CITY		ENGINEER	
CITY OF JOPLIN 602 S. MAIN STREET JOPLIN, MO 64801		Name: **Anderson Engineering, Inc** Address: **811 E. 3rd Street** **Joplin, Missouri 64801**	
Attention: **Nicholas A. Heatherly, PE,CFM** **nheather@joplinmo.org**		Attention: **John Snider, PE** **VICE-PRESIDENT**	
Department: **Public Works Department**		Phone: **417-782-7399**	Fax: **417-782-7398**
Phone: **417-624-0820, ext 500**	Fax: **417-625-4738**		

WORK AUTHORIZATION NUMBER AND-DR2AP1-1
TO AGREEMENT FOR PROFESSIONAL ENGINEERING CONSULTING SERVICES

City and Engineer agree to amend their Agreement for Professional Engineering Consulting Services 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 AND-DR2AP1-1 exceed the sum of Six Hundred Nine Thousand Nine Hundred Seventy One and No/1000 Dollars ($ 609,971.00).

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 cancellation or non-renewal 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

All policies except for the professional liability policy 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, 2014, 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 Six Hundred Eighty-Seven Thousand Five Hundred Ninety-Four and no/100 Dollars ($2,687,594.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Three Thousand One Hundred Thirty-Nine and no/100 Dollars ($403,139.00) 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 Six Hundred Eighty-Seven Thousand Five Hundred Ninety-Four and no/100 Dollars ($2,687,594.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Three Thousand One Hundred Thirty-Nine and no/100 Dollars ($403,139.00) 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 on both a per-claim and an aggregate basis. 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

Dan Johnson, PE - 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: Anderson Engineering, Inc.

By: _____

Printed Name: John Snider, PE

Title: Vice President

Date: 8/6/2014

CITY OF JOPLIN, MISSOURI

By: _____

Nicholas A. Heatherly, P.E.
Public Works Director

Date: 8/8/14

ANDERSON ENGINEERING, INC
EMPLOYEE OWNED

EXHIBIT A

July 27, 2014

City of Joplin
Attn: Nick Heatherly, PE and Dan Johnson, PE
602 S. Main Street
Joplin, Missouri 64801

Re: Proposal for Professional Engineering Consulting Services
CDBG-DR Projects, Work Order And-DR2-AP1-1
Joplin, Missouri

Dear Mr. Heatherly and Mr. Johnson,

We understand this project consists of providing professional engineering consulting services for sidewalk construction, curb and gutter repair, and seven stormwater improvement projects within the "pink area" of the City's CDBG-DR project.

This proposal is based on our meetings with you on July 9, 21, and 25. This proposal is also based on several visits to the project area over the previous two weeks. This proposal is also based on our review of the damage assessment GIS website provided by TranSystems.

As requested by you our proposed projects/deliverables are as follows.

Strategy Plan, Curb, Gutter, and Sidewalk Plans

We will prepare a comprehensive strategy plan for improvements to the stormwater, curb, gutter, sidewalks, and incidental streets for the entire pink area we are assigned. The strategy plan will include recommendations for proposed improvements, phasing, schedules, and estimated construction costs. We will also prepare the required environmental assessment. This assessment will be completed by our third-party CDEBG consultant, Ann Black, in conjunction with us. In preparing the strategy plan, we will also attend weekly progress meetings. We will also prepare construction documents for a few "ready-to-go" sidewalk, curb, and gutter improvement projects. We understand the size and scope of those initial projects will be determined based on our own strategy plan of the entire area and coordination with the City and other consultants. We will also prepare sidewalk, curb, and gutter construction documents where necessary in the stormwater project areas listed below.

Stormwater #1: Texas and Highview Avenues – 20th to 22nd Streets

Current stormwater management is inadequate in the neighborhood contained from 20th Street to 22nd Street and Texas Avenue to Highview Avenue. We will perform a topographic survey and right-of-way survey within the project area. We will perform a hydraulic analysis and design for an enclosed stormwater collection and piping system. We anticipate that two major system will be designed, one on Texas Avenue and one on Arizona Avenue, both starting at 20th Street and ending near 22nd Street. We

also anticipate the design of multiple new gutter crossings at four nearby intersections along 22nd Street. Our design will also include removal and replacement of damaged and inadequate curbing and gutter within the project area.

Stormwater #2 & 3: 20th Street – Channel and Box Culverts, and CMP Replacement.

These are two City-identified stormwater projects. However, they are connected hydraulically, so we will design them together. 20th Street from Range Line Road to Murphy Park (Joplin Creek) has several stormwater drainage issues that require improvement. Existing box culverts are located at 20th and Arizona and 20th and Highview. Both boxes should be rebuilt to provide a larger water capacity and better channel alignment. This channel is also the floodplain and may require Corps of Engineer permitting and completion of a no-rise certificate. The channel on the south side of 20th Street, running from Range Line Road to Murphy Park also needs to be realigned to improve efficiency. The realignment of the channel will require additional easement or right-of-way acquisition (Unity Church). Also, a large CMP currently runs under the north edge of 20th street from Range Line Road to Murphy Park. We anticipate upgrading and replacing the entire length of the culvert. There is also a large arch CMP across 20th Street that will be checked for condition and capacity. We will perform a topographic survey and boundary survey within the project area. We will perform a hydraulic analysis and design for the open channel and an enclosed stormwater collection and piping system. Our design will include replacement of curbing where necessary within the project area.

Stormwater #4: 16th Street and Highview Avenue

Current stormwater management is inadequate in the area along 16th Street from Highview to Texas Avenue. Streets have very shallow grades for conveying water in the gutters, and intersections redirect water away from the most direct drainage route. We will perform a topographic survey and right-of-way survey within the project area. We will perform a hydraulic analysis and design for an enclosed stormwater collection and piping system. We anticipate that a new piping system will begin at the existing large box culvert at 16th and Texas. Piping and inlets will extend east along 16th Street, almost reaching Rangeline Road. We also anticipate the design of multiple new gutter crossings intersections along 16th Street. Our design will also include removal and replacement of damaged and inadequate curbing and gutter within the project area.

Stormwater #5: 21st Street and New Jersey Avenue

Current stormwater management is inadequate at the cul-de-sacs at Park Place and New Jersey Avenue, draining west to Connecticut Avenue. We will perform a topographic survey and boundary survey within the project area. We will perform a hydraulic analysis and design for an enclosed stormwater collection and piping system. We anticipate that an enclosed piping and collection system will be constructed to run in between residential lots at the end of the cul-de-sacs. The system will run west to connect into existing drainage pipes within Connecticut Avenue right-of-way. Our design will also anticipate the requirements of future development in the adjacent properties.

Stormwater #6: Delaware Avenue – 15th to 18th Street

Drainage issues have been identified along the existing piped drainage system starting at 18th Street east of Delaware Avenue and ending near the intersection of Delaware Avenue and 15th Street. Also, this area will support future drainage from the new library and movie theater. Since most of project will be on private property with expected easements, we will perform a topographic survey and boundary survey within the project area. The expected improvements include increasing the capacity of this system to lower the frequency of flooding in this area and future developments.

Stormwater #7: 15th Street and Delaware Avenue

We understand that this intersection experiences minor flooding during small rainfall events and that this intersection is also in the floodplain. We will perform a topographic survey and boundary survey within the project area. Expected improvements include increasing the capacity of the stormwater system in order to lower the frequency of flood at this intersection. We anticipate the drainage system above (Delaware Avenue – 15th to 18th Street) will tie into this project. We will also prepare a no-rise certificate for these proposed improvements since the work will be in the flood plain. This intersection may be a candidate for a future roundabout. Our design will take this possible improvement into consideration.

As requested by you our proposed scope of services for each project is as follows, where applicable. Our preliminary schedule is also included.

CIVIL ENGINEERING – SITE GEOMETRY & UTILITY PLAN

- Provide a site geometry and site utility plan for the proposed projects. Site layout includes sidewalk, curb and gutter, stormwater channel, stormwater piping, and street crossings. Based on our meeting with you, a closed-pipe stormwater structures are preferred for this project within the right-of-way. The utility plan will show the existing utilities and identify any conflicts with the proposed improvements. The City of Joplin's standard technical specifications will be used.

CIVIL ENGINEERING – STORMWATER MANAGEMENT AND DESIGN

- Provide stormwater analysis and drainage calculations per City of Joplin standards for stormwater. This proposal assumes U.S. Army Corps of Engineers Section 404 permitting will be necessary for the 20th Street stormwater projects. Based on a review of topographic maps and brief site observation, we do not believe permitting will be required. We anticipate having a few options for the final design and will meet with the city to determine the final course of action.

CIVIL ENGINEERING – GRADING & EROSION CONTROL PLAN

- Provide a grading and erosion control plans. Finish grades will include spot elevations, as applicable, for top of pavement, drainage inlets, and grading at one foot contour intervals for the proposed project. As part of the Erosion Control Plan we will also prepare Stormwater Pollution Prevention Plans (SWPPP). The City of Joplin's standard technical specifications will be used.

SURVEYING – SITE TOPOGRAPHIC SURVEY

- Provide a topographic engineering survey of our project areas for engineering design. Survey will include spot elevations, location of all utilities, and other improvements located within the street right-of-way. The survey will show basic planimetrics as well as above ground and underground utilities (as located by Missouri One Call) within survey area. The survey will be based on the Missouri State Plane Coordinate system of 1983, West Zone and NAVD 88. Control points and temporary benchmarks will be set along the survey route to be used during construction phase of the project. We understand that the City will Hydrovac structures located during the survey that require being cleared out.

SURVEYING – RIGHT-OF-WAY SURVEY

- In areas where we anticipate work will be limited to within the right-of-way, we will provide a right-of-way survey. The right of way surveys will show the right of way line on both sides of the street to be used in the design phase of this project. At this time, we will only show the right of way lines and will not show each parcel line. Also, no easements will be shown as a part of this survey. The survey will be based on the Missouri State Plane Coordinate system of 1983, West Zone.

BOUNDARY SURVEY

- In areas where we anticipate work will be on or across private property, we will provide a boundary survey. The boundary survey will show the property lines of the tract and all easements affecting each property as reflected on a current title commitment. As we have customarily done with the City of Joplin, we request that the client provide us with title searches for the properties along with copies of all deeds and easements to be shown on the survey. The survey will be based on the Missouri State Plane Coordinate system of 1983, West Zone.

Scope/Fee:

Strategy Plan, Curb, Gutter, and Sidewalk Plans[1]	$ 190,000.00
Stormwater #1: Texas and Highview Ave – 20th to 22nd St.[1]	$ 56,820.00
Stormwater #2 & 3: 20th Street – Box Culverts and CMP Replacement[1]	$ 197,633.00
Stormwater #4: 16th Street and Highview Avenue[1]	$ 40,350.00
Stormwater #5: 21st Street and New Jersey Avenue[1]	$ 32,939.00
Stormwater #6: Delaware Avenue – 15th to 18th Street[1]	$ 65,878.00
Stormwater #7: 15th Street and Delaware Avenue[1]	$ 26,351.00
MAXIMUM NOT TO EXCEED FEE:	**$ 609,971.00**

[1] *We propose to complete these services on an hourly basis with a not to exceed limit. As requested, we will also track our time by the follow tasks: Stormwater, Curb and Gutter, and Sidewalk.*

Estimated Schedule/Phasing of Work:

Strategy Plan: We will deliver our strategy plan within 60 days of notice to proceed.

We understand our strategy plan will identify and recommend project schedules, cost estimates, and priorities more definitively. At that point, we will be given better confirmation of recommendations for

our work scope. We understand that all design work for this work order must be completed and paid by January 15, 2016. Based on our own internal assessment of the projects, below are the phases in which we plan (at this time) to complete this work. These were based on projects being able to be started "quickly", City priorities, and City planning.

Phase I (starting within a week of notice to proceed):
Stormwater: Texas and Highview Ave – 20th to 22nd St.
Stormwater: 16th Street and Highview Avenue
Stormwater: Delaware Avenue – 15th to 18th Street

Phase II
Sidewalk, Curb and Gutter Projects (corridors recommended first, but exact area(s) to be determined)

Phase III
Stormwater: 20th Street – Box Culverts and CMP Replacement
Additional Sidewalk, Curb and Gutter Projects (exact area(s) to be determined)
Stormwater: 21st Street and New Jersey Avenue

Phase IV
Stormwater: 15th Street and Delaware Avenue
Remainder of Sidewalk, Curb and Gutter Projects (exact area(s) to be determined)

Phase V
Any additional out of scope tasks desired by the City (time and budget permitting)

OTHER
This proposal includes providing two sets of sealed plans to the City. This proposal includes reviews with the City for concept, 30%, 60%, and 90% plans.

ASSUMPTIONS
We will make a Utility Locate call to identify public utilities. We have assumed that all public utilities will be located accurately and completely by the Utility Locator. We will coordinate with you and the public utility companies for uncovering and/or hydrovac for key utility locations.

GENERAL INFORMATION
This proposal is limited to design only and does not include any construction staking, observations, or testing.

We will invoice monthly, showing what was completed and time and expenses incurred. Invoices are due upon receipt regardless of whether the client has been, or is to be, reimbursed by any other party. We understand we are not to proceed on out of scope work unless a new work authorization is received in writing. A service charge of one and one-half percent per month is assessed on accounts 90 days past

due. Should you have any questions regarding these proposals, please give us a call. Again, we want to thank you for the opportunity to be of service and we look forward to working with you on this project.

Sincerely,

John Snider, PE
Vice President

Kevin Sprenkle, PE
Vice President

Jerrod Hogan, PLS
Vice President

Bryan Osborn, PE
Project Coordinator

ANDERSON ENGINEERING, INC

EMPLOYEE OWNED

FEE SCHEDULE – ENGINEERING
CITY OF JOPLIN – CDBG DR PROJECTS

THIS SCHEDULE IS PREPARED AS A METHOD OF CHARGING FOR SERVICES ON A UNIT AND HOURLY BASIS. THE RATES ARE BASED UPON THE SKILL AND KNOWLEDGE OF OUR PERSONNEL. INVOICES WILL BE SUBMITTED MONTHLY AND/OR UPON COMPLETION OF SERVICES. PAYMENT IS DUE ON RECEIPT OF THE INVOICE. ACCOUNTS OVER NINETY DAYS ARE SUBJECT TO 1 1/2% PER MONTH SERVICE CHARGE. SERVICES WILL BE PERFORMED IN ACCORDANCE WITH ACCEPTED STANDARD METHODS UTILIZING PROPERLY TRAINED, REGISTERED, LICENSED, OR CERTIFIED PERSONNEL AS REQUIRED. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR CONSTRUCTION METHODS, MATERIALS, PROCEDURES, PRODUCTS, SAMPLING OR ACTIONS OF OTHERS.

ANDERSON ENGINEERING, INC., BY: _____ EFFECTIVE: 07/28/2014 TO 01/15/2016

NEIL S. BRADY, P.E., PRESIDENT

BASIC CHARGES

PERSONNEL (HOURLY RATES):

PRINCIPAL	$152.00
PROJECT MANAGER	$145.00
PROJECT ENGINEER	$129.00
ASSOCIATE ENGINEER	$108.00
DESIGN ENGINEER	$87.00
TECHNICIAN IV	$86.00
TECHNICIAN III	$71.00
TECHNICIAN II	$59.00
TECHNICIAN I	$43.00
ASSOCIATE DESIGNER	$100.00
DESIGNER II	$80.00
DESIGNER	$76.00
GIS SPECIALIST	$100.00
CADD TECHNICIAN III	$69.00
CADD TECHNICIAN II	$58.00
WORD PROCESSOR	$60.00
MAPPER	$56.00
MAPPING TECHNICIAN	$46.50
CLERICAL	$43.50

EXPENSES & EQUIPMENT CHARGES:

VEHICLE (3/4 TON OR LESS)	$0.63/MILE
VEHICLE (SUBURBAN & 1 TON+)	$0.68/MILE
COPIES	$0.10/EACH
PRINTING PLANS	$0.50/SQ. FT + TECHNICIAN TIME

REIMBURSABLES: (COST PLUS 15 PERCENT) TRAVEL EXPENSES (INCLUDING MEALS AND LODGING), OUTSIDE PRINTING, CONSUMABLE MATERIALS AND SUBCONTRACTOR EXPENSES.

OVERTIME (OVER 8 HOURS PER DAY, 40 HOURS PER WEEK, SATURDAYS, SUNDAYS, AND HOLIDAYS):
1.5 TIMES THE HOURLY RATE.

HOURLY RATES: APPLY TO MEETING & TRAVEL TIME **DEPOSITION/COURT TIME:** 1.5 TIMES THE HOURLY RATE

ANDERSON ENGINEERING, INC
EMPLOYEE OWNED

FEE SCHEDULE – SURVEYING
CITY OF JOPLIN – CDBG DR PROJECTS

THIS SCHEDULE IS PREPARED AS A METHOD OF CHARGING FOR SERVICES ON A UNIT AND HOURLY BASIS. THE RATES ARE BASED UPON THE SKILL AND KNOWLEDGE OF OUR PERSONNEL. INVOICES WILL BE SUBMITTED MONTHLY AND/OR UPON COMPLETION OF SERVICES. PAYMENT IS DUE ON RECEIPT OF THE INVOICE. ACCOUNTS OVER NINETY DAYS ARE SUBJECT TO 1 1/2% PER MONTH SERVICE CHARGE. SERVICES WILL BE PERFORMED IN ACCORDANCE WITH ACCEPTED STANDARD METHODS UTILIZING PROPERLY TRAINED, REGISTERED, LICENSED, OR CERTIFIED PERSONNEL AS REQUIRED. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR CONSTRUCTION METHODS, MATERIALS, PROCEDURES, PRODUCTS, OR ACTIONS OF OTHERS.

ANDERSON ENGINEERING, INC., BY: _____ EFFECTIVE: 07/28/2014 thru 01/15/2016
NEIL S. BRADY, P.E., PRESIDENT

BASIC CHARGES

PERSONNEL (HOURLY RATES):

PRINCIPAL	$152.00
SURVEY MANAGER	$137.00
PROJECT SURVEYOR	$101.00
ASSOCIATE SURVEYOR	$90.00
TECHNICIAN III - PARTY CHIEF	$71.00
TECHNICIAN II	$59.00
TECHNICIAN I	$43.00
TWO MAN SURVEY CREW	$130.00
THREE MAN SURVEY CREW	$173.00
FOUR MAN SURVEY CREW	$216.00
DESIGNER	$76.00
CADD TECHNICIAN III	$69.00
CADD TECHNICIAN II	$58.00
CLERICAL	$43.50

EXPENSES & EQUIPMENT CHARGES:

VEHICLE (3/4 TON OR LESS)	$0.63/MILE
VEHICLE (SUBURBAN & 1 TON+)	$0.68/MILE
LASER SCANNING EQUIPMENT	$400.00/DAY
GPS EQUIPMENT	$270.00/DAY
ROBOTIC TOTAL STATION	$200.00/DAY
PRINTING PLANS	$0.50/SQ. FT

REIMBURSABLES: (COST PLUS 15 PERCENT) TRAVEL EXPENSES (INCLUDING MEALS AND LODGING), OUTSIDE PRINTING, CONSUMABLE MATERIALS AND SUBCONTRACTOR EXPENSES.

OVERTIME (OVER 8 HOURS PER DAY, 40 HOURS PER WEEK, SATURDAYS, SUNDAYS, AND HOLIDAYS): 1.5 TIMES THE HOURLY RATE.

HOURLY RATES: APPLY TO MEETING AND TRAVEL TIME FOR ALL PERSONNEL CATEGORIES.

DEPOSITION OR COURT TESTIMONY: 1.5 TIMES THE HOURLY RATE.

ANDERSON ENGINEERING, INC
EMPLOYEE OWNED

FEE SCHEDULE - MATERIALS TESTING
CITY OF JOPLIN – CDBG DR PROJECTS

THIS SCHEDULE IS PREPARED AS A METHOD OF CHARGING FOR SERVICES ON A UNIT AND HOURLY BASIS. THE RATES ARE BASED UPON THE SKILL AND KNOWLEDGE OF OUR PERSONNEL. INVOICES WILL BE SUBMITTED MONTHLY AND/OR UPON COMPLETION OF SERVICES. PAYMENT IS DUE ON RECEIPT OF THE INVOICE. ACCOUNTS OVER NINETY DAYS ARE SUBJECT TO 1 1/2% PER MONTH SERVICE CHARGE. SERVICES WILL BE PERFORMED IN ACCORDANCE WITH ACCEPTED STANDARD METHODS UTILIZING PROPERLY TRAINED, REGISTERED, LICENSED, OR CERTIFIED PERSONNEL AS REQUIRED. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR CONSTRUCTION METHODS, MATERIALS, PROCEDURES, PRODUCTS, SAMPLING OR ACTIONS OF OTHERS.

ANDERSON ENGINEERING, INC., BY: _____ EFFECTIVE: 07/28/2014 thru 01/15/2016
NEIL S. BRADY, P.E., PRESIDENT

BASIC CHARGES

PERSONNEL (HOURLY RATES):

PRINCIPAL	$152.00
PROJECT MANAGER	$145.00
PROJECT ENGINEER	$129.00
ASSOCIATE ENGINEER	$108.00
DESIGN ENGINEER	$87.00
GEOLOGIST	$87.00
TECHNICIAN IV - SPECIALIST/LAB MANAGER	$86.00
TECHNICIAN III - SENIOR LAB/FIELD TECHNICIAN	$71.00
TECHNICIAN II - LAB/FIELD TECHNICIAN	$51.00
TECHNICIAN I - TECHNICIAN AIDE	$43.00
STRUCTURAL STEEL/AWS CERTIFIED WELD INSPECTOR	$66.00
ASNT TC-1A ULTRASONIC, MAG PARTICLE & DYE TESTING - LEVEL II	$81.50
DESIGNER	$76.00
CADD TECHNICIAN III	$69.00
CADD TECHNICIAN II	$58.00
CLERICAL	$43.50

EXPENSES & EQUIPMENT CHARGES:

VEHICLE (3/4 TON OR LESS)	$0.63/MILE
VEHICLE (SUBURBAN & 1 TON+)	$0.68/MILE
WATER TRUCK	$75.00/DAY + $0.68/MILE
COPIES	$0.10/EACH
PRINTING PLANS	$0.50/SQ. FT + TECHNICIAN TIME

REIMBURSABLES: (COST PLUS 15 PERCENT) TRAVEL EXPENSES (INCLUDING MEALS AND LODGING), OUTSIDE PRINTING. CONSUMABLE MATERIALS AND SUBCONTRACTOR EXPENSES.

MINIMUM CHARGE: THERE IS A MINIMUM CHARGE OF 2 HOURS OF TECHNICIAN TIME PER JOB SITE VISIT, EXCEPT FOR CONCRETE CYLINDER AND SAMPLE PICKUP.

OVERTIME (OVER 8 HOURS PER DAY OR SATURDAYS, SUNDAYS, AND HOLIDAY WORK): 1.5 TIMES THE HOURLY RATE.

HOURLY RATES: APPLY TO MEETING AND TRAVEL TIME, INCLUDING CONCRETE CYLINDER PICKUP, FOR ALL PERSONNEL CATEGORIES.

DEPOSITION OR COURT TESTIMONY: 1.5 TIMES THE HOURLY RATE.

FIELD TESTING AND INPSECTION CHARGES

FIELD DENSITY (COMPACTION TEST ..... BASIC CHARGES + $ 8.00/EA.
CONE PENETROMETER ..... BASIC CHARGES + $ 10.00/EA.
FLOOR FLATNESS EQUIPMENT ..... BASIC CHARGES + $250.00/EA.

LABORATORY TEST CHARGES

AGGREGATES (ASTM)	UNIT CHARGE
L.A. ABRASION, SMALL AGG. (C131)	$ 123.00
L.A. ABRASION, LARGE AGG. (C535)	$ 150.00
SULFATE SOUNDNESS TEST (C88):	
5-CYCLE	$ 216.30
10-CYCLE	$ 288.40
20-CYCLE	$ 406.80
SIEVE ANALYSIS, DRY AGG (C136)	$ 51.50
SIEVE ANALYSIS (C117)	$ 61.80
SIEVE ANALYSIS (C117, C136)	$ 77.20
SPECIFIC GRAVITY, FINE AGG (C128)	$ 56.60
SPECIFIC GRAVITY, COARSE AGG (C127)	$ 56.60
LIGHTWEIGHT PIECES IN AGG (C123)	$ 87.50
ORGANIC IMPURITIES (C40)	$ 51.50
FLAT & ELONGATED PIECES (D4791)	$ 77.20
DELETERIOUS MATLS (MODOT TM71)	$ 66.90
CLAY LUMPS & FRIABLE PARTICLES (C142)	$ 82.40
DRY RODDED UNIT WEIGHT (C29)	$ 37.00

MASONRY TESTS (ASTM)	
COMPRESSIVE STRENGTH, 4" BLOCK	$ 25.70
COMPRESSIVE STRENGTH, 6" BLOCK	$ 30.90
COMPRESSIVE STRENGTH, 8" BLOCK	$ 43.20
COMPRESSIVE STRENGTH, 12" BLOCK	$ 72.10
COMPRESSIVE STRENGTH, MORTAR MORTAR/GROUT CUBE	$ 12.30
GROUT PRISM	$ 12.30
MORTAR CYLINDER (2" X 4")	$ 12.30
ABSORPTION, MASONRY BLOCK	$ 41.20
LINEAR SHRINKAGE (SET OF 3)	$ 309.00

BITUMINOUS TESTING	
ASPHALT CONTENT	$ 92.70
ASPHALT CONTENT & AGG. GRADATION	$ 154.50
SEIVE ANALYSIS EXTRACTION	$ 77.20
MARSHALL TEST, FIELD – 3 PUCKS	$ 77.20
MARSHALL TEST, LAB – 3 PUCKS	$ 113.30
RETAINED STABILITY	$ 175.00
ASPHALT CORE DENSITY, EACH	$ 25.70
THEORETICAL MAX. DENSITY	$ 123.60

SOIL TESTS (ASTM)	UNIT CHARGE
ATTERBERG LIMITS (D4318)	$ 56.60
SWELL TEST, 1/16 TSF (D4546)	$ 150.00
SWELL PRESSURE (D4546)	$ 283.20
SHRINKAGE LIMIT (D4943)	$ 56.60
MOISTURE CONTENT (C2216)	$ 5.60
SIEVE + HYDROMETER	$ 139.00
HYDROMETER ONLY (D422)	$ 77.20
USCS CLASSIFICATION	$ 26.70
PERCENT PASSING #200	$ 41.20
SPECIFIC GRAVITY (D854)	$ 72.10
UNCONFINED COMPRESSION	$ 49.40
UNCONFINED/TRIAXIAL, REMOLDED	$ 77.20
TRIAXIAL TEST, PP, CU w/PP	$ 300.00
ORGANIC MATTER (D2974-C)	$ 51.50
PENETROMETER	$ 4.10
CONE PENETROMETER (D3441)	$ 15.00
DYNAMIC CONE PENETROMETER	$ 25.00
SAMPLE PREP, PER HOUR	$ 49.40
SHELBY TUBE DENSITY	$ 30.90
RESISTIVITY	$ 154.50
PERMEABILITY, FALLING HEAD	$ 370.40
PERMEABILITY, FLEXIBLE WALL	$ 350.00
PERMEABILITY, CONSOLIDATION TEST	$ 154.50
CONSOLIDATION TEST, TO 8 TSF	$ 391.40
CONSOLIDATION TEST, LOAD INC. > 8 TSF, EA.	$ 51.50
CALIFORNIA BEARING RATIO, LAB, PER POINT	$ 103.00
pH	$ 51.50

LABORATORY COMPACTION TESTS	
MOISTURE DENSITY RELATIONSHIP	
STD. PROCTOR (D698), MTH A & B	$ 148.50
STD. PROCTOR (D698), MTH C	$ 175.00
STD. PROCTOR (D698), 1 POINT	$ 53.00
MOD. PROCTOR (D1557), MTH A & B	$ 180.50
MOD. PROCTOR (D1557), MTH C	$ 244.00
MOD. PROCTOR (D1557), 1 POINT	$ 58.50
RELATIVE DENSITY	$ 371.00

FEE SCHEDULE
MATERIALS TESTING
JULY 28, 2014 THRU JANUARY 15, 2016

CONCRETE/ROCK CORE	
CORE TRIM & TEST	$ 42.50

CONCRETE TESTING	
4" X 8" OR 6" X 12" TEST MOLD	$ 1.75
6" X 12" CYLINDER, TESTED & MOLD	$ 14.50
6" X 12" CYLINDER, EXTRA & MOLD	$ 10.50
4" X 8" CYLINDER, TESTED & MOLD	$ 10.50
4" X 8" CYLINDER, EXTRA & MOLD	$ 7.00
SAW CONCRETE CYLINDER	$ 25.50
BEAM FLEXURAL STRENGTH	$ 36.00
CONCRETE BEAM, NOT TESTED	$ 20.60

ANDERSON ENGINEERING, INC

EMPLOYEE OWNED

FEE SCHEDULE
GEOTECHNICAL ENGINEERING & DRILLING SERVICES
CITY OF JOPLIN – CDBG DR PROJECTS

THIS SCHEDULE IS PREPARED AS A METHOD OF CHARGING FOR SERVICES ON A UNIT AND HOURLY BASIS. THE RATES ARE BASED UPON THE SKILL AND KNOWLEDGE OF OUR PERSONNEL. INVOICES WILL BE SUBMITTED MONTHLY AND/OR UPON COMPLETION OF SERVICES. PAYMENT IS DUE ON RECEIPT OF THE INVOICE. ACCOUNTS OVER NINETY DAYS ARE SUBJECT TO 1 1/2% PER MONTH SERVICE CHARGE. SERVICES WILL BE PERFORMED IN ACCORDANCE WITH ACCEPTED STANDARD METHODS UTILIZING PROPERLY TRAINED, REGISTERED, LICENSED, OR CERTIFIED PERSONNEL AS REQUIRED. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR CONSTRUCTION METHODS, MATERIALS, PROCEDURES, PRODUCTS, SAMPLING OR ACTIONS OF OTHERS.

ANDERSON ENGINEERING, INC., BY: _____ EFFECTIVE: 07/28/2014 thru 01/15/2016

NEIL S. BRADY, P.E., PRESIDENT

BASIC CHARGES

PERSONNEL (HOURLY RATES):

PRINCIPAL	$152.00
PROJECT MANAGER	$145.00
PROJECT ENGINEER	$129.00
ASSOCIATE ENGINEER	$108.00
DESIGN ENGINEER	$87.00
GEOLOGIST	$87.00
TECHNICIAN IV - SPECIALIST/LAB MANAGER	$86.00
TECHNICIAN III - SENIOR LAB/FIELD TECHNICIAN	$71.00
TECHNICIAN II - LAB/FIELD TECHNICIAN	$51.00
TECHNICIAN I - TECHNICIAN AIDE	$43.00
DESIGNER	$76.00
CADD TECHNICIAN III	$69.00
CADD TECHNICIAN II	$58.00
CLERICAL	$43.50

EXPENSES & EQUIPMENT CHARGES:

VEHICLE (3/4 TON OR LESS)	$0.63/MILE
VEHICLE (SUBURBAN & 1 TON+)	$0.68/MILE
WATER TRUCK	$75.00/DAY + $0.68/MILE
COPIES	$0.10/EACH
PRINTING PLANS	$0.50/SQ. FT + TECHNICIAN TIME

REIMBURSABLES: (COST PLUS 15 PERCENT) TRAVEL EXPENSES (INCLUDING MEALS AND LODGING), OUTSIDE PRINTING. CONSUMABLE MATERIALS AND SUBCONTRACTOR EXPENSES.

OVERTIME (OVER 8 HOURS PER DAY OR SATURDAYS, SUNDAYS, AND HOLIDAY WORK): 1.5 TIMES THE HOURLY RATE.

HOURLY RATES: APPLY TO MEETING AND TRAVEL TIME FOR ALL PERSONNEL CATEGORIES.

FEE SCHEDULE
GEOTECHNICAL ENGINEERING & DRILLING SERVICES
JULY 28, 2014 THRU JANUARY 15, 2016

DEPOSITION OR COURT TESTIMONY: 1.5 TIMES THE HOURLY RATE.

HAZARDOUS OPERATION CHARGE: FOR LEVEL C: ONE AND ONE HALF TIMES THE BASIC CHARGE; FOR LEVEL B & A: TWO TIMES THE BASIC CHARGE.

DRILLING SERVICE CHARGES

ENGINEER, STANDBY TIME, STAKEOUT CREW & OFFICE PERSONNEL	BASIC CHARGES
MOBILIZATION - CME 55 RIGS	$ 2.26/MILE ($100.00 MINIMUM)
MOBILIZATION - CME 75 RIGS	$ 2.78/MILE ($100.00 MINIMUM)
MOBILIZATION - CME 550 RIG	$ 2.78/MILE ($150.00 MINIMUM)
CME 55 DRILL RIG AND TWO MAN CREW	$180.00 PER HOUR
CME 75 DRILL RIG AND TWO MAN CREW	$190.00 PER HOUR
CME 550 DRILL RIG AND TWO MAN CREW	$190.00 PER HOUR
CORE BIT CHARGE	$5.50 PER FOOT
ROCK CORE SET UP	$56.00 PER BORING
DECONTAMINATION EQUIPMENT	$145.00/DAY
GROUT MACHINE	$173.00/DAY
PLUG & BACKFILL BORINGS (UP TO 20 FT. DEPTH)	$11.50/EACH
ALL-TERRAIN DRILL RIG SURCHARGE	$291.00/DAY

	DEPTH			
DRILLING ITEM	**0 TO 20'**	**20' TO 40'**	**40' TO 60'**	**60' TO 100'**
SOIL OVERBURDEN, 4" AUGER	$ 7.50	$ 8.50	$ 9.50	$ 10.60
SOIL OVERBURDEN, 6" HS AUGER	$ 9.20	$ 10.60	$ 11.70	$ 12.70
SOIL OVERBURDEN, 8" HS AUGER	$ 9.50	$ 11.70	$ 13.70	$ 16.00
SOIL OVERBURDEN, 10" HS AUGER	$ 10.60	$ 16.00	-	-
SOIL OVERBURDEN, 12" HS AUGER	$ 12.70	$ 16.00	-	-
ROCK PENETRATION	$ 28.10	$ 31.50	$ 33.70	$ 39.40
NQ CORING	$ 37.00	$ 39.20	$ 44.50	$ 51.00
STANDARD PENETRATION TEST	$ 21.20	$ 26.50	$ 31.80	$ 37.10
3" SHELBY TUBES	$ 26.50	$ 31.80	$ 37.10	$ 42.50

NOTE: A HIGHER PRICE WILL APPLY WHEN THERE IS AN INCREASED RISK OF LOSING OR BREAKING AUGERS OR CORE BARRELS.

ANDEENG-01 MALAUSE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 7/31/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Charles L. Crane Agency Co. 100 N Broadway, Ste 900 Saint Louis, MO 63102	PHONE (A/C, No, Ext): (314) 241-8700	FAX (A/C, No): (314) 444-4970
	E-MAIL ADDRESS:	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : XL Specialty Insurance Company	37885
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

Anderson Engineering, Inc.
Mr. Steven L. Brady
2045 W. Woodland
Springfield, MO 65807

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY						EACH OCCURRENCE	$
	☐ COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
	☐ CLAIMS-MADE ☐ OCCUR						MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$
								$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	☐ ANY AUTO						BODILY INJURY (Per person)	$
	☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ☐ NON-OWNED AUTOS						PROPERTY DAMAGE (PER ACCIDENT)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR						EACH OCCURRENCE	$
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N						☐ WC STATU-TORY LIMITS ☐ OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ (Mandatory in NH)	N/A					E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Professional Liab			DPR9710715	12/27/2013	12/27/2014	Each Claim	2,000,000
A	Professional Liab			DPR9710715	12/27/2013	12/27/2014	annl aggr	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

*For professional liability, policy limit is each claim subject to the annual aggregrate for all claims presented in the policy period. Indemnity & expense payments reduce limits.

REF: City of Joplin CDBG-DR Projects, Work Order AND-DR2-AP-1

CERTIFICATE HOLDER

City of Joplin
Attn: Dan Johnson, PE, Public Works
602 South Main
Joplin, MO 64801

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

W Elliot Benoist

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