

RESOLUTION NO. _____

A RESOLUTION TO ACCEPT THE QUALIFICATIONS FOR ON-CALL MODELING AND FLOODPLAIN ANALYSIS SERVICES FROM URS CORPORATION; AMEC ENVIRONMENTAL AND INFRASTRUCTURE, INC.; HDR ENGINEERING, INC.; CDM SMITH; AND LAMAR DUNN ASSOCIATES, INC. AND TO ENTER INTO FIVE (5), ONE (1) YEAR BLANKET CONTRACTS WITH THESE PROFESSIONAL FIRMS SUBJECT TO ONE (1) YEAR RENEWAL OPTIONS FOR PROFESSIONAL SERVICES ESTIMATED AT SIX HUNDRED FIFTY THOUSAND DOLLARS (\$650,000.00) TOTAL ANNUALLY FOR ALL FIVE (5) PROFESSIONAL FIRMS FOR USE BY ALL DEPARTMENTS.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, it hereby accepts the qualifications for on-call modeling and floodplain analysis services from URS Corporation; AMEC Environmental and Infrastructure, Inc.; HDR Engineering, Inc.; CDM Smith; and Lamar Dunn Associates, Inc. and to enter into five (5), one (1) year blanket contracts with these professional firms subject to one (1) year renewal options for professional services estimated at \$650,000.00 total annually for all five (5) professional firms for use by all departments.

ADOPTED: _____, 2013.

/mms

City of Chattanooga



Resolution Request Form

(This form is only required for resolutions requiring expenditure of City funds)

Date: November 1, 2013

Preparer: William C. Payne

Department: Public Works - Engineering

Brief Description of Purpose for Resolution:

Resolution Number (if approved by Council):

A resolution to accept the qualifications for on-call modeling and floodplain analysis services from URS Corporation; AMEC Environmental and Infrastructure, Inc.; HDR Engineering, Inc.; CDM Smith; and Lamar Dunn Associates, Inc. and to enter into five (5), one (1) year blanket contracts with these professional firms subject to one (1) year renewal options for professional services estimated at \$650,000.00 total annually for all five (5) professional firms for use by all departments. (Public Works)

Name of Vendor/Contractor/Grant, etc.	Varies	New Contract/Project? (Yes or No)	Yes
Total project cost \$	650,000.00	Funds Budgeted? (YES or NO)	Yes
Total City of Chattanooga Portion \$	650,000.00	Provide Fund	6031
City Amount Funded \$	650,000.00	Provide Cost Center	varies
New City Funding Required \$	N/A	Proposed Funding Source if not budgeted	
City's Match Percentage %	N/A	Grant Period (if applicable)	

List all other funding sources and amount for each contributor.

Amount(s)	Grantor(s)
\$	

Agency Grant Number

CFDA Number if known

Other comments: (Include contingency amount, contractor, and other information useful in preparing resolution)

Water Quality Capital Budget

Approved by:

Reviewed by: FINANCE OFFICE

DESIGNATED OFFICIAL/ADMINISTRATOR

Please submit completed form to @budget, City Attorney and City Finance Officer



CITY OF CHATTANOOGA
STANDARD AGREEMENT FOR ENGINEERING SERVICES

SOP 2003-9
Date of Issue 10-16-03
Rev. 03-03-11

THIS AGREEMENT, is between the City of Chattanooga, Tennessee, a municipal corporation in the state of Tennessee, hereinafter called Owner, and

URS Corporation

hereinafter called Engineer.

The Owner wishes to employ the Engineer to perform professional engineering services for

On-Call Modeling & Floodplain Analysis Services hereinafter called Project.

In consideration of the provisions contained in this Agreement, the Owner and Engineer agree to the following:

1. **EFFECTIVE DATE**
The effective date of this Agreement shall be _____, 2013.
2. **GOVERNING LAW**
This Agreement shall be governed by the laws of the State of Tennessee and the codes of the City of Chattanooga.
3. **SERVICES TO BE PERFORMED BY ENGINEER**
Engineer shall perform the Services described in Attachment A, Scope of Services, in accordance with applicable sections of the City of Chattanooga Design and Construction Standards in effect on the date of this agreement.
4. **COMPENSATION**
Owner shall pay Engineer in accordance with the Attachment B, Compensation.
5. **OWNER'S RESPONSIBILITIES**
Owner shall be responsible for all matters described in Attachment C, Owner's Responsibilities.
6. **SUPPLEMENTAL AGREEMENTS**
The provisions set forth in Attachment D, Supplemental Agreements, shall be incorporated into this Agreement
7. **PROJECT SCHEDULE**
The provisions set forth in the Attachment E, Project Schedule, shall be incorporated into this Agreement.
8. **RATE SCHEDULE**
The Engineer shall provide a schedule of standard hourly rates for all employees to be used in the performance of all contracts with a cost-not-to-exceed basis. This schedule shall be incorporated into the agreement as Attachment F.
9. **INVOICING**
The Engineer will use the format established in Attachment G, Standard Invoice, for all invoices submitted for services on the Project.



10. STANDARD OF CARE

Engineer shall exercise the same degree of care, skill, and diligence in the performance of Services as is ordinarily possessed and exercised by a professional engineer under similar circumstances in the same area of practice. Engineer makes no warranty or guarantee, either expressed or implied, as part of this agreement.

11. INDEMNIFICATION

Engineer hereby agrees to fully indemnify and hold harmless Owner and any of its departments, divisions, agencies, officers, employees and elected officials from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Owner and any of its officers, employees or elected officials arising out of Engineer's actual negligent performance of Services under this Agreement, including errors or omissions.

Owner hereby agrees to fully indemnify and hold harmless Engineer and any of its officers, employees, or designated agents from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Engineer and any of its officers, employees or designated agents arising out of Owner's negligence to the extent provided by the Tennessee Governmental Tort Liability Act, T.C.A. 29-20-201 et seq.

12. INSURANCE

Engineer shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure him against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverages as follows:

- a. Commercial General Liability Insurance, with a limit of \$1,000,000 for each occurrence and \$2,000,000 in the general aggregate.
- b. Automobile Liability Insurance, with a limit of \$1,000,000 for each accident, combined single limit for bodily injury and property damage.
- c. Worker's Compensation Insurance and Employer's Liability Insurance, in accordance with statutory requirements, with a limit of \$500,000 for each accident.
- d. Professional Liability Insurance, with a limit of \$1,000,000 for each claim and aggregate.

Prior to issuance of the Notice to Proceed by Owner, Engineer shall have on file with Owner certificates of insurance acceptable to Owner. Said certificates of insurance shall be filed with Owner in January of each year or may be submitted with each agreement. Upon completion of all Services, obligations, and duties provided for in this Agreement, or if this Agreement is terminated for any reason, the terms and conditions of this section shall survive.

Notwithstanding any other provision of the Agreement, Owner waives any claim against Engineer and, to the maximum extent permitted by law, agrees to defend, indemnify, and hold Engineer harmless from any claim, liability, and/or defense costs for injury or loss arising from Engineer's discovery of unanticipated hazardous materials or suspected hazardous materials, including, but not limited to, any costs created by delay of the project and any cost associated with possible reduction of the property value.

13. LIMITATIONS OF RESPONSIBILITY

Engineer shall not be responsible for: (1) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project, (2) the failure of any contractor, subcontractor, vendor, or other Project participant, not under contract to Engineer,



to fulfill contractual responsibilities to the Owner or to comply with federal, state or local laws, regulations, and codes; or (3) procuring permits, certificates, and licenses required for any construction unless such responsibilities are specifically assigned to Engineer in Attachment A, Scope of Services.

14. OPINIONS OF COST AND SCHEDULE

Since Engineer has no control over the cost of labor, materials, or equipment furnished by others, or over the resources provided by others to meet Project construction schedules, Engineer's opinion of probable construction costs and of construction schedules shall be made on the basis of experience and qualifications as a professional engineer. Engineer does not guarantee that costs will not vary from Engineer's cost estimates or that actual construction schedules will not vary from Engineer's projected schedules.

15. REUSE OF DOCUMENTS

All documents, including, but not limited to calculations, drawings, specifications, and computer software prepared by Engineer pursuant to the Agreement are instruments of service in respect to the Project. They are not intended or represented to be suitable for reuse by Owner or others on extensions of the Project or on any other project. Any reuse without prior written verification or adaptation by Engineer for the specific purpose intended will be at Owner's sole risk and without liability or legal exposure to Engineer. Any verification or adaptation requested by Owner shall entitle Engineer to compensation at rates to be agreed upon by Owner and Engineer.

16. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

Except as otherwise provided herein, engineering documents, calculations, drawings, specifications, and other documents prepared by Engineer as part of the Services shall become and be the sole property of Owner. However, both Owner and Engineer shall have the unrestricted right to their use. Engineer shall retain its rights in its standard drawing details, specifications, databases, computer software, and other proprietary property protected under the copyright laws of the United States. Rights to intellectual property developed, utilized, or modified in the performance of services shall remain the property of Engineer.

17. RECORDS RETENTION AND AUDIT PROVISION

The term "Engineer" is used interchangeably to describe signatories to contracts, grants, and agreements with the City and applies to reflect the relationship with the City (Engineer, Contractor, Licensee, Supplier, Vendor, Consultant, Grant Recipient, etc.).

- a. All records relating in any manner whatsoever to the Project, or any designated portion thereof, which are in the possession of the Engineer or the Engineer's consultants, shall be made available for inspection and copying upon written request to the Owner. Additionally, said records shall be made available, upon request by the Owner, to any state, federal or other regulatory authorities and any such authority may review, inspect and copy such records. Said records include, but are not limited to, all plans, specifications, submittals, correspondence, minutes, memoranda, tape recordings, videos, or other writings or things which document the Project, its design and its construction. Said records expressly include those documents reflecting the time expended by the Engineer and its personnel to perform the obligations of this Agreement and the records of expenses incurred by the Engineer in its performance under said Agreement. The Engineer shall maintain and protect these records for no less than seven (7) years after the completion of the Project, or for any longer period of time as may be required by applicable law, good engineering practice, and upon notice during the pendency of any claims or litigation arising from the Project.



- b. The Owner or its assign may audit all financial and related records (including digital) associated with the terms of the contract or agreement including timesheets, reimbursable out of pocket expenses, materials, goods, and equipment claimed by the Engineer. The Owner may further audit any of Engineer's records to conduct performance audits (to identify waste and abuse or to determine efficiency and effectiveness of the contract or agreement) or to identify conflicts of interest.
- c. The Engineer shall at all times during the term of the contract or agreement and for a period of seven years after the end of the contract, keep and maintain records of the work performed pursuant to this Contract or Agreement. This shall include proper records of quotations, contracts, correspondence, invoices, vouchers, timesheets, and other documents that support actions taken by the Engineer. Documents shall be maintained by the Engineer, which are necessary to clearly reflect all work and actions taken. All such records shall be maintained in accordance with generally accepted accounting principles. The Engineer shall at its own expense make such records available for inspection and audit (including copies and extracts of records as required) by the Owner at all reasonable times and without prior notice.
- d. The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the Engineer and any subcontractors or suppliers of goods or services to the extent that those subcontracts or agreements relate to fulfillment of the Engineer's obligations to the Owner.
- e. Costs of any audits conducted under the authority of this section and not addressed elsewhere will be borne by the Owner unless the audit identifies significant findings that would benefit the Owner. The Engineer shall reimburse the Owner for the total costs of an audit that identifies significant findings that would benefit the Owner.
- f. This Section shall not be construed to limit, revoke, or abridge any other rights, powers, or obligations relating to audit which the Owner may have by Federal, State, or Municipal law, whether those rights, powers, or obligations are express or implied.

18. TERMINATION

This Agreement may be terminated by either party upon written notice in the event of substantial failure by the other party to perform in accordance with the terms of this Agreement. The nonperforming party shall have fifteen calendar days from the date of the termination notice to cure or to submit a plan for cure acceptable to the other party. Owner may terminate or suspend performance of this Agreement for Owner's convenience upon written notice to Engineer. If termination or suspension is for Owner's convenience, Owner shall pay Engineer for all Services performed prior to the date of the termination notice. Upon restart, an adjustment acceptable to Owner and Engineer shall be made to Engineer's compensation.

19. DELAY IN PERFORMANCE

Neither Owner nor Engineer shall be considered in default of the Agreement for delays in performance caused by circumstances beyond the reasonable control of the nonconforming party. For purposes of this Agreement, such circumstances include abnormal weather conditions; floods; earthquakes; fire; epidemics; war, riots, or other civil disturbances; sabotage; judicial restraint; discovery of unanticipated hazardous wastes; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either Owner or Engineer under this Agreement. Should such circumstances occur, the nonconforming party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of the



Agreement. If the Engineer is delayed in the performance of the services for more than 365 calendar days, either by the Owner or circumstances beyond his control, an equitable adjustment to the contract amount can be made to compensate for additional costs incurred.

For delays in performance by Engineer, as set forth in Attachment E, Project Schedule, caused by circumstances which are within its control, such delays shall be documented on the Engineer's Project Performance Evaluation form. Said form shall be completed at the conclusion of Project and acknowledged by both Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. In the event Engineer is delayed in the performance of Services because of delays caused by Owner, Engineer shall have no claim against Owner for damages or contract adjustment other than an extension of time.

20. HAZARDOUS MATERIALS

Hazardous materials may exist at a site where there is no reason to believe they could or should be present. The Owner and Engineer agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. Owner and Engineer also agree that the discovery of unanticipated hazardous materials may make it necessary for the Engineer to take immediate measures to protect health and safety. Owner agrees to compensate Engineer for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials.

Engineer agrees to notify Owner when unanticipated hazardous materials or suspected hazardous materials are encountered. Owner agrees to make any disclosures required by law to the appropriate governing agencies, and agrees to hold Engineer harmless for any and all consequences of disclosures made by Engineer which are required by governing law. In the event the project site is not owned by Owner, the Owner agrees to inform the property owner of the discovery of unanticipated hazardous materials or suspected hazardous materials.

21. COMMUNICATIONS

Any communication required by this Agreement shall be made in writing to the address specified below:

Engineer: URS Corporation
Attention: John Ricketts
1428 Chestnut Street, Suite A
Chattanooga, TN 37402
Phone: 423.648.8067
Email: john.ricketts@urs.com

Owner: City of Chattanooga
Department of Public Works
Engineering Division
Suite 2100, Development Resource Center
1250 Market Street
Chattanooga, TN 37402
(423) 643-6033

Nothing contained in the Article shall be construed to restrict the transmission of routine communications between representatives of Engineer and Owner.



22. WAIVER

A waiver by either Owner or Engineer of any breach of this Agreement shall be in writing. Such a waiver shall not affect the waiving party's rights with respect to any other or further breach.

23. DISPUTE RESOLUTION

Claims, disputes or other matters in question between the parties to this Agreement arising out of or relating to this Agreement or breach thereof shall be subject to mediation in Chattanooga, Tennessee, in accordance with the following provisions:

- a. The mediation shall be conducted by a mediator mutually acceptable to both parties.
- b. The parties agree to share equally in the expenses of mediations.
- c. Such mediation may include the Engineer or any other person or entity that may be affected by the subject matter of the dispute.
- d. Unless the parties agree otherwise, mediation shall be a condition precedent to the exercise of any legal remedy other than a proceeding seeking an immediate injunction or restraining order to protect the rights of a party pending litigation. Notwithstanding the issuance of an injunction or restraining order or the refusal of a court to issue such an order, the dispute shall continue to be subject to mediation.

24. SEVERABILITY

The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement. Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion or provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

25. INTEGRATION

This Agreement represents the entire and integrated agreement between Owner and Engineer. All prior and contemporaneous communications, representations, and agreements by Engineer, whether oral or written, relating to the subject matter of this Agreement, as set forth in Attachment D, Supplemental Agreements, are hereby incorporated into and shall become a part of this Agreement.

26. SUCCESSORS AND ASSIGNS

Owner and Engineer each binds itself and its directors, officers, partners, successors, executors, administrators, assigns, and legal representatives to the other party of this Agreement and to the directors, officers, partners, successors, executors, administrators, assigns, and legal representatives of such other party in respect to all provisions of this Agreement.

27. ASSIGNMENT

Neither Owner nor Engineer shall assign any rights or duties under this Agreement without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement. Nothing contained in this Article shall prevent Engineer from employing independent



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consultants, associates, and subcontractors to assist in the performance of the Services; however, other agreements to the contrary notwithstanding, in the event Engineer employs independent consultants, associates, and subcontractors to assist in performance of the Services, Engineer shall be solely responsible for the negligent performance of the independent consultants, associates, and subcontractors so employed.

28. **THIRD PARTY RIGHTS**

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than Owner and Engineer.

29. **RELATIONSHIP OF PARTIES**

Nothing contained herein shall be construed to hold or to make the Owner a partner, joint venturer, or associate of Engineer, nor shall either party be deemed the agent of the other, it being expressly understood and agreed that the relationship between the parties is and shall at all times remain contractual as provided by the terms and conditions of this Agreement.

30. **NON-DISCLOSURE**

Engineer agrees not to disclose or to permit disclosure of any information designated by the Owner as confidential, except to the engineer's employees and subcontractors who require such information to perform the services specified in this agreement.

31. **NON-DISCRIMINATION**

Engineer agrees to comply with all federal, state, and local non-discrimination laws and regulations. Engineer agrees not to discriminate against any participant in this Agreement on the basis of race, color, religion, sex, age or national origin. Engineer further agrees to comply with all federal, state and local laws regarding treatment and accommodations for individuals with disabilities.

32. **DRUG FREE WORKFORCE**

Engineer certifies that it will provide a drug-free workplace and agrees to comply with the applicable requirements of the Drug-Free Workplace Act of 1988.

33. **FEDERAL OR STATE FUNDING**

In the event that the Project is funded in whole or in part by Federal or State grants, Engineer agrees to abide by all applicable Federal and State laws, regulations, grant conditions and procedures.

IN WITNESS WHEREOF, Owner and Engineer have executed this Agreement.

 Douglas E. Tennant 10-8-13
 URS Corporation Vice President Date Administrator of Public Works Date

 Date Director of Purchasing Date

Reviewed by City Attorney Office _____



Initial _____ Date _____
ATTACHMENT A

Owner: City of Chattanooga, Tennessee

Engineer: **URS Corporation**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SCOPE OF SERVICES

1. BASIC SERVICES

The project is specifically defined below:

The purpose of this Project is for the Engineer to assist the Owner in its mission to safeguard the lives, property, and livelihoods of its citizens by performing needed engineering services, on an on-call basis. The Engineer is one of several qualified and experienced professional firms selected by the Owner through a Statement of Qualifications process.

The basic scope of services to be provided by the Engineer to the Owner will include the services described below and as described in each Work Order as authorized by the Owner. Actual services to be provided for each project will be detailed in a fully executed Work Order. Each Work Order will indicate the specific tasks and functions to be performed and deliverables to be provided.

This Agreement is not a commitment by the Owner to the Engineer to issue any Work Orders. The Engineer is not guaranteed any minimum number of Work Orders or a percentage of Work Orders issues by the Owner.

The Engineer shall not be obligated to perform any prospective Work Order unless and until the Owner and the Engineer agree as to the particulars of the specific project, Engineer's services, Engineer's compensation, and all other appropriate matters.

The Engineer agrees to provide the following services:

- a. Tier 1 Tasks – Data Acquisition
 - i. Identify or establish temporary bench marks
 - ii. Obtain the physical dimensions of hydraulic and/or flood-control structures
 - iii. Field survey and/or reconnaissance investigations of sites, properties, transportation, or drainage features
 - iv. Review or processing of topographic data collected by various means
 - v. Collection of stormwater infrastructure data
 - vi. Development of digital elevation models and three-dimensional channel cross-sections
 - vii. Analysis and synthesis of digital ortho-photography
- b. Tier 2 Tasks – Investigations, Analysis, & Evaluations
 - i. Hydrologic watershed modeling, including calculation of peak flood discharges for the varying percentage annual chance storm events under current and planned development scenarios
 - ii. Hydraulic modeling of stream channels to evaluate the impact of peak flows, friction, as well as natural and man-made constrictions on peak flood elevations
 - iii. Calibration of flood modeling to existing data from stream gages, historical and recent rainfall data, and other sources
 - iv. Evaluation of the impact of floodplain encroachments on peak flood elevations
 - v. Delineation of FEMA flood zones and base flood elevations.
 - vi. Creation of digital floodway data tables and revision of Flood Insurance Studies



- vii. Revision of DFIRM maps
- viii. Methodology and computer programs used must receive prior Owner approval
- ix. Use of FEMA approved checking programs to verify reasonableness of hydraulic analysis
 - x. Creation of mapping products for the purpose of emergency management and planning
 - xi. Development of data sharing websites
 - xii. Development and/or improvement of real-time modeling software
 - xiii. Investigation of drainage problems
- c. Tier 3 Tasks – Program Management, Reporting, & Outreach
 - i. Management of flood related projects
 - ii. Preparation of CLOMR and LOMR packages for submittal to FEMA
 - iii. Attendance at staff and community meetings
 - iv. Preparation of public notices and notices of increased base flood elevations
 - v. Creation of reports proposing appropriate proactive and/or reactive strategies for maintaining public infrastructure for short term and/or sustained scenarios to ensure delivery of essential emergency services and/or reduction of flood elevations
 - vi. Development of reports summarizing methodology, field practices and results
 - vii. Assistance incorporating collected data into City's GIS system: integration, data management, conversion, staff training
 - viii. Reporting of any found illicit connections in a timely manner
 - ix. Providing engineering advice and/or consultation
 - x. Development and execution of flood-related exercises or trainings
 - xi. Assistance with the development of engineering plans and specifications for capital improvement projects
 - xii. Liaison and/or coordination with partnering agencies
 - xiii. Property and/or infrastructure damage assessments

2. SUPPLEMENTAL SERVICES

Any work requested by the Owner that is not included in the Basic Services will be classified as Supplemental Services. Supplemental Services shall include, but are not limited to the following:

- a. Coordination meetings, workshops, or presentations beyond those included in the basic services
- b. Civil, Agricultural, or Water Resources Engineering Services
- c. Assistance with disaster management and recovery
- d. Assistance with hazard mitigation planning
- e. Expert witness testimony and/or relative services in connection with litigation
- f. Environmental, ecological, or biological services
- g. Geotechnical or geology services
- h. GIS or CAD services

3. REIMBURSABLE EXPENSES

Project specific reimbursable expenses and charges shall include the following:

- a. Direct labor charges, in accordance with the hourly employee bill rates described in Attachment F
 - a. For overtime, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.
 - b. For expert witness testimony and related services in connection with litigation, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.



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- b. Subcontractor expenses, billed at cost + 15%.

ATTACHMENT B

Owner: City of Chattanooga, Tennessee

Engineer: **URS Corporation**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

COMPENSATION

For the services covered by this Agreement, the Owner agrees to pay the Engineer as follows:

1. For the Basic Services described in Attachment A, payments shall be made monthly in amounts which are consistent with the amount of engineering services provided, as determined by the Engineer, and in accordance with the Work Order, agreed-upon between the Owner and the Engineer.
2. Compensation for Supplemental Services shall be made on a lump sum basis, when authorized in writing by the Owner. The maximum limit for each item of additional service shall be established individually and specifically agreed to by the Owner and the Engineer in the Work Order.
3. Hourly rates for each classification are defined by the Engineer's rate schedule, in Attachment F. Overtime, when authorized by the Owner and agreed-upon by the Owner and the Engineer at the time of execution of the Work Order, shall be billed at 1.5 times the rates listed in Attachment F. Expert witness testimony and other services relating to litigation will also be billed at 1.5 times the rates listed in Attachment F.
4. Reimbursable charges for Basic Services will be limited to Subcontractor expenses, and will be considered for the amount of actual costs times a markup of 15%. Reimbursable charges for Supplemental Services will be agreed-upon between the Engineer and the Owner in the Work Order, as a part of the lump sum fee.
5. The entire amount of each statement shall be due and payable 30 days after receipt by the Owner.
6. The engineer shall keep records on the basis of generally accepted accounting practices of costs and expenses which records shall be available for inspection at all reasonable times.
7. Invoices shall be submitted using the Standard Invoice form, Attachment G.



ATTACHMENT C

Owner: City of Chattanooga, Tennessee

Engineer: **URS Corporation**

Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

OWNER'S RESPONSIBILITIES

The Owner will furnish, as required by the work and not at the expense of the Engineer, the following:

1. Owner will provide electronic copies of all codes, policies, standards, and ordinances as may be needed.
2. Examine all plans, reports, memorandums, inquiries, and other documents submitted by the Engineer and render decisions promptly to prevent delay to the Engineer.
3. Designate one City of Chattanooga employee as the Owner representative with respect to all services to be rendered under this agreement. This individual shall have the authority to transmit instructions, receive information and to interpret and define the Owner's policies and decisions pertinent to the Engineer's services.
4. Issue Notice(s) to proceed to the Engineer for each phase of the services.
5. Owner will grant or obtain free access to City facilities for all equipment and personnel necessary for the Engineer to perform the work set forth in this Agreement.
6. Owner will lead inter-department coordination for the project and provide timely consolidated reviews and transmittals of project deliverables.
7. City Attorney will review policy recommendations for amendments to the city code.
8. Owner will make all arrangements to host and facilitate steering, advisory and stakeholders meetings and provide meeting notes.
9. Owner will develop, deploy, and maintain a website and/or other means to inform all interested parties including the general public of the project activities and work products.
10. Owner will provide to Engineer, the most updated GIS data for use in flood studies and other engineering.



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ATTACHMENT D

Owner: City of Chattanooga, Tennessee

Engineer: **URS Corporation**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SUPPLEMENTAL AGREEMENTS

Owner and Engineer agree that the following communications, representations, and agreements by Engineer relating to the subject matter of the Agreement are hereby incorporated into and shall become a part of the Agreement.

NONE



ATTACHMENT E

Owner: City of Chattanooga, Tennessee

Engineer: **URS Corporation**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

PROJECT SCHEDULE

Owner and Engineer recognize that time is of the essence of each Work Order and that Owner will suffer financial loss if the work is not completed within the times stipulated therein, plus any extensions granted by the Owner. Accordingly, Engineer will have established time intervals, in calendar days, for submittals at various states of the Work Order, as described in each Work Order, and agreed-upon by the Engineer and Owner. As each actual submittal date occurs, Engineer shall meet with Owner (in-person or teleconference) to discuss the progress of the work and the actual submittal date shall be documented. If Work Order is behind schedule, the reason shall be recorded. Engineer shall not be responsible for the time required by the Owner's representative to review Engineer's submittal. When review is complete, Owner shall, in writing, authorize Engineer to proceed to the next submittal date. After final submittal date, Engineer and Owner shall meet to evaluate Engineer's performance with regard to the Work Order schedule. An Engineer's Project Performance Evaluation form shall be completed and acknowledged by both the Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. Past performance shall be accounted for on the evaluation sheet used to rank consultants during the interview process.

It is understood and agreed that the Engineer shall start the performance of Basic or Supplemental Services as described in each Work Order within 10 days of receipt of a written Notice to Proceed and shall complete the work in accordance with the Work Order times set forth therein.



ATTACHMENT F

Owner: City of Chattanooga, Tennessee

Engineer: **URS Corporation**
 Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

RATE SCHEDULE

Project Management

Principal in Charge.....	\$235.00/hr
Project Manager	\$165.00/hr
Associate Project Manager.....	\$125.00/hr
Project Administrator.....	\$60.00/hr

Engineer (Agricultural, Civil, Environmental, Geotechnical, Water Resources)

Senior Technical Advisor.....	\$185.00/hr
Quality Assurance/Quality Control.....	\$170.00/hr
Senior Engineer.....	\$140.00/hr
Technical Task Lead.....	\$125.00/hr
Project Engineer.....	\$105.00/hr
Design Engineer.....	\$95.00/hr
Engineer Intern.....	\$85.00/hr
Engineer Graduate.....	\$70.00/hr
Senior CADD Technician.....	\$80.00/hr
CADD Technician.....	\$60.00/hr
Senior Environmental Scientist.....	\$130.00/hr
Environmental Scientist.....	\$100.00/hr
Field Technician/Scientist.....	\$70.00/hr
GIS Specialist.....	\$105.00/hr
GIS Analyst.....	\$85.00/hr
GIS Tech.....	\$75.00/hr
Field Project Engineer.....	\$105.00/hr
Resident Project Representative.....	\$85.00/hr



ATTACHMENT G

STANDARD INVOICE

Indicates MANDATORY Item

CONSULTANT LETTERHEAD

INVOICE

ATTN: City Project Manager
REF: **Provided by City**
CODE: Consultant Project Number
PO: **Must be Sequential Number**

TERMS: Net 25 days
DUE: 08/01/03

Invoice Must show Billing Period.

This Breakdown must list each item of the Contract.

Consultant Project No.	Description	Fee	Fee Basis	Percent Work to Date	Amount Billed	Previous Billed	This Invoice Billed
C03009-01	01 - Design	\$51,500.00	LS	55%	\$26,325.00	\$16,540.00	\$9,785.00
	02 - Survey	\$15,700.00	LS	0%	\$0.00	\$0.00	\$0.00
C03009-02	Barton Avenue and Brown Acres Golf Course Design	\$20,000.00	CP	12%	\$2,391.02	\$2,033.00	\$358.02
C03009-03	Permitting/Easement Assistance	\$5,000.00	CP	6%	\$291.06	\$0.00	\$291.06
C03009-04	Bidding/Construction Assistance	\$10,000.00	CP	0%	\$0.00	\$0.00	\$0.00
C03009-05	Misc. As-Requested Services	\$5,000.00	CP	7%	\$363.85	\$0.00	\$363.85
	Total Contract Amount	<input type="text" value="\$107,200.00"/>			\$31,370.95	\$20,573.00	
	TOTAL THIS INVOICE						<input type="text" value="\$10,797.95"/> Must Match Contract Amount

Prior invoices	\$20,573.00
This invoice	\$10,797.95
Payments	-\$20,573.00
Balance on Account	\$10,797.95

NOTE:

- There shall be only one invoice per contract per billing period
- Any necessary details should be attached as backup.



CITY OF CHATTANOOGA
STANDARD AGREEMENT FOR ENGINEERING SERVICES

SOP 2003-9
Date of Issue 10-16-03
Rev. 03-03-11

THIS AGREEMENT, is between the City of Chattanooga, Tennessee, a municipal corporation in the state of Tennessee, hereinafter called Owner, and

AMEC Environment & Infrastructure, Inc.

hereinafter called Engineer.

The Owner wishes to employ the Engineer to perform professional engineering services for

On-Call Modeling & Floodplain Analysis Services hereinafter called Project.

In consideration of the provisions contained in this Agreement, the Owner and Engineer agree to the following:

1. **EFFECTIVE DATE**

The effective date of this Agreement shall be _____, 2013.

2. **GOVERNING LAW**

This Agreement shall be governed by the laws of the State of Tennessee and the codes of the City of Chattanooga.

3. **SERVICES TO BE PERFORMED BY ENGINEER**

Engineer shall perform the Services described in Attachment A, Scope of Services, in accordance with applicable sections of the City of Chattanooga Design and Construction Standards in effect on the date of this agreement.

4. **COMPENSATION**

Owner shall pay Engineer in accordance with the Attachment B, Compensation.

5. **OWNER'S RESPONSIBILITIES**

Owner shall be responsible for all matters described in Attachment C, Owner's Responsibilities.

6. **SUPPLEMENTAL AGREEMENTS**

The provisions set forth in Attachment D, Supplemental Agreements, shall be incorporated into this Agreement

7. **PROJECT SCHEDULE**

The provisions set forth in the Attachment E, Project Schedule, shall be incorporated into this Agreement.

8. **RATE SCHEDULE**

The Engineer shall provide a schedule of standard hourly rates for all employees to be used in the performance of all contracts with a cost-not-to-exceed basis. This schedule shall be incorporated into the agreement as Attachment F.

9. **INVOICING**

The Engineer will use the format established in Attachment G, Standard Invoice, for all invoices submitted for services on the Project.



10. STANDARD OF CARE

Engineer shall exercise the same degree of care, skill, and diligence in the performance of Services as is ordinarily possessed and exercised by a professional engineer under similar circumstances in the same area of practice. Engineer makes no warranty or guarantee, either expressed or implied, as part of this agreement.

11. INDEMNIFICATION

Engineer hereby agrees to fully indemnify and hold harmless Owner and any of its departments, divisions, agencies, officers, employees and elected officials from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Owner and any of its officers, employees or elected officials arising out of Engineer's actual negligent performance of Services under this Agreement, including errors or omissions.

Owner hereby agrees to fully indemnify and hold harmless Engineer and any of its officers, employees, or designated agents from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Engineer and any of its officers, employees or designated agents arising out of Owner's negligence to the extent provided by the Tennessee Governmental Tort Liability Act, T.C.A. 29-20-201 et seq.

12. INSURANCE

Engineer shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure him against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverages as follows:

- a. Commercial General Liability Insurance, with a limit of \$1,000,000 for each occurrence and \$2,000,000 in the general aggregate.
- b. Automobile Liability Insurance, with a limit of \$1,000,000 for each accident, combined single limit for bodily injury and property damage.
- c. Worker's Compensation Insurance and Employer's Liability Insurance, in accordance with statutory requirements, with a limit of \$500,000 for each accident.
- d. Professional Liability Insurance, with a limit of \$1,000,000 for each claim and aggregate.

Prior to issuance of the Notice to Proceed by Owner, Engineer shall have on file with Owner certificates of insurance acceptable to Owner. Said certificates of insurance shall be filed with Owner in January of each year or may be submitted with each agreement. Upon completion of all Services, obligations, and duties provided for in this Agreement, or if this Agreement is terminated for any reason, the terms and conditions of this section shall survive.

Notwithstanding any other provision of the Agreement, Owner waives any claim against Engineer and, to the maximum extent permitted by law, agrees to defend, indemnify, and hold Engineer harmless from any claim, liability, and/or defense costs for injury or loss arising from Engineer's discovery of unanticipated hazardous materials or suspected hazardous materials, including, but not limited to, any costs created by delay of the project and any cost associated with possible reduction of the property value.

13. LIMITATIONS OF RESPONSIBILITY

Engineer shall not be responsible for: (1) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project, (2) the failure of any contractor, subcontractor, vendor, or other Project participant, not under contract to Engineer,



to fulfill contractual responsibilities to the Owner or to comply with federal, state or local laws, regulations, and codes; or (3) procuring permits, certificates, and licenses required for any construction unless such responsibilities are specifically assigned to Engineer in Attachment A, Scope of Services.

14. OPINIONS OF COST AND SCHEDULE

Since Engineer has no control over the cost of labor, materials, or equipment furnished by others, or over the resources provided by others to meet Project construction schedules, Engineer's opinion of probable construction costs and of construction schedules shall be made on the basis of experience and qualifications as a professional engineer. Engineer does not guarantee that costs will not vary from Engineer's cost estimates or that actual construction schedules will not vary from Engineer's projected schedules.

15. REUSE OF DOCUMENTS

All documents, including, but not limited to calculations, drawings, specifications, and computer software prepared by Engineer pursuant to the Agreement are instruments of service in respect to the Project. They are not intended or represented to be suitable for reuse by Owner or others on extensions of the Project or on any other project. Any reuse without prior written verification or adaptation by Engineer for the specific purpose intended will be at Owner's sole risk and without liability or legal exposure to Engineer. Any verification or adaptation requested by Owner shall entitle Engineer to compensation at rates to be agreed upon by Owner and Engineer.

16. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

Except as otherwise provided herein, engineering documents, calculations, drawings, specifications, and other documents prepared by Engineer as part of the Services shall become and be the sole property of Owner. However, both Owner and Engineer shall have the unrestricted right to their use. Engineer shall retain its rights in its standard drawing details, specifications, databases, computer software, and other proprietary property protected under the copyright laws of the United States. Rights to intellectual property developed, utilized, or modified in the performance of services shall remain the property of Engineer.

17. RECORDS RETENTION AND AUDIT PROVISION

The term "Engineer" is used interchangeably to describe signatories to contracts, grants, and agreements with the City and applies to reflect the relationship with the City (Engineer, Contractor, Licensee, Supplier, Vendor, Consultant, Grant Recipient, etc.).

- a. All records relating in any manner whatsoever to the Project, or any designated portion thereof, which are in the possession of the Engineer or the Engineer's consultants, shall be made available for inspection and copying upon written request to the Owner. Additionally, said records shall be made available, upon request by the Owner, to any state, federal or other regulatory authorities and any such authority may review, inspect and copy such records. Said records include, but are not limited to, all plans, specifications, submittals, correspondence, minutes, memoranda, tape recordings, videos, or other writings or things which document the Project, its design and its construction. Said records expressly include those documents reflecting the time expended by the Engineer and its personnel to perform the obligations of this Agreement and the records of expenses incurred by the Engineer in its performance under said Agreement. The Engineer shall maintain and protect these records for no less than seven (7) years after the completion of the Project, or for any longer period of time as may be required by applicable law, good engineering practice, and upon notice during the pendency of any claims or litigation arising from the Project.



- b. The Owner or its assign may audit all financial and related records (including digital) associated with the terms of the contract or agreement including timesheets, reimbursable out of pocket expenses, materials, goods, and equipment claimed by the Engineer. The Owner may further audit any of Engineer's records to conduct performance audits (to identify waste and abuse or to determine efficiency and effectiveness of the contract or agreement) or to identify conflicts of interest.
- c. The Engineer shall at all times during the term of the contract or agreement and for a period of seven years after the end of the contract, keep and maintain records of the work performed pursuant to this Contract or Agreement. This shall include proper records of quotations, contracts, correspondence, invoices, vouchers, timesheets, and other documents that support actions taken by the Engineer. Documents shall be maintained by the Engineer, which are necessary to clearly reflect all work and actions taken. All such records shall be maintained in accordance with generally accepted accounting principles. The Engineer shall at its own expense make such records available for inspection and audit (including copies and extracts of records as required) by the Owner at all reasonable times and without prior notice.
- d. The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the Engineer and any subcontractors or suppliers of goods or services to the extent that those subcontracts or agreements relate to fulfillment of the Engineer's obligations to the Owner.
- e. Costs of any audits conducted under the authority of this section and not addressed elsewhere will be borne by the Owner unless the audit identifies significant findings that would benefit the Owner. The Engineer shall reimburse the Owner for the total costs of an audit that identifies significant findings that would benefit the Owner.
- f. This Section shall not be construed to limit, revoke, or abridge any other rights, powers, or obligations relating to audit which the Owner may have by Federal, State, or Municipal law, whether those rights, powers, or obligations are express or implied.

18. TERMINATION

This Agreement may be terminated by either party upon written notice in the event of substantial failure by the other party to perform in accordance with the terms of this Agreement. The nonperforming party shall have fifteen calendar days from the date of the termination notice to cure or to submit a plan for cure acceptable to the other party. Owner may terminate or suspend performance of this Agreement for Owner's convenience upon written notice to Engineer. If termination or suspension is for Owner's convenience, Owner shall pay Engineer for all Services performed prior to the date of the termination notice. Upon restart, an adjustment acceptable to Owner and Engineer shall be made to Engineer's compensation.

19. DELAY IN PERFORMANCE

Neither Owner nor Engineer shall be considered in default of the Agreement for delays in performance caused by circumstances beyond the reasonable control of the nonconforming party. For purposes of this Agreement, such circumstances include abnormal weather conditions; floods; earthquakes; fire; epidemics; war, riots, or other civil disturbances; sabotage; judicial restraint; discovery of unanticipated hazardous wastes; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either Owner or Engineer under this Agreement. Should such circumstances occur, the nonconforming party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of the



Agreement. If the Engineer is delayed in the performance of the services for more than 365 calendar days, either by the Owner or circumstances beyond his control, an equitable adjustment to the contract amount can be made to compensate for additional costs incurred.

For delays in performance by Engineer, as set forth in Attachment E, Project Schedule, caused by circumstances which are within its control, such delays shall be documented on the Engineer's Project Performance Evaluation form. Said form shall be completed at the conclusion of Project and acknowledged by both Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. In the event Engineer is delayed in the performance of Services because of delays caused by Owner, Engineer shall have no claim against Owner for damages or contract adjustment other than an extension of time.

20. HAZARDOUS MATERIALS

Hazardous materials may exist at a site where there is no reason to believe they could or should be present. The Owner and Engineer agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. Owner and Engineer also agree that the discovery of unanticipated hazardous materials may make it necessary for the Engineer to take immediate measures to protect health and safety. Owner agrees to compensate Engineer for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials.

Engineer agrees to notify Owner when unanticipated hazardous materials or suspected hazardous materials are encountered. Owner agrees to make any disclosures required by law to the appropriate governing agencies, and agrees to hold Engineer harmless for any and all consequences of disclosures made by Engineer which are required by governing law. In the event the project site is not owned by Owner, the Owner agrees to inform the property owner of the discovery of unanticipated hazardous materials or suspected hazardous materials.

21. COMMUNICATIONS

Any communication required by this Agreement shall be made in writing to the address specified below:

Engineer: AMEC Environment & Infrastructure, Inc.
Attn: Bradley Heilwagen
3800 Ezell Road, Suite 100
Nashville, TN 37211
Phone: 615-333-0630
Email: brad.heilwagen@amec.com

Owner: City of Chattanooga
Department of Public Works
Engineering Division
Suite 2100, Development Resource Center
1250 Market Street
Chattanooga, TN 37402
(423) 643-6033

Nothing contained in the Article shall be construed to restrict the transmission of routine communications between representatives of Engineer and Owner.



22. WAIVER

A waiver by either Owner or Engineer of any breach of this Agreement shall be in writing. Such a waiver shall not affect the waiving party's rights with respect to any other or further breach.

23. DISPUTE RESOLUTION

Claims, disputes or other matters in question between the parties to this Agreement arising out of or relating to this Agreement or breach thereof shall be subject to mediation in Chattanooga, Tennessee, in accordance with the following provisions:

- a. The mediation shall be conducted by a mediator mutually acceptable to both parties.
- b. The parties agree to share equally in the expenses of mediations.
- c. Such mediation may include the Engineer or any other person or entity that may be affected by the subject matter of the dispute.
- d. Unless the parties agree otherwise, mediation shall be a condition precedent to the exercise of any legal remedy other than a proceeding seeking an immediate injunction or restraining order to protect the rights of a party pending litigation. Notwithstanding the issuance of an injunction or restraining order or the refusal of a court to issue such an order, the dispute shall continue to be subject to mediation.

24. SEVERABILITY

The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement. Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion or provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

25. INTEGRATION

This Agreement represents the entire and integrated agreement between Owner and Engineer. All prior and contemporaneous communications, representations, and agreements by Engineer, whether oral or written, relating to the subject matter of this Agreement, as set forth in Attachment D, Supplemental Agreements, are hereby incorporated into and shall become a part of this Agreement.

26. SUCCESSORS AND ASSIGNS

Owner and Engineer each binds itself and its directors, officers, partners, successors, executors, administrators, assigns, and legal representatives to the other party of this Agreement and to the directors, officers, partners, successors, executors, administrators, assigns, and legal representatives of such other party in respect to all provisions of this Agreement.

27. ASSIGNMENT

Neither Owner nor Engineer shall assign any rights or duties under this Agreement without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement. Nothing contained in this Article shall prevent Engineer from employing independent



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STANDARD AGREEMENT FOR ENGINEERING SERVICES

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consultants, associates, and subcontractors to assist in the performance of the Services; however, other agreements to the contrary notwithstanding, in the event Engineer employs independent consultants, associates, and subcontractors to assist in performance of the Services, Engineer shall be solely responsible for the negligent performance of the independent consultants, associates, and subcontractors so employed.

28. **THIRD PARTY RIGHTS**

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than Owner and Engineer.

29. **RELATIONSHIP OF PARTIES**

Nothing contained herein shall be construed to hold or to make the Owner a partner, joint venturer, or associate of Engineer, nor shall either party be deemed the agent of the other, it being expressly understood and agreed that the relationship between the parties is and shall at all times remain contractual as provided by the terms and conditions of this Agreement.

30. **NON-DISCLOSURE**

Engineer agrees not to disclose or to permit disclosure of any information designated by the Owner as confidential, except to the engineer's employees and subcontractors who require such information to perform the services specified in this agreement.

31. **NON-DISCRIMINATION**

Engineer agrees to comply with all federal, state, and local non-discrimination laws and regulations. Engineer agrees not to discriminate against any participant in this Agreement on the basis of race, color, religion, sex, age or national origin. Engineer further agrees to comply with all federal, state and local laws regarding treatment and accommodations for individuals with disabilities.

32. **DRUG FREE WORKFORCE**

Engineer certifies that it will provide a drug-free workplace and agrees to comply with the applicable requirements of the Drug-Free Workplace Act of 1988.

33. **FEDERAL OR STATE FUNDING**

In the event that the Project is funded in whole or in part by Federal or State grants, Engineer agrees to abide by all applicable Federal and State laws, regulations, grant conditions and procedures.

IN WITNESS WHEREOF, Owner and Engineer have executed this Agreement.

Bradley Heilwagen 2013-09-27
Bradley Heilwagen, Project Manager Date

Administrator of Public Works Date

Edwin Watkins 9/27/13
Edwin Watkins, Vice President Date

Director of Purchasing Date

Reviewed by City Attorney Office _____



Initial Date
ATTACHMENT A

Owner: City of Chattanooga, Tennessee

Engineer: **AMEC Environment & Infrastructure, Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SCOPE OF SERVICES

1. BASIC SERVICES

The project is specifically defined below:

The purpose of this Project is for the Engineer to assist the Owner in its mission to safeguard the lives, property, and livelihoods of its citizens by performing needed engineering services, on an on-call basis. The Engineer is one of several qualified and experienced professional firms selected by the Owner through a Statement of Qualifications process.

The basic scope of services to be provided by the Engineer to the Owner will include the services described below and as described in each Work Order as authorized by the Owner. Actual services to be provided for each project will be detailed in a fully executed Work Order. Each Work Order will indicate the specific tasks and functions to be performed and deliverables to be provided.

This Agreement is not a commitment by the Owner to the Engineer to issue any Work Orders. The Engineer is not guaranteed any minimum number of Work Orders or a percentage of Work Orders issues by the Owner.

The Engineer shall not be obligated to perform any prospective Work Order unless and until the Owner and the Engineer agree as to the particulars of the specific project, Engineer's services, Engineer's compensation, and all other appropriate matters.

The Engineer agrees to provide the following services:

- a. Tier 1 Tasks – Data Acquisition
 - i. Identify or establish temporary bench marks
 - ii. Obtain the physical dimensions of hydraulic and/or flood-control structures
 - iii. Field survey and/or reconnaissance investigations of sites, properties, transportation, or drainage features
 - iv. Review or processing of topographic data collected by various means
 - v. Collection of stormwater infrastructure data
 - vi. Development of digital elevation models and three-dimensional channel cross-sections
 - vii. Analysis and synthesis of digital ortho-photography
- b. Tier 2 Tasks – Investigations, Analysis, & Evaluations
 - i. Hydrologic watershed modeling, including calculation of peak flood discharges for the varying percentage annual chance storm events under current and planned development scenarios
 - ii. Hydraulic modeling of stream channels to evaluate the impact of peak flows, friction, as well as natural and man-made constrictions on peak flood elevations
 - iii. Calibration of flood modeling to existing data from stream gages, historical and recent rainfall data, and other sources
 - iv. Evaluation of the impact of floodplain encroachments on peak flood elevations
 - v. Delineation of FEMA flood zones and base flood elevations.
 - vi. Creation of digital floodway data tables and revision of Flood Insurance Studies



- vii. Revision of DFIRM maps
- viii. Methodology and computer programs used must receive prior Owner approval
- ix. Use of FEMA approved checking programs to verify reasonableness of hydraulic analysis
- x. Creation of mapping products for the purpose of emergency management and planning
- xi. Development of data sharing websites
- xii. Development and/or improvement of real-time modeling software
- xiii. Investigation of drainage problems
- c. Tier 3 Tasks – Program Management, Reporting, & Outreach
 - i. Management of flood related projects
 - ii. Preparation of CLOMR and LOMR packages for submittal to FEMA
 - iii. Attendance at staff and community meetings
 - iv. Preparation of public notices and notices of increased base flood elevations
 - v. Creation of reports proposing appropriate proactive and/or reactive strategies for maintaining public infrastructure for short term and/or sustained scenarios to ensure delivery of essential emergency services and/or reduction of flood elevations
 - vi. Development of reports summarizing methodology, field practices and results
 - vii. Assistance incorporating collected data into City's GIS system: integration, data management, conversion, staff training
 - viii. Reporting of any found illicit connections in a timely manner
 - ix. Providing engineering advice and/or consultation
 - x. Development and execution of flood-related exercises or trainings
 - xi. Assistance with the development of engineering plans and specifications for capital improvement projects
 - xii. Liaison and/or coordination with partnering agencies
 - xiii. Property and/or infrastructure damage assessments

2. SUPPLEMENTAL SERVICES

Any work requested by the Owner that is not included in the Basic Services will be classified as Supplemental Services. Supplemental Services shall include, but are not limited to the following:

- a. Coordination meetings, workshops, or presentations beyond those included in the basic services
- b. Civil, Agricultural, or Water Resources Engineering Services
- c. Assistance with disaster management and recovery
- d. Assistance with hazard mitigation planning
- e. Expert witness testimony and/or relative services in connection with litigation
- f. Environmental, ecological, or biological services
- g. Geotechnical or geology services
- h. GIS or CAD services

3. REIMBURSABLE EXPENSES

Project specific reimbursable expenses and charges shall include the following:

- a. Direct labor charges, in accordance with the hourly employee bill rates described in Attachment F
 - a. For overtime, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.
 - b. For expert witness testimony and related services in connection with litigation, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.



- b. Subcontractor expenses, billed at cost + 15%.

ATTACHMENT B

Owner: City of Chattanooga, Tennessee

Engineer: **AMEC Environment & Infrastructure, Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

COMPENSATION

For the services covered by this Agreement, the Owner agrees to pay the Engineer as follows:

1. For the Basic Services described in Attachment A, payments shall be made monthly in amounts which are consistent with the amount of engineering services provided, as determined by the Engineer, and in accordance with the Work Order, agreed-upon between the Owner and the Engineer.
2. Compensation for Supplemental Services shall be made on a lump sum basis, when authorized in writing by the Owner. The maximum limit for each item of additional service shall be established individually and specifically agreed to by the Owner and the Engineer in the Work Order.
3. Hourly rates for each classification are defined by the Engineer's rate schedule, in Attachment F. Overtime, when authorized by the Owner and agreed-upon by the Owner and the Engineer at the time of execution of the Work Order, shall be billed at 1.5 times the rates listed in Attachment F. Expert witness testimony and other services relating to litigation will also be billed at 1.5 times the rates listed in Attachment F.
4. Reimbursable charges for Basic Services will be limited to Subcontractor expenses, and will be considered for the amount of actual costs times a markup of 15%. Reimbursable charges for Supplemental Services will be agreed-upon between the Engineer and the Owner in the Work Order, as a part of the lump sum fee.
5. The entire amount of each statement shall be due and payable 30 days after receipt by the Owner.
6. The engineer shall keep records on the basis of generally accepted accounting practices of costs and expenses which records shall be available for inspection at all reasonable times.
7. Invoices shall be submitted using the Standard Invoice form, Attachment G.



ATTACHMENT C

Owner: City of Chattanooga, Tennessee

Engineer: **AMEC Environment & Infrastructure, Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

OWNER'S RESPONSIBILITIES

The Owner will furnish, as required by the work and not at the expense of the Engineer, the following:

1. Owner will provide electronic copies of all codes, policies, standards, and ordinances as may be needed.
2. Examine all plans, reports, memorandums, inquiries, and other documents submitted by the Engineer and render decisions promptly to prevent delay to the Engineer.
3. Designate one City of Chattanooga employee as the Owner representative with respect to all services to be rendered under this agreement. This individual shall have the authority to transmit instructions, receive information and to interpret and define the Owner's policies and decisions pertinent to the Engineer's services.
4. Issue Notice(s) to proceed to the Engineer for each phase of the services.
5. Owner will grant or obtain free access to City facilities for all equipment and personnel necessary for the Engineer to perform the work set forth in this Agreement.
6. Owner will lead inter-department coordination for the project and provide timely consolidated reviews and transmittals of project deliverables.
7. City Attorney will review policy recommendations for amendments to the city code.
8. Owner will make all arrangements to host and facilitate steering, advisory and stakeholders meetings and provide meeting notes.
9. Owner will develop, deploy, and maintain a website and/or other means to inform all interested parties including the general public of the project activities and work products.
10. Owner will provide to Engineer, the most updated GIS data for use in flood studies and other engineering.



CITY OF CHATTANOOGA
STANDARD AGREEMENT FOR ENGINEERING SERVICES

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ATTACHMENT D

Owner: City of Chattanooga, Tennessee

Engineer: **AMEC Environment & Infrastructure, Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SUPPLEMENTAL AGREEMENTS

Owner and Engineer agree that the following communications, representations, and agreements by Engineer relating to the subject matter of the Agreement are hereby incorporated into and shall become a part of the Agreement.

NONE



ATTACHMENT E

Owner: City of Chattanooga, Tennessee

Engineer: **AMEC Environment & Infrastructure, Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

PROJECT SCHEDULE

Owner and Engineer recognize that time is of the essence of each Work Order and that Owner will suffer financial loss if the work is not completed within the times stipulated therein, plus any extensions granted by the Owner. Accordingly, Engineer will have established time intervals, in calendar days, for submittals at various states of the Work Order, as described in each Work Order, and agreed-upon by the Engineer and Owner. As each actual submittal date occurs, Engineer shall meet with Owner (in-person or teleconference) to discuss the progress of the work and the actual submittal date shall be documented. If Work Order is behind schedule, the reason shall be recorded. Engineer shall not be responsible for the time required by the Owner's representative to review Engineer's submittal. When review is complete, Owner shall, in writing, authorize Engineer to proceed to the next submittal date. After final submittal date, Engineer and Owner shall meet to evaluate Engineer's performance with regard to the Work Order schedule. An Engineer's Project Performance Evaluation form shall be completed and acknowledged by both the Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. Past performance shall be accounted for on the evaluation sheet used to rank consultants during the interview process.

It is understood and agreed that the Engineer shall start the performance of Basic or Supplemental Services as described in each Work Order within 10 days of receipt of a written Notice to Proceed and shall complete the work in accordance with the Work Order times set forth therein.



ATTACHMENT F

Owner: City of Chattanooga, Tennessee

Engineer: **AMEC Environment & Infrastructure, Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

RATE SCHEDULE

Project Manager

Principal Project Manager.....	\$175.00/hr
Associate Project Manager	\$160.00/hr
Senior 2 Project Manager.....	\$130.00/hr
Senior 1 Project Manager.....	\$120.00/hr

Engineer (Agricultural, Civil, Environmental, Geotechnical, Water Resources)

Principal Engineer.....	\$200.00/hr
Associate Engineer.....	\$180.00/hr
Senior 2 Engineer.....	\$155.00/hr
Senior 1 Engineer.....	\$145.00/hr
Tech Prof 3 Engineer	\$125.00/hr
Tech Prof 2 Engineer	\$115.00/hr
Tech Prof 1 Engineer	\$105.00/hr

Specialist (Application Developer, GIS Analyst, Planner)

Principal Specialist.....	\$165.00/hr
Associate Specialist	\$145.00/hr
Senior 2 Specialist.....	\$120.00/hr
Senior 1 Specialist.....	\$110.00/hr
Tech Prof 3 Specialist	\$105.00/hr
Tech Prof 2 Specialist.....	\$95.00/hr
Tech Prof 1 Specialist	\$75.00/hr

Geologist

Principal Geologist.....	\$190.00/hr
Associate Geologist	\$145.00/hr
Senior 2 Geologist.....	\$120.00/hr
Senior 1 Geologist.....	\$115.00/hr
Tech Prof 3 Geologist	\$110.00/hr
Tech Prof 2 Geologist	\$105.00/hr
Tech Prof 1 Geologist	\$100.00/hr

Scientist (Biologist, Ecology, Environmental)

Principal Scientist	\$165.00/hr
Associate Scientist	\$155.00/hr
Senior 2 Scientist	\$130.00/hr
Senior 1 Scientist	\$115.00/hr
Tech Prof 3 Scientist.....	\$95.00/hr
Tech Prof 2 Scientist.....	\$85.00/hr
Tech Prof 1 Scientist.....	\$75.00/hr



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Architect

Principal Architect	\$155.00/hr
Associate Architect	\$145.00/hr
Senior 2 Architect	\$135.00/hr
Senior 1 Architect	\$125.00/hr
Tech Prof 3 Architect	\$115.00/hr
Tech Prof 2 Architect	\$105.00/hr
Tech Prof 1 Architect	\$95.00/hr

Registered Land Surveyor

Principal Survey	\$160.00/hr
Associate Survey	\$145.00/hr
Senior 2 Survey	\$135.00/hr
Senior 1 Survey	\$130.00/hr
Tech Prof 3 Survey	\$125.00/hr

Survey Technician

Survey Technician 5	\$85.00/hr
Survey Technician 4	\$70.00/hr
Survey Technician 3	\$65.00/hr
Survey Technician 2	\$60.00/hr
Survey Technician 1	\$55.00/hr

Designer / Drafter

CAD Technician 5	\$95.00/hr
CAD Technician 4	\$85.00/hr
CAD Technician 3	\$65.00/hr
CAD Technician 2	\$47.50/hr
CAD Technician 1	\$37.50/hr

Engineering Technician

Engineering Technician 5	\$70.00/hr
Engineering Technician 4	\$65.00/hr
Engineering Technician 3	\$45.00/hr
Engineering Technician 2	\$40.00/hr
Engineering Technician 1	\$35.00/hr

Administrative

Admin Staff 5	\$120.00/hr
Admin Staff 4	\$70.00/hr
Admin Staff 3	\$60.00/hr
Admin Staff 2	\$50.00/hr
Admin Staff 1	\$40.00/hr



ATTACHMENT G

STANDARD INVOICE

Indicates MANDATORY item

CONSULTANT LETTERHEAD

ATTN: City Project Manager
REF: Project Name
CODE: Consultant Project Number
PO: City Project Number in format S-02-001-101

Provided by City

INVOICE

TERMS: Net 25 days
DUE: 08/01/03

Must be Sequential Number

City Project Manager
City Project Manager Title
City of Chattanooga
Engineering Division/DRC
1250 Market Street, Suite 2100
Chattanooga TN 37402

Invoice Number 5
Dated 07/07/03

Invoice Must show Billing Period.

For Professional Services from May 31 to June 27, 2003

This Breakdown must list each Rem of the Contract.

Consultant Project No.	Description	Fee	Percent Work to Date	Amount Billed	Previous Billed	This Invoice Billed
C03009-01	01 - Design	\$51,500.00	LS 55%	\$28,325.00	\$18,540.00	\$9,785.00
	02 - Survey	\$15,700.00	LS 0%	\$0.00	\$0.00	\$0.00
C03009-02	Barton Avenue and Brown Acres Golf Course Design	\$20,000.00	CP 12%	\$2,391.02	\$2,033.00	\$358.02
C03009-03	Permitting/Easement Assistance	\$5,000.00	CP 6%	\$291.08	\$0.00	\$291.08
C03009-04	Bidding/Construction Assistance	\$10,000.00	CP 0%	\$0.00	\$0.00	\$0.00
C03009-05	Misc. As-Requested Services	\$5,000.00	CP 7%	\$363.85	\$0.00	\$363.85
	Total Contract Amount	\$107,200.00		\$31,370.95	\$20,573.00	
	TOTAL THIS INVOICE					\$10,797.95

Must Match Contract Amount

Prior invoices	\$20,573.00
This invoice	\$10,797.95
Payments	-\$20,573.00
Balance on Account	\$10,797.95

NOTE:

- There shall be only one invoice per contract per billing period.
- Any necessary details should be attached as backup.



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THIS AGREEMENT, is between the City of Chattanooga, Tennessee, a municipal corporation in the state of Tennessee, hereinafter called Owner, and

HDR ENGINEERING, INC.

hereinafter called Engineer.

The Owner wishes to employ the Engineer to perform professional engineering services for

On-Call Modeling & Floodplain Analysis Services hereinafter called Project.

In consideration of the provisions contained in this Agreement, the Owner and Engineer agree to the following:

1. **EFFECTIVE DATE**
 The effective date of this Agreement shall be _____, 2013.
2. **GOVERNING LAW**
 This Agreement shall be governed by the laws of the State of Tennessee and the codes of the City of Chattanooga.
3. **SERVICES TO BE PERFORMED BY ENGINEER**
 Engineer shall perform the Services described in Attachment A, Scope of Services, in accordance with applicable sections of the City of Chattanooga Design and Construction Standards in effect on the date of this agreement.
4. **COMPENSATION**
 Owner shall pay Engineer in accordance with the Attachment B, Compensation.
5. **OWNER'S RESPONSIBILITIES**
 Owner shall be responsible for all matters described in Attachment C, Owner's Responsibilities.
6. **SUPPLEMENTAL AGREEMENTS**
 The provisions set forth in Attachment D, Supplemental Agreements, shall be incorporated into this Agreement
7. **PROJECT SCHEDULE**
 The provisions set forth in the Attachment E, Project Schedule, shall be incorporated into this Agreement.
8. **RATE SCHEDULE**
 The Engineer shall provide a schedule of standard hourly rates for all employees to be used in the performance of all contracts with a cost-not-to-exceed basis. This schedule shall be incorporated into the agreement as Attachment F.
9. **INVOICING**
 The Engineer will use the format established in Attachment G, Standard Invoice, for all invoices submitted for services on the Project.



10. STANDARD OF CARE

Engineer shall exercise the same degree of care, skill, and diligence in the performance of Services as is ordinarily possessed and exercised by a professional engineer under similar circumstances in the same area of practice. Engineer makes no warranty or guarantee, either expressed or implied, as part of this agreement.

11. INDEMNIFICATION

Engineer hereby agrees to fully indemnify and hold harmless Owner and any of its departments, divisions, agencies, officers, employees and elected officials from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Owner and any of its officers, employees or elected officials arising out of Engineer's actual negligent performance of Services under this Agreement, including errors or omissions.

Owner hereby agrees to fully indemnify and hold harmless Engineer and any of its officers, employees, or designated agents from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Engineer and any of its officers, employees or designated agents arising out of Owner's negligence to the extent provided by the Tennessee Governmental Tort Liability Act, T.C.A. 29-20-201 et seq.

12. INSURANCE

Engineer shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure him against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverages as follows:

- a. Commercial General Liability Insurance, with a limit of \$1,000,000 for each occurrence and \$2,000,000 in the general aggregate.
- b. Automobile Liability Insurance, with a limit of \$1,000,000 for each accident, combined single limit for bodily injury and property damage.
- c. Worker's Compensation Insurance and Employer's Liability Insurance, in accordance with statutory requirements, with a limit of \$500,000 for each accident.
- d. Professional Liability Insurance, with a limit of \$1,000,000 for each claim and aggregate.

Prior to issuance of the Notice to Proceed by Owner, Engineer shall have on file with Owner certificates of insurance acceptable to Owner. Said certificates of insurance shall be filed with Owner in January of each year or may be submitted with each agreement. Upon completion of all Services, obligations, and duties provided for in this Agreement, or if this Agreement is terminated for any reason, the terms and conditions of this section shall survive.

Notwithstanding any other provision of the Agreement, Owner waives any claim against Engineer and, to the maximum extent permitted by law, agrees to defend, indemnify, and hold Engineer harmless from any claim, liability, and/or defense costs for injury or loss arising from Engineer's discovery of unanticipated hazardous materials or suspected hazardous materials, including, but not limited to, any costs created by delay of the project and any cost associated with possible reduction of the property value.

13. LIMITATIONS OF RESPONSIBILITY

Engineer shall not be responsible for: (1) construction means, methods, techniques, sequences,



procedures, or safety precautions and programs in connection with the Project, (2) the failure of any contractor, subcontractor, vendor, or other Project participant, not under contract to Engineer, to fulfill contractual responsibilities to the Owner or to comply with federal, state or local laws, regulations, and codes; or (3) procuring permits, certificates, and licenses required for any construction unless such responsibilities are specifically assigned to Engineer in Attachment A, Scope of Services.

14. OPINIONS OF COST AND SCHEDULE

Since Engineer has no control over the cost of labor, materials, or equipment furnished by others, or over the resources provided by others to meet Project construction schedules, Engineer's opinion of probable construction costs and of construction schedules shall be made on the basis of experience and qualifications as a professional engineer. Engineer does not guarantee that costs will not vary from Engineer's cost estimates or that actual construction schedules will not vary from Engineer's projected schedules.

15. REUSE OF DOCUMENTS

All documents, including, but not limited to calculations, drawings, specifications, and computer software prepared by Engineer pursuant to the Agreement are instruments of service in respect to the Project. They are not intended or represented to be suitable for reuse by Owner or others on extensions of the Project or on any other project. Any reuse without prior written verification or adaptation by Engineer for the specific purpose intended will be at Owner's sole risk and without liability or legal exposure to Engineer. Any verification or adaptation requested by Owner shall entitle Engineer to compensation at rates to be agreed upon by Owner and Engineer.

16. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

Except as otherwise provided herein, engineering documents, calculations, drawings, specifications, and other documents prepared by Engineer as part of the Services shall become and be the sole property of Owner. However, both Owner and Engineer shall have the unrestricted right to their use. Engineer shall retain its rights in its standard drawing details, specifications, databases, computer software, and other proprietary property protected under the copyright laws of the United States. Rights to intellectual property developed, utilized, or modified in the performance of services shall remain the property of Engineer.

17. RECORDS RETENTION AND AUDIT PROVISION

The term "Engineer" is used interchangeably to describe signatories to contracts, grants, and agreements with the City and applies to reflect the relationship with the City (Engineer, Contractor, Licensee, Supplier, Vendor, Consultant, Grant Recipient, etc.).

- a. All records relating in any manner whatsoever to the Project, or any designated portion thereof, which are in the possession of the Engineer or the Engineer's consultants, shall be made available for inspection and copying upon written request to the Owner. Additionally, said records shall be made available, upon request by the Owner, to any state, federal or other regulatory authorities and any such authority may review, inspect and copy such records. Said records include, but are not limited to, all plans, specifications, submittals, correspondence, minutes, memoranda, tape recordings, videos, or other writings or things which document the Project, its design and its construction. Said records expressly include those documents reflecting the time expended by the Engineer and its personnel to perform the obligations of this Agreement and the records of expenses incurred by the Engineer in its performance under said Agreement. The Engineer shall maintain and protect these records for no less than seven (7) years after the completion of the Project, or for any longer period of time as may be required by applicable law, good engineering practice, and upon notice during the pendency of any claims or litigation arising from the Project.



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- b. The Owner or its assign may audit all financial and related records (including digital) associated with the terms of the contract or agreement including timesheets, reimbursable out of pocket expenses, materials, goods, and equipment claimed by the Engineer. The Owner may further audit any of Engineer's records to conduct performance audits (to identify waste and abuse or to determine efficiency and effectiveness of the contract or agreement) or to identify conflicts of interest.
- c. The Engineer shall at all times during the term of the contract or agreement and for a period of seven years after the end of the contract, keep and maintain records of the work performed pursuant to this Contract or Agreement. This shall include proper records of quotations, contracts, correspondence, invoices, vouchers, timesheets, and other documents that support actions taken by the Engineer. Documents shall be maintained by the Engineer, which are necessary to clearly reflect all work and actions taken. All such records shall be maintained in accordance with generally accepted accounting principles. The Engineer shall at its own expense make such records available for inspection and audit (including copies and extracts of records as required) by the Owner at all reasonable times and without prior notice.
- d. The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the Engineer and any subcontractors or suppliers of goods or services to the extent that those subcontracts or agreements relate to fulfillment of the Engineer's obligations to the Owner.
- e. Costs of any audits conducted under the authority of this section and not addressed elsewhere will be borne by the Owner, unless the audit identifies significant findings that would benefit the Owner. The Engineer shall reimburse the Owner for the total costs of an audit that identifies significant findings that would benefit the Owner.
- f. This Section shall not be construed to limit, revoke, or abridge any other rights, powers, or obligations relating to audit which the Owner may have by Federal, State, or Municipal law, whether those rights, powers, or obligations are express or implied.

18. TERMINATION

This Agreement may be terminated by either party upon written notice in the event of substantial failure by the other party to perform in accordance with the terms of this Agreement. The nonperforming party shall have fifteen calendar days from the date of the termination notice to cure or to submit a plan for cure acceptable to the other party. Owner may terminate or suspend performance of this Agreement for Owner's convenience upon written notice to Engineer. If termination or suspension is for Owner's convenience, Owner shall pay Engineer for all Services performed prior to the date of the termination notice. Upon restart, an adjustment acceptable to Owner and Engineer shall be made to Engineer's compensation.

19. DELAY IN PERFORMANCE

Neither Owner nor Engineer shall be considered in default of the Agreement for delays in performance caused by circumstances beyond the reasonable control of the nonconforming party. For purposes of this Agreement, such circumstances include abnormal weather conditions; floods; earthquakes; fire; epidemics; war, riots, or other civil disturbances; sabotage; judicial restraint; discovery of unanticipated hazardous wastes; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either Owner or Engineer under this Agreement. Should such circumstances occur, the nonconforming party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances



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preventing continued performance and the efforts being made to resume performance of the Agreement. If the Engineer is delayed in the performance of the services for more than 365 calendar days, either by the Owner or circumstances beyond his control, an equitable adjustment to the contract amount can be made to compensate for additional costs incurred.

For delays in performance by Engineer, as set forth in Attachment E, Project Schedule, caused by circumstances which are within its control, such delays shall be documented on the Engineer's Project Performance Evaluation form. Said form shall be completed at the conclusion of Project and acknowledged by both Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. In the event Engineer is delayed in the performance of Services because of delays caused by Owner, Engineer shall have no claim against Owner for damages or contract adjustment other than an extension of time.

20. HAZARDOUS MATERIALS

Hazardous materials may exist at a site where there is no reason to believe they could or should be present. The Owner and Engineer agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. Owner and Engineer also agree that the discovery of unanticipated hazardous materials may make it necessary for the Engineer to take immediate measures to protect health and safety. Owner agrees to compensate Engineer for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials.

Engineer agrees to notify Owner when unanticipated hazardous materials or suspected hazardous materials are encountered. Owner agrees to make any disclosures required by law to the appropriate governing agencies, and agrees to hold Engineer harmless for any and all consequences of disclosures made by Engineer which are required by governing law. In the event the project site is not owned by Owner, the Owner agrees to inform the property owner of the discovery of unanticipated hazardous materials or suspected hazardous materials.

21. COMMUNICATIONS

Any communication required by this Agreement shall be made in writing to the address specified below:

Engineer: HDR Engineering, Inc.
1201 C Market Street
Chattanooga, TN 37402-2714
Phone: 423-414-3554
Email: shane.womack@hdrinc.com

Owner: City of Chattanooga
Department of Public Works
Engineering Division
Suite 2100, Development Resource Center
1250 Market Street
Chattanooga, TN 37402
(423) 643-6033

Nothing contained in the Article shall be construed to restrict the transmission of routine communications between representatives of Engineer and Owner.



22. WAIVER

A waiver by either Owner or Engineer of any breach of this Agreement shall be in writing. Such a waiver shall not affect the waiving party's rights with respect to any other or further breach.

23. DISPUTE RESOLUTION

Claims, disputes or other matters in question between the parties to this Agreement arising out of or relating to this Agreement or breach thereof shall be subject to mediation in Chattanooga, Tennessee, in accordance with the following provisions:

- a. The mediation shall be conducted by a mediator mutually acceptable to both parties.
- b. The parties agree to share equally in the expenses of mediations.
- c. Such mediation may include the Engineer or any other person or entity that may be affected by the subject matter of the dispute.
- d. Unless the parties agree otherwise, mediation shall be a condition precedent to the exercise of any legal remedy other than a proceeding seeking an immediate injunction or restraining order to protect the rights of a party pending litigation. Notwithstanding the issuance of an injunction or restraining order or the refusal of a court to issue such an order, the dispute shall continue to be subject to mediation.

24. SEVERABILITY

The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement. Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion or provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

25. INTEGRATION

This Agreement represents the entire and integrated agreement between Owner and Engineer. All prior and contemporaneous communications, representations, and agreements by Engineer, whether oral or written, relating to the subject matter of this Agreement, as set forth in Attachment D, Supplemental Agreements, are hereby incorporated into and shall become a part of this Agreement.

26. SUCCESSORS AND ASSIGNS

Owner and Engineer each binds itself and its directors, officers, partners, successors, executors, administrators, assigns, and legal representatives to the other party of this Agreement and to the directors, officers, partners, successors, executors, administrators, assigns, and legal representatives of such other party in respect to all provisions of this Agreement.

27. ASSIGNMENT

Neither Owner nor Engineer shall assign any rights or duties under this Agreement without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement. Nothing contained in this Article shall prevent Engineer from employing independent



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consultants, associates, and subcontractors to assist in the performance of the Services; however, other agreements to the contrary notwithstanding, in the event Engineer employs independent consultants, associates, and subcontractors to assist in performance of the Services, Engineer shall be solely responsible for the negligent performance of the independent consultants, associates, and subcontractors so employed.

28. **THIRD PARTY RIGHTS**

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than Owner and Engineer.

29. **RELATIONSHIP OF PARTIES**

Nothing contained herein shall be construed to hold or to make the Owner a partner, joint venturer, or associate of Engineer, nor shall either party be deemed the agent of the other, it being expressly understood and agreed that the relationship between the parties is and shall at all times remain contractual as provided by the terms and conditions of this Agreement.

30. **NON-DISCLOSURE**

Engineer agrees not to disclose or to permit disclosure of any information designated by the Owner as confidential, except to the engineer's employees and subcontractors who require such information to perform the services specified in this agreement.

31. **NON-DISCRIMINATION**

Engineer agrees to comply with all federal, state, and local non-discrimination laws and regulations. Engineer agrees not to discriminate against any participant in this Agreement on the basis of race, color, religion, sex, age or national origin. Engineer further agrees to comply with all federal, state and local laws regarding treatment and accommodations for individuals with disabilities.

32. **DRUG FREE WORKFORCE**

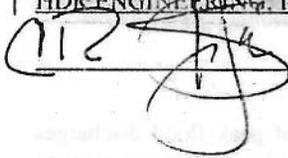
Engineer certifies that it will provide a drug-free workplace and agrees to comply with the applicable requirements of the Drug-Free Workplace Act of 1988.

33. **FEDERAL OR STATE FUNDING**

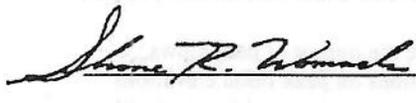
In the event that the Project is funded in whole or in part by Federal or State grants, Engineer agrees to abide by all applicable Federal and State laws, regulations, grant conditions and procedures.

IN WITNESS WHEREOF, Owner and Engineer have executed this Agreement.

HDR ENGINEERING, INC.

 10/8/13
Date

Administrator of Public Works Date

 10/7/13
Date

Director of Purchasing Date

Reviewed by City Attorney Office _____



Initial _____ Date _____
ATTACHMENT A

Owner: City of Chattanooga, Tennessee
 Engineer: **HDR Engineering, Inc.**
 Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SCOPE OF SERVICES

1. BASIC SERVICES

The project is specifically defined below:

The purpose of this Project is for the Engineer to assist the Owner in its mission to safeguard the lives, property, and livelihoods of its citizens by performing needed engineering services, on an on-call basis. The Engineer is one of several qualified and experienced professional firms selected by the Owner through a Statement of Qualifications process.

The basic scope of services to be provided by the Engineer to the Owner will include the services described below and as described in each Work Order as authorized by the Owner. Actual services to be provided for each project will be detailed in a fully executed Work Order. Each Work Order will indicate the specific tasks and functions to be performed and deliverables to be provided.

This Agreement is not a commitment by the Owner to the Engineer to issue any Work Orders. The Engineer is not guaranteed any minimum number of Work Orders or a percentage of Work Orders issues by the Owner.

The Engineer shall not be obligated to perform any prospective Work Order unless and until the Owner and the Engineer agree as to the particulars of the specific project, Engineer's services, Engineer's compensation, and all other appropriate matters.

The Engineer agrees to provide the following services:

- a. Tier 1 Tasks – Data Acquisition
 - i. Identify or establish temporary bench marks
 - ii. Obtain the physical dimensions of hydraulic and/or flood-control structures
 - iii. Field survey and/or reconnaissance investigations of sites, properties, transportation, or drainage features
 - iv. Review or processing of topographic data collected by various means
 - v. Collection of stormwater infrastructure data
 - vi. Development of digital elevation models and three-dimensional channel cross-sections
 - vii. Analysis and synthesis of digital ortho-photography
- b. Tier 2 Tasks – Investigations, Analysis, & Evaluations
 - i. Hydrologic watershed modeling, including calculation of peak flood discharges for the varying percentage annual chance storm events under current and planned development scenarios
 - ii. Hydraulic modeling of stream channels to evaluate the impact of peak flows, friction, as well as natural and man-made constrictions on peak flood elevations
 - iii. Calibration of flood modeling to existing data from stream gages, historical and recent rainfall data, and other sources
 - iv. Evaluation of the impact of floodplain encroachments on peak flood elevations
 - v. Delineation of FEMA flood zones and base flood elevations.
 - vi. Creation of digital floodway data tables and revision of Flood Insurance Studies



- vii. Revision of DFIRM maps
- viii. Methodology and computer programs used must receive prior Owner approval
- ix. Use of FEMA approved checking programs to verify reasonableness of hydraulic analysis
- x. Creation of mapping products for the purpose of emergency management and planning
- xi. Development of data sharing websites
- xii. Development and/or improvement of real-time modeling software
- xiii. Investigation of drainage problems
- c. Tier 3 Tasks – Program Management, Reporting, & Outreach
 - i. Management of flood related projects
 - ii. Preparation of CLOMR and LOMR packages for submittal to FEMA
 - iii. Attendance at staff and community meetings
 - iv. Preparation of public notices and notices of increased base flood elevations
 - v. Creation of reports proposing appropriate proactive and/or reactive strategies for maintaining public infrastructure for short term and/or sustained scenarios to ensure delivery of essential emergency services and/or reduction of flood elevations
 - vi. Development of reports summarizing methodology, field practices and results
 - vii. Assistance incorporating collected data into City's GIS system: integration, data management, conversion, staff training
 - viii. Reporting of any found illicit connections in a timely manner
 - ix. Providing engineering advice and/or consultation
 - x. Development and execution of flood-related exercises or trainings
 - xi. Assistance with the development of engineering plans and specifications for capital improvement projects
 - xii. Liaison and/or coordination with partnering agencies
 - xiii. Property and/or infrastructure damage assessments

2. SUPPLEMENTAL SERVICES

Any work requested by the Owner that is not included in the Basic Services will be classified as Supplemental Services. Supplemental Services shall include, but are not limited to the following:

- a. Coordination meetings, workshops, or presentations beyond those included in the basic services
- b. Civil, Agricultural, or Water Resources Engineering Services
- c. Assistance with disaster management and recovery
- d. Assistance with hazard mitigation planning
- e. Expert witness testimony and/or relative services in connection with litigation
- f. Environmental, ecological, or biological services
- g. Geotechnical or geology services
- h. GIS or CAD services

3. REIMBURSABLE EXPENSES

Project specific reimbursable expenses and charges shall include the following:

- a. Direct labor charges, in accordance with the hourly employee bill rates described in Attachment F
 - a. For overtime, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.
 - b. For expert witness testimony and related services in connection with litigation, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.



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- b. Subcontractor expenses, billed at cost + 15%.

ATTACHMENT B

Owner: City of Chattanooga, Tennessee

Engineer: Firm #1

Project Number & Name: S-12-008-101 On-Call Modeling & Floodplain Analysis Services

COMPENSATION

For the services covered by this Agreement, the Owner agrees to pay the Engineer as follows:

1. For the Basic Services described in Attachment A, payments shall be made monthly in amounts which are consistent with the amount of engineering services provided, as determined by the Engineer, and in accordance with the Work Order, agreed-upon between the Owner and the Engineer.
2. Compensation for Supplemental Services shall be made on a lump sum basis, when authorized in writing by the Owner. The maximum limit for each item of additional service shall be established individually and specifically agreed to by the Owner and the Engineer in the Work Order.
3. Hourly rates for each classification are defined by the Engineer's rate schedule, in Attachment F. Overtime, when authorized by the Owner and agreed-upon by the Owner and the Engineer at the time of execution of the Work Order, shall be billed at 1.5 times the rates listed in Attachment F. Expert witness testimony and other services relating to litigation will also be billed at 1.5 times the rates listed in Attachment F.
4. Reimbursable charges for Basic Services will be limited to Subcontractor expenses, and will be considered for the amount of actual costs times a markup of 15%. Reimbursable charges for Supplemental Services will be agreed-upon between the Engineer and the Owner in the Work Order, as a part of the lump sum fee.
5. The entire amount of each statement shall be due and payable 30 days after receipt by the Owner.
6. The engineer shall keep records on the basis of generally accepted accounting practices of costs and expenses which records shall be available for inspection at all reasonable times.
7. Invoices shall be submitted using the Standard Invoice form, Attachment G.



ATTACHMENT C

Owner: City of Chattanooga, Tennessee

Engineer: **HDR Engineering, Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

OWNER'S RESPONSIBILITIES

The Owner will furnish, as required by the work and not at the expense of the Engineer, the following:

1. Owner will provide electronic copies of all codes, policies, standards, and ordinances as may be needed.
2. Examine all plans, reports, memorandums, inquiries, and other documents submitted by the Engineer and render decisions promptly to prevent delay to the Engineer.
3. Designate one City of Chattanooga employee as the Owner representative with respect to all services to be rendered under this agreement. This individual shall have the authority to transmit instructions, receive information and to interpret and define the Owner's policies and decisions pertinent to the Engineer's services.
4. Issue Notice(s) to proceed to the Engineer for each phase of the services.
5. Owner will grant or obtain free access to City facilities for all equipment and personnel necessary for the Engineer to perform the work set forth in this Agreement.
6. Owner will lead inter-department coordination for the project and provide timely consolidated reviews and transmittals of project deliverables.
7. City Attorney will review policy recommendations for amendments to the city code.
8. Owner will make all arrangements to host and facilitate steering, advisory and stakeholders meetings and provide meeting notes.
9. Owner will develop, deploy, and maintain a website and/or other means to inform all interested parties including the general public of the project activities and work products.
10. Owner will provide to Engineer, the most updated GIS data for use in flood studies and other engineering.



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ATTACHMENT D

Owner: City of Chattanooga, Tennessee

Engineer: **HDR Engineering, Inc.**

Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SUPPLEMENTAL AGREEMENTS

Owner and Engineer agree that the following communications, representations, and agreements by Engineer relating to the subject matter of the Agreement are hereby incorporated into and shall become a part of the Agreement.

NONE



ATTACHMENT E

Owner: City of Chattanooga, Tennessee

Engineer: **HDR Engineering, Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

PROJECT SCHEDULE

Owner and Engineer recognize that time is of the essence of each Work Order and that Owner will suffer financial loss if the work is not completed within the times stipulated therein, plus any extensions granted by the Owner. Accordingly, Engineer will have established time intervals, in calendar days, for submittals at various states of the Work Order, as described in each Work Order, and agreed-upon by the Engineer and Owner. As each actual submittal date occurs, Engineer shall meet with Owner (in-person or teleconference) to discuss the progress of the work and the actual submittal date shall be documented. If Work Order is behind schedule, the reason shall be recorded. Engineer shall not be responsible for the time required by the Owner's representative to review Engineer's submittal. When review is complete, Owner shall, in writing, authorize Engineer to proceed to the next submittal date. After final submittal date, Engineer and Owner shall meet to evaluate Engineer's performance with regard to the Work Order schedule. An Engineer's Project Performance Evaluation form shall be completed and acknowledged by both the Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. Past performance shall be accounted for on the evaluation sheet used to rank consultants during the interview process.

It is understood and agreed that the Engineer shall start the performance of Basic or Supplemental Services as described in each Work Order within 10 days of receipt of a written Notice to Proceed and shall complete the work in accordance with the Work Order times set forth therein.



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ATTACHMENT F

Owner: City of Chattanooga, Tennessee

Engineer: **HDR Engineering, Inc.**

Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

RATE SCHEDULE

Rate ranges supplied are hourly rates for calendar year 2013 and calendar year 2014. Rates may be increased annually upon mutual agreement of the parties. However, such adjustment shall not exceed a three percent (3%) annual adjustment. Subconsultants @ cost + 15% (per Attachment B).

2013-2014 Hourly Rate Ranges (\$/Hour)

<u>Labor Category *</u>	<u>Minimum</u>	<u>Maximum</u>
• Principal Engineer / Subject Matter Expert	\$200.00	\$245.00
• QA/QC	\$200.00	\$245.00
• Senior Project Manager	\$170.00	\$210.00
• Project Manager	\$110.00	\$170.00
• Senior Engineer / Scientist	\$150.00	\$195.00
• Project Engineer/ GIS / Scientist	\$100.00	\$150.00
• Environmental Engineer / Scientist	\$100.00	\$130.00
• EIT	\$90.00	\$120.00
• Designer	\$100.00	\$130.00
• CADD Technician	\$80.00	\$100.00
• Administrative Support	\$80.00	\$100.00
• Resident Project Representative	\$100.00	\$130.00

* Subconsultants @ cost +15% (per Attachment B)



ATTACHMENT G

STANDARD INVOICE

Indicates MANDATORY item

CONSULTANT LETTERHEAD

INVOICE

ATTN: City Project Manager
REF: **Provided by City**
CODE: Consultant Project Number
PO:

TERMS: Net 25 days
DUE: 08/01/03

Must be Sequential Number

Invoice Must show Billing Period.

This Breakdown must list each item of the Contract.

Consultant Project No.	Description	Fee	Percent Work Fee Basis	Amount to Date	Previous Billed	This Invoice Billed	
							Amount Billed
C03009-01	01 - Design	\$51,500.00	LS	55%	\$28,325.00	\$18,540.00	\$9,785.00
	02 - Survey	\$15,700.00	LS	0%	\$0.00	\$0.00	\$0.00
C03009-02	Barton Avenue and Brown Acres Golf Course Design	\$20,000.00	CP	12%	\$2,391.02	\$2,033.00	\$358.02
C03009-03	Permitting/Easement Assistance	\$5,000.00	CP	6%	\$291.08	\$0.00	\$291.08
C03009-04	Bidding/Construction Assistance	\$10,000.00	CP	0%	\$0.00	\$0.00	\$0.00
C03009-05	Misc. As-Requested Services	\$5,000.00	CP	7%	\$363.85	\$0.00	\$363.85
Total Contract Amount					\$107,200.00	\$31,370.95	\$20,573.00
TOTAL THIS INVOICE							\$10,797.95

Must Match Contract Amount

Prior invoices	\$20,573.00
This invoice	\$10,797.95
Payments	-\$20,573.00
Balance on Account	\$10,797.95

NOTE:

- There shall be only one invoice per contract per billing period.
- Any necessary details should be attached as backup.



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THIS AGREEMENT, is between the City of Chattanooga, Tennessee, a municipal corporation in the state of Tennessee, hereinafter called Owner, and

CDM Smith Inc.

hereinafter called Engineer.

The Owner wishes to employ the Engineer to perform professional engineering services for

On-Call Modeling & Floodplain Analysis Services hereinafter called Project.

In consideration of the provisions contained in this Agreement, the Owner and Engineer agree to the following:

1. **EFFECTIVE DATE**
The effective date of this Agreement shall be _____, 2013.
2. **GOVERNING LAW**
This Agreement shall be governed by the laws of the State of Tennessee and the codes of the City of Chattanooga.
3. **SERVICES TO BE PERFORMED BY ENGINEER**
Engineer shall perform the Services described in Attachment A, Scope of Services, in accordance with applicable sections of the City of Chattanooga Design and Construction Standards in effect on the date of this agreement.
4. **COMPENSATION**
Owner shall pay Engineer in accordance with the Attachment B, Compensation.
5. **OWNER'S RESPONSIBILITIES**
Owner shall be responsible for all matters described in Attachment C, Owner's Responsibilities.
6. **SUPPLEMENTAL AGREEMENTS**
The provisions set forth in Attachment D, Supplemental Agreements, shall be incorporated into this Agreement
7. **PROJECT SCHEDULE**
The provisions set forth in the Attachment E, Project Schedule, shall be incorporated into this Agreement.
8. **RATE SCHEDULE**
The Engineer shall provide a schedule of standard hourly rates for all employees to be used in the performance of all contracts with a cost-not-to-exceed basis. This schedule shall be incorporated into the agreement as Attachment F.
9. **INVOICING**
The Engineer will use the format established in Attachment G, Standard Invoice, for all invoices submitted for services on the Project.



10. STANDARD OF CARE

Engineer shall exercise the same degree of care, skill, and diligence in the performance of Services as is ordinarily possessed and exercised by a professional engineer under similar circumstances in the same area of practice. Engineer makes no warranty or guarantee, either expressed or implied, as part of this agreement.

11. INDEMNIFICATION

Engineer hereby agrees to fully indemnify and hold harmless Owner and any of its departments, divisions, agencies, officers, employees and elected officials from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Owner and any of its officers, employees or elected officials arising out of Engineer's actual negligent performance of Services under this Agreement, including errors or omissions.

Owner hereby agrees to fully indemnify and hold harmless Engineer and any of its officers, employees, or designated agents from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Engineer and any of its officers, employees or designated agents arising out of Owner's negligence to the extent provided by the Tennessee Governmental Tort Liability Act, T.C.A. 29-20-201 et seq.

12. INSURANCE

Engineer shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure him against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverages as follows:

- a. Commercial General Liability Insurance, with a limit of \$1,000,000 for each occurrence and \$2,000,000 in the general aggregate.
- b. Automobile Liability Insurance, with a limit of \$1,000,000 for each accident, combined single limit for bodily injury and property damage.
- c. Worker's Compensation Insurance and Employer's Liability Insurance, in accordance with statutory requirements, with a limit of \$500,000 for each accident.
- d. Professional Liability Insurance, with a limit of \$1,000,000 for each claim and aggregate.

Prior to issuance of the Notice to Proceed by Owner, Engineer shall have on file with Owner certificates of insurance acceptable to Owner. Said certificates of insurance shall be filed with Owner in January of each year or may be submitted with each agreement. Upon completion of all Services, obligations, and duties provided for in this Agreement, or if this Agreement is terminated for any reason, the terms and conditions of this section shall survive.

Notwithstanding any other provision of the Agreement, Owner waives any claim against Engineer and, to the maximum extent permitted by law, agrees to defend, indemnify, and hold Engineer harmless from any claim, liability, and/or defense costs for injury or loss arising from Engineer's discovery of unanticipated hazardous materials or suspected hazardous materials, including, but not limited to, any costs created by delay of the project and any cost associated with possible reduction of the property value.

13. LIMITATIONS OF RESPONSIBILITY

Engineer shall not be responsible for: (1) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project, (2) the failure of any contractor, subcontractor, vendor, or other Project participant, not under contract to Engineer,



to fulfill contractual responsibilities to the Owner or to comply with federal, state or local laws, regulations, and codes; or (3) procuring permits, certificates, and licenses required for any construction unless such responsibilities are specifically assigned to Engineer in Attachment A, Scope of Services.

14. OPINIONS OF COST AND SCHEDULE

Since Engineer has no control over the cost of labor, materials, or equipment furnished by others, or over the resources provided by others to meet Project construction schedules, Engineer's opinion of probable construction costs and of construction schedules shall be made on the basis of experience and qualifications as a professional engineer. Engineer does not guarantee that costs will not vary from Engineer's cost estimates or that actual construction schedules will not vary from Engineer's projected schedules.

15. REUSE OF DOCUMENTS

All documents, including, but not limited to calculations, drawings, specifications, and computer software prepared by Engineer pursuant to the Agreement are instruments of service in respect to the Project. They are not intended or represented to be suitable for reuse by Owner or others on extensions of the Project or on any other project. Any reuse without prior written verification or adaptation by Engineer for the specific purpose intended will be at Owner's sole risk and without liability or legal exposure to Engineer. Any verification or adaptation requested by Owner shall entitle Engineer to compensation at rates to be agreed upon by Owner and Engineer.

16. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

Except as otherwise provided herein, engineering documents, calculations, drawings, specifications, and other documents prepared by Engineer as part of the Services shall become and be the sole property of Owner. However, both Owner and Engineer shall have the unrestricted right to their use. Engineer shall retain its rights in its standard drawing details, specifications, databases, computer software, and other proprietary property protected under the copyright laws of the United States. Rights to intellectual property developed, utilized, or modified in the performance of services shall remain the property of Engineer.

17. RECORDS RETENTION AND AUDIT PROVISION

The term "Engineer" is used interchangeably to describe signatories to contracts, grants, and agreements with the City and applies to reflect the relationship with the City (Engineer, Contractor, Licensee, Supplier, Vendor, Consultant, Grant Recipient, etc.).

- a. All records relating in any manner whatsoever to the Project, or any designated portion thereof, which are in the possession of the Engineer or the Engineer's consultants, shall be made available for inspection and copying upon written request to the Owner. Additionally, said records shall be made available, upon request by the Owner, to any state, federal or other regulatory authorities and any such authority may review, inspect and copy such records. Said records include, but are not limited to, all plans, specifications, submittals, correspondence, minutes, memoranda, tape recordings, videos, or other writings or things which document the Project, its design and its construction. Said records expressly include those documents reflecting the time expended by the Engineer and its personnel to perform the obligations of this Agreement and the records of expenses incurred by the Engineer in its performance under said Agreement. The Engineer shall maintain and protect these records for no less than seven (7) years after the completion of the Project, or for any longer period of time as may be required by applicable law, good engineering practice, and upon notice during the pendency of any claims or litigation arising from the Project.



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- b. The Owner or its assign may audit all financial and related records (including digital) associated with the terms of the contract or agreement including timesheets, reimbursable out of pocket expenses, materials, goods, and equipment claimed by the Engineer. The Owner may further audit any of Engineer's records to conduct performance audits (to identify waste and abuse or to determine efficiency and effectiveness of the contract or agreement) or to identify conflicts of interest.
- c. The Engineer shall at all times during the term of the contract or agreement and for a period of seven years after the end of the contract, keep and maintain records of the work performed pursuant to this Contract or Agreement. This shall include proper records of quotations, contracts, correspondence, invoices, vouchers, timesheets, and other documents that support actions taken by the Engineer. Documents shall be maintained by the Engineer, which are necessary to clearly reflect all work and actions taken. All such records shall be maintained in accordance with generally accepted accounting principles. The Engineer shall at its own expense make such records available for inspection and audit (including copies and extracts of records as required) by the Owner at all reasonable times and without prior notice.
- d. The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the Engineer and any subcontractors or suppliers of goods or services to the extent that those subcontracts or agreements relate to fulfillment of the Engineer's obligations to the Owner.
- e. Costs of any audits conducted under the authority of this section and not addressed elsewhere will be borne by the Owner unless the audit identifies significant findings that would benefit the Owner. The Engineer shall reimburse the Owner for the total costs of an audit that identifies significant findings that would benefit the Owner.
- f. This Section shall not be construed to limit, revoke, or abridge any other rights, powers, or obligations relating to audit which the Owner may have by Federal, State, or Municipal law, whether those rights, powers, or obligations are express or implied.

18. TERMINATION

This Agreement may be terminated by either party upon written notice in the event of substantial failure by the other party to perform in accordance with the terms of this Agreement. The nonperforming party shall have fifteen calendar days from the date of the termination notice to cure or to submit a plan for cure acceptable to the other party. Owner may terminate or suspend performance of this Agreement for Owner's convenience upon written notice to Engineer. If termination or suspension is for Owner's convenience, Owner shall pay Engineer for all Services performed prior to the date of the termination notice. Upon restart, an adjustment acceptable to Owner and Engineer shall be made to Engineer's compensation.

19. DELAY IN PERFORMANCE

Neither Owner nor Engineer shall be considered in default of the Agreement for delays in performance caused by circumstances beyond the reasonable control of the nonconforming party. For purposes of this Agreement, such circumstances include abnormal weather conditions; floods; earthquakes; fire; epidemics; war, riots, or other civil disturbances; sabotage; judicial restraint; discovery of unanticipated hazardous wastes; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either Owner or Engineer under this Agreement. Should such circumstances occur, the nonconforming party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of the



Agreement. If the Engineer is delayed in the performance of the services for more than 365 calendar days, either by the Owner or circumstances beyond his control, an equitable adjustment to the contract amount can be made to compensate for additional costs incurred.

For delays in performance by Engineer, as set forth in Attachment E, Project Schedule, caused by circumstances which are within its control, such delays shall be documented on the Engineer's Project Performance Evaluation form. Said form shall be completed at the conclusion of Project and acknowledged by both Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. In the event Engineer is delayed in the performance of Services because of delays caused by Owner, Engineer shall have no claim against Owner for damages or contract adjustment other than an extension of time.

20. HAZARDOUS MATERIALS

Hazardous materials may exist at a site where there is no reason to believe they could or should be present. The Owner and Engineer agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. Owner and Engineer also agree that the discovery of unanticipated hazardous materials may make it necessary for the Engineer to take immediate measures to protect health and safety. Owner agrees to compensate Engineer for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials.

Engineer agrees to notify Owner when unanticipated hazardous materials or suspected hazardous materials are encountered. Owner agrees to make any disclosures required by law to the appropriate governing agencies, and agrees to hold Engineer harmless for any and all consequences of disclosures made by Engineer which are required by governing law. In the event the project site is not owned by Owner, the Owner agrees to inform the property owner of the discovery of unanticipated hazardous materials or suspected hazardous materials.

21. COMMUNICATIONS

Any communication required by this Agreement shall be made in writing to the address specified below:

Engineer: CDM Smith Inc.
Attn: Andrew Romanek
651 East 4th Street; Suite 100
Chattanooga, TN 37403
Phone: (423) 771-4495
Email: romanekap@cdmsmith.com

Owner: City of Chattanooga
Department of Public Works
Engineering Division
Suite 2100, Development Resource Center
1250 Market Street
Chattanooga, TN 37402
(423) 643-6033

Nothing contained in the Article shall be construed to restrict the transmission of routine communications between representatives of Engineer and Owner.



22. WAIVER

A waiver by either Owner or Engineer of any breach of this Agreement shall be in writing. Such a waiver shall not affect the waiving party's rights with respect to any other or further breach.

23. DISPUTE RESOLUTION

Claims, disputes or other matters in question between the parties to this Agreement arising out of or relating to this Agreement or breach thereof shall be subject to mediation in Chattanooga, Tennessee, in accordance with the following provisions:

- a. The mediation shall be conducted by a mediator mutually acceptable to both parties.
- b. The parties agree to share equally in the expenses of mediations.
- c. Such mediation may include the Engineer or any other person or entity that may be affected by the subject matter of the dispute.
- d. Unless the parties agree otherwise, mediation shall be a condition precedent to the exercise of any legal remedy other than a proceeding seeking an immediate injunction or restraining order to protect the rights of a party pending litigation. Notwithstanding the issuance of an injunction or restraining order or the refusal of a court to issue such an order, the dispute shall continue to be subject to mediation.

24. SEVERABILITY

The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement. Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion or provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

25. INTEGRATION

This Agreement represents the entire and integrated agreement between Owner and Engineer. All prior and contemporaneous communications, representations, and agreements by Engineer, whether oral or written, relating to the subject matter of this Agreement, as set forth in Attachment D, Supplemental Agreements, are hereby incorporated into and shall become a part of this Agreement.

26. SUCCESSORS AND ASSIGNS

Owner and Engineer each binds itself and its directors, officers, partners, successors, executors, administrators, assigns, and legal representatives to the other party of this Agreement and to the directors, officers, partners, successors, executors, administrators, assigns, and legal representatives of such other party in respect to all provisions of this Agreement.

27. ASSIGNMENT

Neither Owner nor Engineer shall assign any rights or duties under this Agreement without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement. Nothing contained in this Article shall prevent Engineer from employing independent



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consultants, associates, and subcontractors to assist in the performance of the Services; however, other agreements to the contrary notwithstanding, in the event Engineer employs independent consultants, associates, and subcontractors to assist in performance of the Services, Engineer shall be solely responsible for the negligent performance of the independent consultants, associates, and subcontractors so employed.

28. THIRD PARTY RIGHTS

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than Owner and Engineer.

29. RELATIONSHIP OF PARTIES

Nothing contained herein shall be construed to hold or to make the Owner a partner, joint venturer, or associate of Engineer, nor shall either party be deemed the agent of the other, it being expressly understood and agreed that the relationship between the parties is and shall at all times remain contractual as provided by the terms and conditions of this Agreement.

30. NON-DISCLOSURE

Engineer agrees not to disclose or to permit disclosure of any information designated by the Owner as confidential, except to the engineer's employees and subcontractors who require such information to perform the services specified in this agreement.

31. NON-DISCRIMINATION

Engineer agrees to comply with all federal, state, and local non-discrimination laws and regulations. Engineer agrees not to discriminate against any participant in this Agreement on the basis of race, color, religion, sex, age or national origin. Engineer further agrees to comply with all federal, state and local laws regarding treatment and accommodations for individuals with disabilities.

32. DRUG FREE WORKFORCE

Engineer certifies that it will provide a drug-free workplace and agrees to comply with the applicable requirements of the Drug-Free Workplace Act of 1988.

33. FEDERAL OR STATE FUNDING

In the event that the Project is funded in whole or in part by Federal or State grants, Engineer agrees to abide by all applicable Federal and State laws, regulations, grant conditions and procedures.

IN WITNESS WHEREOF, Owner and Engineer have executed this Agreement.

Joshua M. Norton 9/27/13 [Signature] 10-29-13
Joshua M. Norton Date Administrator of Public Works Date
Associate
CDM Smith Inc.

Date Director of Purchasing Date

Reviewed by City Attorney Office _____
Initial Date



ATTACHMENT A

Owner: City of Chattanooga, Tennessee

Engineer: **CDM Smith Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SCOPE OF SERVICES

1. BASIC SERVICES

The project is specifically defined below:

The purpose of this Project is for the Engineer to assist the Owner in its mission to safeguard the lives, property, and livelihoods of its citizens by performing needed engineering services, on an on-call basis. The Engineer is one of several qualified and experienced professional firms selected by the Owner through a Statement of Qualifications process.

The basic scope of services to be provided by the Engineer to the Owner will include the services described below and as described in each Work Order as authorized by the Owner. Actual services to be provided for each project will be detailed in a fully executed Work Order. Each Work Order will indicate the specific tasks and functions to be performed and deliverables to be provided.

This Agreement is not a commitment by the Owner to the Engineer to issue any Work Orders. The Engineer is not guaranteed any minimum number of Work Orders or a percentage of Work Orders issues by the Owner.

The Engineer shall not be obligated to perform any prospective Work Order unless and until the Owner and the Engineer agree as to the particulars of the specific project, Engineer's services, Engineer's compensation, and all other appropriate matters.

The Engineer agrees to provide the following services:

- a. Tier 1 Tasks – Data Acquisition
 - i. Identify or establish temporary bench marks
 - ii. Obtain the physical dimensions of hydraulic and/or flood-control structures
 - iii. Field survey and/or reconnaissance investigations of sites, properties, transportation, or drainage features
 - iv. Review or processing of topographic data collected by various means
 - v. Collection of stormwater infrastructure data
 - vi. Development of digital elevation models and three-dimensional channel cross-sections
 - vii. Analysis and synthesis of digital ortho-photography
- b. Tier 2 Tasks – Investigations, Analysis, & Evaluations
 - i. Hydrologic watershed modeling, including calculation of peak flood discharges for the varying percentage annual chance storm events under current and planned development scenarios
 - ii. Hydraulic modeling of stream channels to evaluate the impact of peak flows, friction, as well as natural and man-made constrictions on peak flood elevations
 - iii. Calibration of flood modeling to existing data from stream gages, historical and recent rainfall data, and other sources
 - iv. Evaluation of the impact of floodplain encroachments on peak flood elevations
 - v. Delineation of FEMA flood zones and base flood elevations.
 - vi. Creation of digital floodway data tables and revision of Flood Insurance Studies
 - vii. Revision of DFIRM maps



- viii. Methodology and computer programs used must receive prior Owner approval
- ix. Use of FEMA approved checking programs to verify reasonableness of hydraulic analysis
- x. Creation of mapping products for the purpose of emergency management and planning
- xi. Development of data sharing websites
- xii. Development and/or improvement of real-time modeling software
- xiii. Investigation of drainage problems
- c. Tier 3 Tasks – Program Management, Reporting, & Outreach
 - i. Management of flood related projects
 - ii. Preparation of CLOMR and LOMR packages for submittal to FEMA
 - iii. Attendance at staff and community meetings
 - iv. Preparation of public notices and notices of increased base flood elevations
 - v. Creation of reports proposing appropriate proactive and/or reactive strategies for maintaining public infrastructure for short term and/or sustained scenarios to ensure delivery of essential emergency services and/or reduction of flood elevations
 - vi. Development of reports summarizing methodology, field practices and results
 - vii. Assistance incorporating collected data into City's GIS system: integration, data management, conversion, staff training
 - viii. Reporting of any found illicit connections in a timely manner
 - ix. Providing engineering advice and/or consultation
 - x. Development and execution of flood-related exercises or trainings
 - xi. Assistance with the development of engineering plans and specifications for capital improvement projects
 - xii. Liaison and/or coordination with partnering agencies
 - xiii. Property and/or infrastructure damage assessments

2. SUPPLEMENTAL SERVICES

Any work requested by the Owner that is not included in the Basic Services will be classified as Supplemental Services. Supplemental Services shall include, but are not limited to the following:

- a. Coordination meetings, workshops, or presentations beyond those included in the basic services
- b. Civil, Agricultural, or Water Resources Engineering Services
- c. Assistance with disaster management and recovery
- d. Assistance with hazard mitigation planning
- e. Expert witness testimony and/or relative services in connection with litigation
- f. Environmental, ecological, or biological services
- g. Geotechnical or geology services
- h. GIS or CAD services

3. REIMBURSABLE EXPENSES

Project specific reimbursable expenses and charges shall include the following:

- a. Direct labor charges, in accordance with the hourly employee bill rates described in Attachment F
 - a. For overtime, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.
 - b. For expert witness testimony and related services in connection with litigation, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.
- b. Subcontractor expenses, billed at cost + 15%.



ATTACHMENT B

Owner: City of Chattanooga, Tennessee

Engineer: **CDM Smith Inc.**

Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

COMPENSATION

For the services covered by this Agreement, the Owner agrees to pay the Engineer as follows:

1. For the Basic Services described in Attachment A, payments shall be made monthly in amounts which are consistent with the amount of engineering services provided, as determined by the Engineer, and in accordance with the Work Order, agreed-upon between the Owner and the Engineer.
2. Compensation for Supplemental Services shall be made on a lump sum basis, when authorized in writing by the Owner. The maximum limit for each item of additional service shall be established individually and specifically agreed to by the Owner and the Engineer in the Work Order.
3. Hourly rates for each classification are defined by the Engineer's rate schedule, in Attachment F. Overtime, when authorized by the Owner and agreed-upon by the Owner and the Engineer at the time of execution of the Work Order, shall be billed at 1.5 times the rates listed in Attachment F. Expert witness testimony and other services relating to litigation will also be billed at 1.5 times the rates listed in Attachment F.
4. Reimbursable charges for Basic Services will be limited to Subcontractor expenses, and will be considered for the amount of actual costs times a markup of 15%. Reimbursable charges for Supplemental Services will be agreed-upon between the Engineer and the Owner in the Work Order, as a part of the lump sum fee.
5. The entire amount of each statement shall be due and payable 30 days after receipt by the Owner.
6. The engineer shall keep records on the basis of generally accepted accounting practices of costs and expenses which records shall be available for inspection at all reasonable times.
7. Invoices shall be submitted using the Standard Invoice form, Attachment G.



ATTACHMENT C

Owner: City of Chattanooga, Tennessee

Engineer: **CDM Smith Inc.**

Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

OWNER'S RESPONSIBILITIES

The Owner will furnish, as required by the work and not at the expense of the Engineer, the following:

1. Owner will provide electronic copies of all codes, policies, standards, and ordinances as may be needed.
2. Examine all plans, reports, memorandums, inquiries, and other documents submitted by the Engineer and render decisions promptly to prevent delay to the Engineer.
3. Designate one City of Chattanooga employee as the Owner representative with respect to all services to be rendered under this agreement. This individual shall have the authority to transmit instructions, receive information and to interpret and define the Owner's policies and decisions pertinent to the Engineer's services.
4. Issue Notice(s) to proceed to the Engineer for each phase of the services.
5. Owner will grant or obtain free access to City facilities for all equipment and personnel necessary for the Engineer to perform the work set forth in this Agreement.
6. Owner will lead inter-department coordination for the project and provide timely consolidated reviews and transmittals of project deliverables.
7. City Attorney will review policy recommendations for amendments to the city code.
8. Owner will make all arrangements to host and facilitate steering, advisory and stakeholders meetings and provide meeting notes.
9. Owner will develop, deploy, and maintain a website and/or other means to inform all interested parties including the general public of the project activities and work products.
10. Owner will provide to Engineer, the most updated GIS data for use in flood studies and other engineering.



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ATTACHMENT D

Owner: City of Chattanooga, Tennessee

Engineer: **CDM Smith Inc.**

Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SUPPLEMENTAL AGREEMENTS

Owner and Engineer agree that the following communications, representations, and agreements by Engineer relating to the subject matter of the Agreement are hereby incorporated into and shall become a part of the Agreement.

NONE



ATTACHMENT E

Owner: City of Chattanooga, Tennessee

Engineer: **CDM Smith Inc.**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

PROJECT SCHEDULE

Owner and Engineer recognize that time is of the essence of each Work Order and that Owner will suffer financial loss if the work is not completed within the times stipulated therein, plus any extensions granted by the Owner. Accordingly, Engineer will have established time intervals, in calendar days, for submittals at various states of the Work Order, as described in each Work Order, and agreed-upon by the Engineer and Owner. As each actual submittal date occurs, Engineer shall meet with Owner (in-person or teleconference) to discuss the progress of the work and the actual submittal date shall be documented. If Work Order is behind schedule, the reason shall be recorded. Engineer shall not be responsible for the time required by the Owner's representative to review Engineer's submittal. When review is complete, Owner shall, in writing, authorize Engineer to proceed to the next submittal date. After final submittal date, Engineer and Owner shall meet to evaluate Engineer's performance with regard to the Work Order schedule. An Engineer's Project Performance Evaluation form shall be completed and acknowledged by both the Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. Past performance shall be accounted for on the evaluation sheet used to rank consultants during the interview process.

It is understood and agreed that the Engineer shall start the performance of Basic or Supplemental Services as described in each Work Order within 10 days of receipt of a written Notice to Proceed and shall complete the work in accordance with the Work Order times set forth therein.



CITY OF CHATTANOOGA
STANDARD AGREEMENT FOR ENGINEERING SERVICES

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ATTACHMENT F

Owner: City of Chattanooga, Tennessee

Engineer: **CDM Smith Inc.**
 Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

RATE SCHEDULE

<i>Labor Category</i>	<i>Rate</i>
Vice President or Technical Advisor (Grade 9, 10)	\$200
Associate	\$185
Principal	\$165
Senior Professional	
Grade 8	\$175
Grade 7	\$160
Grade 6	\$150
Grade 5	\$140
Grade 4	\$130
Junior Professional	
Grade 3	\$115
Grade 2	\$100
Technician	\$75
CAD	\$90
Clerical	\$75
Contract Administrator	\$80



ATTACHMENT G

STANDARD INVOICE

Indicates MANDATORY Item

CONSULTANT LETTERHEAD

ATTN: City Project Manager
REF: Project Name
CODE: Consultant Project Number
PO: City Project Number in format S-02-001-101

Provided by City

INVOICE

TERMS: Net 25 days
DUE: 08/01/03

Must be Sequential Number

City Project Manager
City Project Manager Title
City of Chattanooga
Engineering Division/DRC
1250 Market Street, Suite 2100
Chattanooga TN 37402

Invoice Number 5
Dated 07/07/03

Invoice Must show Billing Period.

For Professional Services from May 31 to June 27, 2003

This Breakdown must list each item of the Contract.

Consultant Project No.	Description	Fee	Fee Basis	Percent Work to Date	Amount Billed	Previous Billed	This Invoice Billed
C03009-01	01 - Design	\$51,500.00	LS	55%	\$26,325.00	\$18,540.00	\$9,785.00
	02 - Survey	\$15,700.00	LS	0%	\$0.00	\$0.00	\$0.00
C03009-02	Barton Avenue and Brown Acres Golf Course Design	\$20,000.00	CP	12%	\$2,391.02	\$2,033.00	\$358.02
C03009-03	Permitting/Easement Assistance	\$5,000.00	CP	6%	\$291.08	\$0.00	\$291.08
C03009-04	Bidding/Construction Assistance	\$10,000.00	CP	0%	\$0.00	\$0.00	\$0.00
C03009-05	Misc. As-Requested Services	\$5,000.00	CP	7%	\$363.85	\$0.00	\$363.85
Total Contract Amount		\$107,200.00			\$31,370.95	\$20,573.00	
TOTAL THIS INVOICE							\$10,797.95

Must Match Contract Amount

Prior Invoices	\$20,573.00
This Invoice	\$10,797.95
Payments	-\$20,573.00
Balance on Account	\$10,797.95

- NOTE
- There shall be only one invoice per contract per billing period.
 - Any necessary details should be attached as backup.



Lamar Dunn & Associates, Inc.
 1110 Market Street, Suite 501
 Chattanooga, TN 37402
 P: 423.855.0400
 F: 423.510.9009
 LDAENGINEERING.COM

Letter of Transmittal

DATE: October 1, 2013

PROJECT NO.: GMW013

TO: Hamilton County WWTA

ATTENTION: Tony Kinder

1250 Market Street, Suite 2100

REFERENCE: Contract # S-12-008-101

Chattanooga, TN 37402

VIA: Hand Delivered

WE ARE SENDING TO YOU: Attached Under Separate Cover Via _____ the following items:

- Shop drawings Prints Plan Samples Specifications
 Copy of letter Change Order Other _____

COPIES	DATE	NO.	DESCRIPTION
7	10/1/13		Contract # S-12-008-101 On-Call Modeling and Floodplain Management

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit ___ copies for approval
 For your use Approved as noted Submit ___ copies for distribution
 As requested Returned for corrections Return ___ corrected prints
 For review and comment _____
 FOR BIDS DUE _____, 2013 PRINTS RETURNED AFTER LOAN TO US

REMARKS: _____

COPY TO: _____

LDA ENGINEERING
SIGNED: Eddie Wade, P.E.



CITY OF CHATTANOOGA
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THIS AGREEMENT, is between the City of Chattanooga, Tennessee, a municipal corporation in the state of Tennessee, hereinafter called Owner, and

Lamar Dunn & Associates, Inc. d.b.a. LDA Engineering

hereinafter called Engineer.

The Owner wishes to employ the Engineer to perform professional engineering services for

On-Call Modeling & Floodplain Analysis Services hereinafter called Project.

In consideration of the provisions contained in this Agreement, the Owner and Engineer agree to the following:

1. **EFFECTIVE DATE**
The effective date of this Agreement shall be _____, 2013.
2. **GOVERNING LAW**
This Agreement shall be governed by the laws of the State of Tennessee and the codes of the City of Chattanooga.
3. **SERVICES TO BE PERFORMED BY ENGINEER**
Engineer shall perform the Services described in Attachment A, Scope of Services, in accordance with applicable sections of the City of Chattanooga Design and Construction Standards in effect on the date of this agreement.
4. **COMPENSATION**
Owner shall pay Engineer in accordance with the Attachment B, Compensation.
5. **OWNER'S RESPONSIBILITIES**
Owner shall be responsible for all matters described in Attachment C, Owner's Responsibilities.
6. **SUPPLEMENTAL AGREEMENTS**
The provisions set forth in Attachment D, Supplemental Agreements, shall be incorporated into this Agreement
7. **PROJECT SCHEDULE**
The provisions set forth in the Attachment E, Project Schedule, shall be incorporated into this Agreement.
8. **RATE SCHEDULE**
The Engineer shall provide a schedule of standard hourly rates for all employees to be used in the performance of all contracts with a cost-not-to-exceed basis. This schedule shall be incorporated into the agreement as Attachment F.
9. **INVOICING**
The Engineer will use the format established in Attachment G, Standard Invoice, for all invoices submitted for services on the Project.



10. STANDARD OF CARE

Engineer shall exercise the same degree of care, skill, and diligence in the performance of Services as is ordinarily possessed and exercised by a professional engineer under similar circumstances in the same area of practice. Engineer makes no warranty or guarantee, either expressed or implied, as part of this agreement.

11. INDEMNIFICATION

Engineer hereby agrees to fully indemnify and hold harmless Owner and any of its departments, divisions, agencies, officers, employees and elected officials from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Owner and any of its officers, employees or elected officials arising out of Engineer's actual negligent performance of Services under this Agreement, including errors or omissions.

Owner hereby agrees to fully indemnify and hold harmless Engineer and any of its officers, employees, or designated agents from all loss, damage, cost, or expenses specifically including attorneys' fees and other expenses of litigation incurred by or on behalf of the Engineer and any of its officers, employees or designated agents arising out of Owner's negligence to the extent provided by the Tennessee Governmental Tort Liability Act, T.C.A. 29-20-201 et seq.

12. INSURANCE

Engineer shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure him against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverages as follows:

- a. Commercial General Liability Insurance, with a limit of \$1,000,000 for each occurrence and \$2,000,000 in the general aggregate.
- b. Automobile Liability Insurance, with a limit of \$1,000,000 for each accident, combined single limit for bodily injury and property damage.
- c. Worker's Compensation Insurance and Employer's Liability Insurance, in accordance with statutory requirements, with a limit of \$500,000 for each accident.
- d. Professional Liability Insurance, with a limit of \$1,000,000 for each claim and aggregate.

Prior to issuance of the Notice to Proceed by Owner, Engineer shall have on file with Owner certificates of insurance acceptable to Owner. Said certificates of insurance shall be filed with Owner in January of each year or may be submitted with each agreement. Upon completion of all Services, obligations, and duties provided for in this Agreement, or if this Agreement is terminated for any reason, the terms and conditions of this section shall survive.

Notwithstanding any other provision of the Agreement, Owner waives any claim against Engineer and, to the maximum extent permitted by law, agrees to defend, indemnify, and hold Engineer harmless from any claim, liability, and/or defense costs for injury or loss arising from Engineer's discovery of unanticipated hazardous materials or suspected hazardous materials, including, but not limited to, any costs created by delay of the project and any cost associated with possible reduction of the property value.

13. LIMITATIONS OF RESPONSIBILITY

Engineer shall not be responsible for: (1) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project, (2) the failure of any contractor, subcontractor, vendor, or other Project participant, not under contract to Engineer,



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to fulfill contractual responsibilities to the Owner or to comply with federal, state or local laws, regulations, and codes; or (3) procuring permits, certificates, and licenses required for any construction unless such responsibilities are specifically assigned to Engineer in Attachment A, Scope of Services.

14. OPINIONS OF COST AND SCHEDULE

Since Engineer has no control over the cost of labor, materials, or equipment furnished by others, or over the resources provided by others to meet Project construction schedules, Engineer's opinion of probable construction costs and of construction schedules shall be made on the basis of experience and qualifications as a professional engineer. Engineer does not guarantee that costs will not vary from Engineer's cost estimates or that actual construction schedules will not vary from Engineer's projected schedules.

15. REUSE OF DOCUMENTS

All documents, including, but not limited to calculations, drawings, specifications, and computer software prepared by Engineer pursuant to the Agreement are instruments of service in respect to the Project. They are not intended or represented to be suitable for reuse by Owner or others on extensions of the Project or on any other project. Any reuse without prior written verification or adaptation by Engineer for the specific purpose intended will be at Owner's sole risk and without liability or legal exposure to Engineer. Any verification or adaptation requested by Owner shall entitle Engineer to compensation at rates to be agreed upon by Owner and Engineer.

16. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

Except as otherwise provided herein, engineering documents, calculations, drawings, specifications, and other documents prepared by Engineer as part of the Services shall become and be the sole property of Owner. However, both Owner and Engineer shall have the unrestricted right to their use. Engineer shall retain its rights in its standard drawing details, specifications, databases, computer software, and other proprietary property protected under the copyright laws of the United States. Rights to intellectual property developed, utilized, or modified in the performance of services shall remain the property of Engineer.

17. RECORDS RETENTION AND AUDIT PROVISION

The term "Engineer" is used interchangeably to describe signatories to contracts, grants, and agreements with the City and applies to reflect the relationship with the City (Engineer, Contractor, Licensee, Supplier, Vendor, Consultant, Grant Recipient, etc.).

- a. All records relating in any manner whatsoever to the Project, or any designated portion thereof, which are in the possession of the Engineer or the Engineer's consultants, shall be made available for inspection and copying upon written request to the Owner. Additionally, said records shall be made available, upon request by the Owner, to any state, federal or other regulatory authorities and any such authority may review, inspect and copy such records. Said records include, but are not limited to, all plans, specifications, submittals, correspondence, minutes, memoranda, tape recordings, videos, or other writings or things which document the Project, its design and its construction. Said records expressly include those documents reflecting the time expended by the Engineer and its personnel to perform the obligations of this Agreement and the records of expenses incurred by the Engineer in its performance under said Agreement. The Engineer shall maintain and protect these records for no less than seven (7) years after the completion of the Project, or for any longer period of time as may be required by applicable law, good engineering practice, and upon notice during the pendency of any claims or litigation arising from the Project.



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- b. The Owner or its assign may audit all financial and related records (including digital) associated with the terms of the contract or agreement including timesheets, reimbursable out of pocket expenses, materials, goods, and equipment claimed by the Engineer. The Owner may further audit any of Engineer's records to conduct performance audits (to identify waste and abuse or to determine efficiency and effectiveness of the contract or agreement) or to identify conflicts of interest.
- c. The Engineer shall at all times during the term of the contract or agreement and for a period of seven years after the end of the contract, keep and maintain records of the work performed pursuant to this Contract or Agreement. This shall include proper records of quotations, contracts, correspondence, invoices, vouchers, timesheets, and other documents that support actions taken by the Engineer. Documents shall be maintained by the Engineer, which are necessary to clearly reflect all work and actions taken. All such records shall be maintained in accordance with generally accepted accounting principles. The Engineer shall at its own expense make such records available for inspection and audit (including copies and extracts of records as required) by the Owner at all reasonable times and without prior notice.
- d. The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the Engineer and any subcontractors or suppliers of goods or services to the extent that those subcontracts or agreements relate to fulfillment of the Engineer's obligations to the Owner.
- e. Costs of any audits conducted under the authority of this section and not addressed elsewhere will be borne by the Owner unless the audit identifies significant findings that would benefit the Owner. The Engineer shall reimburse the Owner for the total costs of an audit that identifies significant findings that would benefit the Owner.
- f. This Section shall not be construed to limit, revoke, or abridge any other rights, powers, or obligations relating to audit which the Owner may have by Federal, State, or Municipal law, whether those rights, powers, or obligations are express or implied.

18. TERMINATION

This Agreement may be terminated by either party upon written notice in the event of substantial failure by the other party to perform in accordance with the terms of this Agreement. The nonperforming party shall have fifteen calendar days from the date of the termination notice to cure or to submit a plan for cure acceptable to the other party. Owner may terminate or suspend performance of this Agreement for Owner's convenience upon written notice to Engineer. If termination or suspension is for Owner's convenience, Owner shall pay Engineer for all Services performed prior to the date of the termination notice. Upon restart, an adjustment acceptable to Owner and Engineer shall be made to Engineer's compensation.

19. DELAY IN PERFORMANCE

Neither Owner nor Engineer shall be considered in default of the Agreement for delays in performance caused by circumstances beyond the reasonable control of the nonconforming party. For purposes of this Agreement, such circumstances include abnormal weather conditions; floods; earthquakes; fire; epidemics; war, riots, or other civil disturbances; sabotage; judicial restraint; discovery of unanticipated hazardous wastes; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either Owner or Engineer under this Agreement. Should such circumstances occur, the nonconforming party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of the



Agreement. If the Engineer is delayed in the performance of the services for more than 365 calendar days, either by the Owner or circumstances beyond his control, an equitable adjustment to the contract amount can be made to compensate for additional costs incurred.

For delays in performance by Engineer, as set forth in Attachment E, Project Schedule, caused by circumstances which are within its control, such delays shall be documented on the Engineer's Project Performance Evaluation form. Said form shall be completed at the conclusion of Project and acknowledged by both Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. In the event Engineer is delayed in the performance of Services because of delays caused by Owner, Engineer shall have no claim against Owner for damages or contract adjustment other than an extension of time.

20. HAZARDOUS MATERIALS

Hazardous materials may exist at a site where there is no reason to believe they could or should be present. The Owner and Engineer agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. Owner and Engineer also agree that the discovery of unanticipated hazardous materials may make it necessary for the Engineer to take immediate measures to protect health and safety. Owner agrees to compensate Engineer for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials.

Engineer agrees to notify Owner when unanticipated hazardous materials or suspected hazardous materials are encountered. Owner agrees to make any disclosures required by law to the appropriate governing agencies, and agrees to hold Engineer harmless for any and all consequences of disclosures made by Engineer which are required by governing law. In the event the project site is not owned by Owner, the Owner agrees to inform the property owner of the discovery of unanticipated hazardous materials or suspected hazardous materials.

21. COMMUNICATIONS

Any communication required by this Agreement shall be made in writing to the address specified below:

Engineer: LDA Engineering
1110 Market Street
Suite 501
Chattanooga, TN 37402
Phone: (423) 855-0400
Email: ewade@ldaengineering.com

Owner: City of Chattanooga
Department of Public Works
Engineering Division
Suite 2100, Development Resource Center
1250 Market Street
Chattanooga, TN 37402
(423) 643-6033

Nothing contained in the Article shall be construed to restrict the transmission of routine communications between representatives of Engineer and Owner.



22. **WAIVER**

A waiver by either Owner or Engineer of any breach of this Agreement shall be in writing. Such a waiver shall not affect the waiving party's rights with respect to any other or further breach.

23. **DISPUTE RESOLUTION**

Claims, disputes or other matters in question between the parties to this Agreement arising out of or relating to this Agreement or breach thereof shall be subject to mediation in Chattanooga, Tennessee, in accordance with the following provisions:

- a. The mediation shall be conducted by a mediator mutually acceptable to both parties.
- b. The parties agree to share equally in the expenses of mediations.
- c. Such mediation may include the Engineer or any other person or entity that may be affected by the subject matter of the dispute.
- d. Unless the parties agree otherwise, mediation shall be a condition precedent to the exercise of any legal remedy other than a proceeding seeking an immediate injunction or restraining order to protect the rights of a party pending litigation. Notwithstanding the issuance of an injunction or restraining order or the refusal of a court to issue such an order, the dispute shall continue to be subject to mediation.

24. **SEVERABILITY**

The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement. Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion or provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

25. **INTEGRATION**

This Agreement represents the entire and integrated agreement between Owner and Engineer. All prior and contemporaneous communications, representations, and agreements by Engineer, whether oral or written, relating to the subject matter of this Agreement, as set forth in Attachment D, Supplemental Agreements, are hereby incorporated into and shall become a part of this Agreement.

26. **SUCCESSORS AND ASSIGNS**

Owner and Engineer each binds itself and its directors, officers, partners, successors, executors, administrators, assigns, and legal representatives to the other party of this Agreement and to the directors, officers, partners, successors, executors, administrators, assigns, and legal representatives of such other party in respect to all provisions of this Agreement.

27. **ASSIGNMENT**

Neither Owner nor Engineer shall assign any rights or duties under this Agreement without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement. Nothing contained in this Article shall prevent Engineer from employing independent



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consultants, associates, and subcontractors to assist in the performance of the Services; however, other agreements to the contrary notwithstanding, in the event Engineer employs independent consultants, associates, and subcontractors to assist in performance of the Services, Engineer shall be solely responsible for the negligent performance of the independent consultants, associates, and subcontractors so employed.

28. **THIRD PARTY RIGHTS**

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than Owner and Engineer.

29. **RELATIONSHIP OF PARTIES**

Nothing contained herein shall be construed to hold or to make the Owner a partner, joint venturer, or associate of Engineer, nor shall either party be deemed the agent of the other, it being expressly understood and agreed that the relationship between the parties is and shall at all times remain contractual as provided by the terms and conditions of this Agreement.

30. **NON-DISCLOSURE**

Engineer agrees not to disclose or to permit disclosure of any information designated by the Owner as confidential, except to the engineer's employees and subcontractors who require such information to perform the services specified in this agreement.

31. **NON-DISCRIMINATION**

Engineer agrees to comply with all federal, state, and local non-discrimination laws and regulations. Engineer agrees not to discriminate against any participant in this Agreement on the basis of race, color, religion, sex, age or national origin. Engineer further agrees to comply with all federal, state and local laws regarding treatment and accommodations for individuals with disabilities.

32. **DRUG FREE WORKFORCE**

Engineer certifies that it will provide a drug-free workplace and agrees to comply with the applicable requirements of the Drug-Free Workplace Act of 1988.

33. **FEDERAL OR STATE FUNDING**

In the event that the Project is funded in whole or in part by Federal or State grants, Engineer agrees to abide by all applicable Federal and State laws, regulations, grant conditions and procedures.

IN WITNESS WHEREOF, Owner and Engineer have executed this Agreement.

Edward Wade 10-1-13
 Edward Wade, Vice President Date

John T. [Signature] 10-29-13
 Administrator of Public Works Date

 Director of Purchasing Date

Reviewed by City Attorney Office _____



- vii. Revision of DFIRM maps
- viii. Methodology and computer programs used must receive prior Owner approval
- ix. Use of FEMA approved checking programs to verify reasonableness of hydraulic analysis
 - x. Creation of mapping products for the purpose of emergency management and planning
 - xi. Development of data sharing websites
 - xii. Development and/or improvement of real-time modeling software
 - xiii. Investigation of drainage problems
- c. Tier 3 Tasks – Program Management, Reporting, & Outreach
 - i. Management of flood related projects
 - ii. Preparation of CLOMR and LOMR packages for submittal to FEMA
 - iii. Attendance at staff and community meetings
 - iv. Preparation of public notices and notices of increased base flood elevations
 - v. Creation of reports proposing appropriate proactive and/or reactive strategies for maintaining public infrastructure for short term and/or sustained scenarios to ensure delivery of essential emergency services and/or reduction of flood elevations
 - vi. Development of reports summarizing methodology, field practices and results
 - vii. Assistance incorporating collected data into City's GIS system: integration, data management, conversion, staff training
 - viii. Reporting of any found illicit connections in a timely manner
 - ix. Providing engineering advice and/or consultation
 - x. Development and execution of flood-related exercises or trainings
 - xi. Assistance with the development of engineering plans and specifications for capital improvement projects
 - xii. Liaison and/or coordination with partnering agencies
 - xiii. Property and/or infrastructure damage assessments

2. SUPPLEMENTAL SERVICES

Any work requested by the Owner that is not included in the Basic Services will be classified as Supplemental Services. Supplemental Services shall include, but are not limited to the following:

- a. Coordination meetings, workshops, or presentations beyond those included in the basic services
- b. Civil, Agricultural, or Water Resources Engineering Services
- c. Assistance with disaster management and recovery
- d. Assistance with hazard mitigation planning
- e. Expert witness testimony and/or relative services in connection with litigation
- f. Environmental, ecological, or biological services
- g. Geotechnical or geology services
- h. GIS or CAD services

3. REIMBURSABLE EXPENSES

Project specific reimbursable expenses and charges shall include the following:

- a. Direct labor charges, in accordance with the hourly employee bill rates described in Attachment F
 - a. For overtime, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.
 - b. For expert witness testimony and related services in connection with litigation, the Owner agrees to reimburse the Engineer for 1.5 times the direct labor rates in Attachment F.



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- b. Subcontractor expenses, billed at cost + 10%.

ATTACHMENT B

Owner: City of Chattanooga, Tennessee

Engineer: **Lamar Dunn & Associates, Inc. d.b.a. LDA Engineering**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

COMPENSATION

For the services covered by this Agreement, the Owner agrees to pay the Engineer as follows:

1. For the Basic Services described in Attachment A, payments shall be made monthly in amounts which are consistent with the amount of engineering services provided, as determined by the Engineer, and in accordance with the Work Order, agreed-upon between the Owner and the Engineer.
2. Compensation for Supplemental Services shall be made on a lump sum basis, when authorized in writing by the Owner. The maximum limit for each item of additional service shall be established individually and specifically agreed to by the Owner and the Engineer in the Work Order.
3. Hourly rates for each classification are defined by the Engineer's rate schedule, in Attachment F. Overtime, when authorized by the Owner and agreed-upon by the Owner and the Engineer at the time of execution of the Work Order, shall be billed at 1.5 times the rates listed in Attachment F. Expert witness testimony and other services relating to litigation will also be billed at 1.5 times the rates listed in Attachment F.
4. Reimbursable charges for Basic Services will be limited to Subcontractor expenses, and will be considered for the amount of actual costs times a markup of 10%. Reimbursable charges for Supplemental Services will be agreed-upon between the Engineer and the Owner in the Work Order, as a part of the lump sum fee.
5. The entire amount of each statement shall be due and payable 30 days after receipt by the Owner.
6. The engineer shall keep records on the basis of generally accepted accounting practices of costs and expenses which records shall be available for inspection at all reasonable times.
7. Invoices shall be submitted using the Standard Invoice form, Attachment G.



ATTACHMENT C

Owner: City of Chattanooga, Tennessee

Engineer: **Lamar Dunn & Associates, Inc. d.b.a. LDA Engineering**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

OWNER'S RESPONSIBILITIES

The Owner will furnish, as required by the work and not at the expense of the Engineer, the following:

1. Owner will provide electronic copies of all codes, policies, standards, and ordinances as may be needed.
2. Examine all plans, reports, memorandums, inquiries, and other documents submitted by the Engineer and render decisions promptly to prevent delay to the Engineer.
3. Designate one City of Chattanooga employee as the Owner representative with respect to all services to be rendered under this agreement. This individual shall have the authority to transmit instructions, receive information and to interpret and define the Owner's policies and decisions pertinent to the Engineer's services.
4. Issue Notice(s) to proceed to the Engineer for each phase of the services.
5. Owner will grant or obtain free access to City facilities for all equipment and personnel necessary for the Engineer to perform the work set forth in this Agreement.
6. Owner will lead inter-department coordination for the project and provide timely consolidated reviews and transmittals of project deliverables.
7. City Attorney will review policy recommendations for amendments to the city code.
8. Owner will make all arrangements to host and facilitate steering, advisory and stakeholders meetings and provide meeting notes.
9. Owner will develop, deploy, and maintain a website and/or other means to inform all interested parties including the general public of the project activities and work products.
10. Owner will provide to Engineer, the most updated GIS data for use in flood studies and other engineering.



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ATTACHMENT D

Owner: City of Chattanooga, Tennessee

Engineer: **Lamar Dunn & Associates, Inc. d.b.a. LDA Engineering**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

SUPPLEMENTAL AGREEMENTS

Owner and Engineer agree that the following communications, representations, and agreements by Engineer relating to the subject matter of the Agreement are hereby incorporated into and shall become a part of the Agreement.

NONE



ATTACHMENT E

Owner: City of Chattanooga, Tennessee

Engineer: **Lamar Dunn & Associates, Inc. d.b.a. LDA Engineering**
Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

PROJECT SCHEDULE

Owner and Engineer recognize that time is of the essence of each Work Order and that Owner will suffer financial loss if the work is not completed within the times stipulated therein, plus any extensions granted by the Owner. Accordingly, Engineer will have established time intervals, in calendar days, for submittals at various states of the Work Order, as described in each Work Order, and agreed-upon by the Engineer and Owner. As each actual submittal date occurs, Engineer shall meet with Owner (in-person or teleconference) to discuss the progress of the work and the actual submittal date shall be documented. If Work Order is behind schedule, the reason shall be recorded. Engineer shall not be responsible for the time required by the Owner's representative to review Engineer's submittal. When review is complete, Owner shall, in writing, authorize Engineer to proceed to the next submittal date. After final submittal date, Engineer and Owner shall meet to evaluate Engineer's performance with regard to the Work Order schedule. An Engineer's Project Performance Evaluation form shall be completed and acknowledged by both the Owner and Engineer. Completed form shall be retained by Owner for a period of seven years and reviewed prior to consultant selection for City projects. Past performance shall be accounted for on the evaluation sheet used to rank consultants during the interview process.

It is understood and agreed that the Engineer shall start the performance of Basic or Supplemental Services as described in each Work Order within 10 days of receipt of a written Notice to Proceed and shall complete the work in accordance with the Work Order times set forth therein.



CITY OF CHATTANOOGA
 STANDARD AGREEMENT FOR ENGINEERING SERVICES

SOP 2003-9
 Date of Issue 10-16-03
 Rev. 03-03-11

ATTACHMENT F

Owner: City of Chattanooga, Tennessee

Engineer: **Lamar Dunn & Associates, Inc. d.b.a. LDA Engineering**
 Project Number & Name: **S-12-008-101 On-Call Modeling & Floodplain Analysis Services**

RATE SCHEDULE

Sr. Principal/Sr. Technologist.....	\$195.00/hr
Principal/Principal Engineer/Principal Scientist.....	\$175.00/hr
Sr. Engineer/Sr. Landscape Architect/Sr. Scientist.....	\$155.00/hr
Project Engineer/Project Scientist/Planner	\$130.00/hr
Staff Engineer/Staff Landscape Architect/Staff Scientist.....	\$115.00/hr
Sr. CADD Designer/GIS Specialist	\$105.00/hr
Engineer Intern/Sr. Environmental Technician	\$ 95.00/hr
CADD Technician/Environmental Technician	\$ 85.00/hr
Sr. Project Administrator	\$ 85.00/hr
Project Administrator.....	\$ 75.00/hr
Administrative Professional	\$ 65.00/hr
Two-person survey crew.....	\$150.00/hr

Mileage \$ 0.565/mile
 Reimbursable Expenses \$ Actual Cost + 10%



ATTACHMENT G

STANDARD INVOICE

Indicates MANDATORY Item

CONSULTANT LETTERHEAD

ATTN: City Project Manager
REF:
CODE: Consultant Project Number
PO:

Provided by City

TERMS: Net 25 days
DUE: 08/01/03

INVOICE

Must be Sequential Number

City Project Manager Title
City of Chattanooga
Engineering Division/DRC
1250 Market Street, Suite 2100
Chattanooga TN 37402

Invoice Number 5
Dated 07/07/03

Invoice Must show Billing Period.

For Professional Services from May 31 to June 27, 2003

This Breakdown must list each item of the Contract.

Consultant Project No.	Description	Fee	Percent Work to Date	Amount Billed	Previous Billed	This Invoice Billed
C03009-01	01 - Design	\$51,500.00	LS 55%	\$28,325.00	\$18,540.00	\$9,785.00
	02 - Survey	\$15,700.00	LS 0%	\$0.00	\$0.00	\$0.00
C03009-02	Barton Avenue and Brown Acres Golf Course Design	\$20,000.00	CP 12%	\$2,391.02	\$2,033.00	\$358.02
C03009-03	Permitting/Easement Assistance	\$5,000.00	CP 6%	\$291.08	\$0.00	\$291.08
C03009-04	Bidding/Construction Assistance	\$10,000.00	CP 0%	\$0.00	\$0.00	\$0.00
C03009-05	Misc. As-Requested Services	\$5,000.00	CP 7%	\$363.85	\$0.00	\$363.85
	Total Contract Amount	\$107,200.00		\$31,370.95	\$20,573.00	
	TOTAL THIS INVOICE					\$10,797.95

Must Match Contract Amount

Prior invoices	\$20,573.00
This invoice	\$10,797.95
Payments	-\$20,573.00
Balance on Account	\$10,797.95

NOTE

- There shall be only one invoice per contract per billing period
- Any necessary details should be attached as backup