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TUESDAY, AUGUST 14, 2018
CITY COUNCIL REVISED AGENDA
6:00 PM

- I. Call to Order.
- II. Pledge of Allegiance/Invocation (Councilman Gilbert).
- III. Minute Approval.
- IV. Special Presentation.
- V. **Ordinances – Final Reading:**

PUBLIC WORKS AND TRANSPORTATION

Transportation

- a. [MR-2018-128 Collier Construction/ASTIR, LLC \(Abandonment\). An ordinance closing and abandoning a portion of the 1500 block of Sinclair Avenue at 1531 Sinclair Avenue to allow for construction of a future development, detailed on the attached map, subject to certain conditions. \(District 7\) \(Recommended for approval by Transportation and Planning\)](#)
 - b. [An ordinance amending Chattanooga City Code, Part II, Chapter 11, Section 11-381 relating to vending on public park property, and Chapter 20, Article VII, Sections 20-146 through 20-153 relating to Mobile Food Units.](#)
- VI. **Ordinances – First Reading:**

ECONOMIC AND COMMUNITY DEVELOPMENT

- a. [An ordinance amending Chattanooga City Code, Part II, Chapter 11, Article XVI, Section 11-456, relative to the Small Business Incentive Grant Program.](#)
- b. [An ordinance amending Chattanooga City Code Code, Part II, Chapter 11, Article XVIII, Sections 11-477 and 11-478, relative to the Innovation District Grant Program.](#)

PLANNING

- c. 2018-133 John Cofer (R-1 Residential Zone to E-RD-2 Urban Edge Residential Detached 2 Stories Maximum). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 722 Spears Avenue, more particularly described herein, from R-1 Residential Zone to E-RD-2 Urban Edge Residential Detached 2 Stories Maximum. (District 1) (Recommended for approval by Planning and Staff)

- d. 2018-137 Fickling & Company, Inc./Ross Rabun (Amend Conditions). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to amend Condition No. 1 of Ordinance No. 13269 of previous Case No. 2017-184 on property located at 6038 Hixson Pike to require Type C Buffers, more particularly described herein, subject to certain conditions. (District 3) (Recommended for approval by Planning and Staff)

- e. 2018-118 Emerson Russell (R-1 Residential Zone to C-2 Convenience Commercial Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 8430 East Brainerd Road, more particularly described herein, from R-1 Residential Zone to C-2 Convenience Commercial Zone, subject to certain conditions. (District 4) (Recommended for approval by Planning and recommended for denial by Staff)

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- f. 2018-140 Pat Neuhoff (R-4 Special Zone to C-4 Planned Commerce Center Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone part of a property located at 7502 Shallowford Road, more particularly described herein, from R-4 Special Zone to C-4 Planned Commerce Center Zone, subject to certain conditions. (District 4) (Recommended for approval by Planning and recommended for denial by Staff)

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- g. 2018-132 Richard McCoy (Lift Conditions). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to lift Condition No. 1 of Ordinance No. 11255 of previous Case No. 2001-193 off property located at 4411 Jersey Pike and amending Condition No. 9, more particularly described herein, subject to certain conditions. (District 5) (Recommended for approval by Planning and Staff)

2018-132 Richard McCoy (Lift Conditions). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to lift Condition No. 9 of Ordinance No. 11255 to allow height of 32.5' feet instead of 25' feet of previous Case No. 2001-193 off property located at 4411 Jersey Pike, more particularly described herein. (Applicant Version)

- h. 2018-119 Patrick Moore (R-4 Special Zone to C-5 Neighborhood Commercial Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 4393 Benton Drive, more particularly described herein, from R-4 Special Zone to C-5 Neighborhood Commercial Zone, subject to certain conditions. (District 5) (Recommended for approval by Planning and recommended for denial by Staff)

2018-119 Patrick Moore (R-4 Special Zone to C-5 Neighborhood Commercial Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 4393 Benton Drive, more particularly described herein, from R-4 Special Zone to C-2 Convenience Commercial Zone. (Applicant Version)

- i. 2018-139 Junior Food Store/Kirby Yost (R-2 Residential Zone to C-2 Convenience Commercial Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 6302 Highway 58, more particularly described herein, from R-2 Residential Zone to C-2 Convenience Commercial Zone. (District 6) (Recommended for approval by Planning and Staff)

- j. 2018-112 Crown Interiors/Shannon Kelly (R-1 Residential Zone to M-1 Manufacturing Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone properties located in the 6200 block of Vance Road, more particularly described herein, from R-1 Residential Zone to M-1 Manufacturing Zone, subject to certain conditions. (District 6) (Recommended for denial by Planning and Staff) (Recommend for approval of a portion by Planning and Staff) (Deferred from 7/10/18)

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- k. 2018-129 Danbury Properties % Fidel Fonseca (R-1 Residential Zone to R-2 Residential Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone properties located in the 2900 block of 15th Avenue, more particularly described herein, from R-1 Residential Zone to R-2 Residential Zone. (District 7) (Recommended for approval by Planning and Staff)
- l. 2018-130 Vincent E. Spann (R-1 Residential Zone to R-4 Special Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 3210 4th Avenue, more particularly described herein, from R-1 Residential Zone to R-4 Special Zone, subject to certain conditions. (District 7) (Recommended for approval by Planning and recommended for denial by Staff)

2018-130 Vincent E. Spann (R-1 Residential Zone to R-4 Special Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 3210 4th Avenue, more particularly described herein, from R-1 Residential Zone to R-4 Special Zone. (Applicant Version)

- m. 2018-134 Calvin Ball (R-1 Residential Zone to R-T/Z Residential Townhouse/Zero Lot Line Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone properties located at 1506 and 1510 East 12th Street, more particularly described herein, from R-1 Residential Zone to R-T/Z Residential Townhouse/Zero Lot Line Zone, subject to certain conditions. (District 8) (Recommended for approval by Planning and Staff)

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- n. 2018-142 Miken Development, LLC (M-1 Manufacturing Zone to UGC Urban General Commercial Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 1601 South Holtzclaw Avenue, more particularly described herein, from M-1 Manufacturing Zone to UGC Urban General Commercial Zone. (District 8) (Recommended for approval by Planning and Staff)

- o. An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, Article II; Article V, Sections 38-183, 38-203, and 38-263; and Article XVI, Sections 38-706, 38-725, and 38-736 relating to Home Occupation and Catering Service. (Recommended for approval by Planning and recommended for denial by Staff)

An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, Article II; Article V, Sections 38-183, 38-203, and 38-263 relating to Home Occupation and Catering Service. (Recommended for approval by Staff and the Office of the City Attorney)

VII. **Resolutions:**

ECONOMIC AND COMMUNITY DEVELOPMENT

- a. A resolution declaring surplus of property located at 1001 Lindsay Street, Tax Map No. 145D-X-005, and authorizing the transfer of the parcel to the Chattanooga Downtown Redevelopment Corporation with the continuation of maintenance, janitorial, or related services as provided by employees of the City of Chattanooga for a period not to exceed nine (9) months. (District 8) (Deferred from 7/31/18)
- b. A resolution declaring surplus of property located at 274 E. 10th Street, Tax Map No. 145E-C-003, and authorizing the transfer of the parcel to the Chattanooga Downtown Redevelopment Corporation with the continuation of maintenance, janitorial, or related services as provided by employees of the City of Chattanooga for a period not to exceed nine (9) months. (District 8) (Deferred from 7/31/18)
- c. A resolution declaring surplus of property located at 100 E. 11th Street, Tax Map No. 145E-B-009, and authorizing the transfer of the parcel to the Chattanooga Downtown Redevelopment Corporation with the continuation of maintenance, janitorial, or related services as provided by employees of the City of Chattanooga for a period not to exceed nine (9) months. (District 8) (Deferred from 7/31/18)
- d. A resolution authorizing the Administrator for the Department of Economic and Community Development to enter into an agreement with Machinic, LLC owned by Jason Kelley Johnson for conceptual design services for the Patten Parkway Artwork and Innovation District Artistic Plan, in the amount of \$40,000.00.

MAYOR'S OFFICE

- e. A resolution to confirm the Mayor's re-appointments of Carl Levi and Daisy Madison to the General Pension Board.
- f. A resolution to confirm the Mayor's appointment of Carol White to the Tree Advisory Commission.

- g. [A resolution to confirm the Mayor's re-appointments of Sally Wencel, Craig Walker, and Hill Craddock to the Tree Advisory Commission.](#)
- h. [A resolution to confirm the Mayor's appointment of Brooke Bradley-King to the Beer and Wrecker Board for District 1 with a term expiring on July 31, 2021.](#)

PLANNING

- i. [**A resolution authorizing and directing the Clerk of the Council to advertise for public hearing on August 28, 2018, the deannexation of certain tracts adjacent to the current city limits which are located at 6403 and 6403B Middle Valley Road, within the City of Chattanooga, in Hamilton County, Tennessee. \(District 3\) \(Added by permission of Chairman Smith and Vice-Chairman Oglesby\)**](#)

POLICE

- j. [A resolution authorizing the Chief of the Chattanooga Police Department to enter into an agreement with Tritech Software Systems for annual support and maintenance of the RMS system for the period of July 1, 2018 through June 30, 2019, for an amount not to exceed \\$264,598.54.](#)
- k. [A resolution authorizing the Chief of the Chattanooga Police Department to enter into an agreement with Applied Concepts, Inc. for sixty-eight \(68\) stalker radars for traffic enforcement, for an amount not to exceed \\$114,499.76.](#)
- l. [A resolution authorizing the Chief of the Chattanooga Police Department to enter into an agreement with Data Driven for Watson Field Reporting Support and Maintenance for the period of July 1, 2018 through June 30, 2019, for an amount not to exceed \\$58,194.00.](#)

PUBLIC WORKS AND TRANSPORTATION

Public Works

- m. [A resolution authorizing the Administrator for the Department of Public Works to enter into an agreement for the closure/post closure plan for the City of Chattanooga Solid Waste Processing Facility with the State of Tennessee, Division of Solid Waste Management, for an amount not to exceed \\$37,137.44. \(Revised\)](#)
- n. [A resolution to amend Resolution No. 29117, as adopted on July 25, 2017, relative to the agreement for the closure/post closure plan for the City landfill with the State of Tennessee, Division of Solid Waste Management, by deleting "an amount not to exceed \\$1,657,448.95" and substituting in lieu thereof "an amount not to exceed \\$1,619,791.71".](#)

Revised Agenda for Tuesday, August 14, 2018

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- o. [A resolution to amend Resolution No. 29118, as adopted on July 25, 2017, relative to the agreement for the closure/post closure plan for the City landfill, Lateral Expansion Area 3, with the State of Tennessee, Division of Solid Waste Management, by deleting “an amount not to exceed \\$7,572,618.31” and substituting in lieu thereof “an amount not to exceed \\$7,708,925.44”.](#)
- p. [A resolution to amend Resolution No. 29119, as adopted on July 25, 2017, relative to the agreement for the closure/post closure plan for the Summit Sanitary Landfill with the State of Tennessee, Division of Solid Waste Management, by deleting “an amount not to exceed \\$1,848,183.34” and substituting in lieu thereof “an amount not to exceed \\$1,710,409.68”.](#)

VIII. Purchases.

IX. Other Business.

X. Committee Reports.

XI. Recognition of Persons Wishing to Address the Council on Non-Agenda Matters.

XII. Adjournment.

TUESDAY, AUGUST 21, 2018
CITY COUNCIL AGENDA
6:00 PM

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[An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, Article II; Article V, Sections 38-183, 38-203, and 38-263 relating to Home Occupation and Catering Service. \(Recommended for approval by Staff and the Office of the City Attorney\)](#)

6. **Ordinances – First Reading: (None)**

7. **Resolutions:**

CITY COUNCIL

- a. [A resolution expressing the desire of the City of Chattanooga, Tennessee, to coordinate with Hamilton County, Tennessee, and Volkswagen Group of America, Incorporated, if appropriate, for the creation of suitable memorials to honor the outstanding services of former Hamilton County Executive Dalton Roberts and former Hamilton County Mayor Claude T. Ramsey.](#)

ECONOMIC AND COMMUNITY DEVELOPMENT

- b. [A resolution authorizing the Mayor to execute the First Agreement to Exercise Option to Renew with Chattanooga Goodwill Industries, Inc., in substantially the form attached, for a portion of the property located at 1815 E. Main Street, Tax Map No. 156B-D-009, for an additional term of one \(1\) year at the rate of \\$1.00 per year, for the continued operation of programs through the Chattanooga Furniture Bank. \(District 8\)](#)
- c. [A resolution to amend Resolution No. 29515 for abatement services by Grass Buster Lawn Maintenance, for an amount not to exceed \\$260,000.00.](#)

MAYOR'S OFFICE

- d. [A resolution confirming the Mayor's appointment of Lee Brock to the Board of Construction Appeals.](#)
- e. [A resolution confirming the Mayor and City Council's joint appointment of Phillip A. Noblett as the City Attorney, pursuant to Section 3.62 of the City Charter.](#)

POLICE

- f. [A resolution authorizing the Chattanooga Police Department to accept a donation of tactical/medical bags from the Fraternal Order of Police and the International Brotherhood of Police, for a total amount of \\$3,967.28.](#)

PUBLIC WORKS AND TRANSPORTATION

Public Works

- g. [A resolution authorizing the Administrator for the Department of Public Works to enter into an agreement with the Tennessee Aquarium, a non-profit agency, for the annual maintenance and operation of water features located at the Aquarium Plaza, for an initial term of three \(3\) years and renewal for successive three \(3\) year periods, for an annual cost not to exceed \\$163,500.00. \(District 7\)](#)
 - h. [A resolution authorizing the approval of Change Order No. 1 for Progressive Maritime Services, LLC of Hixson, TN, Contract No. R-16-008-201, Ross's Landing Water Cannon Pump Re-Installation, for an increase in the amount of \\$6,000.00, for a revised contract amount not to exceed \\$26,500.00. \(District 7\)](#)
- 8. Purchases.
 - 9. Other Business.
 - 10. Committee Reports.
 - 11. Recognition of Persons Wishing to Address the Council on Non-Agenda Matters.

Revised Agenda for Tuesday, August 14, 2018

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12. Adjournment.

Proposed City Council Purchases 8-14-18

DEPARTMENT REQUISITION NO.	ITEM DESCRIPTION	BIDS REQUESTED	BIDS RETURNED	LOWEST/BEST BIDDER	COST	FUND NAME	NOTES
PO545892 Public Works	Increase to Authorized Expenditure for Blanket Contract, Wrecker/Towing & Recovery Services, Fleet Management Division, Public Works Department	-	-	Mostellers Wrecker Inc. 2105 East 24th St. Place Chattanooga, TN 37407	Revised Estimate \$55,000. Annually	General Fund	Increase to Authorized Expenditure for Blanket Contract, Wrecker/Towing & Recovery Services - Fleet Management Division - Public Works Department. The change order will increase the estimated annual expenditure amount from \$40,000. to \$55,000. due to the amount of wrecker services being used for Police investigations of criminal acts.
PO547956 Public Works	Increase to Authorized Expenditure for Blanket Contract, Programmable Logic Controller ("PLC") Services, Waste Resource Division, Public Works Department	-	-	Adman Electricial Company Inc. 2311 E. 28th Street Chattanooga, TN 37407	Revised Estimate \$800,000. Annually	Interceptor Sewer Operations	PO 547956 - Increase to Authorized Expenditure for Blanket Contract for Programmable Logic Controller ("PLC") Services - Waste Resource Division - Public Works Department. The change order will increase the estimated annual expenditure amount from \$500,000. to \$800,000. for PLC support for critical equipment functions due to revised projected equipment renovation.
R171900 Public Works	Two (2) New Blanket Contracts for GIS Application Support , GIS System Database Division, Public Works Department	11	4	Wood Enviroment & Infrastructure Solutions, Inc. 736 Market Street, Suite 1510 Chattanooga, TN 37402 and NuOrigin Systems, Inc. 128 Holiday Court, Suite 126 Franklin, TN 37067	Total Estimated \$140,000. Annually	General Fund	New Blanket Contracts for GIS Application Support - GIS System Database Division - Public Works Department. The City of Chattanooga issuing two (2) blanket contracts for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. There were eleven (11) direct bid solicitations and we received four (4) responses in the publicly advertised bid proceedings.
R170823 Public Works	Two (2) New Blanket Contracts for Grounds Maintenance for City Park Levees & Greenway, Parks Division, Public Works Department	25	4	CityGreen Services 206 Merrlman Avenue Chattanooga, TN 37415 and Special Touch Lawn Care 4608 Woodmere View Circle Chattanooga, TN 37411	Total Estimated \$31,000. Annually	General Fund	Two (2) New Blanket Contracts for Grounds Maintenance for City Park Levees & Greenway - Parks Division - Public Works Department. The City of Chattanooga is issuing two (2) blanket contracts for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. There were twenty-five (25) direct bid solicitations and we received four (4) responses in the publicly advertised bid proceedings.



City of Chattanooga

Mayor Andy Berke

August 8, 2018

Mr. Justin Holland
Administrator, Public Works Department
Waste Resource Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

Subject: R159392 / Blanket PO No. 545892 – Wrecker/Towing & Recovery Services
– Fleet Management Division – Public Works Department

Dear Mr. Holland:

Council approval is recommended to issue Change Order 1 to the subject contract. The change order will increase the estimated annual expenditure amount from \$40,000.00 to \$55,000.00. This is due to the amount wrecker services being used for Police investigations of criminal acts. Blanket PO No. 545892 is with Mostellers Wrecker, Inc, 2105 East 24th Street Place, Chattanooga, TN 37407.

This contract change with Fleet Management Division and Public Works increases the total contract by \$15,000.00 and is necessary for the above reasons.

Original Contract (Council approved October 3, 2018)	\$ 40,000.00
Change Order 1 Increase Amount	\$ 15,000.00
New Annual Expenditure Amount	\$ 55,000.00

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Wrecker/Towing & Recovery Services

I recommend issuing Change Order 1 to increase the present contract amount by \$55,000.00. City Wide Services and Public Works has requested and approved this change.

Respectfully yours,



**Bonnie Woodward
Director of Purchasing**

BW/mlm

Attachments

Purchase Order BLANKET



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

V E N D O R	Vendor Number: Vendor Alternate ID: 612132
	Mostellers Wrecker Inc 2105 East 24th St Place Chattanooga, TN 37407

PO Date: 06-OCT-17 Buyer: Mark McKeel FOB: DESTINATION Terms: Immediate	Purchase Order Number 545892 INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.
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S H I P T O	
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I N V O I C E	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402
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Requestor		Requisition Number		Bid Number	
Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
Requisition / Bid# No.: 159392 / 304871 Ordering Dept.: Fleet Management, Public Works Buyer: Mark McKeel Phone No.: 423-643-7236 Items Being Purchased: Wrecker/Towing & Recovery Services (per specifications)					
ATTACHMENTS: City of Chattanooga (COC) Terms and Conditions posted on Website http://www.chattanooga.gov/purchasing/standard-terms-and-conditions If you can't download call buyer for a copy.					
This Shall Be A Twelve (12) Month Blanket Contract To Supply Towing and Recovery Services for Fleet Management.					
The Contract Term May Be Renewed For An Two (2) Twelve (12) Month Term Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein.					
***** Vendor Shall Hold Prices Firm for First (1st) Year of Contract *****					
Price Escalation Clause: If as a result of a general change in prices or discounts, the Contractor has changed prices to all of its customers, the price under this contract may be adjusted accordingly. Contractor may be requested to show proof of alleged price changes prior to approval of any price adjustments.					

***** NOTICE *****

This Purchase Order ("Agreement") is a binding agreement between the City of Chattanooga and the Vendor. This Purchase Order shall be governed by the following documents: (1) Purchase Order; (2) City of Chattanooga Purchase Order Standard Terms and Conditions; (3) Vendor's response to the bid or quotation; and (4) terms and conditions set forth in the bid or quotation, each of which is hereby incorporated herein by reference and becomes a part of this Agreement. In the event any conflict of terms arises, the terms controlling the Agreement shall be in the order provided hereinabove. This Purchase Order is valid only when signed or electronically approved by the Finance Officer.

Electronic approval is on record in the purchasing information system which asserts that unencumbered appropriation is available to meet the expenditure covered by this Purchase Order; and further authorizes payment upon proper certification of receipt of goods and/or services.

Purchase Order BLANKET



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

V E N D O R	Vendor Number: Vendor Alternate ID: 612132 Mostellers Wrecker Inc 2105 East 24th St Place Chattanooga, TN 37407
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PO Date: 06-OCT-17 Buyer: Mark McKeel FOB: DESTINATION Terms: Immediate	Purchase Order Number 545892 INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.
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S H I P T O	
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I N V O I C E	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402
--	--

Requestor		Requisition Number		Bid Number	
Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT.					
Purchase Order issued in accordance with Mostellers Wrecker, Inc. bid received on September 13, 2017 is hereby made part of this contract.					
City Council approved October 3, 2017					
Contract dates: October 10, 2017 to October 9, 2018					
Vendor Contact: Janie Parker Phone No.: 423-622-5313 Fax No.: 423-785-1015 E-mail: janie@mostellersinc.com					
The undersigned hereby agrees to perform the services in accordance with the terms and conditions as set forth in this Purchase Order, the City of Chattanooga Standard Terms & Conditions, and the bid or quotation.					
Representative: _____		Agreed to and accepted by: _____			
Title: _____		CITY OF CHATTANOOGA, TENNESSEE			
Date: _____		Name/Title: _____			
		Department: _____			

***** NOTICE *****

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Purchase Order BLANKET



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

V E N D O R	Vendor Number: Vendor Alternate ID: 612132
	Mostellers Wrecker Inc 2105 East 24th St Place Chattanooga, TN 37407

PO Date: 06-OCT-17 Buyer: Mark McKeel FOB: DESTINATION Terms: Immediate	Purchase Order Number 545892 INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.
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S H I P T O	
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I N V O I C E	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402
--	--

Requestor			Requisition Number		Bid Number
Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
1	Class I Vehicle Towing within thirty (30) Mile Radius; Basic Tow Charge	0.00	Each	\$ 48.0000	\$ 0.00
2	Price per Mile Over thirty (30) Miles; Class I Vehicles	0.00	Mile	\$ 1.2500	\$ 0.00
3	Class II Vehicle Towing within thirty (30) Mile Radius; Basic Tow Charge	0.00	Each	\$ 100.0000	\$ 0.00
4	Price per Mile Over thirty (30) Miles; Class II Vehicles	0.00	Mile	\$ 1.8500	\$ 0.00
5	Class III Vehicle Towing within thirty (30) Mile Radius; Basic Tow Charge	0.00	Each	\$ 100.0000	\$ 0.00
6	Price per Mile Over thirty (30) Miles; Class III Vehicles	0.00	Mile	\$ 2.0000	\$ 0.00
7	Price for Tow with Landoll Trailer (per Hour)	0.00	Hour	\$ 275.0000	\$ 0.00
8	Class I Vehicle Recovery After thirty (30) Minutes at Site; Winch/Work Time (per Hour)	0.00	Hour	\$ 100.0000	\$ 0.00
9	Class II Vehicle Recovery After thirty (30) Minutes at Site; Winch/Work Time (per Hour)	0.00	Hour	\$ 100.0000	\$ 0.00
10	Class III Vehicle Recovery After thirty (30) Minutes at Site; Winch/Work Time (per Hour)	0.00	Hour	\$ 100.0000	\$ 0.00

***** NOTICE *****

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Purchase Order BLANKET



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

V E N D O R	Vendor Number: Vendor Alternate ID: 612132 Mostellers Wrecker Inc 2105 East 24th St Place Chattanooga, TN 37407
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PO Date: 06-OCT-17 Buyer: Mark McKeel FOB: DESTINATION Terms: Immediate	Purchase Order Number 545892 INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.
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S H I P T O	
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I N V O I C E	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402
--	--

Requestor			Requisition Number		Bid Number
Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
11	Class I Vehicle Stand-By Time After thirty (30) Minutes on Site (per Hour)	0.00	Hour	\$ 100.0000	\$ 0.00
12	Class II Vehicle Stand-By Time After thirty (30) Minutes on Site (per Hour)	0.00	Hour	\$ 100.0000	\$ 0.00
13	Class III Vehicle Stand-By After thirty (30) Minutes on Site (per Hour)	0.00	Hour	\$ 100.0000	\$ 0.00

TOTAL: \$.00

***** NOTICE *****

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City of Chattanooga

Mayor Andy Berke

August 8, 2018

Mr. Justin Holland
Administrator, Public Works Department
Waste Resource Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

**Subject: R165391 / Blanket PO No. 547956 – Programmable Logic Controller
("PLC") Services – Waste Resource Division – Public Works Department**

Dear Mr. Holland:

Council approval is recommended to issue Change Order 1 to the subject contract. The change order will increase the estimated annual expenditure amount from \$500,000.00 to \$800,000.00. This is for the PLC support which is a highest level of instrumentation work. This type of work is critical because it controls all of the critical equipment functions. Waste Resource Division will be rebidding the blanket contract due to a revised projected equipment renovation plan. Blanket PO No. 547956 is with Adman Electrical Company Inc, 2311 E. 28th Street, Chattanooga, TN 37407.

This contract change with Waste Resource Division and Public Works increases the total contract by \$300,000.00 and is necessary for the above reasons.

Original Contract (Council approved March 20, 2018)	\$ 500,000.00
Change Order 1 Increase Amount	\$ 300,000.00
New Annual Expenditure Amount	\$ 800,000.00

Page 2

Boiler & Heat Exchanger Services

I recommend issuing Change Order 1 to increase the present contract amount by \$300,000.00. Waste Resource Division and Public Works has requested and approved this change.

Respectfully yours,



**Bonnie Woodward
Director of Purchasing**

BW/mlm

Attachments

Purchase Order BLANKET



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

V E N D O R	Vendor Number: Vendor Alternate ID: 118978
	Adman Electric Co Inc PO Box 3069 Chattanooga, TN 37404

PO Date: 16-MAR-18 Buyer: Mark McKeel FOB: DESTINATION Terms: Immediate	Purchase Order Number 547956 INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.
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S H I P T O	
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I N V O I C E	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402
--	--

Requestor		Requisition Number		Bid Number					
Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total</td> <td colspan="4"></td> </tr> </table>					Total				
Total									
Requisition No.: 165391 Ordering Dept.: Waste Resources Buyer: Geoffrey Hipp 423-643-7233 ***** DESCRIPTION: This shall be a twelve (12) month blanket contract for Programmable Logic Controller Services for the Waste Resources Division. The contract may be renewed for two (2) additional twelve (12) month terms under the same Terms and Conditions by Mutual Agreement. The City of Chattanooga and the Contractor may bilaterally extend the contract by Written Confirmation by both parties at least 30 days prior to the contract's current expiration date into any successive term as provided herein. ***** NOTES: The bid submitted by Adman Electric dated 3-1-18 is hereby made a part of this contract. Payment Terms: Net 30 days Delivery Terms: As Needed ***** PRICE ESCALATION CLAUSE: All prices under this contract shall remain fixed during each twelve (12) month contract period. If as a result of a general change in prices or discounts, the contractor has changed prices to all of its customers, then, at the time of contract renewal, the price under this contract may be adjusted accordingly after acceptance. All price increases must be justified by providing a copy of the prevailing labor wage or material cost increases. Prompt notice of price changes (increases or reductions) must be furnished to the Purchasing Agent at least 30 days prior to the requested effective date and the prices for these services/materials shall remain firm for twelve (12) months. The effective date of price increases shall be the date the Purchasing Agent accepts the price changes or the effective date of increase stated by contractor's notice to Purchasing Agent, whichever is later. ***** APPROVED BY CITY COUNCIL ON MARCH 13, 2018 ***** CONTRACT BEGINNING/ENDING DATES: 3-26-2018 TO 3-26-2019 ***** Vendor Contact: Joe Gibson Phone: 423-622-5103 Fax: 423-648-4216									

***** NOTICE *****

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Purchase Order BLANKET



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

V E N D O R	Vendor Number: Vendor Alternate ID: 118978
	Adman Electric Co Inc PO Box 3069 Chattanooga, TN 37404

PO Date: 16-MAR-18 Buyer: Mark McKeel FOB: DESTINATION Terms: Immediate	Purchase Order Number 547956 INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.
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S H I P T O	
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I N V O I C E	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402
--	--

Requestor			Requisition Number		Bid Number
Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
1	PLC Technician	0.00	Hour	\$ 58.3500	\$ 0.00
2	PLC Technician Overtime	0.00	Hour	\$ 83.2100	\$ 0.00
3	Certified Control Systems Technician	0.00	Hour	\$ 58.3500	\$ 0.00
4	Certified Control Systems Technician Overtime	0.00	Hour	\$ 83.2100	\$ 0.00
5	PLC Engineer	0.00	Hour	\$ 123.9000	\$ 0.00
6	PLC Engineer Overtime	0.00	Hour	\$ 185.8500	\$ 0.00
7	Planned Project Labor	0.00	Dollar	\$ 58.3500	\$ 0.00
8	Emergency Project Labor	0.00	Dollar	\$ 83.2100	\$ 0.00
9	Parts and Materials, 18% Markup	0.00	Dollar	\$ 1.0000	\$ 0.00

TOTAL: \$.00

***** NOTICE *****

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City of Chattanooga

Mayor Andy Berke

August 8, 2018

Mr. Justin Holland
Administrator, Public Works Department
GIS System Database Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

**Subject: 171900 / 305164 – GIS Application Support – GIS System Database Division –
Public Works Department**

Dear Mr. Holland:

Council approval is recommended to issue two (2) blanket contracts for GIS Application Support, GIS System Database Division, Public Works Department. The contract will be for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. The estimated annual expenditure for this contract is \$140,000.

The invitation to bid was sent to eleven (11) vendors as well as formally advertised. Bids were received from four (4) vendors shown below. Bids are retained on file in the Purchasing Office for your review upon request.

Vendors

Wood Environment & Infrastructure Solutions, Inc
NuOrigin Systems, Inc
KCI Technologies, Inc
Woolpert, Inc

Page 2

GIS Application Support

I recommend awarding the blanket contracts for GIS Application Support to Wood Environment & Infrastructure Solutions, Inc, 736 Market Street, Suite 1510, Chattanooga, TN 37402 and NuOrigin Systems, Inc, 128 Holiday Court, Suite 126, Franklin, TN 37067, as the best complete bid meeting specifications for the City of Chattanooga.

Respectfully yours,



**Bonnie Woodward
Director of Purchasing**

BW/mlm

Attachments

Requisition: Bid #: Description:	171900 305164 GIS Application Support	Item #	Item Description	Woodward Clyde & Associates Software Source, Inc.			Nucor System, Inc.			KCI Technologies, Inc.			Woodgett, Inc.		
				Unit Price	Hours	Extended Price	Unit Price	Hours	Extended Price	Unit Price	Hours	Extended Price	Unit Price	Hours	Extended Price
1				\$ 120.00	508	\$ 60,960.00									
1		1	Project Manager	\$ 150.00	50.8	\$ 7,620.00									
2		2	Solutions Architect	\$ 140.00	50.8	\$ 7,112.00									
3		3	GIS Application Developer	\$ 130.00	76.2	\$ 9,906.00									
4		4	Cityworks Analyst	\$ 120.00	254	\$ 30,480.00									
5		5	GIS Analyst	\$ 110.00	76.2	\$ 8,382.00									
1		1	Project Director	\$ 220.00	25.4	\$ 5,588.00									
2		2	Project Manager	\$ 205.00	50.8	\$ 10,414.00									
3		3	System Architect	\$ 200.00	50.8	\$ 10,160.00									
4		4	Senior GIS Developer	\$ 200.00	50.8	\$ 10,160.00									
5		5	Mid Level GIS Developer	\$ 165.00	76.2	\$ 12,573.00									
6		6	Junior GIS Developer	\$ 130.00	76.2	\$ 9,906.00									
7		7	Database Administrator	\$ 160.00	76.2	\$ 12,192.00									
8		8	Senior GIS Technician	\$ 150.00	50.8	\$ 7,620.00									
9		9	Junior GIS Technician	\$ 100.00	50.8	\$ 5,080.00									
1		1	Project Manager	\$ 165.00	48	\$ 7,920.00									
2		2	QA/QC Lead	\$ 120.00	30	\$ 3,600.00									
3		3	Technical Lead	\$ 145.00	40	\$ 5,800.00									
4		4	Geospatial Application Developer/Lead	\$ 160.00	30	\$ 4,800.00									
5		5	Application Developer	\$ 125.00	200	\$ 25,000.00									
6		6	Geospatial Information Management Lead	\$ 110.00	20	\$ 2,200.00									
7		7	GIS Analyst	\$ 90.00	20	\$ 1,800.00									
8		8	GIS Specialist	\$ 75.00	120	\$ 9,000.00									
Totals:				508	\$ 60,120.00	508	\$ 60,960.00	508	\$ 63,500.00	508	\$ 83,693.00				

NuOrigin Systems, Inc
128 Holiday Court, Suite 126
Franklin, TN 37067

GIS, Inc
2100 Riverchase Center
Suite 105
Birmingham, AL 35244

GEO Jobe GIS Consulting
256 Jackson Meadows Drive
Suite 100
Hermitage, TN 37076

KCI Technologies, Inc
7003 Chadwick Drive
Suite 343
Brentwood, TN 37027

Red Paw Technologies, Inc
6301 Calla Lily Circle NE
Albuquerque, NM 87111

Geographic Technologies Group
1202 Parkway Drive
Goldsboro, NC 27534

Digital Data Services, Inc
7550 W. Yale Avenue
Suite B-200
Denver, CO 80227

Byers Engineering Company
6285 Barfield Road
Atlanta, GA 30328

Woolpert, Inc
7635 Interactive Way
Suite 100
Indianapolis, IN 46278

Civic Engineering & IT, Inc
25 Lindsley Avenue
Nashville, TN 37210

InterDev Managed IT Security
2650 Holcomb Bridge Road
Suite 120
Alpharetta, GA 30022



wood.

City of Chattanooga, Tennessee GIS Application Support

Requisition / Bid No: R171900 / 305164

Submitted by:

Wood Environment &
Infrastructure Solutions, Inc.
736 Market Street, Suite 1510
Chattanooga, TN 37402
Phone No: 615-268-1554
Fax No: 615-781-0655

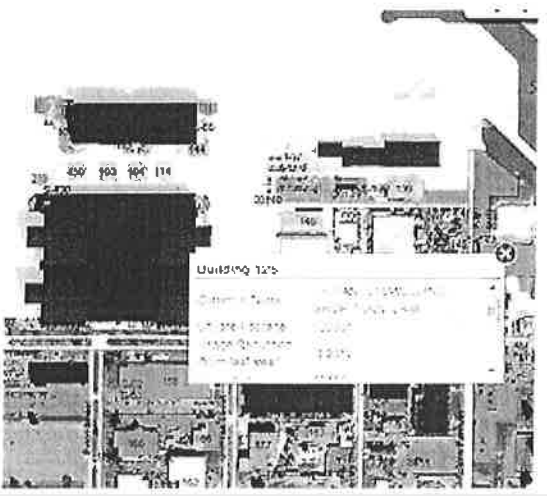
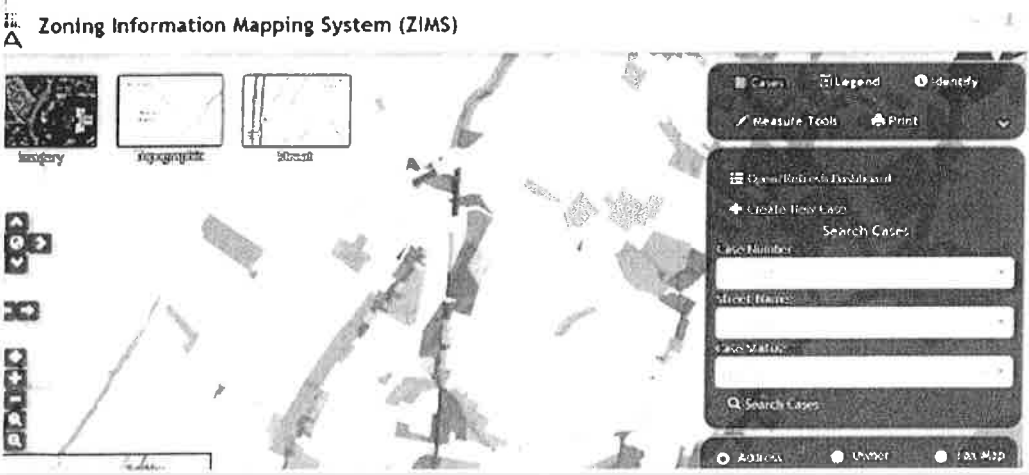
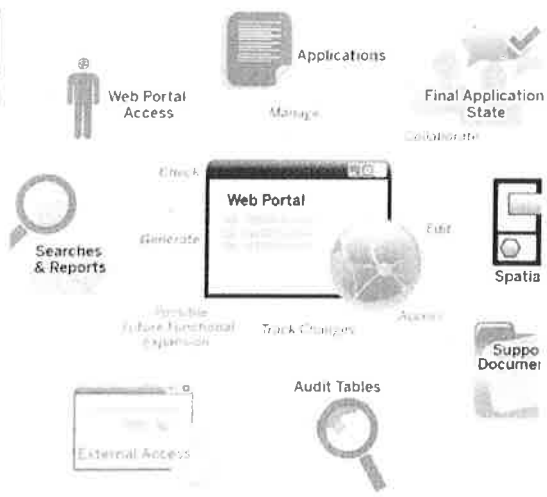
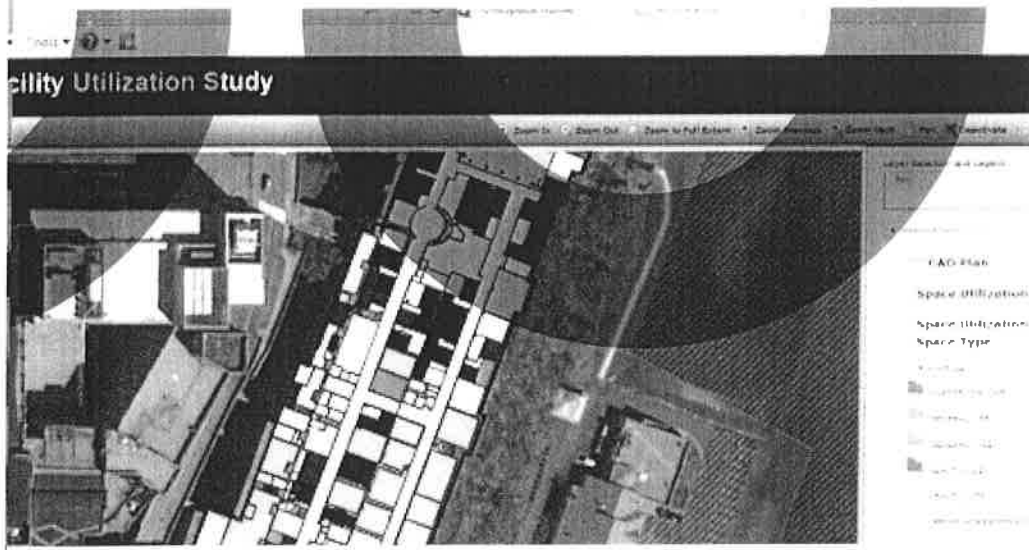
E-mail Address: brad.heilwagen@woodplc.com

Contact Person: Bradley Heilwagen, PE, CFM

Company Title: Water & Technology Services Branch Manager

Signature: Brad Heil

July 19, 2018





Wood Environment & Infrastructure Solutions, Inc.
736 Market Street, Suite 1510
Chattanooga, Tennessee 37402
T: 615-333-0630
www.woodplc.com

July 20, 2018

City of Chattanooga
Mark McKeel
Purchasing Department
101 E. 11th Street, Suite G13
Chattanooga, TN 37402

**RE: Bid for GIS Application Support, City of Chattanooga, Tennessee
(Requisition/Bid No: R171900/305164)**

Dear Mr. McKeel,

Wood Environment & Infrastructure Solutions, Inc (Wood), formerly known as Amec Foster Wheeler, respectfully submits the following Bid for GIS Application Support and supplemental qualifications information in response to the City's Bid Solicitation (Requisition/Bid No: R171900/305164). We are confident that after reading the enclosed bid and qualifications information, the City of Chattanooga will find Wood to be the leading information management and technology services consultant in the area, with unparalleled abilities and experience. The following highlights briefly present Wood's key strengths for this GIS Application Support project:

- Wood brings a cohesive, full service project team, with the skills, expertise, and depth-of-bench necessary for this project located in-house, under one roof, and within our Water & Technology Services Branch.
- Wood's Water & Technology Services Branch has a proven track record of applicable, recent projects, including ArcGIS mapping solutions developed for Chattanooga-Hamilton County Regional Planning Agency, City of Chattanooga Public Works Water Quality Program, Heathrow Airport Authority, and Gwinnett County (GA) GIS.
- Wood has demonstrated our commitment to the City by establishing a Chattanooga Office to support our numerous projects with you since 2013. In fact, as Wood's proposed project manager, I have managed the majority of City projects myself and have been co-located between our Nashville and Chattanooga offices since 2015. My project team has the flexibility to operate out of either office, depending on your project needs.

As a client-focused team that relentlessly delivers premier, professional services to clients across multiple geographies and industry segments, we pride ourselves in doing great work for our clients and making those clients look good in the eyes of their stakeholders. It is my belief that we have been, and will continue to do the same for the City of Chattanooga for years to come.

If you have any questions or need additional information, please contact me directly at 615-333-0630 or brad.heilwagen@woodplc.com.

Sincerely,

Wood Environment & Infrastructure Solutions, Inc.

Bradley Heilwagen, PE, CFM

Water & Technology Services Branch Manager
Proposed GIS Application Support Project Manager



Table of Contents

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B. Firm’s background and experience with similar projects.....	5
C. Key Personnel.....	12
D. Required Forms.....	14
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BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

**V
E
N
D
O
R**

RFQ

BID OPENING DATE AND TIME:

20-JUL-18 at 2:00 PM

BID NUMBER: 305164

BUYER:

PHONE #: (423) 643-7230

DELIVERY REQUIRED:

**M
A
I
L
T
O**

City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
Requisition/ Bid No : 171900 / 305164 Ordering Dept.: Public Works Buyer: Mark McKeel Phone No.: 423-643-7236 Items Being Purchased: GIS Application Support					
ATTACHMENTS: 1. Specifications (2 pages) 2. Affirmative Action Plan (2 pages) 3. Insurance Requirements (2 pages) 4. Iran Divestment Act Disclosure (1 page) 5. No Contact/ No Advocacy Notice (1 page) City of Chattanooga (COC) Terms and Conditions posted on Website http://www.chattanooga.gov/purchasing/standard-terms-and-conditions If you can't download call buyer for a copy					
This Shall Be A Twelve (12) Month Blanket Contract To Supply GIS Application Support as needed by agencies of the City of Chattanooga					
The Contract Term May Be Renewed For An Additional Two (2) Twelve (12) Month Terms Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein.					
.... Vendor Shall Hold Prices Firm for First (1st) Year of Contract					
Price Escalation Clause: If as a result of a general change in prices or discounts, the Contractor has changed prices to all of its customers, the price under this contract may be adjusted accordingly Contractor may be requested to show proof of alleged price changes prior to approval of any price adjustments.					
QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT					
... BID MUST BE RECEIVED NO LATER THAN... ... 2:00 PM EST ON JULY 20, 2018 ...					
PLEASE SUBMIT BIDS IN DUPLICATE INDICATING BID NUMBER (305164) ON OUTSIDE PACKAGING					
NOTE: ALL BIDS MUST BE SIGNED All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.					

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:
 20-JUL-18 at 2:00 PM
BID NUMBER: 305164

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

V E N D O R	RFQ
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M A I L T O	City of Chattanooga 101 East 11 th Street, Suite G13 Chattanooga, TN 37402
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Item	Class-Item	Quantity	Unit	Unit Price	Total
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Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references are not intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****

PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION

Company Name: Wood Environment & Infrastructure, Inc.

Address: 736 Market Street, Suite 1510
 Chattanooga, TN 37402

Phone/Toll-Free No.: 615-268-1554

Fax No.: 615-781-0655

Email Address: brad.heilwagen@woodplc.com

Contact Person's Name: Bradley Heilwagen, PE, CFM

Estimated Delivery: 12 months from contract signing

Minority-Owned Business N/A Small Business N/A Veteran N/A

Minority Woman-Owned Business N/A Disabled Veteran N/A

Woman-Owned Business N/A

**** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED - The undersigned offers the above quoted prices under the conditions contained herein

The City is Exempt from all Federal and State Tax. Bids will be received at the above mentioned address

COMPANY: Wood Environment & Infrastructure, Inc.

TERMS OF PAYMENT: Net 30

SIGNATURE: *Brad Heil*

TELEPHONE NUMBER: 615-268-1554

NAME AND TITLE: Bradley Heilwagen, Branch Manager

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:
 20-JUL-18 at 2:00 PM
BID NUMBER: 305164

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

V E N D O R	RFQ
--	-----

M A I L T O	City of Chattanooga 101 East 11 th Street, Suite G13 Chattanooga, TN 37402
--	---

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Application Support for GIS and geospatial tools	508	Hour		\$60,120
	Project Manager	48	Hour	\$165.00	\$7,920
	QAQC Lead	30	Hour	\$120.00	\$3,600
	Technical Lead	40	Hour	\$145.00	\$5,800
	Geospatial Application Developer Lead	30	Hour	\$160.00	\$4,800
	Application Developer	200	Hour	\$125.00	\$25,000
	Geospatial Information Management Lead	20	Hour	\$110.00	\$2,200
	GIS Analyst	20	Hour	\$90.00	\$1,800
	GIS Specialist	120	Hour	\$75.00	\$9,000
	Assumptions: 1) Quantity and total project estimate are based upon assumptions and project understanding. 2) Rates are subject to an annual escalation of 3%. 3) Rates are "all inclusive". Client will not be billed for any project expenses.				

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED - The undersigned offers the above quoted prices under the conditions contained herein

The City is Exempt from all Federal and State Tax. Bids will be received at the above mentioned address

COMPANY: Wood Environment & Infrastructure, Inc.

TERMS OF PAYMENT: Net 30

SIGNATURE:

TELEPHONE NUMBER: 615-268-1554

NAME AND TITLE: Bradley Heilwagen, Branch Manager



B. Firm's background and experience with similar projects

Wood's Water & Technology Services Branch includes a multi-skilled team of professionals with a wide range of geospatial and custom software development expertise. Located just a short drive away in Nashville, our GIS and Application Development teams are positioned to better serve our local clients, including the City of Chattanooga, working alongside our Infrastructure, Environmental, and Water Engineers & Scientists on a daily basis.

Geospatial Information Management

Our GIS team possesses a diverse set of geospatial skills and experience, including geodatabase design and ArcSDE administration, configuring geodatabase domains, authoring and publishing web-based map services, and expert-level skills with Esri's desktop and server platforms. Our GIS professionals are also experienced in establishing relational links between geospatial and non-geospatial data sources. We are skilled in geospatial analytics and utilizing custom geoprocessing tools. Our team of GIS professionals routinely develop maps and mapping products to specifications dictated by clients and FEMA. When given the flexibility, we have the ability to develop production-quality maps and map-based infographics that are both informative and visually striking.

- ✓ Esri GIS Desktop
- ✓ Esri ArcGIS Server
- ✓ JavaScript API
- ✓ ArcObjects
- ✓ REST enabled services
- ✓ WebAPI
- ✓ SQL Server
- ✓ Reporting Services
- ✓ ArcSDE
- ✓ MVC
- ✓ ASP.Net
- ✓ JavaScript
- ✓ Bootstrap
- ✓ HTML5

Geospatial Application Development

Our Application Development team are experts in designing, developing and implementing custom geospatial software for desktop, server, and mobile. We develop geospatial tools as stand-alone toolboxes, as well as more complex extensions to ArcGIS leveraging Python and ArcObjects. Our extensions are suites of individual tools and utilities that facilitate automation and expedite entire geospatial and/or engineering processes. Our developers are also experienced in building enterprise web-applications using Microsoft technologies and open-source frontend languages and libraries. We develop web application in .NET C# using the MVC design pattern with user interfaces developed in JavaScript and JQuery. For web-mapping applications with a geospatial component, our developers have expertise with Esri's JavaScript API. Our developers implement Microsoft SQL Server Reporting Services with several of our client's web-applications.

Vendor Requirements

The following four projects serve as references and demonstrate that Wood meets the requirements of having implemented at least two ArcGIS mapping solutions using the specified tools in facilities of similar size to City of Chattanooga, at least one installation within the last year, and two which have been operational for at least six months.

Project /Client	Contract Name & Title
Chattanooga Flood Prediction Tools (2018-Present) City of Chattanooga – Public Works 1250 Market Street, Chattanooga, TN 37402	Marty Hawkins, Senior Engineer mhawkins@chattanooga.gov 423-643-5865
Chattanooga WPA Ditch Project Phase 1 (2014-2017) City of Chattanooga – Public Works 1250 Market Street, Chattanooga, TN 37402	Marty Hawkins, Senior Engineer mhawkins@chattanooga.gov 423-643-5865
Integrated Zoning Solution (2016-2017) Chatt-Hamilton County-Regional Planning Agency (RPA) 1250 Market Street, Chattanooga, TN 37402	Karen Rennich, Deputy Director KRennich@chattanooga.gov 423-643-5903
Heathrow Expansion Project (2017-Present) Heathrow Airport Hounslow, Middlesex, UK	Nigel Stroud, Asset Information Manager Nigel.Stroud@heathrow.com +44 (0)7850-922-116
Gwinnett County GIS Program Development (2008-Present) Gwinnett County Board of Directors 75 Langley Drive, Lawrenceville, GA 30046	Eric Britt, GIS Manager Eric.Britt@gwinnettcounty.com 770-822-8032

Additional information about the scope of these projects, as well as additional descriptions of relevant project experience, can be found on the following pages.



Chattanooga Flood Prediction Tools

Chattanooga, TN

Client: City of Chattanooga – Public Works / POC: Marty Hawkins, PE (423) 643-5865

As part of an ongoing Chattanooga Flood Preparedness Program, Wood is currently developing a set of Custom Flood Prediction Tools for use during real-time flood events in the watersheds of Chattanooga. Wood application developers are leveraging hypothetical rainfall inputs used in support of the hydrologic and hydraulic modeling performed by the U.S. Army Corps of Engineers and Wood through the Chattanooga Flood Preparedness Program to build a tool that predicts upcoming flood actions levels using a minimum amount of freely available input data. The two-phase process, involving development of a manual calculation tools and a more advanced web-based auto-calculation application, uses MS SQL as a database backend and is being coded in MVC C#.NET and Esri JS 4.x.

- ✓ Esri ArcGIS Desktop
- ✓ Esri ArcGIS Server
- ✓ SQL Server
- ✓ MVC
- ✓ JavaScript

Given that this development began recently, a visual of the Chattanooga Tool is not yet available. That said, Wood created a similar application for the City of Nashville as part of their Situational Awareness for Flooding Events (SAFE) Program.

Chattanooga WPA Ditch Project Phase 1

Chattanooga, TN

Client: City of Chattanooga – Public Works / POC: Marty Hawkins, PE (423) 643-5865

Wood worked with the City of Chattanooga to prepare a condition assessment report, ranking system, and rehabilitation plan for the system of ditches within the City that were originally constructed by the Works Progress Administration (WPA) between the years of 1936 and 1941, and last assessed in 1975. As part of the initial phase, Wood was tasked with collecting field survey cross-sections at 200-foot intervals throughout 22 miles of the ditch system as well as performing field assessments of the current ditch conditions including photographic and video documentation at each cross-section, with the ultimate goal of updating the City's existing GIS data.

- ✓ Esri ArcGIS Desktop
- ✓ Esri ArcGIS Server
- ✓ JavaScript API
- ✓ REST enabled services
- ✓ SQL Server
- ✓ JavaScript
- ✓ HTML5

Wood recognized an opportunity to streamline the data collection effort by developing a mobile data collection application that could be used by the survey crew to collect the data needed for the condition assessment while in the field collecting the survey data. The application was developed and implemented on an Android based tablet which allows the field crew to collect all data, photos, and video necessary for a full conditions assessment with a single device. Data is collected in a disconnected mode (no cellular connection required), and can be uploaded when in cellular or wireless range. This permits the collection of data in remote areas where cellular coverage may not be available. Although GPS is active on disconnected devices, this particular application allows the user to choose whether to use the GPS location or to manually select a location by touching the map. This allows workflow to continue through periods when the GPS signal is weak or the accuracy is not sufficient. The data is synchronized to a centralized GIS server, secured by credentials, in a format that mimics the City's existing conveyance inventory GIS dataset and it is immediately available for review and editing. Pictures and videos are stored as attachments to each feature in the geodatabase.



Integrated Zoning Solution

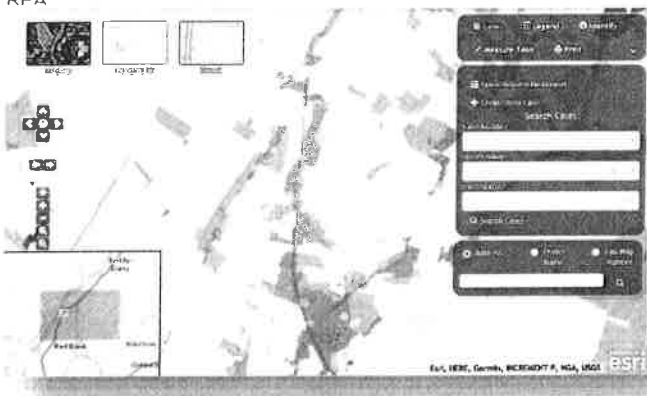
Hamilton County, TN

Client: Chattanooga-Hamilton County Regional Planning Agency / POC: Karen Rennich (423) 643-5903

The Chattanooga-Hamilton County Regional Planning Agency (RPA) manages zoning and permit information, comprised of both spatial and non-spatial data. RPA hired Wood to develop a custom web-based mapping solution to support their existing workflows. Wood used Esri's ArcGIS Server and JavaScript API to develop the Zoning Information Mapping System (ZIMS) to make the management of the zoning datasets and applications more efficient and intuitive for RPA staff. Geoprocessing services were incorporated to provide advanced functionality. The solution features an easy-to-use interface to update and manage zoning and permit information, houses both spatial and non-spatial data, and provides enhanced workflow management and reporting capabilities. The solution also features a user management component that allows RPA administrators to define user roles, associated privileges and task notifications. Automated emails prompt users for reviews, case editing and approvals as the application advances through the system. Wood deployed the solution to Hamilton County servers where it will be managed and maintained by RPA and Hamilton County IT staff.

- ✓ Esri GIS Desktop
- ✓ Esri ArcGIS Server
- ✓ JavaScript API
- ✓ WebAPI
- ✓ SQL Server
- ✓ Reporting Services
- ✓ MVC
- ✓ ASP.Net
- ✓ JavaScript
- ✓ HTML5

RPA Zoning Information Mapping System (ZIMS)



Heathrow Expansion Project (Common Data Environment)

London, England

Client: Heathrow Airport Authority / POC: Nigel Stroud +44 (0)7850-922-116

For the Heathrow Expansion Project, Wood created a single point of truth environment, known locally as the Common Data Environment (CDE) to view and manage data from various systems for the seven Integrated Design Team member companies. The systems include GIS, ProjectWise, AssetWise, SharePoint, and SalesForce. The system is secured using Single Sign On (SSO), allowing each company to come with their own credentials for seamless integration and not having separate credentials for each system. Access to Help Desk, help documents and workflow videos are also provided.

The GIS environment was build and configured as part of the project. Users are from the seven IDT member companies and the client Heathrow. User groups include focus area working groups requiring differentiated access rights at the database and service level. Data is segregated by working groups and a 'shared' environment exists where data is accessible across working groups.

- ✓ Esri GIS Desktop
- ✓ Esri ArcGIS Server
- ✓ JavaScript API
- ✓ REST enabled services
- ✓ WebAPI
- ✓ SQL Server
- ✓ ArcSDE
- ✓ MVC
- ✓ ASP.Net
- ✓ JavaScript
- ✓ Bootstrap
- ✓ HTML5



An ArcGIS Enterprise environment was configured in Microsoft Azure, leveraging SQL as a service as the database backend. ArcGIS Server and Portal was configured with SSO and Azure Active Directory (AD) to assign named users. The system has over 1000 users with read-only, editor, and administrator rights into the system.

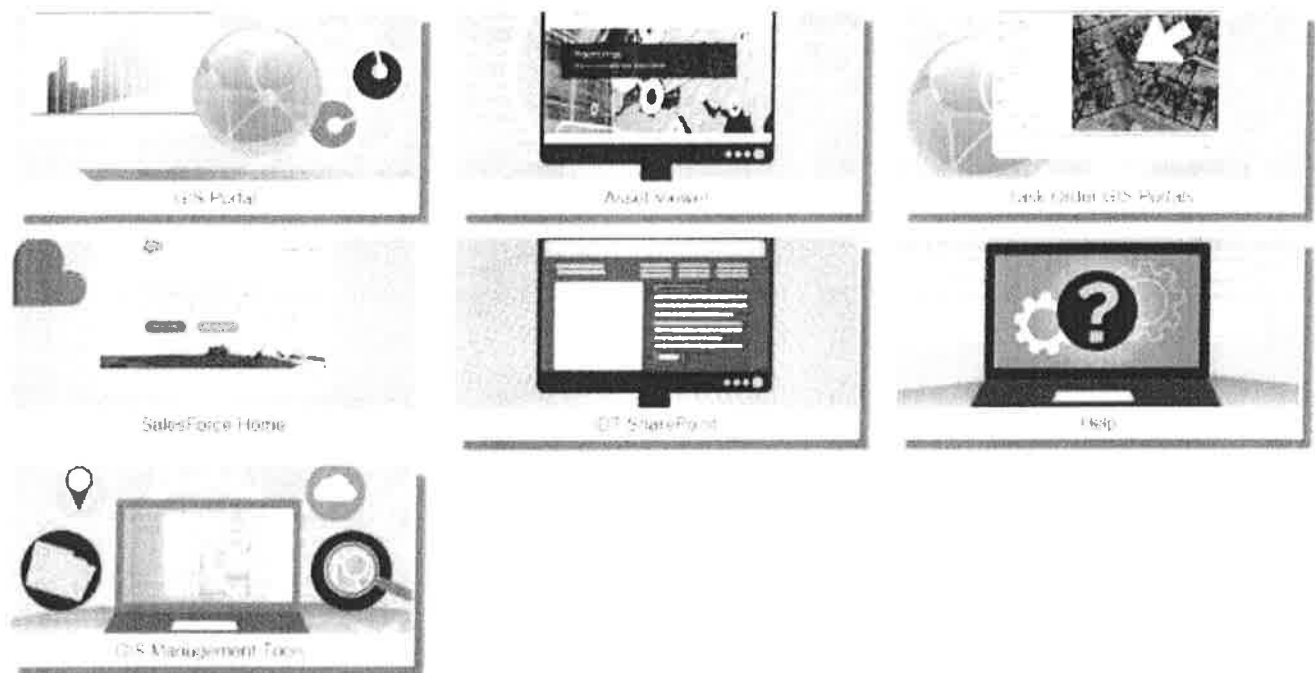
The GIS includes a non-standard data approval process. GIS Managers create the data schema and publish the services to ArcGIS portal. Editors consume the services to create and edit the data. Editing can be done via the web, in ArcGIS Desktop, or in ArcGIS Pro. Metadata is required for data to pass validation. The portal has workflow widgets allowing editors to push data to review. Each workflow step includes data validation. When the data is in review it cannot be edited. The reviewer can push the data back to edit or move to shared. When the data is shared it becomes accessible to all other GIS users outside the working group in read-only. For updates after a dataset is shared, it is moved back to the edit stage.

Heathrow

Making every journey better

Heathrow Expansion Programme - Common Data Environment

2016



Heathrow
Making every journey better





Gwinnett County GIS Program Development

Gwinnett County, GA

Client: Gwinnett County Board of Directors /POC: Eric Britt (770) 822-8032

Wood has supported Gwinnett County with their enterprise GIS efforts since 2008. Project efforts have spanned desktop, web GIS formats as well as multiple versions of GIS and Oracle back-end systems.

- ✓ Esri GIS Desktop
- ✓ Esri ArcGIS Server
- ✓ Arc Objects
- ✓ REST enabled services
- ✓ ArcSDE
- ✓ ASP.Net

Wood developed the County's OnPoint web-mapping system based on the requirements for each of the eight participating departments (Stakeholder interviews/requirements definition). The team assessed the current system architecture and recommended supporting system upgrades. Wood staff configured and customized ArcIMS, ArcSDE, and the OnPoint application by connecting to several different data sources, creating a common look and feel, and in order to generate a series of reports. This included the creation of a separate GIS environment and replicated databases, to ensure the highest level of network security, for public users who are external to the Gwinnett County-wide area network.

Wood has performed a wide-range of unique tasks to help Gwinnett County implement their GIS:

ArcGIS software upgrade to version 9.2 (2008) and 10.0 (2010)

- Upgraded server software ArcIMS, ArcGIS Server, ArcSDE, and Oracle (9i and 10g).
- Migrated GIS data, including ArcSDE
- Wood upgraded Gwinnett County's previously installed Orion website to version 6.0.

Wood developed the Digital Plans Submittal Tool to:

- Verify CAD data submitted to Gwinnett County.
- Check for proper feature type, naming convention, and coordinate system before allowing the file into the ProjectDox system.
- Upload and validate the CAD submissions via the county website, which reports if the submission is successful and supplies the user with a descriptive error if one of the criteria fails.



The Digital Plans Submittal Tool validates CAD files for Gwinnett County, and populates a database.

CRM GIS Website Upgrade

Gwinnett County's existing CRM GIS application was upgraded from ArcIMS to an ArcGIS Server based web application. Wood developed an Adobe Flex web application component and an automated service request location functionality to the County's SAP system. Two ArcGIS Server 10 web services were developed. The services pass the information to the County's customer relationship management system and were also configured so they can be accessed by future applications.

The success of these projects can be linked back to Wood's AIM2 project management methodology, which has guided these complex projects while maintaining system availability to conduct the County's daily business.



Environmental Management Information System

Statewide, IL

Client: Illinois Department of Transportation

The Illinois Department of Transportation (IDOT) maintains a web-based EMIS (Environmental Management Information System). The system was created to facilitate a proactive approach to environmental management at department facilities spread throughout the state. IDOT maintains over 300 facilities and thousands of assets, collectively supporting statewide highway maintenance activities. EMIS encompasses a suite of tools for identifying, preventing, and managing environmental issues. These tools include a series of inspection forms dynamically generated for each facility based on the assets and activities conducted onsite as well as technical guidance and best management practice documents for addressing common issue. The system also provides metrics on inspection completion as well as tracking and reporting capabilities for management.

- ✓ SQL Server
- ✓ MVC
- ✓ ASP.Net
- ✓ JavaScript
- ✓ Bootstrap
- ✓ HTML5

Wood provides a variety of services that are essential to the on-going support, maintenance and continuous improvement of EMIS. In addition to performing environmental compliance audits, Wood's application development and administrative responsibilities include responding to end user support requests for adding or updating users, managing assets and associated inspections, uploading technical documents, addressing bugs, and identifying potential improvements to system efficiency and performance. In addition, Wood provides on-site training to IDOT staff and program managers in each of IDOT's 8 Districts as well as developing end user training videos and help documentation to support the use of EMIS.





Franklin Green Infrastructure Program

Franklin, TN

Client: City of Franklin, Tennessee

For the City of Franklin, Wood assisted with potential alternatives to the 25-acre streamside buffer requirement. The scope included the investigation of alternatives, revisions to the Best Management Practice Stormwater Management Manual (BMP Manual), and Stormwater Ordinance and Water Quality Calculation Tool detention review and updates.

- ✓ Esri GIS Desktop
- ✓ JavaScript API
- ✓ MVC
- ✓ JavaScript
- ✓ HTML5

BMP Manual and Stormwater Ordinance

Wood updated the BMP Manual & Stormwater Ordinance with a set of changes requested by the City. The requests included the removal of downspout disconnection, grass channel, and rain tank/cistern BMPs from the Manual, adding downspout disconnection as a component of the Sheet Flow BMP, and updating Water Quality Swale to refine the definition of ground cover practices. In addition, we incorporated site Rv standard of 0.18, updated and revised the five example boxes within the Manual and added an additional real world example to demonstrate a more complex scenario. We also incorporated guidance for performing an infiltration test and develop and incorporated guidance checklist for post construction inspection of BMPs.

Water Quality Calculation tool

Wood updated the water quality web calculation tool in accordance with the BMP Manual and Stormwater Ordinance updates. This was done by removing the downspout disconnection, grass channel and cistern from the tool, incorporating a new Rv standard of 0.18, incorporating a warning message if hydrologic soil group A or B soils are selected to indicate that a soil test is required in the calculation submittal and added a legend table to the report. The web tool was written in C#.NET and JavaScript.

NVARNG GIS and Application Development Services

Statewide, Nevada

Client: Nevada Army National Guard

Wood provides GIS and application development support to the NVARNG for general GIS support for map updates and data development, enterprise geodatabase updates, SDE version upgrades and migration of historical GIS data including training and documentation development for managing their enterprise geodatabase. Support also included SDSFIE data development and migration (2.6 standard up to 3.1), SharePoint support, CAD development and conversion.

- ✓ Esri GIS Desktop
- ✓ Esri ArcGIS Server
- ✓ JavaScript API
- ✓ SQL Server
- ✓ MVC
- ✓ ASP.Net
- ✓ JavaScript
- ✓ Bootstrap
- ✓ HTML5

The NVARNG enterprise geodatabase was upgraded and Wood migrated historical GIS data. Documentation was developed and training was provided for managing the enterprise geodatabase. Wood also developed a Dot Net Nuke (DNN) website for the environmental group and trained the NVARNG personal on administering the site. Wood successfully applied for and obtained a Certificate of Networthiness (CoN) and installed / configured the website on NVARNG servers. Wood also developed a custom web GIS and integrated it with the DNN website. The web GIS provides easy access to the enterprise geodatabase for novice GIS users.

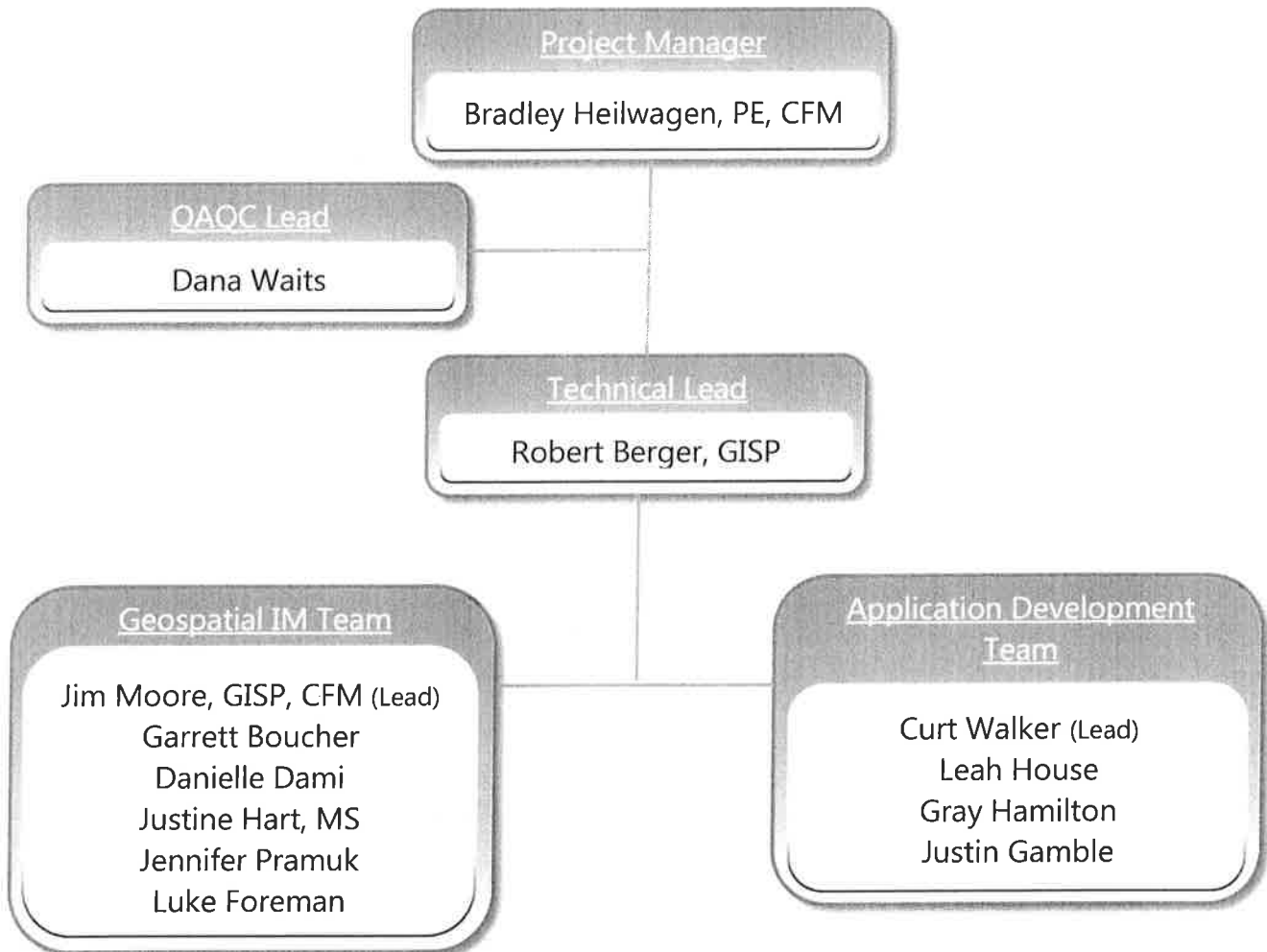


C. Key Personnel

You'll find within this section that the selection of a leadership team for this project was based not only upon experience leading projects in general, but also experience leading projects for the City of Chattanooga. Brad Heilwagen has managed every project undertaken by our company for the City since 2013, including efforts contracted through the U.S. Army Corps of Engineers. Dana Waits has served as QAQC Lead on most of those projects. Robert Berger, the proposed Technical Lead, personally wrote most of the code for the Android stormwater data collection application used to save 50% versus traditional data collection methods during the Chattanooga WPA Project Phase 1.

Both our Geospatial IM (GIS) and Application Development Teams are housed within our Water & Technology Services Branch of the Environment & Infrastructure Division of Wood, plc. Our GIS Analysts and Specialists have extensive experience in Esri GIS Desktop Applications, developing geospatial datasets and related tabular data to specifications from federal, state, and local agencies, as well as industrial and clean energy clients. Our Application Development Team members each have direct experience with the required applications listed in the bid solicitation. In fact, the skills of Esri ArcGIS Server, ArcSDE, MVC, ASP.Net, JavaScript, Bootstrap, and HTML5 are required experience for hiring into the Team to begin with.

Organizational Chart





Key Personnel Short Bios

The following are brief bios on the Leads of our Team, who will ensure that we provide the full range of services required by City of Chattanooga under this contract to your satisfaction. Full-page resumes for all projects staff can be found in Appendix 1 of this bid solicitation.

Bradley Heilwagen, PE, CFM – Project Manager

Mr. Heilwagen has 15 years of experience as a consultant and project manager for a diverse range of projects including flood prediction and warning, flood risk assessment, mobile application development, and geospatial mapping. He has extensive experience working directly with City of Chattanooga Public Works staff, including acting as project manager for Chattanooga Flood Preparedness Phases 1 and 2, WPA Project Phase 1 (which was nominated for an ACEC Engineering Excellence Award in 2016), Dartmouth Street Flood Study, and North Market Street WPA Analysis. He is also Technical Lead for the Chattanooga Flood Prediction Tools project, and his efforts with the City of Nashville helped the Nashville SAFE Program win a Grand Award at the ACEC Engineering Excellence Awards in 2013.

Dana Waits – QAQC Lead

Mrs. Waits has over 14 years of experience in the field of Environmental Science focused on Clean Water Act regulations and the National Pollutant Discharge Elimination System (NPDES) program. She has provided oversight for all aspects of the NPDES program including, but not limited to, industrial and municipal dischargers, municipal stormwater programs, and construction stormwater permitting within Tennessee. More recently, she has served as QAQC Lead for the Chattanooga WPA Project Phase 1 and the Project Manager for the Chattanooga Flood Prediction Tools Project.

Robert Berger, MS, GISP – Technical Lead

Mr. Berger has over 10 years of experience in software development, data management, GIS, analysis, and project management. Over his career he has built data management systems, interacting with various data sources including EQuIS, TED, air particle sensors (TSP), iVolve, and mobile applications, presenting the information in graphical, spatial, and textual form and conforming to project workflows including BS1192. He has utilized various programming languages such as C#, VB, Java, JavaScript and Python and libraries including ArcObjects, .NET, jQuery, Android, Bootstrap and OpenXml. As a former Esri employee, he has extensive experience with Esri products. Robert is proficient with such software as Intellex, Cityworks, AssetWise and SharePoint. He led the development of the Java Android native application for stormwater data collection in Chattanooga utilizing the ArcGIS SDK for Android, as well as numerous other ArcGIS mapping solutions, such as the Heathrow CDE.

Curt Walker, MA (GIS) – Geospatial Application Development Team Lead

Mr. Walker has 12 years of experience in application development, database administration and GIS analysis. His software development experience includes a mixture of Microsoft and open-source technologies. He has built web-applications with a range of programming languages and frameworks including C#, VB, .NET, Javascript, and JQuery. He has also developed user interfaces in HTML and CSS utilizing Bootstrap.js. Mr. Walker has developed with Microsoft's WebForms and MVC patterns and is experienced administrating web-applications using Microsoft Server 2008-2012 and IIS. He is experienced developing customized geoprocessing and map-automation tools using Python and Esri's ArcPy library. Mr. Walker has experience writing complex SQL queries and stored procedures, database design and development. City Works experience spans implementation and development to municipal user support.

James Moore, GISP, CFM – Geospatial Information Management Team Lead

Mr. Moore has over 29 years of experience, with the last 13 being with Wood. He has been primarily focused on using Esri ArcGIS Desktop applications to develop FEMA DFIRM/RiskMAP databases and maps. In addition, he has provided on-site support to the Nevada Army National Guard, assisting with GIS and SharePoint site development. He performed mapping and analysis for the Nashville SAFE Program, Chattanooga Flood Preparedness Program, Chattanooga WPA Project Phase 1, and numerous FEMA flood mapping projects.

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. In all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, any contractor and/or subcontractor is further required to file in duplicate within ten (10) days of being notified that it is the lowest responsible bidder, an affirmative action plan with the EEO Director of the City of Chattanooga. This plan shall state the Contractor's goals for minority and women utilization as a percentage of the work force on this project.
5. This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project. This plan or attachment thereto shall further describe the methods by which the Contractor or Subcontractor will utilize to make good faith efforts at providing employment opportunities for minorities and women.

During the term of this contract, the Contractor upon request of the City, will make available for inspection by the City of Chattanooga copies of payroll records, personnel documents and similar records or documents that may be used to verify the Contractor's compliance with these Equal Opportunity provisions.

- 6 The Contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 6 in every subcontract so that such provisions will be requested of each subcontractor. The Contractor agrees to notify the City of Chattanooga of any subcontractor who refuses or fails to comply with these equal opportunity provisions. Any failure or refusal to comply with these provisions the Contractor and/or Subcontractor shall be a breach of this contract.



(Signature of Contractor)

Branch Manager, Wood Environment &
Infrastructure Solutions, Inc.

(Title and Name of Construction Company)

July 19, 2018

(Date)

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED) Bradley Heilwagen

(PRINTED NAME) Bradley Heilwagen

(BUSINESS NAME) Wood Environment & Infrastructure Solutions, Inc.

(DATE) July 19, 2018

For further information, please see website:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf

No Contact/No Advocacy

Notice Receipt

City of Chattanooga

Purchasing Division

For Submission with Sealed Bid Solicitation Responses:

Bradley Heilwagen (Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of Wood Environment &

Infrastructure, Inc. (Business name), the Submitter of the

attached sealed solicitation response to Solicitation # R171900 / Bid No. 305164 and said

Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature:



Printed Name:

Bradley Heilwagen

Title: Branch Manager

Date: July 19, 2018

ADDENDUM NO: 1

REQ NO: 171900

FINAL SUBMITTAL: July 20, 2018 2:00 PM EST

FINAL QUESTIONS: July 13, 2018 2:00 PM EST

Department: Public Works Administration, GIS Systems Database Management

Changes to Bid No. 305164:

Question received:

1. Whether companies from Outside USA can apply for this? (like, from India or Canada)

Answer: No, GIS Applications support we need a local company preferably in the State of Tennessee or Georgia

2. Whether we need to come over there for meetings?

Answer: Yes, the selected vendor will need to do onsite technical meetings, workshops and training

3. Can we perform the tasks (related to RFP) outside USA? (like, India or Canada)

Answer: No

4. Can we submit the proposals via email?

Answer: No. This is a sealed bid and has to be mailed or delivery service to the Purchasing Office address list on the Invitation to Bid in duplicate. The bid has to be at Purchasing on or before July 20, 2018. Bids will open at 2:00 PM EST.

Req No: 171900 GIS Application Support

PLEASE SIGN ONE (1) COPY OF ADDENDUM AND RETURN TO THE PURCHASING DEPARTMENT. RETAIN THE OTHER COPY FOR YOUR FILES.

Name: *B. Heil*

Company: Wood Environment & Infrastructure, Inc.

**CITY OF CHATTANOOGA
PURCHASING DEPARTMENT
Mark McKeel
City Hall Suite G13
CHATTANOOGA, TN 37402
TELE: (423) 643-7236
FAX: (423) 643-7244**

ADDENDUM NO: 2

REQ NO: 171900

FINAL SUBMITTAL: July 20, 2018 2:00 PM EST

FINAL QUESTIONS: July 13, 2018 2:00 PM EST

Department: Public Works Administration, GIS Systems Database Management

Changes to Bid No. 305164:

Question received:

1. Are we permitted to modify the bid form to include multiple key staff roles and the hourly rates for each?

Answer: Yes

2. The number "508" is included in the quantity on the bid form. Please explain to this number refers?

Answer: The number "508" is an estimate of hours for service when needed. As the boilerplate says, "Quantities are estimates only. The City of Chattanooga shall guarantee no minimum or maximum amount purchased during the lifetime of the contract."

3. Is it permissible to add to the bid form a statement describing our escalation clause for the optional years of the contract (years 2 and 3)?

Answer: Yes. That way we will know what years 2 and 3 will be.

4. To what extent will fleet management be involved in this contract?

Answer: Yes. Any Public Works Division or Group if there are any GIS custom application needs for Fleet or Facilities Management as they are now part of Public Works.

5. The Vendor Requirements in the RFP references relevant experience and references. Do you wish to receive resumes of key staff as well?

Answer: Yes.

6. The bid form has a line item for "estimated delivery". Should we assume that is for the 12-month base contract?

Answer: Yes.

Req No: 171900 GIS Application Support

PLEASE SIGN ONE (1) COPY OF ADDENDUM AND RETURN TO THE PURCHASING DEPARTMENT. RETAIN THE OTHER COPY FOR YOUR FILES.

Name: Bo Heil

Company: Wood Environment & Infrastructure, Inc.

CITY OF CHATTANOOGA
PURCHASING DEPARTMENT
Mark McKeel
City Hall Suite G13
CHATTANOOGA, TN 37402
TELE: (423) 643-7236
FAX: (423) 643-7244



Appendix 1 – Resumes for all Project Staff

Bradley Heilwagen, PE, CFM

Project Manager

Relevant Project Experience

Chattanooga WPA Phase 1, City of Chattanooga

Directed the development of a condition assessment report, ranking system, and rehabilitation plan for the system of ditches within the City of Chattanooga that were originally constructed by the Works Progress Administration (WPA) in the early 1940's. As part of Phase 1, Wood collected cross-section survey, high resolution photography, and 360-degree video at 200-foot intervals along the entire 23-mile ditch system using a custom-built Android application. Wood performed a field condition assessment, noting ditch material, quantity and type of debris or obstruction, and recommended maintenance. He worked directly with City staff to identify nine high priority areas for flood reduction, deterioration repair, or ecological enhancement projects and is currently overseeing the design of rehabilitation projects in these areas.

USACE Chattanooga Flood Preparedness, U.S. Army Corps of Engineers (USACE), Chattanooga, TN

Oversaw a multidiscipline team supporting flood preparedness in the City of Chattanooga by developing new hydrologic and hydraulic models and GIS outputs for various streams. Responsible for oversight of the entire project, including coordination of data collection efforts, modeling, calibration, and mapping. Provides consulting to the USACE and City of Chattanooga in matters relating to flood preparedness, warning, and resilience.

Nashville SAFE Program, Nashville and Davidson County (TN)

Following the May 2010 flood in Nashville, Mr. Heilwagen led the development of a multi-agency partnership called the Nashville Situational Awareness for Flooding Events (SAFE). As a consultant, Wood has developed products and processes that carry out the mission of SAFE: to address the needs for improved coordination, more and better data, and trained personnel, effectively filling in the gaps between the partner agencies.

EQUIS Mobile Application, Alabama Power Company (APC), Birmingham, Alabama

Oversaw the development of a mobile data collection application to interface with APC's EQUIS environmental database. Mr. Heilwagen provided liaison between application developers and APC staff to fulfill user requirements for data collection forms and reporting.

Martin Dam Relicensing Study Plan 12(a) Inundation Mapping & Assessment, Kleinschmidt Associates/Alabama Power Company, Birmingham, Alabama

Oversaw the development of inundation mapping and performance of assessment tasks for 36 miles of the Alabama and Tallapoosa Rivers in Alabama, downstream of Alabama Power's Martin Dam Project. Performed as a required response to the Federal Energy Regulatory Commission's request for additional data regarding the Martin Dam Project, Wood is providing inundation mapping, land use characterization, and approximate inundation area calculations for the aforementioned reach for an additional modeling scenario.

Years of Experience

15 (12 with Wood)

Education

- Bachelor of Science, Agricultural Engineering, University of Illinois, 2003

Registrations

- Professional Engineer, AL, 29352
- Professional Engineer, KY, 30960
- Professional Engineer, FL, 70891
- Professional Engineer, TN, 00111579
- Certified Floodplain Manager, US, US-08-03452

Professional Associations

- Association of State Floodplain Managers
- Tennessee Association of Floodplain Managers
- American Water Resources Association – Tennessee Section
- National Hydrologic Warning Council – Board of Directors

Professional History

- Wood Environment & Infrastructure Solutions, Inc. Branch Manager, Unit Manager, Project Manager, Engineer, Nashville, TN, 2006 – Present
- Idaho Power Company, Engineer I – Water Resources, Boise, ID, 2003 – 2006
- University of Illinois, Soil & Water Resources Research Engineer, Urbana, IL, 2003
- University of Illinois, Aerial Imagery Analyst, Urbana, IL, 2001-2003



Dana Waits

QAQC Lead

Relevant Project Experience

Chattanooga Flood Prediction Tools, City of Chattanooga

Project Manager for an effort to develop a set of Flood Preparedness Custom Flood Prediction Tools for use during real-time flood events in the watersheds of Chattanooga. The project involves application development of stand-alone flood prediction software, as well as the development of a basic web application coded in MVC C#.NET and Esri JS 4.x. It also involves the development of an interactive web application with a Microsoft SQL database back-end.

Chattanooga WPA Phase 1, City of Chattanooga

Served as QAQC lead for the development of a condition assessment report, ranking system, and rehabilitation plan for the system of ditches within the City of Chattanooga that were originally constructed by the Works Progress Administration (WPA) in the early 1940's. Ms. Waits reviewed the end products of this projects to ensure consistency with City requirements. She also provided interface with TDEC and USACE in preparation for upcoming rehabilitation projects.

Augusta Stormwater Utility, City of Augusta, Georgia

Ms. Waits updated and implemented the Augusta/Richmond County Stormwater Management Program and Stormwater Utility Fee. She assisted in the creation of an Impervious Area database currently used to support a Stormwater Utility Fee for residents of the county.

Birmingham Stormwater Management Program, City of Birmingham, Alabama

Ms. Waits is assisting in an update to the City's Stormwater Design Manual and permanent stormwater regulations as well as preparation of a set of example Target Rv calculations to aid the city in visualizing possible changes to permanent stormwater management site design requirements. She serves as QAQC Lead for the development of a web-based Target Rv calculation tool for City staff and developers in Birmingham to use to understand the hydrologic impact of their developments.

Nashville SAFE Program, Nashville and Davidson County (TN)

Provides assistance for the consultant portion of a multi-agency partnership called Nashville Situational Awareness for Flooding Events (SAFE) to support the creation of a set of tools that can be used by emergency managers in decision making during a flood event. Will provide support to MWS during flood events as well as training to MWS Watershed Advisors during tabletop exercises and live flood events.

SRWMD FEMA RiskMAP Program (Multiple Watersheds), Suwannee River Water Management District, Live Oak, Florida

Serves as QAQC Lead on a multi-year, multi-watershed contract to implement the FEMA RiskMAP Program throughout the Suwannee River Water Management District. Ms. Waits coordinates all QAQC activities to ensure that both FEMA and Wood QAQC requirements are being met.

Years of Experience

14 (3 with Wood)

Education

- Bachelor of Environmental Science, David Lipscomb University, 1999

Registrations

- WA State CESCL

Professional Associations

- American Water Resources Association – Tennessee Section

Professional History

- Wood Environment & Infrastructure Solutions, Inc. Senior Scientist / Project Manager, Nashville, TN, 2015 – Present
- TN Department of Environment and Conservation/Nashville, TN/Water Resources Environmental Scientist/January 2008-May 2015
- Consoer Townsend Envirodyne Engineers, Inc. /New Orleans, LA and Chicago, IL/Environmental Scientist/October 1999-November 2004



Robert Berger, MS, GISP

Technical Lead

Relevant Project Experience

Chattanooga Flood Prediction Tools, City of Chattanooga

Technical Lead for an effort to develop a set of Flood Preparedness Custom Flood Prediction Tools for use during real-time flood events in the watersheds of Chattanooga. The project involves application development of stand-alone flood prediction software, as well as the development of a basic web application coded in MVC C#.NET and Esri JS 4.x. It also involves the development of an interactive web application with a Microsoft SQL database back-end.

Chattanooga WPA Phase 1, City of Chattanooga

Technical Lead for the application development team that created a Java Android native application utilizing the ArcGIS SDK for Android. Application was disconnected and leveraged native GPS and camera capabilities. Data was saved locally in a SQLite database and leveraged ArcGIS Server feature services with attachments enabled for synchronization mechanism into GeoDatabase.

Gwinnett County GIS Services, County of Gwinnett, Georgia

As technical lead, installed and migrated client site from ArcGIS 10.0 to ArcGIS 10.1. Environments included test, production, and dissemination servers. Work involved scripts for ArcGIS Desktop installation, custom add-ins in C#.NET using ArcObjects and scripting using Python for GeoDatabase version management, installation and setup of ArcGIS Server and ArcSDE, replication and data warehousing, and production data migration.

Heathrow Expansion Project, Heathrow Airport Authority, London, England

Lead system architect to build the common data environment (CDE) to house data related to the development consent order for Heathrow's third runway expansion. The system is comprised of SharePoint, Bentley AssetWise, Bentley ProjectWise, Salesforce, and Esri ArcGIS Enterprise. The CDE is hosted in a Azure cloud environment and leverages B2B (single sign on) authentication for the seven consultant firms and Heathrow staff. Robert configured the CDE and GIS environments including a non-GIS-standard review process (BS1192) utilizing Python scripts, geoprocessing services and custom widgets to enforce review procedures and associated web applications. The system is used by several hundred users including GIS editors. He configured the integration between GIS and AssetWise for a single point of truth application to search and view GIS and BIM data. The application allows for standardized access of different practice areas such as construction, environmental etc. for a common operational picture.

Integrated Zoning Solution, Chattanooga-Hamilton County Regional Planning Agency (RPA)

Assisted in development of the Zoning Information Mapping System (ZIMS) to streamline RPA's application approval process. ZIMS is a web-based data management system that features an easy-to-use interface to update and manage zoning and permit applications, houses both spatial and non-spatial data and provides enhanced workflow management and reporting capabilities. ZIMS also features a user management component that allows RPA to define user roles, associated privileges and task notifications. Automated emails prompt users for reviews, case editing and approvals as the application advances through the approval process.

Cadastral Mapping (Terrestrial and Marine), and Geospatial Training, U.S. Army Corps of Engineers (USACE), Vicksburg, MS

As member of the development team created tools for the MMC Total Precipitation (TP) 40 tool using ArcObjects and C#.NET. Work included performance enhancement, chart digitization and QA/QC mechanisms for results.

Years of Experience

11 (5 with Wood)

Education

- Bachelor of Science, Computer Information Science & Geography, Minnesota State University, 2005
- Master of Science, Geography, Ball State University, 2007

Registrations

- Certified Geographic Information Systems Professional (GISP)

Professional History

- Wood Environment & Infrastructure, Inc., Application Developer, Nashville, TN, 03/2013 to present
- Middle Tennessee Electric Membership Corp., GIS Technician, Murfreesboro, TN, 11/2012 to 03/2013
- Makua-Metto Mission, Volunteer GIS Manager, Montepuez, Mozambique, 09/2011 to 08/2012
- Environmental Systems Research Institute (Esri), Product Engineer, Redlands, CA, 08/2007 to 08/2011



Curt Walker, MA

Geospatial Application Development Team Leader

Relevant Project Experience

Chattanooga Flood Prediction Tools, City of Chattanooga

QAQC Lead for an effort to develop a set of Flood Preparedness Custom Flood Prediction Tools for use during real-time flood events in the watersheds of Chattanooga. The project involves application development of stand-alone flood prediction software, as well as the development of a basic web application coded in MVC C#.NET and Esri JS 4.x. It also involves the development of an interactive web application with a Microsoft SQL database back-end.

IDOT Environmental Management Information System (EMIS), Illinois Department of Transportation, Springfield, Illinois

Lead application developer for the EMIS project, an environmental data management tool used to identify, prevent and manage environmental liabilities at over 300 facilities that support the State of Illinois highway maintenance activities. Mr. Walker developed new system functionality and improving existing features. He responds to end user support requests for adding or updating users, managing assets and associated inspections, uploading technical documents, addressing bugs, and improving system functionality. He also provides on-going system maintenance and support.

Port Granby Long Term Waste Management, Amec-CB&I JV, Ontario, Canada

Mr. Walker developed software for communicating with TSP (Total Suspended Particulate) data-logging devices located at the work site. TSP communications were an integral component in the DMS. Mr. Walker also developed software for storing, querying and generating reports from the data received from the TSP devices. Technologies used included MVC 6 (C#.NET, JS), ArcGIS Server, and SQL Server.

Golden Pass Pipeline GIS Web-Application Development, Golden Pass LNG, Sabine Pass, Texas

Project Manager for development of the Golden Pass Pipeline (GPPL) GIS Web-Application that enables its users to inspect and analyze the pipeline's entire 68-mile length and its associated facilities. It aids in the planning of maintenance activities and viewing high consequence areas. Wood upgraded this application to be more performant in 2017 using modern web-based technologies. Wood is developing new features and enhancements for this application and will perform ongoing maintenance and regular updates on the app's GIS datasets.

Cityworks Development (while at Civic), Metro Nashville Public Works, Nashville, Tennessee

Mr. Walker has developed custom data management systems and web-applications that utilize an instance of the Cityworks relational database. He is familiar with the Cityworks database structure and its relationships. His experience with the back-end of Cityworks also includes writing complex SQL queries to generate reports that summarize statistical information pulled from a Cityworks database instance. City departments supported include Stormwater (Remedial and Routine), Public Works, and Planning. Mr. Walker also has 3 years of experience providing technical support to users of the Cityworks Desktop ArcMap extension.

Network Rail Alexa Skill, Network Rail, London, England

Project Manager for development of a voice-activated directory that enables its users to obtain audible responses to spoken questions directed to an Amazon Echo device. Network Rail users can query the virtual directory for information regarding a variety of the firm's internal operations. Wood developed the custom Alexa Skill and assisted Network Rail in deploying it to their own Echo device.

Years of Experience

12 (2 with Wood)

Education

- Bachelor of Science, GIS, James Madison University, 2004
- MA, GIS, University of South Florida, Tampa, 2006

Memberships

- Wood Innovation & Technology Steering Committee

Professional History

- Wood Environment & Infrastructure, Inc., Application Developer, Nashville, TN, 2016 to present
- Civic Engineering & IT Inc., IT Analyst/Developer, Nashville, TN, July 2013 – December 2015
- Cardno ENTRIX, Senior GIS Analyst/Developer, Tampa, FL, June 2006 – June 2013



Leah House

Application Developer

Professional Summary

Leah has over 4 years of experience developing web, desktop and GIS applications utilizing various technologies such as C#, VB.NET, C++, JavaScript, CSS, SQL, jQuery, and ArcObjects; among others. She has extensive experience with Esri ArcMap automation, service driven web application development, and database design and development. She has supported engineering and GIS departments in the creation of GIS tools to automate various hydrologic processes

Relevant Project Experience

Integrated Zoning Solution, Chattanooga-Hamilton County Regional Planning Agency (RPA), Chattanooga, Tennessee

Lead Application Developer for the development of the Zoning Information Mapping System (ZIMS) to streamline RPA's application approval process and data management. ZIMS is a web application designed in ASP.NET MVC framework and relies on using Esri's Javascript API as well as javascript prototype design patterns. Mrs. House was responsible for the SQL database setup and management. She also provided end user support during test and final deployments and developed a hosting procedure to be used by Hamilton County IT staff

City of Franklin – Online Water Quality Calculation Tool, Franklin, Tennessee

Assisted with the development of the Franklin Water Quality Calculation Tool, a web-based tool which calculates runoff reduction. The Runoff Reduction Method (RRM) utilizes acreage, land use and green infrastructure projects to calculate volume of water captured by a site. The tool allows users to save and upload project files for future modification and review. An optional TSS Reduction Method (TRM) is also included within the tool.

Panoche Valley Solar Project Bio/CR, AmecFW E&C Services Inc, San Benito County, California

Mrs. House was an Application Developer for the development of a web-based Data Management System and Mobile Data Collection Application to support the 247-megawatt (MW) Panoche Valley Solar Project. To comply with regulatory requirements from state and federal agencies pre-construction surveys of threatened and endangered species and post construction monitoring were carried out by field biologists on the +2,500 acre project site using a customized mobile field data collection application deployed on android tablets. Observation and monitoring data, including site photos and location information, are being collected through an interactive mapping display using intuitive data entry collection entry forms with data validation requiring no immediate internet connectivity. Wood also developed a web-based GIS Mapping application that functions as a Data Management System (DMS). The DMS provides convenient access to project team members and allow for querying and exporting data in various formats and

Stormwater Inspections Mobile Application and Data Management System, Confidential Industrial Client, Renton, Washington

Assisted in the development of an Inspection Application to assist Confidential Client plant operators and field personnel in inspecting stormwater infrastructure as part of routine maintenance and inspection schedules. The Inspection Application is deployed on tablets and has been designed to replicate existing workflows and procedures to accommodate "seasoned" plant operators not familiar or comfortable with technology. The Inspection Application has been designed to work in tandem with a web based Data Management System (DMS) to manage and access storm water data and centralize storage of environmental data used to characterize soils and groundwater. The DMS provides data to support construction permitting issues related to regulatory compliance, management of stormwater discharges and construction related contamination. Detailed reports and plotting environmental data over time can be generated directly through the application.

Years of Experience

5 (3 with Wood)

Education

• Bachelor of Science, Geographic Techniques, Middle Tennessee State University, 2014

Professional History

- Wood Environment & Infrastructure, Inc., Application Developer, Nashville, TN, 2014 to present
- Geo-Jobe GIS Consulting, GIS Technician, Nashville, 2013-2014



Gray Hamilton

Application Developer

Professional Summary

Drawing from a wide range of design technology experience – from CAD, graphic & web design, to GIS, 3D modeling & animation, Gray now enjoys creating web applications using technologies such as .NET, SQL, C# and JavaScript. Gray is also proficient in responsive web design and developing with software platforms such as DNN, WordPress, and InteleX.

Relevant Project Experience

Chattanooga Flood Prediction Tools, City of Chattanooga

Application developer for an effort to develop a set of Flood Preparedness Custom Flood Prediction Tools for use during real-time flood events in the watersheds of Chattanooga. The project involves application development of stand-alone flood prediction software, as well as the development of a basic web application coded in MVC C#.NET and Esri JS 4.x. It also involves the development of an interactive web application with a Microsoft SQL database back-end.

Integrated Zoning Solution, Chattanooga-Hamilton County Regional Planning Agency (RPA), Chattanooga, Tennessee

Application Developer for the development of the Zoning Information Mapping System (ZIMS) to streamline RPA's application approval process and data management. ZIMS is a web application designed in ASP.NET MVC framework and relies on using Esri's Javascript API as well as javascript prototype design patterns. Mrs. House was responsible for the SQL database setup and management. She also provided end user support during test and final deployments and developed a hosting procedure to be used by Hamilton County IT staff.

Heathrow Expansion Project, Heathrow Airport Authority, London, England

Application developer for a project to build the common data environment (CDE) to house data related to the development consent order for Heathrow's third runway expansion. The system is comprised of SharePoint, Bentley AssetWise, Bentley ProjectWise, Salesforce, and Esri ArcGIS Enterprise. The CDE is hosted in a Azure cloud environment and leverages B2B (single sign on) authentication for the seven consultant firms and Heathrow staff. Robert configured the CDE and GIS environments including a non-GIS-standard review process (BS1192) utilizing Python scripts, geoprocessing services and custom widgets to enforce review procedures and associated web applications. Gray has assisted in the development of custom ArcGIS Portal scripts and services.

IDOT Environmental Management Information System (EMIS), Illinois Department of Transportation, Springfield, Illinois

Application developer for the EMIS project, an environmental data management tool used to identify, prevent and manage environmental liabilities at over 300 facilities that support the State of Illinois highway maintenance activities. Gray helped develop new system functionality and improving existing features, and provides on-going system maintenance and support.

GIS Portal, Nevada Army National Guard, Carson City, Nevada

Assisted in the development and ongoing maintenance of the NVARNG's GIS Portal and Environmental Portal websites.

Years of Experience

17 (2 with Wood)

Education

- Associate of Arts and Sciences, Computer Drafting & Design, ITT Technical Institute, 2002

Professional History

- Wood Environment & Infrastructure, Inc., Application Developer, Nashville, TN, 04/2016 to present
- ADS Security, Systems Developer / Business Analyst, Nashville, TN, 01/2014 to 04/2016
- Freelance Web Design, Nashville, TN & Atlanta, GA, 2006-2013
- X-Line Utility Services, Engineering Technician, Villa Rica, GA, 05/2010 to 08/2013
- Steve Clark & Associates Inc., CAD Designer, Nashville, TN, 01/2001 to 05/2006



Justin Gamble

Application Developer

Professional Summary

Mr. Gamble has 8 years of application development and database management experience. He has developed software using various programming languages including C#, VB.NET, Javascript, Java, and SQL. He has utilized various programming libraries including .NET, ArchObjects, jQuery, Android, Bootstrap, Amazon Web Services, Crystal Reports, and Windows Communication Foundation. He has managed enterprise SQL Server databases, ensuring high availability through proper backup scheduling and maintenance.

Relevant Project Experience

Stormwater Inspections Mobile Application and Data Management System, Confidential Industrial Client, Renton, Washington

Assisted in the development of an Inspection Application to assist Confidential Client plant operators and field personnel in inspecting stormwater infrastructure as part of routine maintenance and inspection schedules. The Inspection Application is deployed on tablets and has been designed to replicate existing workflows and procedures to accommodate "seasoned" plant operators not familiar or comfortable with technology. The Inspection Application has been designed to work in tandem with a web based Data Management System (DMS) to manage and access storm water data and centralize storage of environmental data used to characterize soils and groundwater.

IDOT Environmental Management Information System (EMIS), Illinois Department of Transportation, Springfield, Illinois

Application developer for the EMIS project, an environmental data management tool used to identify, prevent and manage environmental liabilities at over 300 facilities that support the State of Illinois highway maintenance activities. Justin helped develop new system functionality and improving existing features, and provides on-going system maintenance and support.

Panoche Valley Solar Project Bio/CR, AmecFW E&C Services Inc, San Benito County, California

Created a GPS enabled data collection application to track and monitor sensitive wildlife and cultural sites. The collected information is gathered on Android tablets and can be later uploaded to be reviewed on a data management site. The application uses a web site front end and saves data locally to a SQLite database to be uploaded to an ArcGIS service once internet connectivity is available. Justin has worked extensively with the biologists in the field to gather design and business requirements and make plans to add new functionality into the application.

Network Rail Alexa Skill, Network Rail, London, England

Mr. Gamble has acted as lead designer and developer to create a voice-activated directory that enables its users to obtain audible responses to spoken questions directed an Amazon Echo device. Network Rail users can query the virtual directory for information regarding a variety of the firm's internal operations. Wood developed the custom Alexa Skill and assisted Network Rail in deploying it to their own Echo device.

New York City Clean Soil Bank, New York City Office of Environmental Remediation.

Mr. Gamble was the lead application designer and developer for this website. The Clean Soil Bank website was created as part of a pro bono effort by Wood for the NYC Office of Environmental Remediation. The website was designed to act as both a means to eliminate paper forms and as a marketing tool to advertise clean soil availability and demand inside the boroughs of New York City.

Years of Experience

8 (3 with Wood)

Education

- Bachelor of Business Administration, Computer Information Systems, Middle Tennessee State University, 2009

Professional History

- Wood Environment & Infrastructure, Inc., Application Developer, Nashville, TN, 09/2015 to present
- Lochinvar LLC, Application Developer, Lebanon, TN, 07/2010 to 09/2015



James Moore, CFM, GISP

Geospatial Information Management Team Lead

Relevant Project Experience

MMC Tools, U.S. Army Corps of Engineers (USACE), Vicksburg, MS

GIS Specialist for the USACE program tasked with producing consistent hydraulic models, consequence models, consequence reports, GIS data, and mapping products for dam breach scenarios on all USACE dams nationwide. Assisted with modelling support, economic analysis and mapping for this project. These scenarios also include estimating populations at risk and economic impacts. Mapping processes, layouts and graphic standards have been developed in collaboration with Wood into a Standard Operating Procedure.

Cadastral Mapping (Terrestrial and Marine), and Geospatial Training, U.S. Army Corps of Engineers (USACE), Vicksburg, MS

Assisted with modelling support, economic analysis and mapping for this project. Also supported development of new geospatial mapping processes, layouts and graphic standards that were developed in collaboration with MMC into a Standard Operating Procedure for the entire program.

Various Watersheds Risk MAP, State of Alabama, Montgomery, AL,

Assisted with scheduling. Task managed activities in GIS such as floodplain mapping, panel production, and databases passing FEMA specifications. Facilitated interface with the client and stakeholders in regards to updates with the project. Tracked budgets across phases of the project and produced final deliverables.

NVARNG GIS Services, National Guard Bureau (ARNG), Carson City, NV

GIS Analyst providing onsite support services to NVARNG (Nevada Army National Guard). Support included database and server troubleshooting, SharePoint site maintenance and data management.

Camp Lejeune GIS Data Conversion, Jacksonville, NC. GIS Specialist. Mr. Moore assisted with the Camp Lejeune data conversion project. He performed conversion of GIS and AutoCAD data to build SDSFIE compliant databases for the use of Camp Lejeune's GIS for various development project sites. Mr. Moore converted and worked on the conversion of many utility networks, including: electric, gas, sanitary sewer, water and stormwater systems.

Years of Experience

29 (13 with Wood)

Education

- Associate of Applied Science, Computer Information Systems, Nashville State Community College, 2005

Registrations

- Certified Floodplain Manager, US, US-08-03867
- Certified GIS Professional, 47400

Professional Associations

- Association of State Floodplain Managers
- Urban and Regional Information Systems Association

Professional History

- Wood Environment & Infrastructure Solutions, Inc., GIS Analyst, Nashville TN., 2005 to present.
- Bonitron Inc., Technical Writer, Nashville TN., 1989 – 2005.



Garrett Boucher

GIS Analyst

Professional Summary

Mr. Boucher has diverse GIS and data management experience, most recently focusing on the water resources sector and Enterprise GIS systems. He has been a vital contributor to several mapping, GIS, data collection, and data maintenance projects completed for government agencies, including USACE, FEMA, and individual municipalities. In addition, he has helped deliver excellence on large-scale projects to private organizations such as universities, airports, and energy plants. Mr. Boucher has been the technical lead for enterprise GIS portal configuration, involving ArcGIS Server, REST enabled services, SQL server, and ArcSDE.

Relevant Project Experience

Lexington County Stormwater Management Plan, Lexington County, South Carolina

Produced Stormwater Infrastructure and Traffic Signs dataset.

Collaborated on database design based on the Local Government Information Model, stewarded data both before and after field collection, integrated systems with ArcGIS Online, configured Collector for ArcGIS, managed equipment (Android and Windows tablets, Geneq SXBlue GPS receivers), troubleshoot and integrated hardware with established workflow, trained field crew, provided technical support to field crews, performed quality assurance/quality control of collected data, developed scripts and post-processed data, and produced process documentation and technical user guidance. The initial phase of this project was completed as a two-square mile pilot study with the possibility of expansion to the entire county. A second two-square mile study area has now been completed. Further collection and production of infrastructure datasets is now ongoing, with the ultimate intention of developing a countywide stormwater user fee

Lebanon Impervious Area Digitization, City of Lebanon, Tennessee

Assisted in production of an Impervious Area dataset. Integral member of a team digitizing and attributing the impervious area of approximately 2,000 non-residential parcels from city-provided aerial imagery. Dataset was generated according to City standards and requirements.

Heathrow Expansion Project, Heathrow Airport Authority, London, England

Developed and implemented the Webmap Portal component of the Common Data Environment. Configured Portal for ArcGIS and ArcGIS Server to implement Webmap solutions for individual Task Orders as well as a shared Common Data Environment, allowing for the enforcement of specified data lifecycle workflows. Utilized Web AppBuilder (Portal-integrated version as well as Developer Edition) to create custom, configurable templates to be used in Task Order user groups. Managed portal users to ensure proper data access and permissions.

Stormwater GIS Data Management, Duke Energy plants

Digitized and produced GIS stormwater network data for two coal-burning energy plants based on PDFs, CAD drawings, and As-Built drawings. Ensured proper stormwater data population, attribution, and calculation as well as maintained topologies. GIS stormwater networks were supplied to hydraulic engineers for further modeling and production.

Tennessee State University Stormwater Infrastructure Inventory

Produced stormwater infrastructure dataset. Provided consultation to Survey and Water Resources departments on database design, data management, ArcGIS Online integration, Collector for ArcGIS configuration, and post-processing.

Years of Experience

3 (2 with Wood)

Education

- Bachelor of Science, Computer Science, Samford University, 2016

Professional History

- Wood Environment & Infrastructure, Inc., GIS Analyst, Nashville, TN, October 2016 to present
- Utility Data Contractors, GIS Field Technician, Nashville, TN, June 2016 – September 2016
- City of Franklin, GIS Intern, Franklin, TN, May 2015 – January 2016



Justine Hart, MS

GIS Analyst

Professional Summary

Ms. Hart has 3.5 years of GIS experience and 2 additional years of data collection and database management (non-GIS) experience. She currently serves as a GIS Analyst in Wood's Water Resources Unit. Ms. Hart is currently the GIS lead on all stormwater utility projects in the Nashville office. She has extensive experience with setup and implementation of stormwater user fees for multiple municipalities and works closely with the clients to ensure success and satisfaction. Ms. Hart has a diverse skillset, including proficiency in programs such as ArcGIS, ArcGIS Pro, AutoCAD and Civil3D. Her experience includes map production, stormwater user fee database processes, stormwater billing and database management, data collection, training document preparation and instruction, technical report writing, and task management.

Relevant Project Experience

Lebanon Stormwater, City of Lebanon, Tennessee

Ms. Hart served as the GIS lead and task manager for a digitization project for the City of Lebanon stormwater user fee implementation. Project responsibilities included analysis and processing of community GIS and tabular data (including parcels, tax assessments, land use, impervious coverage, and more), recommendations on impervious area capture criteria, and QA/QC throughout the entire process. Ms. Hart also led the team in digitizing all of the non-residential impervious area and creating a final delivery database back to the City of Lebanon.

Stormwater Inspections Mobile Application and Data Management System, Confidential Industrial Client, Renton, Washington

Served as a GIS Analyst, using 2017 Stormwater CAD files, which consisted of eight drawings, to make updates to the Stormwater Infrastructure GIS features that are stored in the Data Management System (DMS). Wood also created a GIS dataset for certain containment assets using the location and attribute information collected by the client in the mobile inspection form. Ms. Hart also created a GIS dataset for generators, wastewater infrastructure, and stormwater discharge locations using the location and attribute information collected by the client in the ad-hoc inspection form.

CSX Derailment, Emergency Response Team, Various Locations.

Ms. Hart provides technical support using ArcMap to assist with derailments for CSX. She serves as part of the on-call team to assist with these derailments providing site overviews, maps, and other figures as needed to assist with the onsite team.

CAD Technical Support, Various Projects, Various Locations.

Ms. Hart provides technical support using AutoCAD for clients such as CSX, TDOT, and GE. She produces spatially accurate and to-scale figures that assist in data visualization for testing and sample locations, groundwater monitoring wells, and site plans. She has assisted with 3D modeling using Civil3D. She uses CAD to assist with profile generation for DFIRM and RiskMAP projects.

Various Map Modernization Services and RiskMAP, United States.

Ms. Hart has experience in DFIRM production including creation and placement of annotation, digitizing, georeferencing original Flood Insurance Rate Maps, and profile generation. Ms. Hart also has experience with hydrology, hydraulics, FIS creation, creating Base Flood Elevation tables, metadata creation, annotation, digitizing, datum conversion, development of the DFIRM database and the QA/QC process.

Years of Experience

3 (2 with Wood)

Education

- Bachelor of Science, Geology, University of Iowa, 2012
- Master of Science, Environmental Geoscience, Middle Tennessee State University, 2016

Professional History

- Wood Environment & Infrastructure, Inc., GIS Analyst, Nashville, TN, October 2016 to present



Danielle Dami

GIS Analyst

Professional Summary

Ms. Dami is a graduate from the University of Tennessee with a specialization in geospatial technologies and climate change. Her experience includes RiskMap, flood consequence modeling in HAZUS-MH and HEC-FIA, project management assistance, FIS reports, stream profile creation, map production, data collection and analysis, statistical analysis, and managing and manipulating large datasets in R. Ms. Dami is Nashville's FIA Lead and has also created FIA models for other offices to assist in a dam construction cost-benefit analysis. She is proficient in programs such as ArcGIS, HEC-FIA, HAZUS-MH and Rasplot along with experience in AutoCAD and R.

Jennifer Pramuk

GIS Specialist

Professional Summary

Ms. Pramuk has extensive experience with the handling of raster based data and remote sensing analysis. When working with GIS vector data, she is experienced in the creation and maintenance of data, networking analysis, and a variety of other geoprocessing applications. Her focus in graduate school was on raster overlay analysis, suitability analysis, the relations between different biological species, and land mass change around the Mississippi River Delta. Her focuses before graduate school were in water quality and watershed analysis and she spent a good bit of time processing water samples in a laboratory setting. During her undergraduate education, she used GIS to assess the correlations between air pollution and wind patterns.

Luke Foreman

GIS Specialist

Professional Summary

Mr. Foreman has been working with GIS technology for over three years and is currently employed as a GIS Analyst at Wood in the environment and infrastructure group based in Nashville, TN. While still new at Wood, Mr. Foreman has assisted on projects including DFIRM and RiskMAP, FIS reports, FIA models, Map creation and production, profile baseline adjustments, project cost estimates and raster/grid analysis.

Years of Experience

<1 (<1 with Wood)

Education

- Bachelor of Arts, Geography, University of Tennessee, 2017

Professional History

- Wood Environment & Infrastructure, Inc., GIS Analyst, Nashville, TN, 08/2017 to present
- Oak Ridge National Laboratory, SULI Intern, Oak Ridge, TN 06/2017 – 08/2017

Years of Experience

3 (1 with Wood)

Education

- Bachelor of Science, Environmental Studies, Kennesaw State University, 2014
- Graduate, Geographic Information Systems, University of Colorado, 2017

Professional History

- Wood Environment & Infrastructure, Inc., GIS Analyst, Nashville, TN, 12/2017 to present
- Wisner, Geospatial Analyst, Murfreesboro, TN, 09/2017-12/2017
- Five Points Geoplanning, GIS Analyst, Denver, CO 05/2016-09-2016

Years of Experience

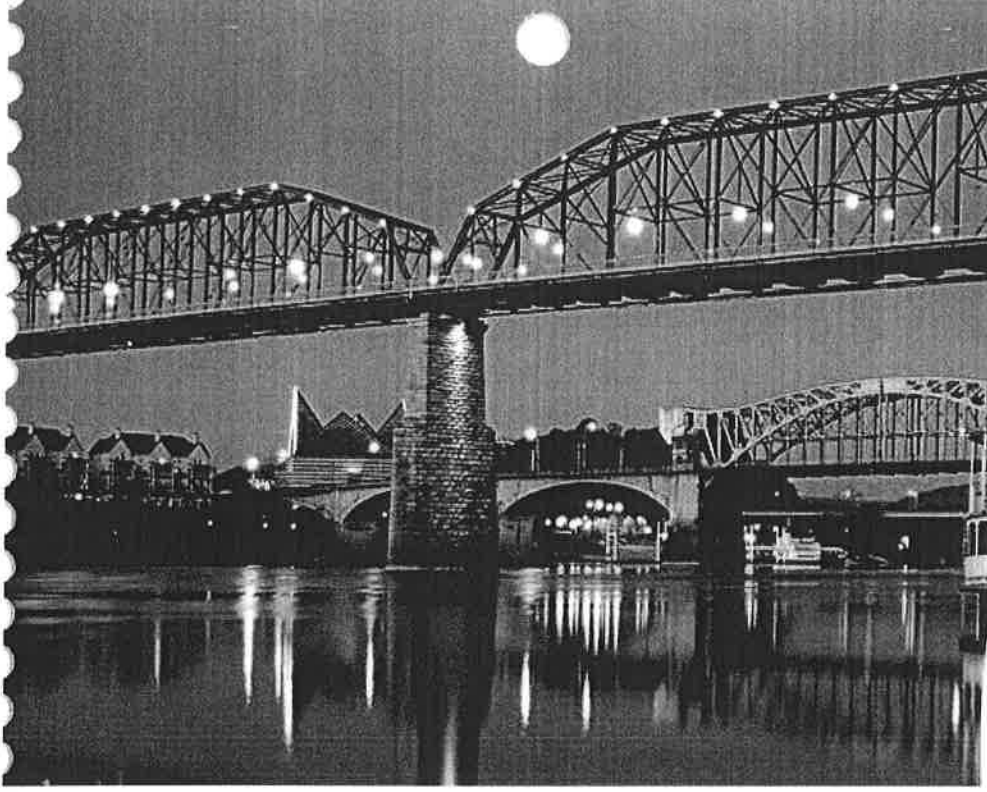
<1 (<1 with Wood)

Education

- Bachelor of Science, Urban & Regional Planning & Sustainability, Miami (OH) University, 2017

Professional History

- Wood Environment & Infrastructure, Inc., GIS Analyst, Nashville, TN, 12/2017 to present
- MapPlug Division of School Facility Management, GIS Consultant, Nashville, TN 2015-2017



Microsoft
ASP.net MVC



Kendo UI

CSS **HTML**
 **jQuery**
 **Bootstrap**

Request for Bid - Bid Solicitation Number - 305164 GIS Application Support

July 20, 2018



NuORIGIN

Prepared for:
Mr. Mark McKeel
Purchasing Department
City Of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Prepared by:
NuOrigin Systems, Inc.
128 Holiday Ct, Suite 126
Franklin, TN 37067



July 20, 2018

Mr. Mark McKeel
Purchasing Department
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Dear Mr. McKeel:

NuOrigin Systems, Inc., is excited to provide this bid in response to the City's recent request Requisition / Bid No. R171900 / 305164 regarding the professional provision of GIS Application Support services for the City of Chattanooga.

NuOrigin provides software and support solutions based on state-of-the-art technology through a comprehensive and integrated enterprise software development approach. We offer a wide range of services in the area of Business Process Automation, Database Design & Development, Data Entry and Migration, Geospatial Information Management, Mobile Application Development, Website Design and Development, Geospatial Application Development, System Integration, and Quality Assurance & Testing.

Our understanding of the RFB is that the City desires assistance with Geospatial Information Management and Geospatial Application Development and related support pertinent to the City's continuing and expanded use of third-party asset management systems. NuOrigin possesses significant corporate experience providing such services to the City of Chattanooga and to other local governments across Middle Tennessee.

In accordance with the RFB, we have included two (2) copies of the bid documents listing the hourly rate for the services to the City. *All prices quoted herein are F.O.B. Destination.* NuOrigin is looking forward to working together with the City Of Chattanooga to provide ongoing GIS application support if selected to perform this contract.

Sincerely,

Bimal Shah, President
NuOrigin Systems, Inc.
Phone: (615) 815-1488; Fax: (615) 810-8161
Email: bshah@nuorigin.com

ADDENDUM NO: 1

REQ NO: 171900

FINAL SUBMITTAL: July 20, 2018 2:00 PM EST

FINAL QUESTIONS: July 13, 2018 2:00 PM EST

Department: Public Works Administration, GIS Systems Database Management

Changes to Bid No. 305164:

Question received:

- 1. Whether companies from Outside USA can apply for this? (like, from India or Canada)**

Answer: No, GIS Applications support we need a local company preferably in the State of Tennessee or Georgia

- 2. Whether we need to come over there for meetings?**

Answer: Yes, the selected vendor will need to do onsite technical meetings, workshops and training

- 3. Can we perform the tasks (related to RFP) outside USA? (like, India or Canada)**

Answer: No

- 4. Can we submit the proposals via email?**

Answer: No. This is a sealed bid and has to be mailed or delivery service to the Purchasing Office address list on the Invitation to Bid in duplicate. The bid has to be at Purchasing on or before July 20, 2018. Bids will open at 2:00 PM EST.

Req No: 171900 GIS Application Support

PLEASE SIGN ONE (1) COPY OF ADDENDUM AND RETURN TO THE PURCHASING DEPARTMENT. RETAIN THE OTHER COPY FOR YOUR FILES.

Name: Bimal Shah 

Company: Nuorigin systems, inc.

**CITY OF CHATTANOOGA
PURCHASING DEPARTMENT
Mark McKeel
City Hall Suite G13
CHATTANOOGA, TN 37402
TELE: (423) 643-7236
FAX: (423) 643-7244**

ADDENDUM NO: 2

REQ NO: 171900

FINAL SUBMITTAL: July 20, 2018 2:00 PM EST

FINAL QUESTIONS: July 13, 2018 2:00 PM EST

Department: Public Works Administration, GIS Systems Database Management

Changes to Bid No. 305164:

Question received:

- 1. Are we permitted to modify the bid form to include multiple key staff roles and the hourly rates for each?**

Answer: Yes

- 2. The number "508" is included in the quantity on the bid form. Please explain to this number refers?**

Answer: The number "508" is an estimate of hours for service when needed. As the boilerplate says, "Quantities are estimates only. The City of Chattanooga shall guarantee no minimum or maximum amount purchased during the lifetime of the contract."

- 3. Is it permissible to add to the bid form a statement describing our escalation clause for the optional years of the contract (years 2 and 3)?**

Answer: Yes. That way we will know what years 2 and 3 will be.

- 4. To what extent will fleet management be involved in this contract?**

Answer: Yes. Any Public Works Division or Group if there are any GIS custom application needs for Fleet or Facilities Management as they are now part of Public Works.

- 5. The Vendor Requirements in the RFP references relevant experience and references. Do you wish to receive resumes of key staff as well?**

Answer: Yes.

- 6. The bid form has a line item for "estimated delivery". Should we assume that is for the 12-month base contract?**

Answer: Yes.

Req No: 171900 GIS Application Support

PLEASE SIGN ONE (1) COPY OF ADDENDUM AND RETURN TO THE PURCHASING DEPARTMENT. RETAIN THE OTHER COPY FOR YOUR FILES.

Name: Bimal Shah 

Company: Nuozigin Systems, Inc.

CITY OF CHATTANOOGA
PURCHASING DEPARTMENT
Mark McKeel
City Hall Suite G13
CHATTANOOGA, TN 37402
TELE: (423) 643-7236
FAX: (423) 643-7244

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Executive Summary

Company Information

NuOrigin Systems, Inc. (NuOrigin) is a reputed and recognized information services firm, and we are happy to have been actively providing services in the Tennessee area to the local city and county government agencies for the past 10+ years. NuOrigin was founded in 2005 with a simple goal to provide software development and technology consulting services. We have total 6 employees (4 full-time and 2 part-time). We provide software solutions based on state-of-the-art technologies through a comprehensive and integrated enterprise software development approach.

We are committed to assisting our clients to increase their productivity and reduce their costs through investing in technology. We offer a wide range of services in the area of Enterprise Asset Management, Business Process Automation, Database Design & Development, Data Entry and Migration, Geospatial Information Management, Mobile Application Development, Web Application Development, System Integration, and Quality Assurance & Testing. We have designed and developed robust software solutions for virtually all industries.



NuOrigin uses performance driven Agile application development model and follows industry standard and state-of-the art coding practices. We believe in providing the most advanced cutting-edge technologies and robust solution all of our clients. Our highly skilled technical staff can quickly develop a reliable, scalable foundation for your application development needs. Our experience with Microsoft and ESRI GIS technologies is unparalleled.

Corporate Office

NuOrigin Systems, Inc.
128 Holiday Ct, Ste 126
Franklin, TN 37067

Hours: 08:00AM – 05:00PM (M-F)
Phone: (615) 815-1488
Fax: (615) 810-8161
Website: <http://www.NuOrigin.com>

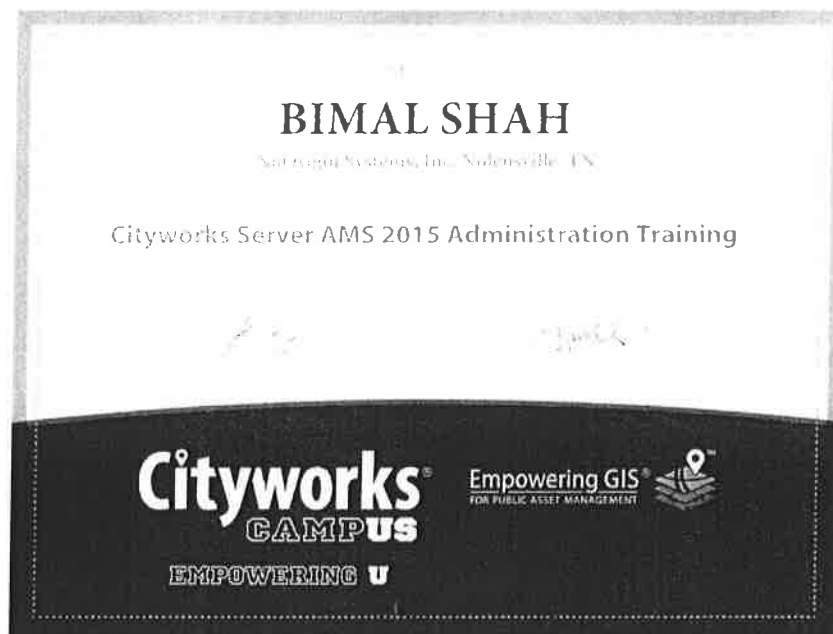
Founded: 2005
Employees: 06 (04 – FT, 02 – PT)
Years providing services: 06

Local Government Expertise

NuOrigin has been providing geospatial solutions and IT consulting services to Municipal Government since 2005. We offer a wide range of services in the area of Business Process Automation, Database Design & Development, Geo-Spatial Information Management and Application Development, System Integration, and Quality Assurance with Microsoft and ESRI suite of products. Our management team is experienced with solving data and workflow problems surrounding the inventory and maintenance management of civil infrastructure assets, and our geospatial application developers have strong experience in the areas of software development methodologies listed below.

NuOrigin designs and integrates systems using MVC, Bootstrap, ESRI JavaScript API, ArcGIS server-based REST-enabled map services, Microsoft WebAPIs with Entity Framework Modeling, SQL Server, and JSON for encrypted data transmission. NuOrigin is comfortable designing custom interface controls as well as using those provided by Kendo UI and Telerik UI libraries. Our origins as asset management consultants have provided us with much experience in the local government space, including multiple successful implementations of and advanced integrations with systems from third parties such as Microsoft, ESRI, CarteGraph, Cityworks and Motorola 311. We are accustomed to working with local government clients who need assistance managing their infrastructural asset inventory and maintenance and assistance with accurately connecting the costs of infrastructural asset management with the jurisdiction's business logic, record-keeping, and accounting procedures.

Our Geospatial Application Lead, Mr. Shah, has 20+ years of experience in Enterprise Asset Management. He was instrumental in developing multiple custom applications with Cityworks and integration with Motorola 311 for the City Of Chattanooga.





Technical Expertise

Our team has experience in application development, configuration and implementation includes following ESRI and Microsoft development technologies:

Application Development Environment:

Visual Studio, Xamarin, XCode, C#.Net, VB.Net, ASP.Net, JavaScript, C++, Objective-C, and Python.

Geospatial Application Development

ArcView, ArcGIS Server, ArcGIS Mobile, ArcSDE, ArcGIS JavaScript and Silverlight APIS, ArcGIS online, ArcGIS Pro.

Databases Design and Development

Microsoft SQL Server, Oracle, MS Access

Server Configuration Environment

Internet Information Services, Microsoft SQL Server, Share Point Portal Server, BizTalk Server, Windows Server, Team Foundation Server.

Tools, Technologies, APIs and Standards

Telerik, Kendo UI, Google APIs, Bing Map API, REST, JSON, GeoJSON, XML, HTML5, AJAX, SignalR, WPF, LDAP, ADSI, MVC, Bootstrap, .Net Framework, .Net Web API, ArcObjects, Crystal Reports, ERWIN, Microsoft Visio, Silverlight, OnTime Bug Tracking suite, Cityworks, HecRAS and Cartograph.





Qualifications and Past Project Experience



Resumes

Bimal Shah, Applications Lead
20 Years of Experience

Areas of Expertise	Educational Qualifications	Training and Certifications
<ul style="list-style-type: none"> ✓ Geospatial Application Development ✓ Database Development ✓ Project Management ✓ Enterprise Asset Management ✓ Windows Azure Environment 	<ul style="list-style-type: none"> ✓ MBA - General Business ✓ P.G. - Advanced Software Development ✓ B.S. - Computer Science 	<ul style="list-style-type: none"> ✓ Cityworks AMS Administration and Configuration ✓ Certified Training in Project Management ✓ Project Management courses for PMP certification

Professional Summary:

Mr. Shah has extensive experience designing software solutions for local, state and federal government. He has over 20 years of hands-on software development and data management experience on Microsoft and ESRI technologies. He is detail-oriented and has strong organizational and communication skills. He has sound knowledge of relational data model designs, enterprise server systems design and integration, third party software and programming methodologies, along with strong troubleshooting and problem-solving skills.

Professional Project Experience:

**CAPITAL FUNDS & PROJECT MANAGEMENT SYSTEM (CFMS & CPMS)
METRO NASHVILLE PUBLIC WORKS, NASHVILLE, TN**

As a Lead Software Engineer designed, developed and implemented web-based capital funds and integrated project management system to manage funds, budgets and capital projects for Department of Public Works. CFMS was designed to allow MPW internal staff to track funds, budgets, purchase orders, invoices and progress on the project activities including, priority, phase, and status. CFMS will further allow to run multiple SQL reports also provide tight integration with Metro Nashville open data portal and display the project at-a-glance for more details. The CPMS on the other hand is for citizens to get more information on the project activities in their area.

**ROADWAY PROJECT MANAGEMENT SYSTEM (RPMS)
METRO NASHVILLE PUBLIC WORKS, NASHVILLE, TN**

Designed ArcGIS server-based roadway project management system to enhance the daily operation of the Metro Nashville Paving division. The primary goal of the project was to capture pavement inspection data to identify defects and generate cost estimates based on the defective occurrences for a given roadway project. Metro also requested access to the project progress reports to identify the overall progress. A web-based solution designed by NuOrigin provided ways to initiate a project and inspect the existing roadway defects to generate project cost estimates. The information will be collected in

disconnected mode over iOS devices and will be synchronized with centralized Geo-Database using cell network or Wi-Fi using WCF services. The system will utilize ESRI Enterprise Geo-Database (ArcSDE) and ArcGIS server REST-enabled map services to present the data on the map.

INFRASTRUCTURE ASSET INSPECTION SYSTEM METRO NASHVILLE WATER SERVICES, NASHVILLE, TN

In March of 2009, Metro Water Services (MWS) entered into a federal agreement to clean up Nashville's waterways by limiting or eliminating the flow of sewage into the Cumberland River and the tributaries to ensure compliance with the Clean Water Act. The Consent Decree features different methods that mandate MWS' approach to Nashville's two different sewer systems: the Sanitary Sewer System (SSS) and the Combined Sewer System (CSS). Designed and managed real-time Infrastructure Asset Inspection System on Microsoft Windows Mobile smart phones and Windows Tablets to perform field inspection and data collection of public infrastructures located within the Davidson County by using REST enabled Microsoft Silverlight and ESRI Mapping technologies. Utilizing GPS and Google reverse geo-coding technologies, an infrastructure asset was inspected and a record was created on site using cellular connection. The system also allowed in-house staff to review, track, manage, and QC the real-time field inspections for field staff with the mobile devices, and provide field staff with necessary alerts and directions as needed. Tools & Technologies: ArcGIS Server 10.1, ArcGIS Mobile 10.1, Windows Mobile 8, Silverlight, REST API, A-GPS, ASP.Net, VB.Net, SQL Server 2012, Crystal Reports 2012, Agile Methodology.

FLOOD INSPECTION MANAGEMENT SYSTEM (FIMS) METRO NASHVILLE WATER SERVICES, NASHVILLE, TN

Designed and developed real-time Flood Inspection Management System (FIMS) on Microsoft Windows Mobile smart phones to perform field inspection and data collection of storm water infrastructures located within the flood inundation area. FIMS included an easy to navigate GIS map of Nashville, including the storm water infrastructures, roadways, and streams. Utilizing GPS and Google reverse geo-coding technologies, a field inspection point was created on site and the data collection form was populated with preliminary damage assessment information using AT&T 3G cellular connection. The system also allowed in-house staff to review, track, and manage and QC the real-time field inspections for field staff with the mobile devices and provide field staff with necessary alerts and directions as needed. Tools & Technologies: ArcGIS Server 9.3.1, ArcGIS Mobile 9.3.1, A-GPS, ASP.Net, VB.Net, SQL Server 2005, Crystal Reports 2008, Agile Methodology.

ILLICIT DISCHARGE DETECTION AND ELIMINATION SYSTEM (IDDE) CITY OF CHATTANOOGA, CHATTANOOGA, TN

Designed ESRI ArcGIS server based geospatial information management system to create and manage IDDE cases using ESRI GIS web editing technologies to gather underlying spatial information, attach pictures, enhance communication using automated case status notifications, generate case reports, migrate legacy data and view information using ArcGIS server map viewer remotely on smartphones and tablets (iPads). The WebAPI is used to query data from SQL server geo-database as Geo-JSON responses and parse to show information on web pages and interactive map using HTML5 technologies. The system allowed end-user to search cases by various parameters in saved state mode

and export the results to various predefined templates to generate reports using Microsoft SQL Server Reporting Services.

MOTOROLA CSR-CITYWORKS INTEGRATION

CITY OF CHATTANOOGA, TENNESSEE

The city had been using the Motorola's CSR/311 Service Request system since last few years. They also wanted to implement Azteca Systems GIS based Service Request and Work Order Infrastructure Management System (IMS), to provide progress updates to council members, to track ongoing & future projects, and to improve the way city handles its day to day operations. The Interface was developed to synchronize both the systems and also to share information stored in both the databases using XML standards in event-based environment. Tools & Technologies utilized: XML Web Services, VB.NET, ARCGIS 9.0, MS SQL Server 2000, and XML

CRASH RECORDS ANALYSIS SYSTEM (CRASH)

CITY OF CHATTANOOGA, TENNESSEE

City Of Chattanooga had a constant need to track on going and past accidents, generate reports and historical data management and analysis. The Crash Records Analysis System (CRAS) was developed using ESRI GIS and Microsoft .Net technologies. It has a user-friendly GIS based interface and is easy to learn. Users can use the system to obtain accident statistics for specific locations, intersections, time periods, to query the database by type of accident or driver characteristics etc., and to generate reports to be sent to the screen, to a file, or to a printer. Tools & Technologies utilized: VB.NET, ARCGIS 9.1, ESRI Personal Geodatabase, XML, and Crystal Reports.

SIDEWALK, BIKEWAYS INFORMATION MANAGEMENT SYSTEM (IMS)

METRO NASHVILLE & DAVIDSON COUNTY, TENNESSEE

The IMS was implemented to enhance Metro's communications regarding service request & work orders, to provide progress updates to council members, to track ongoing & future projects, and to improve the way Metro handles its day to day operations. The IMS is accessed and used by the Department of Public Works in Engineering, Special Operation, Streets & Traffic, Paving, and the Codes Department; the City's consultants; and other project area governments. The IMS provides digital access to streets, parcel boundaries, sidewalks, bikeways, pavement, ramps, schools etc. through ESRI's ArcSDE. Most IMS users do not have GIS experience; therefore, the IMS was extended & designed to be user friendly and straightforward. Citizens & general public can also access IMS over the web for various programs. Customization of the HTML viewer was conducted using JavaScript, and ASP.NET to create custom functionality. Tools & Technologies: ArcGIS Server 10.0, Silverlight, REST API, A-GPS, ASP.Net, VB.Net, SQL Server 2012, Crystal Reports 2012, Agile Methodology.

METRO NASHVILLE GREEN PARKING WEBSITE & VEHICLE CARBON OFFSET CALCULATOR

METRO NASHVILLE & DAVIDSON COUNTY, TENNESSEE

Designed and Developed Web-Based application to calculate vehicle carbon offset for the purpose of Green House Gas (GHG) reduction for the Metro's Green Parking Program. The Vehicle Carbon Offset Calculator utilizes the U.S. Environmental Protection Agency (EPA) database and formulas to determine

the estimated total CO2 equivalent (tCO2e, in tons per year) produced by a specific passenger vehicle. For purposes of standardization, the parameters used are 15,000 travel miles per year comprised of 45% highway and 55% city driving. It prompts for model year, make, model and model variant (such as engine and transmission type). The final report shows many statistics of your vehicle fuel consumption; however, the most important value is the Annual Tons of CO2 Emitted. Tools & Technologies utilized: VB.Net, ASP.Net, and XML.

INFRASTRUCTURE ASSET INSPECTION SYSTEM

METRO NASHVILLE & DAVIDSON COUNTY, TENNESSEE

In March of 2009, Metro Water Services entered into an agreement brought by federal courts to clean up Nashville's waterways by limiting or eliminating the flow of sewage into the Cumberland River and the tributaries that feed it and to ensure compliance with the federal Clean Water Act of 1972. The consent decree features different methods that mandate MWS' approach to Nashville's two different sewer systems: The Sanitary Sewer System (SSS) and the Combined Sewer System (CSS). I have designed and managed real-time Infrastructure Asset Inspection System on Microsoft Windows Mobile smart phones and Windows Tablets to perform field inspection and data collection of public infrastructures located within the Davidson County by using REST enabled Microsoft Silverlight and ESRI Mapping technologies. Utilizing GPS and Google reverse geo-coding technologies, an infrastructure asset was inspected and a record was created on site using cellular connection. The system also allowed in-house staff to review, track, and manage and QC the real-time field inspections for field staff with the mobile devices and provide field staff with necessary alerts and directions as needed. Tools & Technologies: ArcGIS Server 10.1, ArcGIS Mobile 10.1, Windows Mobile 8, Silverlight, REST API, A-GPS, ASP.Net, VB.Net, SQL Server 2012, Crystal Reports 2012, Agile Methodology.

FLOOD INSPECTION MANAGEMENT SYSTEM (FIMS)

METRO NASHVILLE & DAVIDSON COUNTY, TENNESSEE

Designed and developed real-time Flood Inspection Management System (FIMS) on Microsoft Windows Mobile smart phones to perform field inspection and data collection of storm water infrastructures located within the flood inundation area. FIMS included an easy to navigate GIS map of Nashville, including the storm water infrastructures, roadways, and streams. Utilizing GPS and Google reverse geo-coding technologies, a field inspection point was created on site and the data collection form was populated with preliminary damage assessment information using AT&T 3G cellular connection. The system also allowed in-house staff to review, track, and manage and QC the real-time field inspections for field staff with the mobile devices and provide field staff with necessary alerts and directions as needed. Tools & Technologies: ArcGIS Server 9.3.1, ArcGIS Mobile 9.3.1, A-GPS, ASP.Net, VB.Net, SQL Server 2005, Crystal Reports 2008, Agile Methodology.

BRIDGE MAINTENANCE MANAGEMENT SYSTEM (BMMS)

METRO NASHVILLE & DAVIDSON COUNTY, TENNESSEE

Designed and managed web-based solution to maintain and track Bridges (Overpasses & Underpasses) using NBI standards to manage Tennessee Department of Transportation (TDOT) Inspection data for Department of public works. Also utilized Microsoft Silverlight technologies along with REST, Bing &

Google API's to better analyze and review GIS data along with real-world data and Crystal Report for Microsoft.Net to generate various reports using XML Web services. Tools & Technologies utilized: ArcGIS 10.1, VB.Net, ASP.Net, SQL Server 2012, Silverlight, XML web services, ArcGIS Server 10.1, REST API, Google and Bing APIs and CrystalReports.Net, Agile Methodology.

UNDERGROUND STORAGE TANK INFORMATION MANAGEMENT SYSTEM

METRO NASHVILLE & DAVIDSON COUNTY, TENNESSEE

Designed and developed an Inventory of the existing Underground Storage Tanks (UST) currently owned by Metro. This will include a TDEC file review and development of UST Database and Information Management System (IMS) that will show tank status, location, size and other relevant parameters. The IMS provides current and historical information regarding each tank and dispensers, prompts or notifies IMS users about upcoming inspections. The IMS also allows users to manage and run reports on the information collected. The IMS also provides ability to the system administrator to add and maintain application level information. This includes creating user accounts, assigning passwords and permission levels, and maintaining lookup table records. IMS is divided into various modules, e.g. Checklist Management, Department Management, Facility Management, Document Management, and Communication Management. Each module has a login screen that authenticates user credentials for active permissions with a single sign-on process. The application user names, passwords, and access permissions are stored in the specified database. Tools & Technologies utilized: VB.Net, ASP.Net, SQL Server 2008, Crystal Reports 2008, and XML, Agile Methodology.

TRAFFIC SIGN INVENTORY SYSTEM

METRO NASHVILLE & DAVIDSON COUNTY, TENNESSEE

Designed and Developed GIS based traffic sign inventory system to maintain and track traffic signs in Davidson County. Responsible for working with sub-consultants and managing data given by them on weekly basis and generating complex reports and integrating system with Azteca Systems' Cityworks to maintain asset related activities. Tools & Technologies: ArcGIS 9.2, VB.Net, ArcSDE 9.2, SQL Server 2005, XML, and Crystal Reports.

SERVICE REQUEST & WORK ORDER MANAGEMENT SYSTEM

CITY OF KNOXVILLE, KNOXVILLE, TENNESSEE

The WorkManager was implemented to enhance City of Knoxville storm water division's communications regarding service request & work orders, to provide progress updates and track ongoing & future projects, and to improve the way City handles its day to day operations. The system was designed from the ground up to convert the old access database single user system to enterprise level web-based application. The system provides digital access to streets, parcel boundaries, council districts, etc. using ESRI's ArcSDE and ArcGIS server Silverlight API. Tools & Technologies utilized: ArcGIS 10.0, ArcGIS Server 10.0, Silverlight, IIS 7.0, VB.NET, ASP.NET, MS SQL Server 2012, and Crystal Report.

ARCGIS EDITING TOOLS

KNOX COUNTY, KNOXVILLE, TENNESSEE

The Knox County government was using VB6 based third party application and had a specified need to design and develop new and improved Microsoft.Net based ArcGIS editing application using agile methodology. I have not only designed and developed the desired application to manage street centerline, address points, subdivisions, parcels, traffic signs and storm water assets along with bulk editing and geo-processing tools but also provided superior level of consulting, project management, data manipulation, and training. Tools & Technologies utilized: C#.Net, ArcGIS 10, ArcObjects, ArcSDE, XML, and Oracle 10g, Agile Methodology.

ECOSPATIAL INFORMATION DATABASE (ESID)

US DEPARTMENT OF INTERIOR, MINERALS MANAGEMENT SERVICE

Designed and Developed SDE database to house resource data which were gathered by various sub-contractors using third party system 'Reworks' software. The resource database contains scientific research publications, GIS data, and the digitized extents of the individual resources. Developed ArcGIS Desktop Extensions to spatially locate and retrieve resource data for scientific analysis. The system permits the user to use keywords or spatial queries to locate, view, report, and download resource data for the specific area of interest. The system also gives an ability to parse and load data from third party software's XML format into ArcSDE based enterprise geo-database. Tools & Technologies utilized: .Net Framework, ArcGIS v10, ArcObjects, VB.Net, Oracle 11i, and ArcSDE

ENERGY INCIDENT TRACKING SYSTEM (EITS)

STATE OF ALABAMA – ENERGY DIVISION

Designed and developed Energy Incident Tracking System (EITS) using ESRI Silverlight mapping technologies to track current and previous energy related incidents as a result of natural disasters. EITS included an easy to navigate ArcGIS online Base-Map of State of Alabama with custom spatial data, including the GAS stations, Pipelines, Smart-Grids, Power lines etc. Utilizing Google reverse geo-coding technologies, an incident location was determined on the map to create an incident point and to populate type specific dynamic data entry form. The system not only allowed multiple departments across the State of Alabama to get notified in the case of emergency and energy event but also let them to review, track, and manage information. Tools & Technologies: ArcGIS Server 10, ArcSDE, Silverlight Mapping API, ASP.Net, VB.Net, SQL Server 2008, Crystal Reports 2008.

COASTAL FIELD DATA COLLECTION MANAGEMENT SYSTEM

STATE OF ALABAMA

Designed and developed the Coastal Field Data Collection & Management System to capture High Water Marks, Primary Frontal Dune and Transect along the State Of Alabama Coastline. The application was designed using ESRI ArcGIS Silverlight API for Windows Phone 7 using AT&T cellular network to query data from database using XML web services. Utilizing Google reverse geo-coding technologies, an incident GPS location was captured on the map to create an incident point and to populate type specific dynamic data entry form and pictures, videos and other documents. The system was fully

equipped with web-based dashboard for In-Office staff to QAQC the collected data in real-time and provide notification and alerts to field crew to complete the process and give closed loop functionality. Tools & Technologies utilized: .Net Framework, Windows Phone 7, ArcGIS Server v10, Silverlight, VB.Net, SQL Server 2008, XML Web Services, and Crystal Reports 2008.

SAP-GIS CRM INTEGRATION

GWINNETT COUNTY, LAWRENCEVILLE, GEORGIA

Assisted junior staff in the design of an Adobe Flex Map Viewer application for internal clients to view service requests made by citizens. Designed and Developed, ArcGIS web services to work with ArcGIS server 10 for the purpose of geocoding service requests as well as returning attributes from intersecting features with address points. The services pass the information to the SAP using web services and provide Bi-directional handshaking mechanism so that either of the system can be accessed by future applications. Tools & Technologies utilized: .Net Framework, ArcGIS Server v10, Adobe Flex API, VB.Net, Oracle 11i, XML Web Services, and ArcSDE

LOCATION BASED UTILITY SEARCH

ARIZONA CORPORATION COMMISSION (ACC), STATE OF ARIZONA

Designed and Developed ArcGIS server-based information management system for ACC to search tabular utility-based data in web-based GIS environment using Google geo-coding API, Townships and Utility. Responsible for designing & developing Interactive Viewer, Google Geocoding API, and data access components. Tools & Technologies utilized: Google, ArcGIS Server, VB.Net, Oracle 10g.

WOLF CREEK DAM INFORMATION MANAGEMENT SYSTEM

US ARMY CORE OF ENGINEERS (USACE)

Designed and Developed ArcGIS server-based information management system for USACE to manage and track spatial and tabular data in web-based GIS environment. Responsible for designing & developing Interactive Map Viewer, Meta data search, Document Management and data access components. Tools & Technologies utilized: ArcGIS Server, ArcSDE, VB.Net, Oracle 10g, Visio, and XML.

BORELOG FIELD DATA COLLECTION AND INFORMATION MANAGEMENT SYSTEM

AMEC EARTH & ENVIRONMENTAL

Designed and Developed ArcGIS server based mobile information management and GPS data collection system organization wide to collect, manage and track bore and interval data in personal handheld and web-based enterprise GIS environment. Responsible for designing & developing Interactive Map Viewer, Synchronization routine, Handheld/Mobile data collection system, Document Management, and data access components. Tools & Technologies utilized: .Net Compact Framework, Windows Mobile 6.0, ArcGIS Server 9.3, ArcSDE 9.3, VB.Net, Oracle 10g.

Sainath Kanaparthy, Application Developer
3 Years of Experience

Areas of Expertise	Educational Qualifications	Training and Certifications
<ul style="list-style-type: none"> ✓ Application Development ✓ Database Development ✓ Virtual Server Environment ✓ Data Replication 	<ul style="list-style-type: none"> ✓ M.S. – Computer Science ✓ B.Tech – Computer Science 	<ul style="list-style-type: none"> ✓ Training in Coding Standards and Best Practices ✓ Training in building Enterprise level Virtual Server Environment and data replication.

Professional Summary:

Mr. Kanaparthy has around 3 years of experience in the applications development, testing, troubleshooting, and implementation. He has high-level programming and related technical skills. He has good understanding client requirements and how they translate to new application features. He is a self-starter with ability to learn and start using new technologies quickly. He can write high quality source code to program complete applications within deadlines.

Professional Project Experience:

**ILLICIT DISCHARGE DETECTION AND ELIMINATION SYSTEM (IDDE)
CITY OF CHATTANOOGA, CHATTANOOGA, TN**

Designed ESRI ArcGIS server based geospatial information management system to create and manage IDDE cases using ESRI GIS web editing technologies to gather underlying spatial information, attach pictures, enhance communication using automated case status notifications, generate case reports, migrate legacy data and view information using ArcGIS server map viewer remotely on smartphones and tablets (iPads). The WebAPI is used to query data from SQL server geo-database as Geo-JSON responses and parse to show information on web pages and interactive map using HTML5 technologies. The system allowed end-user to search cases by various parameters in saved state mode and export the results to various predefined templates to generate reports using Microsoft SQL Server Reporting Services.

**PAVEMENT DISTRESS IDENTIFICATION SYSTEM (PDIS)
METRO NASHVILLE WATER SERVICES, NASHVILLE, TENNESSEE**

Developed Pavement Distress Identification system (PDIS) on smart phones to perform field inspection and data collection of paving. The PDIS included an easy way to navigate GIS map of Nashville. Utilizing GPS and Google reverse geo-coding technologies, a field inspection point was created on site and the data collection form was populated with preliminary distress assessment information using cellular connection. The system also allowed in-house staff to review, track, and manage and QC the real-time field inspections for field staff with the mobile devices and provide field staff with necessary alerts and directions as needed.

A decorative graphic at the top of the page featuring a stylized globe, a bar chart, and various data points.

ROADWAY PROJECT MANAGEMENT SYSTEM (RPMS) **METRO NASHVILLE WATER SERVICES, NASHVILLE, TENNESSEE**

Developed Roadway Project Management System to enhance the daily operation of the Metro Nashville Paving division. The primary goal of the project was to capture pavement inspection data to identify defects and generate cost estimates based on the defective occurrences for a given roadway project. A web-based solution designed by NuOrigin provided ways to initiate a project and inspect the existing roadway defects to generate project cost estimates. RPMS also provides a live schedule of projects in a list-view or report categorized by type, year and any other user-definable field. The system also provides to export data to various formats using SQL Reporting Tools.

COMPANY CONTACTS AND CONTRACTS MANAGEMENT SYSTEM (C3) **ENNOVO GROUP, NASHVILLE, TN**

Developed Company Contacts and Contracts Management System The main aim of the project is to manage the company through this web-based solution. The main processes in this project are login, company, department, Contact, vendor, products, employee, services, contracts and reports. The System enables contract professionals to manage contracts easier and the system provides vendor management, e-mail alerts, templates, tasks & workflow, user-definable fields, reporting/searching, compliance, and many more features. It is designed for organizations of all sizes to streamline the entire contract management process. Manage and upload contract documents into a secured cloud repository and give contract parties access to review, comment or approve documents. The C3 has flexible contract repository making searching and tracking contract documents and data simple but powerful.

LIBRARY MANAGEMENT SYSTEM (LMS) **MORRIS LIBRARY, CARBONDALE IL**

Designed and developed Library Management System. This is an intranet university website used by library admins and other internal staff for viewing, creating and also editing reports. The reports are used to know missing or lost inventories and also late fee payments by the students. The reports also help the library staff to block and view certain user's access privileges and also know overdue dates for them to take necessary action. This system provides the funding information to each department based on each fiscal year to estimate the expenditures and fund allocations for the current year. It also provides the time sheets of employees to the designated users such as admins, it also has the inventories for the courses, classes and other events at library. It helps user to perform lookups and advance search for their requirements.

SUBSCRIPTION REVOLUTION (SURE)

MAGNAQUEST TECHNOLOGIES PVT LTD, HYDERABAD, INDIA

As a Junior Software Engineer involved in developing SURE (Subscription Revolution). The SURE is a Subscriber management, Order taking and billing solution for Cable, Satellite, ISP, Broadband and Convergent Media Operators, built on the latest technologies. It can also give customer-facing staff detailed information on customers' personal information, purchase history, buying preferences and concerns. Order management is the base module of the Sure, which is designed to create customers, new agreements, change agreements, top ups, renewals, disconnections and re-connections for both prepaid and post-paid customers. Order management is also responsible for intimating the business process to provisioning, Billing, Mediation and inventory/Logistics modules. This system integrates with multiple business systems such as content management systems, customer relationship management systems and data collection systems to collect all customer data and then assimilates the same in a customer centric manner for easy look-up and grouping.

Jeff Deason, Project Manager
26 Years of Experience

Areas of Expertise	Educational Qualifications	Training and Certifications
<ul style="list-style-type: none"> ✓ GIS / IT Project Management ✓ Software Documentation ✓ Technical Support & Training ✓ Geodatabase Management ✓ Map Design for Publication ✓ Data Analysis & Reporting ✓ FEMA Public Assistance Project Worksheets ✓ Grants Management 	<ul style="list-style-type: none"> ✓ Bachelor's: Technical Writing (Emphasis on Systems Design) 	<ul style="list-style-type: none"> ✓ GISP Certification ✓ Cityworks Training ✓ Cartegraph Training ✓ RouteSmart Training ✓ Data Visualization w/ Tableau ✓ Agile & Waterfall PM Methods ✓ Google Data Studio ✓ Sage ERP, Sage CRM Training ✓ 2D & 3D Process Plant Design Training

Professional Summary:

Mr. Deason is a certified GIS professional with more than 25 years of experience working at the intersection of AEC disciplines, software development management and documentation, enterprise IT and GIS project management, and civil infrastructure maintenance management. He regularly uses and supports systems that make use of these technologies: ESRI ArcGIS desktop / server environments, Cartegraph PavementView, Cityworks, Envista, RouteSmart, SAGE ERP / CRM, SharePoint, Robohelp / WinHelp, Crystal Reports, SSRS, Visio, Wordpress, Squarespace, HTML/CSS, Excel, Tableau.

Professional Project Experience:

Mr. Deason is an experienced technical writer, a certified GIS professional (GISP), and a capable software development life cycle / IT project manager accustomed to working with business owners and managers, staff with varying backgrounds, and project stakeholders representing multiple disciplines. Jeff is effective in project management and analyst/technician roles, and experienced with computer-assisted civil infrastructure maintenance management systems, FEMA project worksheet reconciliation, data analysis, geodatabase design and administration, map production, website management, workflow analysis, systems / software documentation, standard operating procedures, RFPs, RFQs, and local government contracting.

FEMA PUBLIC ASSISTANCE PROJECT MANAGEMENT - ROW DEBRIS REMOVAL METRO NASHVILLE PUBLIC WORKS

After Nashville's 1000-year flood of 2010, Mr. Deason's team developed the database design used to manage the workflow requirements, the distribution and collection of tools (such as cameras and memory cards), and the detailed capture and reconciliation of daily work artifacts (such as standard digital photographs and load tickets and fuel tickets) related to the removal of flood debris from the Metro ROW. Mr. Deason and his team managed the GIS data used to plan and track daily progress of the hauling companies and each of their many trucks, managed the capture of daily work artifacts, generated the final databases and digital archives required to accurately account for all project costs

and all waste removed from the Metro ROW. Mr. Deason presented the preliminary project close-out documents and all required back-up to Metro Nashville management, and later participated in the FEMA QC Review meetings that resulted in FEMA's reimbursement to the maximum extent possible for the work Metro performed that was related to the ROW clean-up.

METRO NASHVILLE LONG-TERM PAVEMENT MANAGEMENT PROGRAM METRO NASHVILLE PUBLIC WORKS

Mr. Deason contributed portions of the GIS and IT topics within the public document that describes the Metro Nashville Long-Term Paving Program, and he performed the GIS data management procedures required to plan and review the roadway segment condition data and image data captured as annually as part of the program. Many of the periodic data processing requirements (for interfacing with CarteGraph PavementView and PavementView Plus and with Metro's enterprise GIS, for example) that were performed annually as part of this program are now being performed automatically through the Paving department's ongoing use of the Roadway Project Management System (RPMS) described elsewhere within this document.

ROUTESMART IMPLEMENTATION & TRASH/RECYCLING CUSTOMER INFORMATION SYSTEM (TRACI)

METRO NASHVILLE PUBLIC WORKS

Mr. Deason worked with Metro Nashville Public Works staff to implement RouteSmart for ArcGIS in order for Metro to effectively manage the additional trash and recycling pick-up requirements after annexing several new neighborhoods formerly outside the County. All of the required data describing elements of the existing Metro fleet and the third-party contracted-carrier fleets and the customer base (before and after the annexation) and the existing routes was loaded into RouteSmart in order to model the existing routes and examine what-if scenarios. After modeling proposed routes for the expanded service area, Mr. Deason used RouteSmart for ArcGIS to prove Metro Nashville could provide all needed services with no additional fleet resources and no additional staff if they were willing to adopt minor changes to the existing routes. During this project, Mr. Deason also managed a contracted applications programmer through the development of TRACI, an application designed with SQL Server to allow Public Works staff to manage the customer service records and periodic billing (as well as payment waivers for customers with disabilities) for premium-paid trash or recycling pick-up services.

CITYWORKS SR IMPLEMENTATION & TRAINING METRO NASHVILLE PUBLIC WORKS

Mr. Deason worked with Metro Nashville Public Works staff to install and train the Customer Service Department on the use of Cityworks SR for handling in-bound calls from citizens with various concerns. Mr. Deason established the basemap to effectively display clusters of calls for the same complaint, allowing customer service reps to prevent duplicate complaints by ensuring successive callers' requests are assigned to the appropriate infrastructural inventory item represented within the GIS. The Cityworks SR implementation interfaced with the existing Cityworks WO so customer service reps can quickly determine if a repair is scheduled (or subject to a larger planned work effort) and they can be more informative with concerned citizens during their initial complaint calls.

METRO NASHVILLE CENTERLINE GIS DATA MANAGEMENT METRO NASHVILLE PUBLIC WORKS

Mr. Deason worked with Metro staff from the Metro Nashville Planning and Public Works Departments to ensure the centerline data assets being made available as part of Metro's enterprise GIS environment were complete and adherent to the appropriate transportation asset data model required for E-911 and to use many modern routing software/services and standard computerized infrastructure maintenance management systems. The effort involved the review and update of data representing more than 35000 roadway and alley segments, performed by comparison of each data element with known-good to verify and update the direction of travel, the names of the connecting streets, and the existing address range on each side of every segment that is accepted for maintenance by Metro Nashville Public Works.

Past Experience on Similar Projects

All of the following NuOrigin applications been running continuously since implementation.

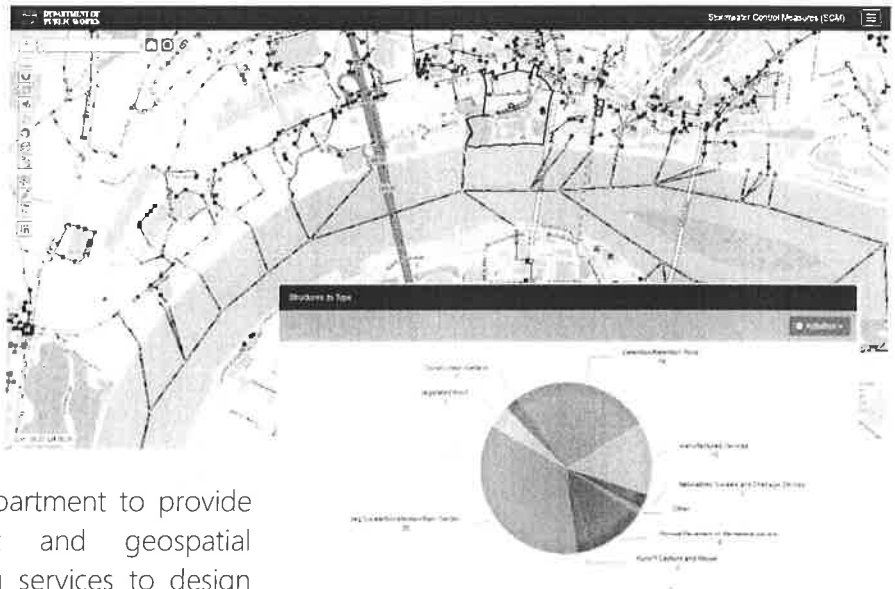
Stormwater Control Measures (SCM) – Chattanooga, TN

Client/Owner:

City of Chattanooga
Public Works Department
1250 Market Street
Chattanooga, TN 37402

Summary:

Type: Field Inspection and Real-time Water Quality Information Management



NuOrigin was contacted by City of Chattanooga Public Works Department to provide custom software development and geospatial information technology consulting services to design and develop GIS based Stormwater Control Measures (SCM) as a part of the water quality program. The primary goal of the project was to create and manage SCM inspections in the field via ArcSDE geodatabase using ESRI GIS web editing technologies, gather underlying required spatial information, track violations, enhance communication using automated case status notifications, generate case reports, migrate legacy data and view information using ArcGIS server map viewer remotely on smartphones and tablets (iPads).

Stormwater Control Measure System (SCMS) allows you to manage stormwater site and structures inspections and related data such as parcel owner, defect type and severity, violations issued, etc. SCMS provides dashboards that summarize the status of Stormwater-related assets and inspection results as they are reported from the field. The system designed by NuOrigin allows Chattanooga staff to conduct or review inspections on Stormwater-related assets and aggregate data from those inspections into dashboards and detailed reports as the inspections occur in real time. The system was designed using MVC, Bootstrap, ESRI JavaScript API, ArcGIS server-based REST-enabled map services, Microsoft WCF Services with Entity Framework Model to query data from SQL server database as JSON responses to show site and inspection locations on the map.

Illicit Discharge Detection and Elimination System (IDDE) -Chattanooga, TN

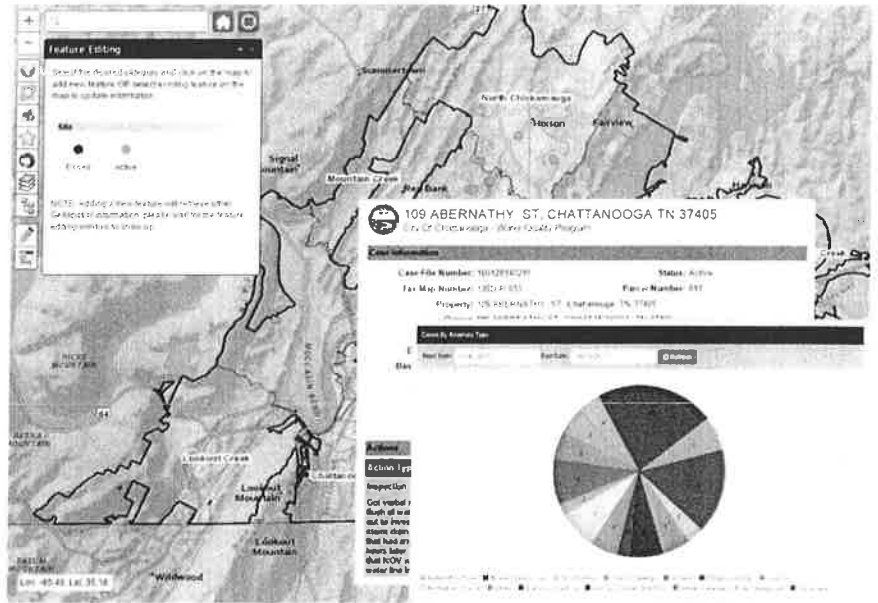
Client/Owner:

City of Chattanooga
 Public Works Department
 1250 Market Street
 Chattanooga, TN 37402

Summary:

Type: Field Inspection and Real-time Water Quality Information Management

NuOrigin was contacted by City of Chattanooga Public Works Department to provide custom software development and geospatial information technology consulting services to design and develop GIS based Illicit Discharge Detection and Elimination System (IDDE) as a part of water quality program. The primary goal of the project was to create and manage IDDE cases in ArcSDE geo-database using ESRI GIS web editing technologies, gather underlying required spatial information, attach pictures, enhance communication using automated case status notifications, generate case reports, migrate legacy data and view information using ArcGIS server map viewer remotely on smartphones and tablets (iPads).



The system was designed using the cutting-edge technologies including ArcGIS server JavaScript API, Microsoft MVC, WebAPI and Entity Framework data access technologies. The WebAPI is used to query data from SQL server geo-database as Geo-JSON responses and parse to show information on web pages and interactive map using HTML5 technologies. The system allowed end-user to search cases by various parameters in saved state mode and export the results to various predefined templates to generate reports using Microsoft SQL Server Reporting Services. The system also used C#, MVC, Bootstrap with adaptive rendering techniques, ESRI Enterprise Geo-Database (ArcSDE) and ArcGIS server REST enabled map services to present the data on the map.

Real-Time Stormwater Inspection System - Chattanooga, TN

Client/Owner:

City of Chattanooga
Public Works Department
1250 Market Street
Chattanooga, TN 37402

Summary:

Type: Field Inspection and Real-time Stormwater Information Management

NuOrigin was contacted by City of Chattanooga Public Works Department to provide custom software development and geospatial information

technology consulting services to design and develop GIS based Illicit Discharge Detection and Elimination System (IDDE) as a part of water quality program. The primary goal of the project was to create and manage IDDE cases in ArcSDE geo-database using ESRI GIS web editing technologies, gather underlying required spatial information, attach pictures, enhance communication using automated case status notifications, generate case reports, migrate legacy data and view information using ArcGIS server map viewer remotely on smartphones and tablets (iPads).

The system was designed using the cutting-edge technologies including ArcGIS server JavaScript API, Microsoft MVC, WebAPI and Entity Framework data access technologies. The WebAPI is used to query data from SQL server geo-database as Geo-JSON responses and parse to show information on web pages and interactive map using HTML5 technologies. The system allowed end-user to search cases by various parameters in saved state mode and export the results to various predefined templates to generate reports using Microsoft SQL Server Reporting Services. The system also used C#, MVC, Bootstrap with adaptive rendering techniques, ESRI Enterprise Geo-Database (ArcSDE) and ArcGIS server REST enabled map services to present the data on the map.



Automated Vehicle Locator (AVL) Mapping System - Chattanooga, TN

Client/Owner:

City of Chattanooga
Public Works Department
1250 Market Street
Chattanooga, TN 37402

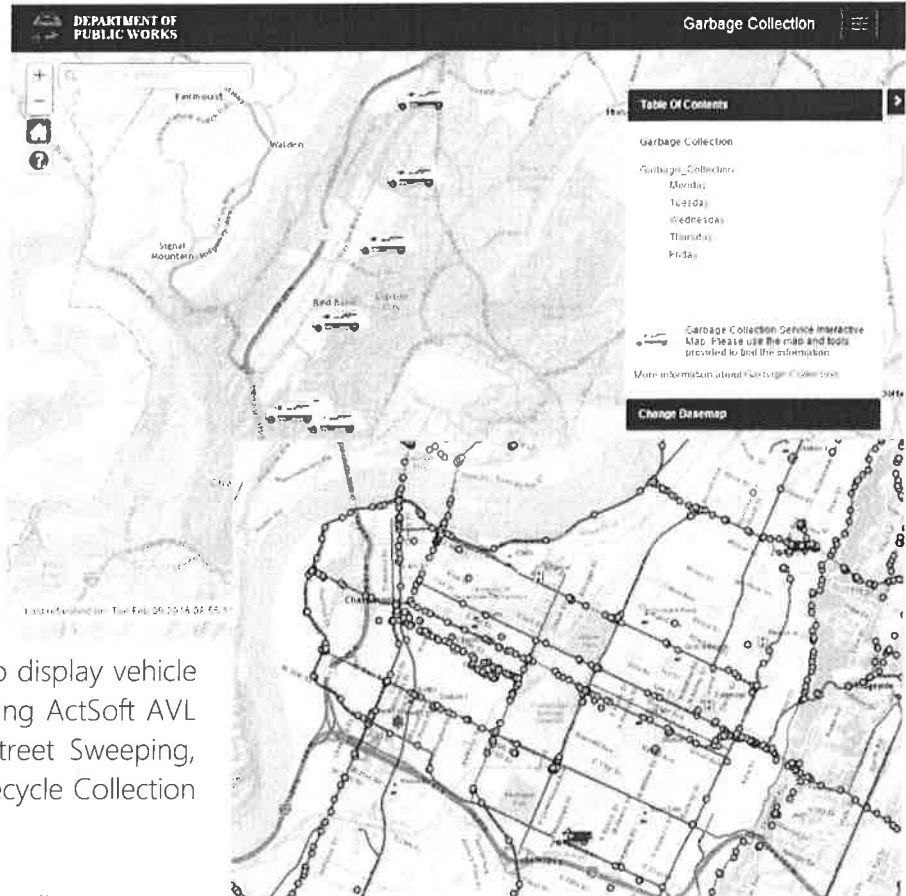
Summary:

Type: Real-time Automated Vehicle Locator and Public Outreach

NuOrigin was contacted by City of Chattanooga Public Works Department to provide Automated Citizen Notification System and responsive ArcGIS server-based web mapping solution to display vehicle locations in real-time by querying ActSoft AVL database for Snow Plowing, Street Sweeping, Trash Pickup and Reuse and Recycle Collection Services.

The system designed by NuOrigin allows citizens to sign-up for the collection services provided by the city and get notifications as an email or SMS, locate vehicle on the map in real-time and get alerts when the vehicle is their area. The system is designed to show the past vehicle locations with distance travelled and allows the city administrators to define collection schedule, see the complete audit trail, manage and maintain citizen records, and view notification history.

The system was designed using ArcGIS server-based REST enabled map services, Microsoft WCF Services with Entity Framework Model to query data from SQL server database as JSON responses to notify customers and show vehicle locations on the map.



Capital Funds and Project Management System (CFMS) - Nashville, TN

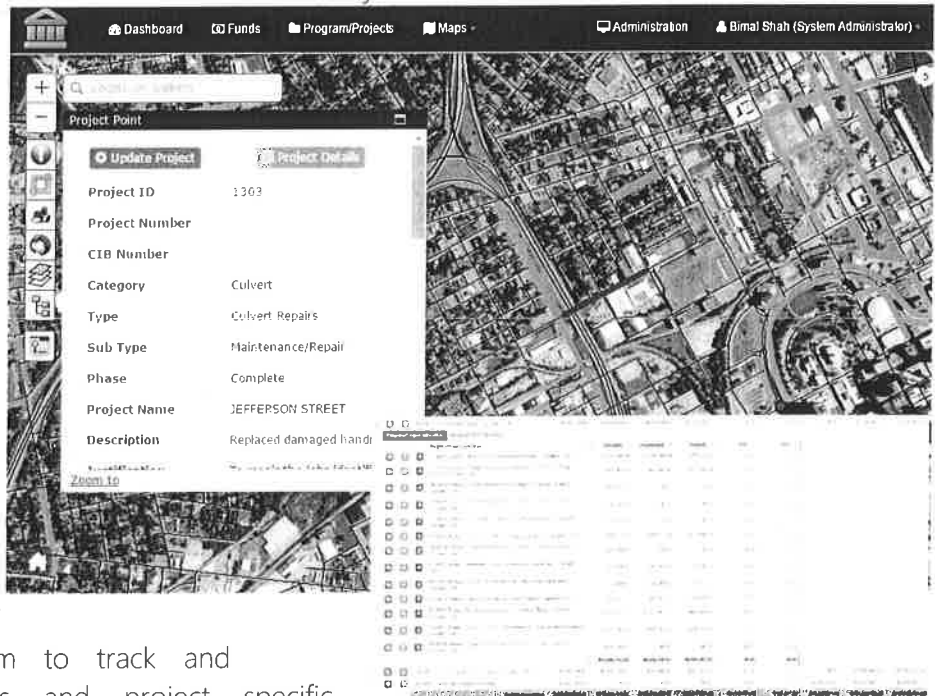
Client/Owner:

Metropolitan Government of Nashville and Davidson County
 Public Works Department
 Engineering Division
 720 South 5th St
 Nashville, TN 37206

Summary:

Type: Funds, Budget &
 Capital Project Management

NuOrigin was contacted by Metro Public Works Department to provide software development and consulting services to design and develop GIS based Capital Funds and Integrated Project Management System to track and manage budget allocations and project specific information. The primary goal of the project was to enhance the legacy process by replacing the budget allocation spreadsheet.



A web-based system designed by NuOrigin provided ways to track and manage funds, budgets, program/projects, purchase orders, invoices, change orders and various other budget and various other project specific information. The system is extremely comprehensive and reduces time in tracking funds, budgets and creating and sharing projects among the various divisions of public works department. The system uses role base security model and allows authorized users to make edits. The project managers can create projects on the map, attach documents, generate reports and link the desired projects with Metro Nashville Open Data Portal. The system is also capable to integrate with EBS using the third party WebAPI and run various reconciliation reports using SQL reporting services.

Roadway Project Management System (RPMS) - Nashville, TN

Client/Owner:

Metropolitan Government of Nashville and Davidson County
 Public Works Department
 Engineering Division
 720 South 5th St
 Nashville, TN 37206

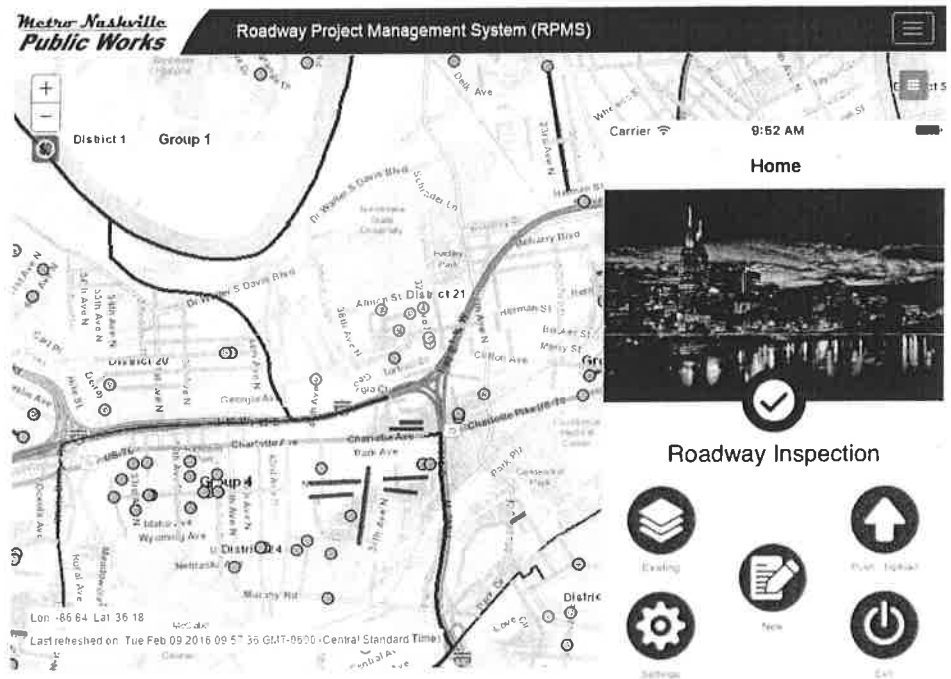
Summary:

Type: Roadway Project Management

NuOrigin has been contacted by Metro Public Work Department to provide software development and consulting services to design and develop GIS based roadway project management system to enhance the daily operation of the Paving division.

The primary goal of the project was to create paving projects in GIS, calculate over-all condition index and capture pavement inspection data to identify defects, generate cost estimates based on the defect occurrences for a given roadway project, view project related data using ArcGIS server map viewer and generate project progress reports to identify the overall progress. ArcGIS desktop extension was developed to create projects in ArcSDE and integrating it with the centralized project database using WCF services. A web-based solution designed by NuOrigin provided ways to initiate a project and inspect the existing roadway defects to generate project cost estimates.

The Roadway project management system focuses on enhancing the legacy way of managing projects and related information. The system is extremely comprehensive and reduces time in creating projects and generating overall project schedule with superior data quality. The system is designed to allow user to create roadway projects from existing centerline segments, calculate overall condition index (OCI), improve existing condition rating process, capture and store roadway inspection data to identify defects, generate project cost estimates, view and attach digital documents and generate reports.



NashDigs - Nashville, TN

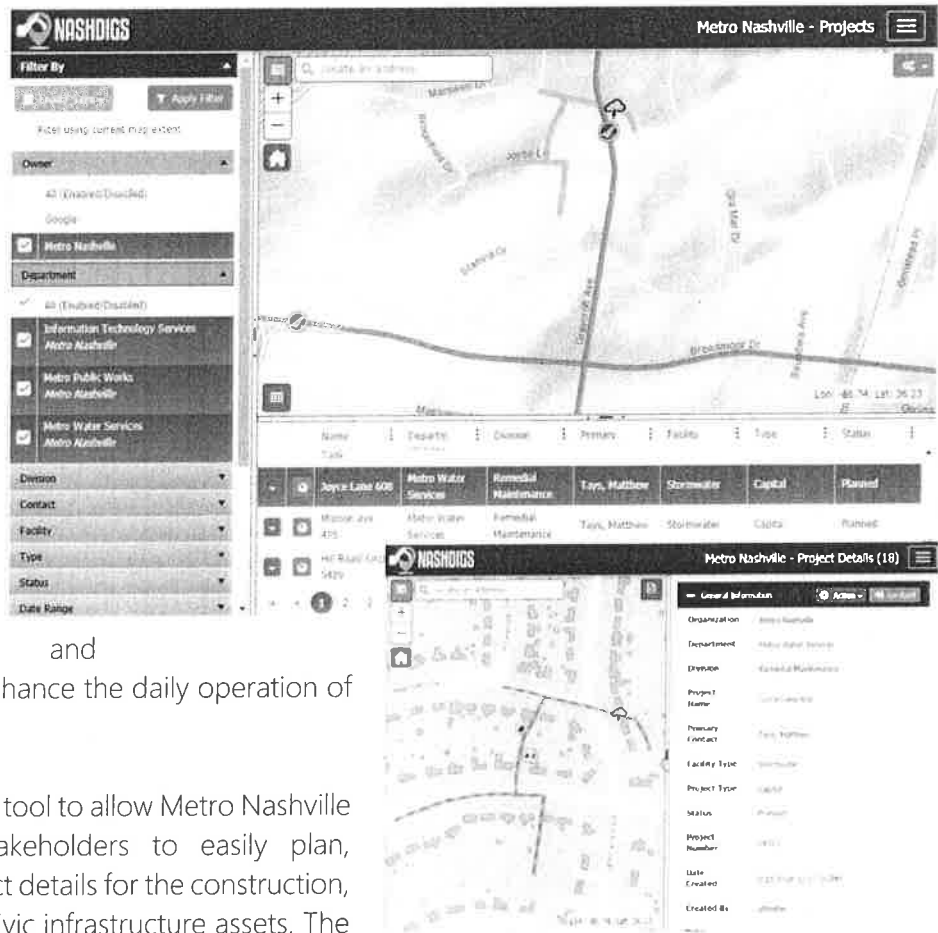
Client/Owner:

Metropolitan Government of Nashville and Davidson County
 Information Services and Technology Department
 700 2nd Avenue South, Suite 301
 720 South 5th St
 Nashville, TN 37219

Summary:
 Type: Construction
 Project Collaboration

NuOrigin has been contacted by Metro Nashville Information Services and Technology Department to provide software development and consulting services to design and develop GIS based construction project management and collaboration system to enhance the daily operation of the metro divisions.

NashDigs is a coordination tool to allow Metro Nashville and selected project stakeholders to easily plan, describe, and review project details for the construction, repair, or remediation of civic infrastructure assets. The Restricted areas from construction or access for specified time windows to prevent conflicts with public events or other planned projects. It allows to manage conflicts associated with projects and restrictions by fostering direct communication between the responsible project managers for all stakeholders, by facilitating multi-stakeholder plan review, and by streamlining the required sign-offs within all stakeholder organizations. Users can navigate the system by focusing on dashboard-level views or detail-oriented views of Projects, Restrictions, and Conflicts. Designated users can create new instances or work toward the resolution of conflicts between instances.



Reference Project Contacts

Mr. Justin Holland
Administrator, Public Work Department
City Of Chattanooga
1250 Market Street
Chattanooga, TN 37402
Phone: (423) 643-6000
Email: JHolland@Chattanooga.gov

Mr. Mickey Park
GIS Manager, Public Work Department
City Of Chattanooga
1250 Market Street
Chattanooga, TN 37402
Phone: (423) 643-6169
Email: MPark@Chattanooga.gov

Mr. Donald Reid
Paving Program Manager, Public Work Department
Metro Nashville & Davidson County
943 Doctor Richard G Adams Drive
Nashville, TN 37207
Phone: (615) 880-3358
Email: Donald.Reid@Nashville.gov

Mr. Jeff Campbell, PE,
Bridge Program Manager, Public Works Department
Metro Nashville and Davidson County
Engineering Division
720 S 5TH Street
Nashville, TN 37206
Phone: (615) 862-8659
Email: Jeff.Campbell@Nashville.gov

Bid Document

Date: July 6, 2018

Requisition No.: 171900

**PURCHASING DEPARTMENT
101 EAST 11TH STREET
CITY HALL
SUITE G13
CHATTANOOGA, TENNESSEE
37402**

Request for Bid (RFB) for the City of Chattanooga, Tennessee

*Proposals will be received at 101 East 11th Street, Suite G13,
Chattanooga, TN 37402 until 2:00 P.M., EST. on July 5, 2018*

Requisition / Bid No.: R171900 / 305164

Ordering Dept.: Fleet Management Division, Public Works

Buyer & E-mail: Mark McKeel mmckeel@chattanooga.gov

Items Being Purchased: GIS Application Support

*****REQUEST FOR BIDS MUST BE RECEIVED*****

2:00 P.M., EST on July 20, 2018.

**The City of Chattanooga reserves the right to reject any and/or all proposals,
waive any informality in the proposals received, and to accept any proposal
which in its opinion may be for the best interest of the City.**

**The City of Chattanooga will be non-discriminatory in the purchase of all goods
and services on the basis of race, color or national origin.**

The City's Standard Terms and Conditions may be found on website:

<http://www.chattanooga.gov/purchasing/standard-terms-and-conditions>

Note: ALL BIDS MUST BE SIGNED

All proposals received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Offeror acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

PLEASE PROVIDE THE FOLLOWING INFORMATION:

Company Name: NuOrigin Systems, Inc.

Mailing Address: 128 Holiday Ct, Suite 126

City & Zip Code: Franklin, TN 37067

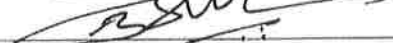
Phone/Toll Free No.: 615-815-1488

Fax No.: 615-810-8161

E-Mail Address: Bimal.Shah@nuorigin.com

Contact Person: Mr. Bimal Shah

Company Title: President

Signature: 

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:
 20-JUL-18 at 2:00 PM

BID NUMBER: 305164

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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RFQ

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City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
<p>Requisition / Bid No. 171900 / 305164 Ordering Dept. Public Works Buyer: Mark McKeel Phone No. 423-643-7236</p> <p>Items Being Purchased: GIS Application Support</p> <p>ATTACHMENTS:</p> <ol style="list-style-type: none"> 1. Specifications (2 pages) 2. Affirmative Action Plan (2 pages) 3. Insurance Requirements (2 pages) 4. Iran Divestment Act Disclosure (1 page) 5. No Contact / No Advocacy Notice (1 page) <p>City of Chattanooga (COC) Terms and Conditions posted on Website http://www.chattanooga.gov/purchasing/standard-terms-and-conditions if you can't download call buyer for a copy</p> <p>This Shall Be A Twelve (12) Month Blanket Contract To Supply GIS Application Support as needed by agencies of the City of Chattanooga</p> <p>The Contract Term May Be Renewed For An Additional Two (2) Twelve (12) Month Terms Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein</p> <p style="text-align: center;">*** Vendor Shall Hold Prices Firm for First (1st) Year of Contract ***</p> <p>Price Escalation Clause: If as a result of a general change in prices or discounts, the Contractor has changed prices to all of its customers, the price under this contract may be adjusted accordingly. Contractor may be requested to show proof of alleged price changes prior to approval of any price adjustments.</p> <p>QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT</p> <p>*** BID MUST BE RECEIVED NO LATER THAN *** *** 2:00 PM EST ON JULY 20, 2018 ***</p> <p>PLEASE SUBMIT BIDS IN DUPLICATE INDICATING BID NUMBER (305164) ON OUTSIDE PACKAGING</p> <p>NOTE: ALL BIDS MUST BE SIGNED All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated</p> <p>Any manufacturer, s names, trade names, brand names, or catalog numbers used in the</p>					

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:
 20-JUL-18 at 2:00 PM
BID NUMBER: 305164

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
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specifications are for the purpose of describing and establishing general quality levels. Such references are not intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****
 PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION

Company Name: NuOrigin Systems, Inc.
 Address: 128 Holiday Ct., Suite 126
Franklin, TN 37067
 Phone/Toll Free No: 615-815-1488
 Fax No: 615-810-8161
 eMail Address: Bimal.Shah@nuorigin.com
 Contact Person's Name: Bimal Shah
 Estimated Delivery: As requested
 Minority-Owned Business: YES Small Business: YES Veteran: _____
 Minority Woman-Owned Business: _____ Disabled Veteran: _____
 Woman Owned Business: _____

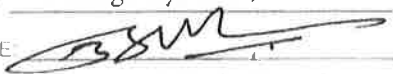
**** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
 Bids will be received at the above mentioned address.

TERMS OF PAYMENT: per City standards
 TELEPHONE NUMBER: 615-815-1488

ALL BIDS MUST BE SIGNED - The undersigned offers the above quoted prices under the conditions contained herein

COMPANY: NuOrigin Systems, Inc.
 SIGNATURE: 
 NAME AND TITLE: Bimal Shah, President

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME: 20-JUL-18 at 2:00 PM BID NUMBER: 305164
BUYER: PHONE #: (423) 643-7230 DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Application Support for GIS and geospatial tools	508	Hour	<u>\$120</u>	<u>\$60,960</u>

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED - The undersigned offers the above quoted prices under the conditions contained herein

The City is Exempt from all Federal and State Tax
 Bids will be received at the above mentioned address.

TERMS OF PAYMENT: per City standards

TELEPHONE NUMBER: 615-815-1488

COMPANY: NuOrigin Systems, Inc.

SIGNATURE:

NAME AND TITLE: Bimal Shah, President

Professional GIS Geospatial Services & Support Blanket Contract:

The City of Chattanooga Public Works GIS is requesting bids from qualified firms to provide professional GIS services for Geospatial Information Management and Custom Geospatial Application Development. All work performed under this invitation to bid will be performed on an "as needed, when needed" basis.

The services may include but are not limited to the following:

Geospatial Information Management

Review, Design and maintain enterprise geodatabases to house existing datasets. GIS Database domains, and related tabular data for the custom geospatial applications and departmental use. Identify the spatial data linkage to in-house as well as third party enterprise asset management systems and migrate the designated GIS datasets to relevant data models.

Design geospatial information management tools and automated services to visualize and extract information on demand to enhance City's existing business processes.

GIS Data Integration, Extraction and Support.

Geospatial Application Development

Provide custom GIS geospatial application development services to maintain and/or upgrade existing GIS and Cityworks applications without losing any functionality.

The application should utilize the responsive web design, Microsoft APIs, ESRI ArcGIS Server, and JavaScript Map API, MVC, C#.Net and Progress technology Kendo UI controls.

Design reporting templates using Microsoft SQL server reporting services and generate reports from the application to be exported into the various file formats.

Design native and hybrid mobile applications for better data visualization and data management.

Provide training to the City staff to use and maintain applications, services and datasets.

Vendor Requirements

The vendor must have strong experience with Water Quality information management and application development. Experience in ESRI GIS Desktop applications, Aztec Cityworks configuration and reporting.

The vendor must have geospatial application development experience with ESRI ArcGIS Server and JavaScript API, ArcObjects, REST enabled services, WebAPI, SQL Server, Reporting Services, ArcSDE, MVC, ASP.Net, JavaScript, Bootstrap, Kendo UI and HTML5.

The vendor should have implemented at least two (2) ArcGIS mapping solutions using the specified tools in facilities of similar size to City of Chattanooga.

The vendor must provide the name and contact information for at least one (1) installation completed within the last year

The vendor must provide references for two (2) mapping solutions which have been operational for at least six (6) months.

The vendor to provide on-call as well as in-person support for the duration of the contract.

Term of Contract

Service Contract will be for twelve (12) months with the option to renewal two (2) additional twelve (12) month periods by mutual agreement.

Service Contract is not to exceed \$95,000 per vendor annually for custom GIS and Geospatial Tools, Application and GIS Data Management Solutions.

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

- 1 The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
- 2 The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
- 3 The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 4 In all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, any contractor and/or subcontractor is further required to file in duplicate within ten (10) days of being notified that it is the lowest responsible bidder, an affirmative action plan with the EEO Director of the City of Chattanooga. This plan shall state the Contractor's goals for minority and women utilization as a percentage of the work force on this project.
- 5 This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project. This plan or attachment thereto shall further describe the methods by which the Contractor or Subcontractor will utilize to make good faith efforts at providing employment opportunities for minorities and women.

During the term of this contract, the Contractor upon request of the City, will make available for inspection by the City of Chattanooga copies of payroll records, personnel documents and similar records or documents that may be used to verify the Contractor's compliance with these Equal Opportunity provisions.

- 6 The Contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 6 in every subcontract so that such provisions will be requested of each subcontractor. The Contractor agrees to notify the City of Chattanooga of any subcontractor who refuses or fails to comply with these equal opportunity provisions. Any failure or refusal to comply with these provisions the Contractor and/or Subcontractor shall be a breach of this contract.



(Signature of Contractor)

Bimal Shah, President, NuOrigin Systems, Inc.

(Title and Name of Construction Company)

7/20/2018

(Date)

REQUIREMENTS FOR INSURANCE COVERAGE

The Contractor shall not commence work under these Contract Documents until he has obtained all insurance required herein nor shall the Contractor allow any Subcontractor to commence work on his subcontract until similar insurance required of the Subcontractor has been obtained by the Subcontractor. Insurance shall be placed by the Contractor with one or more insurance carriers licensed to do business in the State of Tennessee. Each insurance policy shall be renewed ten (10) days before the expiration date of the policy.

Certificates of Insurance shall be filed with the City prior to commencement of the work. These certificates shall contain a provision that coverage's afforded under the policies will not be changed or canceled unless at least fifteen (15) days' written notice has been given to the City. The Contract shall not be binding upon the City until the insurance coverage required herein has been obtained and certificates have been filed with the City.

Adequate insurance coverage shall be maintained by the Contractor at all times. Failure to maintain adequate coverage shall not relieve the Contractor of any responsibilities or obligations under these Contract Documents. In the event any insurance coverage is canceled or allowed to lapse, the Contractor will not be permitted to prosecute the work until adequate and satisfactory insurance has been obtained and Certificates of Insurance furnished to the City. Failure to keep insurance policies in effect will not be cause for any claims for extension of time under these Contract Documents.

All such policies shall be subject to approval by the City Attorney. Should the City Attorney at any time in his sole discretion determine that the insurance policies and certificate provided may not be sufficient to protect the interests of the City because of the insolvency of the insurance company or otherwise, the Contractor shall replace such policies with policies meeting his approval.

The Contractor shall procure and maintain at his own expense, during the Contract Time, insurance as hereinafter specified.

Workmen's Compensation Insurance that shall protect the Contractor against all claims under applicable state workmen's compensation laws shall be maintained. The Contractor shall also be protected against claims for injury, disease or death of employees which, for any reason, may not fall within the provisions of a workmen's compensation law. This policy shall also include an endorsement providing coverage in all States in which work is performed. The Contractor shall require all the Subcontractors to provide similar Workmen's Compensation Insurance for all the Subcontractors' employees on the work unless such employees are covered by the protection afforded by the Contractor. The liability limits shall not be less than that required by statute.

General Public Liability and Property Damage Insurance that shall be written in comprehensive form and shall protect the Contractor against all claims arising from injuries including death, to members of the public or damage to property of others arising out of any act or omission of the Contractor or his agents, employees, or Subcontractors. In addition, this policy shall specifically insure the contractual liability assumed by the successful bidder to defend and indemnify the City of Chattanooga against such claims or suits.

To the extent that the work may require blasting, explosive conditions or underground operation, the comprehensive general public liability and property damage coverage shall contain no exclusion relative to blasting, explosion, collapse of buildings, or damage to underground property.

The comprehensive general public liability and property damage coverage shall also protect the Contractor against all claims from damage to:

1. Private driveways, walks, shrubbery and plantings;
2. Public utility facilities; and
3. U.S Government monuments.

The liability limits shall not be less than

Bodily Injury	\$ 500,000 each person \$1,000,000 each occurrence
Property Damage	\$ 250,000 each occurrence \$ 500,000 aggregate

The general public liability and property damage insurance shall carry an endorsement in form satisfactory to the City to the effect that the Contractor shall save harmless the City from any claims and damages whatsoever, including patent infringement. General public liability and property damage insurance shall be kept in force at all times during the course of the work until such time as the work covered by these Contract Documents has been completed and accepted by the City.

Comprehensive Motor Vehicle Liability and Property Damage Insurance that shall be written in comprehensive form and shall protect the Contractor against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, non-owned, or hired.

The liability limits shall not be less than:

Bodily Injury	\$ 250,000 each person \$ 500,000 each occurrence
Property Damage	\$ 100,000 each occurrence

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED)



(PRINTED NAME)

Bimal Shah

(BUSINESS NAME)

NuOrigin Systems, Inc.

(DATE)

7/20/2018

For further information, please see website:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf

No Contact/No Advocacy

Notice Receipt

City of Chattanooga
Purchasing Division

For Submission with Scaled Bid Solicitation Responses:

Mr. Bimal Shah

(Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of **NuOrigin**

Systems, Inc.

(Business name), the Submitter of the

attached sealed solicitation response to Solicitation # **305164** and said

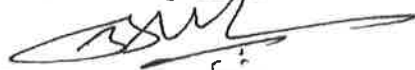
Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature:



Printed Name:

Bimal Shah

Title: **President**

Date: **7/20/2018**



City of Chattanooga
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT RESOURCE CENTER
ENGINEERING DIVISION
1250 MARKET STREET, SUITE 2100
Chattanooga, Tennessee 37402-2713

July, 31, 2018

To: Debbie Talley
Deputy Director of Purchasing
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402
(423) 643-7230
(423) 643-7244 (fax)

Subject: E-17-004-201 King Street Parking Lot

Proposals were received from 2 Vendors for the referenced project. Of the 2 Thomas Brothers scored highest from the review committee's process. We recommend to proceed with negotiated contract base contract of \$400,000 and the added alternate Lighting plan of \$40,000.

Regards,


Jason Payne,
Project Coordinator

City of Chattanooga | Department of Public Works



City of Chattanooga

Mayor Andy Berke

August 15, 2018

Mr. Justin Holland
Administrator, Public Works Department
Parks Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

Subject: 170823 / 305146 – Grounds Maintenance for City Park Levees & Greenway – Parks Division – Public Works Department

Dear Mr. Holland:

Council approval is recommended to issue two (2) blanket contracts for Grounds Maintenance for City Park Levees & Greenway, Parks Division, Public Works Department. The contract will be for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. The estimated annual expenditure for this contract is \$31,000.

The invitation to bid was sent to twenty-five (25) vendors as well as formally advertised. Bids were received from four (4) vendors shown below. Bids are retained on file in the Purchasing Office for your review upon request.

Vendors

Special Touch Lawn Care
Images Landscape Service, Inc
CityGreen Services
Ordered Steps Lawncare & More Corporation

Page 2

Grounds Maintenance for City Park Levees & Greenway

I recommend awarding the blanket contracts for Grounds Maintenance for City Park Levees & Greenway to CityGreen Services, 206 Merriman Avenue, Chattanooga, TN 37415 and Special Touch Lawn Care, 4608 Woodmere View Circle, Chattanooga, TN 37411, as the best complete bid meeting specifications for the City of Chattanooga. Ordered Steps Lawncare & More Corporation was the low bidder for Item #3, due not receiving information the specifications, Section 4.1.2, Parks could not award to this vendor. Therefore, Parks Division recommends awarding the contracts to CityGreen Services (Item #'s 1 & 3) and Special Touch Lawn Care (Item #2), who offers the best value bids which meets the specifications for the City of Chattanooga.

Respectfully yours,

A handwritten signature in cursive script that reads "Bonnie Woodward".

Bonnie Woodward
Director of Purchasing

BW/mlm

Attachments

**Bid Tabulation - Bid No. 305146 / Req No. 170823
Grounds Maintenance for City Parks**

Line#	Item Description	Special Touch Lawn Care			Images Landscape Service, Inc			CityGreen Services			Ordered Steps Lawncare and More Corporation		
		Unit	Unit Price	Extended Price	Unit Price	Quantity	Extended Price	Unit Price	Quantity	Extended Price	Unit Price	Quantity	Extended Price
1	Homeless Health Center, 730 east 11th Street Levee Greenway: South Chickamauga Greenway Levee	Each	\$ 75.00	\$ 2,700.00	\$ -	36	\$ -	\$ 70.00	36	\$ 2,520.00	\$ 75.00	36	\$ 2,700.00
2	Brainerd Road Levee & Shallowford Road Levee	Each	\$ 250.00	\$ 9,000.00	\$ 585.00	36	\$ 21,060.00	\$ 420.00	36	\$ 15,120.00	\$ 300.00	36	\$ 10,800.00
3	South Chickamauga Greenway	Each	\$ 750.00	\$ 27,000.00	\$ -	36	\$ -	\$ 525.00	36	\$ 18,900.00	\$ 450.00	36	\$ 16,200.00
TOTAL:				\$ 38,700.00			\$ 21,060.00			\$ 36,540.00			\$ 29,700.00
Contact:		Michael Jones 4608 Woodmere View Circle Chattanooga, TN 37411 net.30			Ruben Viva P O Box 28024 Chattanooga, TN 37424 net.30			George Parrish 206 Merriman Avenue Chattanooga, TN 37415 net.30			Garland Eastman 6207 Talladega Avenue Chattanooga, TN 37421 net.30		
Location:													
Pymt. Terms:													

Turf Tamer, Inc.
1400 East 34th Street
Chattanooga, TN 37407

Special Touch Lawn Service
4608 Woodmere View Circle
Chattanooga, TN 37411

Images Landscape Service LLC
4123 Cromwell Road
Chattanooga, TN 37421

AB Property Preservation
3701 Alton Park Blvd
Chattanooga, TN 37410

Fresh Start Lawn Care
P.O. Box 2352
Chattanooga, TN 37363

US Lawns of East Chattanooga
6263 N. Lee Highway
Cleveland, TN 37312

Lawn Pros of Chattanooga
P.O. Box 21892
Chattanooga, TN 37424

MarJah Cleaning
8813 Point South Lane
Chattanooga, TN 37421

TruGreen LP
4135 South Creek Road
Chattanooga, TN 37406

Legacy Turf Management
P.O. Box 58
Chickamauga, GA 30707

Howard Landscape Group, LLC
1511 Maxwell Road
Chattanooga, TN 37412

All Seasons Lawn Care
P.O. Box 24623
Chattanooga, TN 37422

R & A Property Maintenance
290 Brentwood Lane
Dunlap, TN 37327

**Metro Lawn Care Landscape
Management**
6114 Bonny Oaks Drive
Chattanooga, TN 37416

**ERMC III property Management
Company**
6148 Lee Highway, Suite 300
Chattanooga, TN 37421

Free Enterprises, LLC
434 Kelsey Drive
Rossville, GA 30741

**Ordered Steps Lawncare & More
Corporation**
6207 Talladega Avenue
Chattanooga, TN 37421

CBR Property Maintenance
P.O. Box 192
Chickamauga, GA 30707

Grass Buster Lawn Maintenance
503 Highbury Lane
Hixson, TN 37343

Crider Landscaping
1645 Wendy Circle
Soddy Daisy, TN 37379

**C. L. Empire Landscape & Lawn
Care**
612 Midland Pike
Chattanooga, TN 37411

Ground Zero Land Care
4123 Cromwell Road
Chattanooga, TN 37421

Earthscapes
3611 Amnicola Highway
Chattanooga, TN 37406

City Green Services
206 Merriman Avenue
Chattanooga, TN 37415

Collins Landscaping
1614 E. 14th Street
Chattanooga, TN 37404

Date: June 11, 2018

Requisition No.: 170823

**PURCHASING DEPARTMENT
101 EAST 11TH STREET
CITY HALL
SUITE G13
CHATTANOOGA, TENNESSEE
37402**

Request for Bid (RFB) for the City of Chattanooga, Tennessee

*Proposals will be received at 101 East 11th Street, Suite G13,
Chattanooga, TN 37402 until 2:00 P.M., EST. on June 28, 2018*

**Requisition / Bid No.: R170823 / 305146
Ordering Dept.: Parks Division, Public Works
Buyer & E-mail: Mark McKeel mmckeel@chattanooga.gov**

Items Being Purchased: Grounds Maintenance for City Parks

*****REQUEST FOR BIDS MUST BE RECEIVED*****

2:00 P.M., EST on June 28, 2018

*****PRE-BID CONFERENCE WILL BE CONDUCTED*****

10:00 A.M., EST on June 19, 2018

The City of Chattanooga reserves the right to reject any and/or all proposals, waive any informality in the proposals received, and to accept any proposal which in its opinion may be for the best interest of the City.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color or national origin.

The City's Standard Terms and Conditions may be found on website:
<http://www.chattanooga.gov/purchasing/standard-terms-and-conditions>

Note: ALL BIDS MUST BE SIGNED

All proposals received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Offeror acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

PLEASE PROVIDE THE FOLLOWING INFORMATION:

Company Name: Special Touch Lawn Care

Mailing Address: 4608 Woodmore View Circle

City & Zip Code: Chattanooga, 37411

Phone/Toll Free No.: (423)760-2380

Fax No.: (423)629-0553

E-Mail Address: Jones8654@epbfi.com

Contact Person: Michael Jones

Company Title: Owner

Signature: 

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:
 28-JUN-18 at 2:00 PM

BID NUMBER: 305146

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
Requisition / Bid No.: 170823 / 305146 Ordering Dept.: Parks Division, Public Works Department Buyer: Mark McKeel Phone No.: 423-643-7236 Items Being Purchased: Grounds Maintenance for City Parks ATTACHMENTS: 1. Specifications (11 pages) 2. Locations & Info Sheet (1 page) 3. Site Maps (5 pages) 4. Affirmative Action Plan (2 pages) 5. Insurance Requirements (see page 1 of specifications) 6. Iran Divestment Act Disclosure (1 page) 7. No Contact / No Advocacy Notice (1 page) City of Chattanooga (COC) Terms and Conditions posted on Website http://www.chattanooga.gov/purchasing/standard-terms-and-conditions If you can't download call buyer for a copy. NOTE: A Pre-Bid Conference will be held June 19, 2018 at 10:00 AM, in the Training Room of the Paul Clark Building, 900 East 11th Street, Chattanooga, TN 37403 Attendance at the Pre-Bid is Preferred. NOTE: Please Quote Price per Cut This Shall Be A Twelve (12) Month Blanket Contract To Supply Grounds Maintenance for City Parks. The Contract Term May Be Renewed For An Additional Two (2) Twelve (12) Month Term Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein. QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT. *** BID MUST BE RECEIVED NO LATER THAN *** *** 2:00 PM EST ON JUNE 28, 2018 *** PLEASE SUBMIT BIDS IN DUPLICATE INDICATING BID NUMBER (305146) ON OUTSIDE PACKAGING NOTE: ALL BIDS MUST BE SIGNED All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated. Any manufacturer;s names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality					

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V E N D O R	RFQ
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M A I L T O	City of Chattanooga 101 East 11th Street, Suite G13 Chattanooga, TN 37402
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Item	Class-Item	Quantity	Unit	Unit Price	Total
levels. Such references are not intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item. The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city. The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin. **** NOTE **** PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION: Company Name <u>Special Touch Lawn Care</u> Address <u>4608 Woodmore View Circle</u> <u>Chattanooga, Tennessee 37411</u> Phone/Toll-Free No. <u>(423)760-2380</u> Fax No. <u>(423)629-0553</u> eMail Address <u>Jones8654@epbf.com</u> Contact Person's Name <u>Michael Jones</u> Estimated Delivery _____ Minority-Owned Business <input checked="" type="checkbox"/> Small Business _____ Veteran _____ Minority Woman-Owned Business _____ Disabled Veteran _____ Woman-Owned Business _____ **** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****					

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
 Bids will be received at the above mentioned address.

TERMS OF PAYMENT: Net 30 days
 TELEPHONE NUMBER: (423)760-2380

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: Special Touch Lawn Care
 SIGNATURE:
 NAME AND TITLE: Michael Jones, Owner

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:
 28-JUN-18 at 2:00 PM

BID NUMBER: 305146

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Grounds Maintenance: Homeless Health Clinic 730 E 11th St	36	Each	<u>75.00</u>	<u>2,700.00</u>
2	Grounds Maintenance: Levee Greenway	36	Each	<u>250.00</u>	<u>9,000.00</u>
3	Grounds Maintenance: South Chickamauga Creek Greenway	36	Each	<u>750.00</u>	<u>27,000.00</u>

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
 Bids will be received at the above mentioned address.

TERMS OF PAYMENT: Net 30 days

TELEPHONE NUMBER: (423)760-2380

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: Special Touch Lawn Care

SIGNATURE: *Michael Jones*

NAME AND TITLE: Michael Jones, Owner

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED)



(PRINTED NAME)

Michael Jones

(BUSINESS NAME)

Special Tough Lawn Care

(DATE)

6/28/18

For further information, please see website:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. In all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, any contractor and/or subcontractor is further required to file in duplicate within ten (10) days of being notified that it is the lowest responsible bidder, an affirmative action plan with the EEO Director of the City of Chattanooga. This plan shall state the Contractor's goals for minority and women utilization as a percentage of the work force on this project.
5. This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project. This plan or attachment thereto shall further describe the methods by which the Contractor or Subcontractor will utilize to make good faith efforts at providing employment opportunities for minorities and women.

During the term of this contract, the Contractor upon request of the City, will make available for inspection by the City of Chattanooga copies of payroll records, personnel documents and similar records or documents that may be used to verify the Contractor's compliance with these Equal Opportunity provisions.

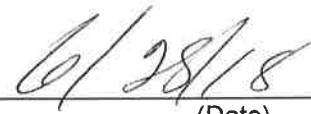
6. The Contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 6 in every subcontract so that such provisions will be requested of each subcontractor. The Contractor agrees to notify the City of Chattanooga of any subcontractor who refuses or fails to comply with these equal opportunity provisions. Any failure or refusal to comply with these provisions the Contractor and/or Subcontractor shall be a breach of this contract.



(Signature of Contractor)

Owner, Special Touch Lawn Care

(Title and Name of Construction Company)



(Date)

No Contact/No Advocacy

Notice Receipt

City of Chattanooga

Purchasing Division

For Submission with Sealed Bid Solicitation Responses:

Michael Jones (Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of Special Touch Lawn Care

(Business name), the Submitter of the

attached sealed solicitation response to Solicitation # R170823/305146 and said

Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature:



Printed Name:

Michael Jones

Title: Owner

Date: 6/28/18

Employees-Special Touch Lawn Care

- 1) Mike Jones, II
Darrell Armour
Kevin Howard
Derwin Jenkins
Joe Maffett

- 2) Mike Jones-2006
Darrell Armour-2011

Licenses-Special Touch Lawn Care

City -- 50308436

County - 169897225

References

Rod Morton
Neighborhood Services
City of Chattanooga
rmorton@chattanooga.gov
423-643-7334

Andre' Davis
General Supervisor
City of Chattanooga
amdavis@chattanooga.gov
423-643-6831

Inventory ID	Equipment Name	Description
Truck	Ford Truck 350	2001 350 Landscape Truck
Truck	2004 Isuzu NPR	2004 NPR Box Truck
Truck	2003 Isuzu NPR	2003 NPR Box Truck
Truck	2002 Isuzu NPR	2002 NPR Box Truck
Truck	Ford Truck 350	2006 350 Landscape
Truck	Ford Truck E350	1995 E350 Box Landscape Truck
Truck	Chevrolet Pickup Truck	2006 Chevrolet Truck and Trailer
Truck	Nissan Titan Truck	2005 Nissan Titan Truck and Trailer
Truck	Chevrolet Dump Truck	1999 Dump Truck
Truck	2003 Chevrolet	2003 Chevrolet Landscape Truck
Mower	72" John Deere Mower	72" Zero Turn Rider Mower
Mower	72" John Deere Mower	72" Zero Turn Rider Mower
Mower	72" Exmark Mower	72" Zero Turn Rider Mower
Mower	60" John Deere Mower	60" Zero Turn Rider Mower with bagger
Mower	60" John Deere Mower	60" Zero Turn Rider Mower
Mower	60" John Deere Mower	60" Zero Turn Rider Mower
Mower	60" Exmark Mower	60" Zero Turn Rider Mower
Mower	60" Exmark Mower	60" Zero Turn Walk Behind Mower
Mower	60" Exmark Mower	60" Zero Turn Walk Behind Mower
Mower	54" John Deere	54" Zero Turn Rider Mower
Mower	52" SCAG Mower	52" Zero Turn Walk Behind Mower
Mower	48" Snapper Mower	48" Zero Turn Walk Behind Mower
Mower	48" John Deere Mower	48" Zero Turn Walk Behind Mower
Mower	36" Snapper mower	36" Zero Turn Walk Behind Mower
Mower	36" Exmark Mower	36" Zero Turn Walk Behind Mower
Mower	36" Exmark Mower	36" Zero Turn Walk Behind Mower
Mower	36" SCAG	36" Zero Turn Walk Behind Mower
String Trimmer	KAWASKI	KAL35A
String Trimmer	Red Max String Trimmer	BCZ260TS
String Trimmer	Red Max String Trimmer	
String Trimmer	Maruyama String Trimmer	
String Trimmer	Maruyama String Trimmer	
String Trimmer	Echo String Trimmer	SRM-230
Hedge Trimmer	Echo String Trimmer	SRM-225
Hedge Trimmer	Echo Hedge Trimmer	ECHO-PRS-225
Hedge Trimmer	Echo Hedge Trimmer	
Hedge Trimmer	Red Max Hedge Trimmer	
Hedge Trimmer	Echo Hedge Trimmer	SHC225S 21.5CC
Back Pack Blower	Echo Blower	Blows 234 MPH
Back Pack Blower	Echo Blower	Blows 234 MPH
Back Pack Blower	Red Max Back Pack Blower	Blows 236 MPH
Back Pack Blower	Stihl Back Pack Blower	Blows 199 MPH
Back Pack Blower	Stihl Back Pack Blower	Blows 199 MPH
Back Pack Blower	Stihl Blowers	Blows 199 MPH

Model Num	SER NO	Purchased Date	Mileage	Oil Change
	1			
	1			
	1 4KLCAB1R13J801299	1/6/2016		
	1 4KLB4B1R22J800771	12/27/2016		
	1			
	1			
	1			
	1			
	1 1GBJC34JXXFO7379;	1/28/2017	151961	
	1 4KBB4B1R93J801227	12/23/2017		
TCU25673	TC950HA010275			
Z950M	1TC950MDAFT03070;	9/28/2015		
LZS749AKC72400	315604188	3/12/2017		42865
	1			
Z920M				
	TC840AU01062	3/3/2017	283	
LZE740EKC60400	315608229	3/12/2017		42877
TT20KCE	854844			
	315611834	12/2/2017	1026	
SWZV52V-19	D4200543			
	1 2015726234	10/9/2015		
17HP COM 48'	TC7H17BU30330	7/22/2016		42877
	1			
	1			
#THP15KA363	809839	9/28/2019		
	2			
	1			
	1 20161400114	5/23/2016		
	4 1 STOLEN			
	3			
	T49514100393	5/22/2017		
	1 T99914359049	4/8/2017		
	T44912018774			
	2			
	1			
	1 T76814010761	5/28/2016		
	1 770T	1/19/2017		
	1 770T			
	1			
BR550	271841449	1/12/2017		
BR550				
Bad				

Chain Saw	Echo Chain Saw		
Chain Saw	Echo Chain Saw	CS490	
Pressure Wash	Suzki Pressure Washer	3100 PSI	
Pressure Wash	Honda Pressure Washer		3600
Compressor	Craftman Compressor		
Aerator	50" Spike aerator		
Wheel Barrel			
Rakes			
Brooms			
JACK	AC DELCO	FLOOR JACK	
Ladder	24' Alumimum ladder	24' Aluminum Extension Ladder	
Ladder	24' Yellow Extension Fiberglass Ladder	24' Yellow Extension Fiberglass Ladder	

1
MOD C34312032715 1/14/2017
3100PSIPWSUB 1/16/2017

Bad

1
34122 1/14/2017

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:

28-JUN-18 at 2:00 PM

BID NUMBER: 305146

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

BUYER:

PHONE #: (423) 643-7230

DELIVERY REQUIRED:

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CITY GREEN SERVICES

M City of Chattanooga
A 101 East 11th Street, Suite G13
I Chattanooga, TN 37402
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Item	Class-Item	Quantity	Unit	Unit Price	Total
Requisition / Bid No.: 170823 / 305146 Ordering Dept.: Parks Division, Public Works Department Buyer: Mark McKeel Phone No.: 423-643-7236 Items Being Purchased: Grounds Maintenance for City Parks ATTACHMENTS: 1. Specifications (11 pages) 2. Locations & Info Sheet (1 page) 3. Site Maps (5 pages) 4. Affirmative Action Plan (2 pages) 5. Insurance Requirements (see page 1 of specifications) 6. Iran Divestment Act Disclosure (1 page) 7. No Contact / No Advocacy Notice (1 page) City of Chattanooga (COC) Terms and Conditions posted on Website http://www.chattanooga.gov/purchasing/standard-terms-and-conditions If you can't download call buyer for a copy. NOTE: A Pre-Bid Conference will be held June 19, 2018 at 10:00 AM, in the Training Room of the Paul Clark Building, 900 East 11th Street, Chattanooga, TN 37403 Attendance at the Pre-Bid is Preferred. NOTE: Please Quote Price per Cut This Shall Be A Twelve (12) Month Blanket Contract To Supply Grounds Maintenance for City Parks. The Contract Term May Be Renewed For An Additional Two (2) Twelve (12) Month Term Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein. QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT. *** BID MUST BE RECEIVED NO LATER THAN *** *** 2:00 PM EST ON JUNE 28, 2018 *** PLEASE SUBMIT BIDS IN DUPLICATE INDICATING BID NUMBER (305146) ON OUTSIDE PACKAGING NOTE: ALL BIDS MUST BE SIGNED All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated. Any manufacturer;s names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality					

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:
 28-JUN-18 at 2:00 PM

BID NUMBER: 305146

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
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levels. Such references are not intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****
 PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:

Company Name SEKES SERVICES, LLC DBA CITYGREEN SERVICES

Address 206 MERRIMAN AVE
CHATTANOOGA, TN 37405

Phone/Toll-Free No. 423-648-5263

Fax No. 423-648-5265

eMail Address GEORGE@CITYGREENSERVICES.COM

Contact Person's Name GEORGE PARKESH

Estimated Delivery 6/29/18

Minority-Owned Business _____ Small Business Veteran _____

Minority Woman-Owned Business _____ Disabled Veteran _____

Woman-Owned Business _____

**** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein

COMPANY: SEKES SERVICES, LLC

SIGNATURE: GP

NAME AND TITLE: GEORGE PARKESH
OPERATIONS MANAGER

The City is Exempt from all Federal and State Tax.
 Bids will be received at the above mentioned address.

TERMS OF PAYMENT: NET 30

TELEPHONE NUMBER: 423-648-5263

BID SOLICITATION



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:

28-JUN-18 at 2:00 PM

BID NUMBER: 305146

BUYER:

PHONE #: (423) 643-7230

DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Grounds Maintenance: Homeless Health Clinic 730 E 11th St	36	Each	\$ <u>70⁰⁰</u>	\$ <u>2,520⁰⁰</u>
2	Grounds Maintenance: Levee Greenway	36	Each	\$ <u>420⁰⁰</u>	\$ <u>15,120⁰⁰</u> \$ 15,120⁰⁰
3	Grounds Maintenance: South Chickamauga Creek Greenway	36	Each	\$ <u>525⁰⁰</u>	\$ <u>18,900⁰⁰</u>

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

The City is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address.

COMPANY: SIRES SERVICES, LLC

TERMS OF PAYMENT: NET 30

SIGNATURE: [Signature]

TELEPHONE NUMBER: 423-648-5263

NAME AND TITLE: GEORGE PARKER

OPERATIONS MANAGER

No Contact/No Advocacy

Notice Receipt

City of Chattanooga
Purchasing Division

For Submission with Sealed Bid Solicitation Responses:

Chad Sikes (Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of Sikes Services LLC,

DBA C. Sikes Services (Business name), the Submitter of the

attached sealed solicitation response to Solicitation # 305146, and said

Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature:

[Handwritten Signature]

Printed Name:

Chad Sikes

Title: CEO/Partner

Date: 7-2-18

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. In all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, any contractor and/or subcontractor is further required to file in duplicate within ten (10) days of being notified that it is the lowest responsible bidder, an affirmative action plan with the EEO Director of the City of Chattanooga. This plan shall state the Contractor's goals for minority and women utilization as a percentage of the work force on this project.
5. This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project. This plan or attachment thereto shall further describe the methods by which the Contractor or Subcontractor will utilize to make good faith efforts at providing employment opportunities for minorities and women.

During the term of this contract, the Contractor upon request of the City, will make available for inspection by the City of Chattanooga copies of payroll records, personnel documents and similar records or documents that may be used to verify the Contractor's compliance with these Equal Opportunity provisions.

6. The Contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 6 in every subcontract so that such provisions will be requested of each subcontractor. The Contractor agrees to notify the City of Chattanooga of any subcontractor who refuses or fails to comply with these equal opportunity provisions. Any failure or refusal to comply with these provisions the Contractor and/or Subcontractor shall be a breach of this contract.



(Signature of Contractor)

CEO/Partner S. K. Services LLC


(Title and Name of Construction Company)

7-2-18

(Date)

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED) 
(PRINTED NAME) Chad S. Kirk
(BUSINESS NAME) S. Kirk Services, LLC DBA City Green Services
(DATE) 7-2-18

For further information, please see website:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/28/2018*Sample*

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

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

PRODUCER RSS Insurance 6236B Airpark Drive P.O. Box 23685 Chattanooga TN 37421	CONTACT NAME: Deborah Moore	FAX (A/C, No): (423)954-9444	
	PHONE (A/C, No, Ext): (423)954-9100	E-MAIL ADDRESS: mooredeb@rssins.com	
INSURED Sikes Services LLC, CityGreen Services 206 Merriman Ave Chattanooga TN 37415	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Southern Ins Co of VA		26867
	INSURER B: Accident Fund National		12305
	INSURER C: Old Republic Surety		
	INSURER D:		
	INSURER E:		
INSURER F:			

COVERAGES

CERTIFICATE NUMBER: 18-19

REVISION NUMBER:


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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		Y	CPS8952562	01/14/2018	01/14/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY <input type="checkbox"/> OTHER:			CAS8952562	01/14/2018	01/14/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Uninsured motorist \$ 1,000,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input checked="" type="checkbox"/> RETENTION \$ 10,000			CXS8952562	01/14/2018	01/14/2019	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000 \$
B	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WCV6138291	01/14/2018	01/14/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Pesticide Bond Tenn Dept of Agriculture			W150290794	07/16/2017	07/16/2019	\$10,000 Bond Amt

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

PANTHER RESIDENTIAL MANAGEMENT LLC; REAL ESTATE PARTNERS LLC AND THE OWNERSHIP ENTITY(S) OF THEIR OWNED OR MANAGED PROPERTIES are included as an additional insured on the general liability policy.

CERTIFICATE HOLDER**CANCELLATION**

Panther Residential Management, LLC C/O Compliance Depot P.O. Box 11500 Carrollton TX 75011	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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Trucks and Equipment list as of 6/27/2018

2016 Ford F350

2016 Ford F150

2014 Chevrolet 3500 Dump Bed

2014 Isuzu NPR ramp bed

2014 Isuzu NPR ramp bed

2008 Ford F250

2008 Ford F250

2005 GMC 3500 Box Truck

2006 Chevrolet 2500

2001 Isuzu NPR Ramp Bed

Snapper Pro 60" Rider

Exmark 52" Rider

Scag 72" Rider

2(61") Scag Rider

52" Scag Walk Behind

4 Snapper Pro 48" Walk Behind

52" walk behind Snapper

1 exmark 48" walk Behind

Sikes Services LLC, DBA CityGreen Services

Employee Roster as of 6/27/2018

Full time Employees

Christopher Blasengame Hire Date 4/2017

Jose Castro Hire Date 1/2007

Tyler Crouch Hire Date 12/2014

Angelo Martinez Hire Date 1/2008

Romero Orozco Hire Date 4/2008

Bobby Palmer Hire Date 12/2017

Chris Prescott Hire Date 9/2016

George Parrish 7/2017 (over 10 years experience Operations Manager)

Gerrard Wilhoite Hire Date 12/2014

Kelly Youngblood Hire Date 1/2008

Chad Sikes (purchased the Business 2014/Owner/CEO) Has over 20 years of experience

Jennifer Sikes(purchased the business is 2014/Owner/CFO)

Elizabeth Denton Hire Date 5/2018

Tony Massey Hire Date 5/2012

Zack Hobrecht Hire Date 4/2018

Keith Wilkey Hire Date 4/2018

10+ seasonal employees during the growing season



References

UNUM- 25 acres campus of full service landscape maintenance

mbuttrey@unum.com

Fletcher Bright- Retail and Class A office Locations

MissyStrozak missy@fbright.com

Covenant Transport Class A Office and Warehouse Location

Mike Hamric 423-667-0511

Hospice of Chattanooga

Including Rossville, Cleveland, and Chattanooga Locations

Grace Logan

Grace_Logan@hospiceof Chattanooga.com

City of Chattanooga Parks Division

Including 20 parks

Zlatko Kozlica

zkozlica@chattanooga.gov



City Green Services

LANDSCAPE MANAGEMENT

Chad Sikes
CEO
423-602-3647

Jennifer Sikes
CFO
770-490-9615

Tony Massey
Install Supervisor
423-595-6416

Tyler Crouch
Install Crew Leader
423-682-2580

Kelly Youngblood
Office / Interior

Gerrard Wilhoit
Maint Crew Leader
423-682-2480

George Parrish
Maint. Div Manager
423-595-6415

Chris Prescott
Maint Crew Leader
423-682-1254

Elizabeth Denton
Office Manager

Zack Hobrecht
Maint Crew Leader

Ramiro Sr.
Maint Crew Leader
423-595-5907



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Snapper Pro 60" Rider

Exmark 52" Rider

Scag 72" Rider

2(61") Scag Rider

52" Scag Walk Behind

4 Snapper Pro 48" Walk Behind

52" walk behind Snapper

1 exmark 48" walk Behind

2 Honda 21" push Mowers

15 stihl/red max weed eaters

15 Stihl Blowers

5 sets of pruners

2 stihl Chain Saws

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City of Chattanooga Parks Division

Including 20 parks

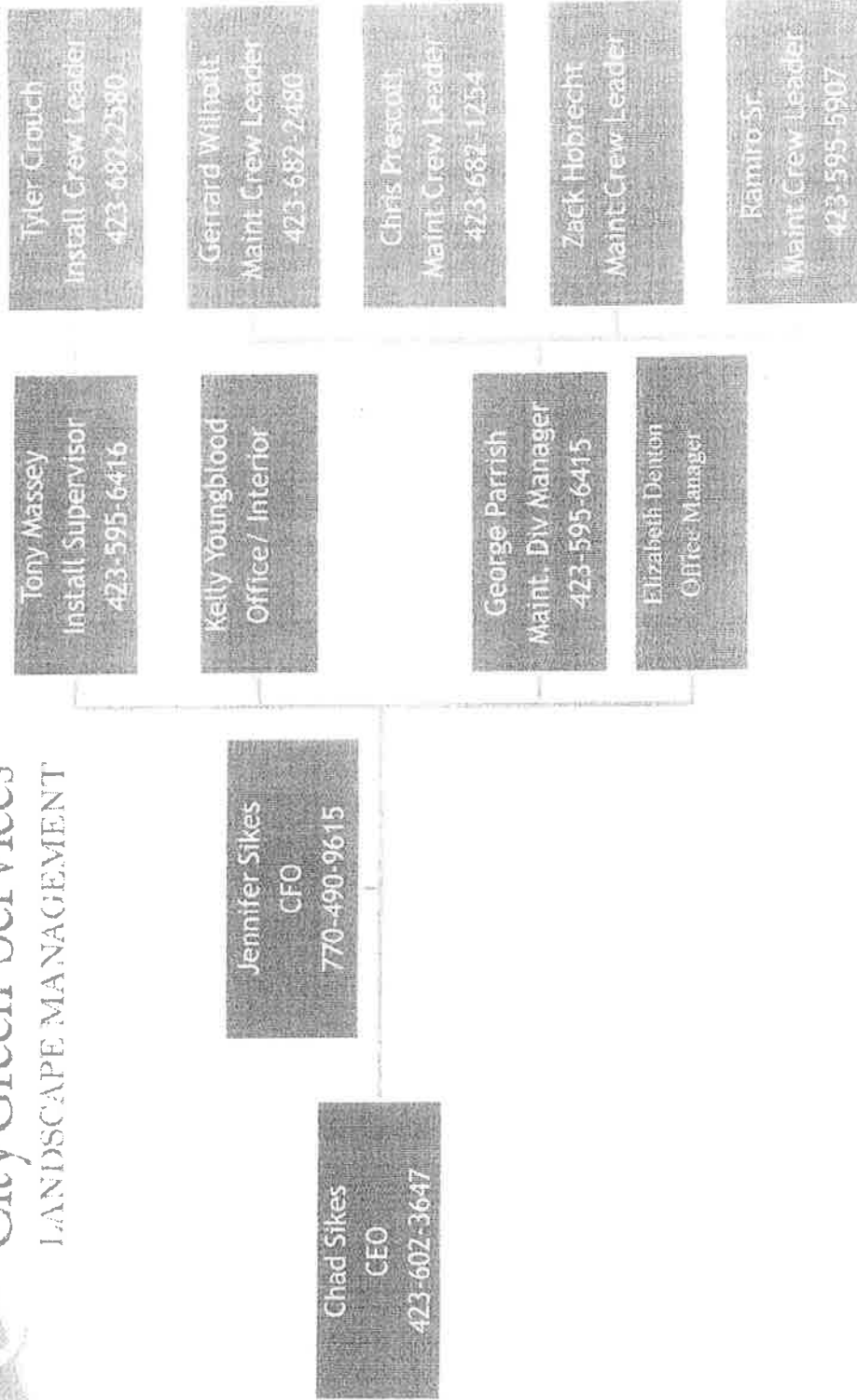
Zlatko Kozlica

zkozlica@chattanooga.gov



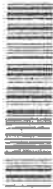
CityGreen Services

LANDSCAPE MANAGEMENT





TN Department of Agriculture
License & Certification Card



092254

CHAD SIKES
44 COOLSPRINGS ROAD
SIGNAL MTN, TN 37377



TN Department of Agriculture
License & Certification Card



85414

GEORGE PARRISH
245 WILSON PIKE CIRCLE
BRENTWOOD, TN 37027



Environment &
Conservation



Tennessee Erosion Prevention & Sediment Control Program

Chad Sikes

Is a Fundamentals of EPSC Level 1 Certified Personnel

Certification # 133636 Expires: 2021-12-31

RUP Categories expire:

C03: 6/30/2020

License Categories expire 6/30/2019

HLT: 2019

This person is licensed and certified by the State of Tennessee to use, buy or supervise the use of restricted use pesticides in the category(s) listed. Check your point status at www.tennessee.gov/ag/cult/cultor/regulate if this card is lost or stolen. call (615) 527-5148

RUP Categories expire 12/31

CJ3: 2017

License Categories expire 12/31

HLT: 2016

This person is licensed and certified by the State of Tennessee to use, buy or supervise the use of restricted use pesticides in the category(s) listed. Check your point status at www.tennessee.gov/ag/cult/cultor/regulate if this card is lost or stolen. call (615) 527-5148

Tennessee Erosion Prevention
and Sediment Control Training Program
UT Conference Center Building, Suite 311
Knoxville, TN 37996

865.974.2151

www.tnepsc.org