepared by ENGINEER.

7.4 On-Site Services

PROJECT site visits by ENGINEER during construction shall not make ENGINEER responsible for construction means, methods, techniques, sequences or procedures; for construction safety precautions or programs; or for any construction contractor(s') failure to perform its work in accordance with the plans and specifications.

7.5 Changes

CITY shall have the right to make changes within the general scope of ENGINEER's services, with an appropriate change in compensation, upon execution of a mutually acceptable amendment or change order signed by an authorized representative of the CITY and the President or any Vice President of the ENGINEER.

7.6 Suspension of Services

Should CITY fail to fulfill its responsibilities as provided under Section 4 to the extent that ENGINEER is unduly hindered in his services or if CITY fails to make any payment to ENGINEER on account of its services and expenses within ninety (90) days after receipt of ENGINEER's bill therefor, ENGINEER may, after giving seven (7) days' written notice to CITY, suspend services under this Agreement until CITY has satisfied his obligations under this Agreement.

7.7 Termination

Services may be terminated by the CITY at any time and for any reason, and by the ENGINEER in the event of substantial failure to perform in accordance with the terms hereof by the CITY through no fault of the ENGINEER, by ten (10) days' notice. If so terminated, CITY shall pay ENGINEER all uncontested amounts due ENGINEER for all services properly rendered and expenses incurred to the date of receipt of notice of termination.

7.7.1 In the event of CITY's termination of the Agreement pursuant to the above section, all finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs and reports prepared under this Agreement, shall at the option of the CITY become its property.

Further, the ENGINEER shall not be relieved of any liability to the CITY for any damages sustained by the CITY by virtue of any breach of this Agreement by ENGINEER and the CITY may withhold any payments due the ENGINEER for the purpose of set-off until such time as the exact amount of damages to the CITY, if any, is determined.

7.8 Publications

Recognizing the importance of professional development on the part of ENGINEER's employees and the importance of ENGINEER's public relations, ENGINEER may prepare publications, such as technical papers, articles for periodicals, and press releases, pertaining to ENGINEER's services for the PROJECT. Such publications will be provided to CITY in draft form for CITY's advance review. CITY will review such drafts promptly and will provide comments to ENGINEER. CITY may require deletion of proprietary data or confidential information from such publications but otherwise will not unreasonably withhold its approval. The cost of ENGINEER's activities pertaining to any such publication shall be paid entirely by ENGINEER.

7.9 Nondiscrimination

During the performance of this Agreement, ENGINEER agrees to the following:

- 7.9.1. ENGINEER shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, age, disability, or national origin. ENGINEER shall take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex, age, disability, or national origin. 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. ENGINEER agrees to post notices in conspicuous places, available to employees and applicants for employment.
- 7.9.2 ENGINEER shall, in all solicitation or advertisements for employees placed by or on behalf of ENGINEER, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, disability, or national origin.
- 7.9.3 ENGINEER shall comply with all provisions of State and Federal Laws governing the regulation of Equal Employment Opportunity including Title VI of the Civil Rights Act of 1964.

7.10 Successor and Assigns

CITY and ENGINEER each binds himself and his successors, executors, administrators and assigns to the other party of this Agreement and to the successors, executors, administrators and assigns of such other party, in respect to all covenants of this Agreement; except as above, neither CITY nor ENGINEER shall assign, sublet or transfer his interest in the Agreement without the written consent of the other.

7.11 Rights and Benefits

ENGINEER's services will be performed solely for the benefit of the CITY

and not for the benefit of any other persons or entities.

7.12 Compliance with Local Laws

ENGINEER shall comply with all applicable laws, ordinances and codes of the state and city.

7.13 Law; Submission to Jurisdiction Governing.

This Contract shall be governed by, interpreted and enforced in accordance with the laws of the State of Missouri and/or the laws of the United States, as applicable. The venue for all litigation arising out of, or relating to this Contract Document, shall be Boone County, Missouri or the United States Western District of Missouri. The parties hereto irrevocably agree to submit to the exclusive jurisdiction of such courts in the State of Missouri and waive any defense of forum non conveniens

7.14 Employment of Unauthorized Aliens Prohibited

- 7.14.1 ENGINEER agrees to comply with Missouri State Statute section 285.530 in that they shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the state of Missouri.
- 7.14.2 As a condition for the award of this contract ENGINEER shall, by sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. ENGINEER shall also sign an affidavit affirming that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services.
- 7.14.3 ENGINEER shall require each subcontractor to affirmatively state in its contract with ENGINEER that the subcontractor shall not knowingly employ, hire for employment or continue to employ an unauthorized alien to perform work within the state of Missouri. ENGINEER shall also require each subcontractor to provide ENGINEER with a sworn affidavit under the penalty of perjury attesting to the fact that the subcontractor's employees are lawfully present in the United States.

7.15 No Waiver of Immunities

In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either party's rights or defenses with regard to each party's applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitutions or laws.

7.16 Entire Agreement

This Agreement represents the entire and integrated Agreement between ENGINEER and CITY relative to the Scope of Services herein. All previous or contemporaneous agreements, representations, promises and conditions relating to

ENGINEER's services described herein are superseded.

[SIGNATURES ON FOLLOWING PAGE]

CITY OF COLUMBIA, MISSOURI

(Name/Title)

	By:
	Mike Matthes, City Manager
ATTESTED BY:	
Sheela Amin, City	Clerk
APPROVED AS T	O FORM:
Nancy Thompson	City Counselor
CERTIFICATION:	I hereby certify that the above expenditure is within the purpose of the appropriation to which it is charged, Account No. , and that there is an unencumbered balance to the credit of such appropriation sufficient to pay therefor. $ 555-6388 \ 831.40 \ 33.243255 $
	Director of Finance
	ENGINEER
	By: Joseph Drimmel, P.E. Vice President
	Ву:

NOTICE TO VENDORS Section 285.525 – 285.550 RSMo Effective January 1, 2009

Effective January 1, 2009 and pursuant to RSMo 285.530 (1), No business entity or employer shall knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the state of Missouri.

As a condition for the award of any contract or grant in excess of five thousand dollars by the state or by any political subdivision of the state to a business entity, or for any business entity receiving a state administered or subsidized tax credit, tax abatement, or loan from the state, the business entity shall, by sworn affidavit and provision of

documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. Every such business entity shall sign an affidavit affirming that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. [RSMO 285.530 (2)]

An employer may enroll and participate in a federal work authorization program and shall verify the employment eligibility of every employee in the employer's hire whose employment commences after the employer enrolls in a federal work authorization program. The employer shall retain a copy of the dated verification report received

from the federal government. Any business entity that participates in such program shall have an affirmative defense that such business entity has not violated subsection 1 of this section. [RSMO 285.530 (4)]

For vendors that are not already enrolled and participating in a federal work authorization program, E-Verify is an example of this type of program. Information regarding E-Verify is available at:

http://www.dhs.gov/xprevprot/programs/gc_1185221678150.shtm.

CITY OF COLUMBIA, MISSOURI WORK AUTHORIZATION AFFIDAVIT PURSUANT TO 285.530 RSMo (FOR ALL BIDS IN EXCESS OF \$5,000.00)

Effective 1/1/2009

County of <u>Jackson</u>)) ss.
State of M. SSOULI)

Documentation of participation in a federal work authorization program is attached to this affidavit.

Furthermore, all subcontractors working on this contract shall affirmatively state in writing in their contracts that they are not in violation of Section 285.530.1 RSMo and shall not thereafter be in violation. Alternatively, a subcontractor may submit a sworn affidavit under penalty of perjury that all employees are lawfully present in the United States.

Affiant

<u> 江oseみん た・U:</u> Printed Name

Subscribed and sworn to before me this _______ day of __

Notary Public

NOTARY PUBLIC-NOTARY SEAL STATE OF MISSOURI CASS COUNTY MY APPOINTMENT EXPIRES 1-19-2019 COMMISSION 9 15424660

PROJECT DESCRIPTION:

This project involves providing the necessary professional survey and design services to develop bid ready construction documents for the Henderson Branch Sewer Extension for the City of Columbia, Missouri in cooperation with Boone County Regional Sewer District (BCRSD). The Henderson Branch Watershed contains approximately 1,300 acres and is located on the western edge of Columbia. The watershed is outside the existing Columbia city limits. The project is to extend City sewer from the existing Perche Creek interceptor sewer along the Henderson Branch to a point just north of I-70 near the Midway Auto Truck Plaza at the NW corner of the I-70 and M-40 interchange. The project is anticipated to consist of approximately 8,000 linear feet of gravity sanitary sewer ranging in size from 24-inch to 18-inch diameter.

The professional services will consist of engineering and design services including all phases of design, review and environmental assessments, preparation of preliminary plans, final plans and specifications (construction documents), easement descriptions, flow capacity analysis, geotechnical investigations, surveying, and utility coordination. The professional services will be provided by a prime consultant, HDR Engineering, Inc. (HDR), and a Subconsultant Crockett Engineering Consultants (Crockett). The term "Engineer" is used in this document to reference HDR as the prime consultant leading the project team.

TASK SUMMARY:

The following is a summary of the tasks associated with the scope of services to be provided by the consultant team for this project.

- 1. Project Management and Control
- 2. Conceptual Design & Public Involvement
- 3. Permitting Assistance
- 4. Survey & Geotechnical Investigation
- 5. Final Design
- 6. Bid Phase Services
- 7. Construction Phase Services

DETAILED SCOPE:

Task 1 – Project Management and Control

- 1.1 Cost Control/Invoicing/Resource Allocations Review project charges and prepare monthly invoicing and summary of work completed. Determine proper staffing is available and allocated to project tasks.
- 1.2 Project Management / Scheduling / Subconsultant Coordination Performance of typical project administration and management tasks such as preparation of project procedures manual, project filing, coordination, communications, and supervision. Scheduling HDR and Crockett work tasks.

- 1.3 Quality Management Implementation Prepare quality control plan and schedule QC reviews of deliverables. Verify reviews are performed and comments resolved prior to major submittal milestones.
- 1.4 Project Approach and Resource Review Early in the design stage independent HDR staff will conduct a review of the key technical issues associated with the project to determine the right expertise is involved and appropriate alternatives and concepts are being considered.

Task 2 - Conceptual Design & Public Involvement

- 2.1 Kick-off Meeting/Preliminary Site Visit. Engineer will attend a meeting with Public Works' Engineering and Operations staff prior to the start of preliminary design to review operational needs, design criteria, and approval requirements. Prior to or at the meeting the City will provide the engineer with available project data necessary to complete the design of the project. Information to be provided by the City shall include, but is not limited to:
 - a) As-built drawings of existing Perche Creek Interceptor within the project limits.
 - b) As-built drawings of other city/county projects within the project limits (water lines, storm sewer, street improvements) if available.
- 2.2 Existing Information Review (As-Builts, Utility Maps)
- 2.3 Alignment Evaluation Evaluate up to 3 alignment options for the proposed sewers using existing data including, but not limited to, the Boone County's aerial topographic survey, utility maps, as-built record's, subdivision plats, roadway plans, etc. and field investigation. The evaluation will consider items such as:
 - a) Alignment alternatives: including tie-in location to Perche Creek Interceptor, property impacts, creek impacts, environmental permitting, and I-70 crossing location.
 - b) Construction methods, open cut versus trenchless
 - c) Ease of construction, taking into consideration potential conflicts with existing utilities and disruption to properties,
 - d) Existing in situ geotechnical conditions (e.g. bedrock, unstable soils, groundwater)
 - e) Environmental impacts, such as tree removal, stream crossings, wetlands, etc.,
 - f) Community disruptions to roadways and property access
 - g) Capital cost
 - h) Whether right-of-way is existing or must be acquired
- 2.4 Perche Creek Crossing Trenchless vs. Open Cut Evaluate construction methods for crossing Perche Creek with the same criteria as in Task 2.3.

- 2.5 I-70 Crossing Location & Construction Method Evaluation—Evaluate trenchless construction methods for crossing I-70 with the same criteria as in Task 2.3.
- 2.6 Opinion of Probable Construction Costs Cost estimates will be provided by the Engineer for each alternative.
- 2.7 Concept Plans Based on the preferred alternative conceptual plans and profiles utilizing Boone County GIS aerial topographic survey information will be developed.
- 2.8 Review Meeting with City/County Staff
- 2.9 Address City/County Staff Comments
- 2.10 Prepare Interested Parties Meeting Displays Engineer will prepare materials to present proposed alignment option(s)
- 2.11 Open House Interested Parties Meeting Engineer will attend meeting, participate in public engagement, and compile comments/questions.
- 2.12 Meetings with individual Property Owners If desired by the City, Engineer will coordinate one-on-one meetings with affected property owners to convey project goals and impacts.
- 2.13 Project Walk-Thru w/ City Officials Engineer will stake the proposed alignment and easements in advance and attend a walk-thru of the project with invited City officials.
- 2.14 Utility Coordination Meeting HDR will prepare PDF copies of the preliminary plans and provide to the utility companies as the projects progress. Meeting notes will be taken and distributed to attendees.
- 2.15 Prepare presentation for City Council Public Hearing
- 2.16 Present Alignment Evaluation & Concept Plan at Public Hearing
- 2.17 QA/QC

Task 3 - Permitting Assistance

- 3.1 Waters of the US Determinations/Reporting Document Clean Water Act potential jurisdictional waters (wetlands and streams) and submit for preliminary jurisdictional determination. Determine the type, size and location of jurisdictional waters impacted by the project.
 - a) Conduct wetland and stream channel delineations by two experienced wetland scientists. Delineate in accordance with the USACE 1987 wetland delineation manual and Midwest regional supplemental delineation manual. Photo documentation will be provided to include a photo log and corresponding description of each photo.

- b) Prepare a written determination/delineation report consisting of an introduction/project overview, methods, results and discussion, and temporary and permanent impacts. Wetland and waters of the U.S. data sheets will be completed, as well as project location map, NWI and soils mapping information, photo log, wetland/pond/stream channel delineation boundary map, and incorporation of project engineering plans.
- c) Develop wetland and/or stream crossing restoration plans for USACE submittal.
- d) The City will provide full access to all properties requiring determinations /delineations.
- 3.2 404/401 Permit Application Coordinate and complete applicable USACE 404 permit application to be used as a joint 404/401 application.
 - a) Complete Form 4345 and supplemental attachments, brief discussion of avoidance and minimization, brief proposal to purchase credit in existing wetland and/or stream mitigation banks (only if required), agency coordination documentation as necessary, cover letter to the USACE, and project engineering figures.
 - b) Include in Form 4345 an engineer's estimate of volume and surface area of permanent and temporary fills placed in wetlands or other waters of the U.S. and linear feet of stream channel impacted (if any). The surface area estimate will also include consideration for grading limits within wetlands beyond the proposed fill area, as this can be considered wetlands impacts.
 - c) A 404/401 permit application (including determination/delineation report) and other supporting information described above in Task 3 HDR Activities.
 - d) The City will likely require Nationwide Permit # 12 (NWP # 12) Section 404 permit from the USACE and a conditionally certified 401 water quality certification for NWP # 12 from Missouri Department of Natural Resources (MDNR).
 - e) No practical alternatives to avoid jurisdictional water impacts for the proposed project exist.
 - f) No mitigation is anticipated, though potential for temporary and very minor permanent impacts to jurisdictional waters is at least acknowledged in the development of this scope of work that would require delineation and preconstruction notification to the USACE, but could be covered under NWP#12 without mitigation. No mitigation banking, in-lieu fee, or mitigation site development costs are provided in this scope of services, as they are not anticipated. Restoration plans as described in Task 2 will address temporary environmental resource damages.

- g) The City will provide permission for site access by the USACE Regulatory Office for purposes of determination/delineation verification (only if requested).
- 3.3 Threated and Endangered Species Habitat Assessment Coordinate with USFWS on the City's commitment to clear potential roost trees and tree clearing in general only between November 1 and March 31st for the Indiana and Northern Long-eared bat species as an avoidance measure for potential take and may adversely affect opinion.
 - a) Coordinate with USFWS on the City's commitment to avoid potential roost tree and tree clearing in general relative to active and inactive bat seasons (active April 1st – October 31st).
 - b) Request a determination letter from U.S. Fish and Wildlife Service of "not likely to adversely affect".
 - c) Request not likely to adversely affects determination for USFWS.
 - d) No habitat survey services are provided in this scope of work.
 - e) Should a "likely to adversely affect" determination result, or the City is unable to clear trees between November 1st and March 31st, HDR can provide further formal or informal USFWS consultation services such as habitat surveys, acoustic and/or mist netting surveys, Biological Assessment, etc. as a supplemental service.
 - f) No mitigation services for bat habitat are provided in this scope of work.
- 3.4 Complete 106 SHPO Cultural Coordination Submit Project Review Form to Missouri SHPO for Section 106 clearance.
- 3.5 MoDOT Utility Installation Permit Coordinate with MoDOT and prepare complete permit application and associated exhibits for trenchless pipe crossing of I-70.
- 3.6 Boone County Public Works Right of Way Work Permit Coordinate and prepare complete permit applications to be submitted to Boone County or local jurisdictions based on regulations for work within County right-of-way.
- 3.7 Boone County Flood Plain Development Permit Coordinate and prepare complete floodplain permit applications to be submitted to Boone County or local jurisdictions based on regulations for work within 100-year floodplains.
- 3.8 MDNR Land Disturbance Permit & SWPPP A Storm Water Pollution Prevention (SWPPP) sheet(s) will be provided for the sewer project. The SWPPP will meet the requirements of the MDNR Land Disturbance Permit issued to the City of Columbia, Permit No. MO-R100032 and be in accordance with the Request for Proposals requirements

3.9 QA/QC

Task 4 - Surveying and Geotechnical Investigation

- Topographic Field Survey Provide a boundary and topographical survey of the proposed sewer route in accordance with the Request for Proposals requirements. The topographic survey corridor for the sewer will be approximately 200-feet wide and ground surface elevations will be collected every 50-feet and at breaks in existing grade. The surveyor will obtain utility maps and coordinate with utility companies and the Missouri One Call field locate system to flag the locations of all existing utilities. The locations of the flagged utilities will then be surveyed and shown on the topographic survey. The survey is to be referenced to the State Plane Coordinate System with control points shown on the survey.
- 4.2 Property Ownership Research, Boundary Survey Research property ownership records and show property lines, existing and proposed right-of-way lines per the CATSO Major Roadway Plan and property ownership data on the survey.
- 4.3 Field Locate Alignment for Walk-Thru The proposed manholes shall be staked in the field for review by the City Staff and City Council members at the 50-percent plan stage.
- 4.4 Prepare Easement Legal Descriptions & Conveyance Documents The surveyor will prepare legal descriptions and display drawings for all needed permanent, temporary construction, and temporary access easements and prepare easement display drawings and easement documents using the City's standard easement forms.
- 4.5 Field Locate Easements The surveyor will field stake proposed permanent and temporary easements along the sewer alignment for review by the City Staff and City Council members and affected property owners.
- 4.6 Field Locate Bores/Piezometers
- 4.7 Set Benchmarks/Control (final control for final plans)
- 4.8 Geotechnical Borings (21 locations)
- 4.9 Piezometers (Construction & Drawdown/Recovery Tests) (6 locations)
- 4.10 Test Pits (3 to 4 locations)
- 4.11 On-going Piezometer Monitoring (6 trips)
- 4.12 HDR Review of Geotech Report

Task 5 - Final Design

- 5.1 Engineer will prepare construction documents, in accordance with the Request for Proposals requirements, for the sewers, based on the alignment and/or construction techniques approved by City Council at the Public Hearing.
- 5.2 Engineer will submit 50-percent and 90-percent design documents to Public Works for review. Formal design reviews are to be conducted with Public Works at the 50-percent and 90-percent design stages. It is assumed that minimal horizontal alignment revisions will be necessary based on comments from the Interested Parties Meeting and City Council Public Hearing. The plans developed during the Conceptual Design phase will be 30-percent drawings and be the basis for development of the 50-percent design documents. If significant design changes are required based on public comment, HDR may request scope and budget adjustments from the Owner.
 - a) The Engineer's Opinion of Probable Construction Cost is to be provided at the 50-, 90- and 100-percent completion stage.
 - b) Prepare a final design bid package for construction. Final design bid package is to include drawings, technical specifications and Public Works' adapted front-end bid documents.
 - c) AutoCAD 2014 will be used for all contract drawings. Drawings will be on 24 x 36 inch sheets.
 - d) Final plans are to include all supplemental plans required by applicable regulatory agencies to assure compliance with regulations. This is anticipated to include, but not limited to, items such as tree clearing plans, construction phasing, temporary traffic control plans for public roadways, and storm water pollution prevention plans.
 - e) Engineer shall prepare one reproducible bid package for City, and make available to City an electronic version of the Construction Documents. Public Works will provide the administration of bid documents, including distribution of bid documents, maintaining a bidders list, collection of money and distribution of addenda.

Task 6 - Bid Phase

- 6.1 Engineer will conduct a pre-bid meeting in City building.
- 6.2 Engineer will responses to bidder's inquiries and prepare addendums as required.
- 6.3 Engineer will have a representative present at the Bid Opening

- 6.4 Engineer will conduct an evaluation of bids and bidder qualifications and provide a letter recommendation of award for the City's consideration.
- 6.5 Engineer will assist City with Contract award and issuance of Notice to Proceed.

Task 7 - Construction Phase Services

- 7.1 Engineer will review Contractors submittals such as shop drawings, for the purpose of checking for conformance with the contract documents.
- 7.2 Once the sewer project has been constructed, the City shall notify the Engineer to perform post construction survey and prepare As-Built Plans/CAD file: Receive the construction contractor's certified record drawing revisions. Field survey the tops and flowlines of all new sanitary sewer manholes.
- 7.3 Supply Public Works with full-size reproducible record drawings and an AutoCAD digital version of the record drawings.
- 7.4 Engineer has included a very limited scope for consultation with Public Works during construction regarding trenchless construction and unstable soil conditions. Site visits and construction observation has not been included but can be provided if requested as an additional service.



FOR RATE SCHEDULE - ATTACHMENT B

(JANUARY 1, 2015 - DECEMBER 31, 2016)

Role	HOURLY RATE RANGE
CLIENT MANAGER/PROJECT PRINCIPAL/QUALITY CONTROL	\$190.00 - \$255.00
SENIOR PROJECT MANAGER	\$190.00 - \$245.00
Project Manager	\$150.00 - \$190.00
Assistant Project Manager	\$130.00 - \$150.00
Senior Project Engineer/Consultant	\$175.00 - \$235.00
PROJECT/COLLECTION SYSTEM ENGINEER	\$100.00 - \$170.00
Assistant Project Engineer/EIT	\$85.00 - \$105.00
Senior Structural Engineer	\$155.00 - \$215.00
Structural Engineer	\$90.00 - \$155.00
Senior Electrical Engineer	\$150.00 - \$200.00
ELECTRICAL ENGINEER	\$90.00 - \$150.00
Senior Mechanical Engineer	\$155.00 - \$200.00
Mechanical Engineer	\$90.00 - \$155.00
Senior Environmental Engineer	\$150.00 - \$175.00
Environmental Engineer	\$85.00 - \$150.00
ASSET MANAGEMENT SPECIALIST	\$185.00 - \$235.00
GIS SPECIALIST	\$100.00 - \$150.00
SENIOR ARCHITECT	\$150.00 - \$190.00
Architect Engineer	\$90.00 - \$150.00
Senior Cadd Technician	\$115.00 - \$135.00
CADD TECHNICIAN	\$80.00 - \$115.00
Survey Manager	\$110.00 - \$130.00
Survey Crew	\$120.00 - \$155.00
ADMINISTRATION PERSONNEL	\$ 75.00 - \$105.00
REIMBURSABLES:	
Printing & Reproduction	Cost
Travel	CURRENT IRS RATE
PHONE	Cost
MAPPING	Cost
SUBCONSULTANTS	Cost

EXHIBIT C - COMPENSATION FOR SERVICES City of Columbia, MO - Henderson Branch Sewer Extension Prepared 6/19/15

	Client Manager	QA/QC	Project Manager	Asst. Project Manager		Sr. CADD Tech	Sr. Consultant	Sr. Consultant - Geotech	Sr. Environmental	Environmental	Administration	Project Controller/ Administration	Expenses	Crockett Engineering & Geotech	Total
Allowable Billing Rates per Client Contract	245.00	190.00	183.00	125.00	90.00	118.00	220.00	220.00	162.00	87.00	80.00	102.00			
TASKS										0,100	00.00	102.00			
A. Task 1 - Project Management & Control		150000000000000000000000000000000000000	Mark Edition						MSUBER CONT.			CONTRACTOR OF THE CONTRACTOR O			
1 Cost Control/Invoicing/Resourse Allocations	2										-	8	\$80		\$1,386
2 Project Management / Scheduling / Sub. Coord	2		24									4	\$60		\$5,350
3 Quality Management Implementation	2		4									4	\$40		\$1,670
4 Project Approach and Resource Review		4	4	4			4	4				2	\$50		\$4,006
Subtotal Hours	6	4	32	4	0	0	4	4	0	0	0	18	Ψ30		Ψ1,000
Subtotal Dollars	1470	760	5856	500	0	0	880	880	0	0	0	1836	230	0	\$12,412
Total Task 1															\$12,412
B. Task 2 - Conceptual Design & Public Involvement															
1 Kick-off Meeting/Preliminary Site Visit	2		6	6									2400		
Existing Information Review (As-Builts, Utility Maps)			4	8	8								\$100	\$325	\$2,763
3 Alignment Evaluation			8	20	8	16	4		0						\$2,452
Perche Creek Crossing Trenchless vs. Open Cut	1		8			16			8				\$60		\$8,808
5 I-70 Crossing Location & Construction Method Evaluation	1		6	12 12	8	16	16	4	8						\$11,268
6 Opinion of Probable Construction Costs			8	8	8	16	16	4							\$9,606
7 Concept Plans			8	16	8	40	8						****		\$4,944
8 Review Meeting with City/County Staff	1		6	6	8	40	0						\$200		\$9,104
9 Address City/County Staff Comments	1		8			22	8						\$420		\$4,273
10 Prepare Interested Parties Meeting Displays			4	16 8		22 8	4						\$60		\$7,000
11 Open House Interested Parties Meeting #1	2		6	6		8	8						\$250		\$3,806
12 Meetings with individual Property Owners	2		16	0			8						\$420	\$325	\$4,843
13 Project Walk-Thru w/ City Officials			6	6									\$200	\$2,080	\$5,208
14 Utility Coordination Meeting			6	12									\$100	\$325	\$2,273
15 Prepare presentation for City Council Public Hearing			8	16		8							\$100	\$360	\$3,058
16 Present Alignment Evaluation & Concept Plan at Public Hearing	2		6	10		0							#	0055	\$4,408
17 QA/QC	2	6	0									2	\$200	\$355	\$2,143
Subtotal Hours	7	6	114	152	48	126	68	8	16	0	0	2 2			\$1,344
Subtotal Dollars	1715	1140	20862	19000	4320	14868	14960	1760	2592	0	0	204	2110	3770	\$87,301
Total Task 2				15000	1020	11000	14700	1700	2372	V	0	204	2110	3770	\$87,301
C T															
C. Task 3 - Permitting Assistance			2			16									
1 Waters of the US Determinations/Reporting			2	4		16			4	40					\$6,882
2 404/401 Permit Application 3 T&E Species Habitat Assessment			6	6					4	8					\$3,192
4 Complete 106 SHPO Cultural Coordination			2						2	2					\$864
			4	0					1						\$162
MoDOT Utility Crossing Permit Boone County Public Works Utility Excavation Permit			4	8	8			,							\$2,452
7 Boone County Flood Plain Development Permit			2	4	4										\$1,226
Boone County Flood Plain Development Permit MDNR Land Disturbance Permit & SWPPP			6	12	1.0										\$2,598
		0	2	4	16										\$2,306
9 QA/QC Subtotal Hours	0	8	24	20	20	1/			4.	# 0					\$1,520
Subtotal Pollars	0	1520	4392	38 4750	28 2520	16 1888	0	0	11	50	0	0	0		00100
Total Task 3	U	1520	4372	4/30	2520	1000	U	0	1782	4350	0	0	0	0	\$21,202 \$21,202

EXHIBIT C - COMPENSATION FOR SERVICES City of Columbia, MO - Henderson Branch Sewer Extension

D. Task 4 - Survey & Geotechnical Investigation				Try of Colui	Thomas, IVIO	Henderson	Dianen Sew	Extension					т т		
1 Topographic Field Survey														616.025	¢1.005
2 Property Ownership Research, Boundary Survey								1						\$16,925	\$16,925
3 Field Locate Alignment for Walk-Thru														\$15,925	\$15,925
4 Prepare Easement Legal Descriptions & Conveyance Documents														\$2,000	\$2,000
5 Field Locate Easements														\$7,400	\$7,400
6 Field Locate Bores/Piezometers														\$2,000	\$2,000
7 Set Benchmarks/Control (final control for final plans)														\$1,000	\$1,000
8 Geotechnical Borings (21 locations)					1									\$3,000	\$3,000
9 Piezometers (Construction & Drawdown/Recovery Tests) (6 location	ns)													\$26,234	\$26,234
10 On-going Piozometer Monitoring (6 trips)														\$9,350	\$9,350
11 HDR Review of Geotech Report			4				8	0						\$3,300	\$3,300
Subtotal Hours	0	0	4	0	0	0	8	8	0	0			\$25		\$4,277
Subtotal Dollars	0	0	732	0	0	0	1760	8 1760	0	0	0	0		07.404	***
Total Task 4	NE COLOR		102			U	1700	1700	U	U	U	U	25	87,134	\$91,411 \$91,411
E. Task 5 - Final Design															
1 50% Preliminary Plan Development														S245-68-55-16-5	
1.1 Title Sheet			1	1											
1.2 Overall Plan View Sheet			1	2		4									\$905
			2	4	-	8									\$1,810
1.3 Plan/Profile (30 Scale/14 Sheets)			4	4		40									\$5,952
1.4 Construction Access/Sequencing			4	4		8									\$2,176
1.5 Structural / Special Details			4	4		16	8								\$4,880
1.6 Standard Details			2	4		8									\$1,810
1.7 Perche Creek Crossing Restoration Plan and Details			4	4		16	8		8						\$6,176
1.8 Opinion of Probable Construction Costs			2	4	4		4		*						\$2,106
1.9 QC		4							102						\$760
2 Present to City/County Staff	2		6	6											\$2,338
2.1 Address Review Comments			4	8		8					2				\$2,836
2 90% Plans & Specification Development											V. E				
2.1 Title Sheet				1		2									\$361
2.2 Overall Plan View Sheet				2		4									\$722
2.3 Plan/Profile (30 Scale/14 Sheets)			4	8		12									\$3,148
2.4 Construction Access/Sequencing			1	4		4									\$1,155
2.5 Structural / Special Details			2	8		8	4								\$3,190
2.6 Standard Details			1	4		8									\$1,627
2.7 Perche Creek Crossing Restoration Plan and Details			2	4		8	4		4						\$3,338
2.8 Erosion Control Details				8		8									\$1,944
2.9 Preliminary Specifications			8	12			6				12				\$5,244
2.11 Opinion of Probable Construction Costs			2	2			2	1							\$1,056
2.12 QC		4													\$760
2.13 Present to City/County Staff			6	6											\$1,848
2.14 Address Review Comments			2	8		8					2				\$2,470
3 100% Plans & Specification Development															
3.1 Finalize Plans based on Easement Acquisition Comments			4	8		8									\$2,676
3.2 Finalize Specifications and Bid Documents			4	8			2				6		\$100		\$2,752
3.4 Opinion of Probable Construction Costs			1	2			1		1						\$653
3.5 Deliver Hard & Electronic Copies to City/County Staff				2		4					4		\$300		\$1,342
Subtotal Hours	2	8	70	131	4	182	39	0	12	0	26	0			
Subtotal Dollars	490	1520	12810	16375	360	21476	8580	0	1944	0	2080	0	400	0	\$66,035
Total Task 5						Page 2 of 3				A POT		A THE STATE OF			\$66,035

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EXHIBIT C - COMPENSATION FOR SERVICES

City of Columbia, MO -	Henderson	Branch	Sewer	Extension
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F. Task 6 - Bid Phase				Try of Colum	iibia, Mio -	Tichuci son	Dianen Sew	ei Extension	U.						
THON U - DELL'IMPE												The state of	建造金数据		
1 Conduct Pre-Bid Conference			6				8				2		\$412		\$3,430
2 Respond to Questions / Prepare Addendums			4	8			2				2	17	V.1.2		\$2,332
3 Attend Bid Opening	1														\$2,332
4 Review Bids and Recommend Award			4	8			2				2				\$2,332
5 Assist with Contract Award and NTP			4	4							-				\$1,232
Subtotal Hours	1	0	18	20	0	0	12	0	0	0	6	0			\$1,232
Subtotal Dollars	245	0	3294	2500	0	0	2640	0	0	0	480	0	412	0	\$9,571
Total Task 6											400		412		\$9,571
G. Task 7 - Construction Phase Services															
1 Shop Drawing Review		1	8	16											\$3,654
2 As-Built Survey														\$1,430	
3 Prepare As-Built CAD File			2	4		16								\$1,430	\$1,430
4 Unstable Soils & Trenchless Consultations (As-Needed)			8				8	4							\$2,754
Subtotal Hours	0	1	18	20	0	16	8	4	0	0	0	0			\$4,104
Subtotal Dollars	0	190	3294	2500	0	1888	1760	880	0	0	0	0	0	1420	011.040
Total Task 7		1 1 1 1 1				1000	1700	000	0	0	0	0	0	1430 -	\$11,942
Total Hours	16	27	280	365	80	340	139	24	39	50	32	20			\$11,942
Total Billing Amount	\$3,920	\$5,130	\$51,240	\$45,625	\$7,200	\$40,120	\$30,580	\$5,280	\$6,318	\$4,350	\$2,560	\$2,040	\$3,177	\$92,334	1,412 \$299,874

Maximum Project Fee

\$299,874

City of Columbia

701 East Broadway, Columbia, Missouri 65201



SUPPORTING DOCUMENTS INCLUDED WITH THIS AGENDA ITEM ARE AS FOLLOWS:

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