

DT-0330

TRANSPORTATION ENGINEERING SERVICES FOR TDOT LOCAL PROGRAMS DEVELOPMENT OFFICE

State of Tennessee Department of Transportation
Nashville, Tennessee

JULY 18, 2018

BARGE
DESIGN SOLUTIONS™

July 18, 2018

Ms. Whitney Britt
Transportation Manager
Local Programs Development Office
Tennessee Department of Transportation
Suite 600 James K. Polk Building
505 Deaderick Street
Nashville, TN 37243

**RE: DT-0330 Part II Transportation Engineering Services for TDOT Local Programs
Development Office**

Dear Ms. Britt:

In response to your short-list notice from the LOI dated April 27, 2018, please find the Phase II, DT-330 Part II proposal for various transportation engineering services for the TDOT Local Programs Development Office projects. A variety of services will be needed statewide in the areas of plans, studies, assessments, and CEI with knowledge of TDOT goals being key to success. With Barge's breadth of experience on transportation projects for TDOT and municipal clients, we are well suited to serve as your consultant for the tasks needed. In addition to our headquarters in Nashville, Barge has Tennessee offices in Knoxville, Memphis, Chattanooga, and Tri-Cities. Our comprehensive staff of nearly 400 includes engineers, scientists, field staff, and surveyors with a team designated to work on transportation projects.


Since 1955, Barge has been working with Federal, state, municipal, and private clients on design and construction projects. We understand the complexities of working with TDOT, local governments, developers, and industry. Barge has a deep understanding and knowledge of implementation of all TDOT guidelines.

We are looking forward to the opportunity to work with you on your projects. As in the past, we will develop a strong partnership with TDOT from the beginning and always strive for cost-effective solutions for a successful venture. If you have any questions or need additional information, please feel free to contact me at 865-934-4171 or john.hunter@bargedesign.com; or Daniel Spann at 615-252-4305 or daniel.spann@bargedesign.com.

Sincerely,


John Hunter, PE

Client Service Leader


Daniel Spann, PE, PTOE

Vice President, Director - Transportation Services

ARCHITECT - ENGINEER QUALIFICATIONS

PART II - CONTRACT - SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. ADVERTISEMENT ITEM NUMBER AND DESCRIPTION

Transportation Engineering Services for TDOT Local Programs Development Office

2. ADVERTISEMENT DATE

April 27, 2018

3. N/A

B. ARCHITECT - ENGINEER POINT OF CONTACT

4. NAME AND TITLE

John Hunter, PE, Client Service Leader

5. NAME OF FIRM

Barge Design Solutions, Inc.

6. TELEPHONE NUMBER

865-934-4171

7. FAX NUMBER

865-673-8554

8. EMAIL ADDRESS

john.hunter@bargedesign.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
PRIME	J-V PARTNER	SUBCON-TRACTOR				
a.	X			Barge Design Solutions, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	615 3rd Avenue South Suite 700, Nashville, Tennessee 37210	NEPA Manager, Environmental, Survey, Roadway/Greenway, Structures, Traffic, CEI
b.	X			Barge Design Solutions, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	520 West Summit Hill Drive Suite 1202, Knoxville, Tennessee 37902	Survey, Roadway/Greenway, Landscape, CEI
c.	X			Barge Design Solutions, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	60 Germantown Court Suite 100, Memphis, Tennessee 38018	Survey, Roadway/Greenway, Landscape, Traffic, CEI
d.	X			Barge Design Solutions, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1110 Market Street Suite 200, Chattanooga, Tennessee 37402	Survey, Roadway/Greenway, Landscape, CEI
e.	X			Barge Design Solutions, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	Four Sheridan Square Suite 100, Kingsport, Tennessee 37660	Environmental, Survey, Landscape
f.	X			Barge Design Solutions, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	200 Clinton Avenue Suite 800, Huntsville, Alabama 35801	Roadway/Greenway, Traffic

AUTHORIZED FOR LOCAL REPRODUCTION

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCONTRACTOR			
g.	X			Barge Design Solutions, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1370 Vanguard Boulevard Miamisburg, Ohio 45342	Structures
h.	X			Barge Design Solutions, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	6525 The Corners Parkway, Suite 450, Peachtree Corners, Georgia 30092	Structures
i.			X	Bowlby & Associates, Inc. (WBE/ DBE) <input type="checkbox"/> CHECK IF BRANCH OFFICE	504 Autumn Springs Court, Suite 11, Franklin, TN 37067	Noise and Air Quality (Estimated less than 1%)
j.			X	Cultural Resource Analysts, Inc. (CRA) (SB) <input type="checkbox"/> CHECK IF BRANCH OFFICE	119 W. Summit Hill Drive, 2nd Floor, Knoxville, TN 37902	Cultural Resources (Estimated less than 1%)
k.			X	K.S. Ware and Associates, LLC (DBE, WBE) <input type="checkbox"/> CHECK IF BRANCH OFFICE	54 Lindsley Avenue, Nashville, TN 37210	Geotechnical Services, CEI (Estimated less than 5%)
l.			X	O.R. Colan Group, LLC (DBE/WBE/HUB) <input type="checkbox"/> CHECK IF BRANCH OFFICE	312 S. Fourth Street, Suite 700, Louisville, KY 45249	Right-of-Way (Estimated less than 5%)

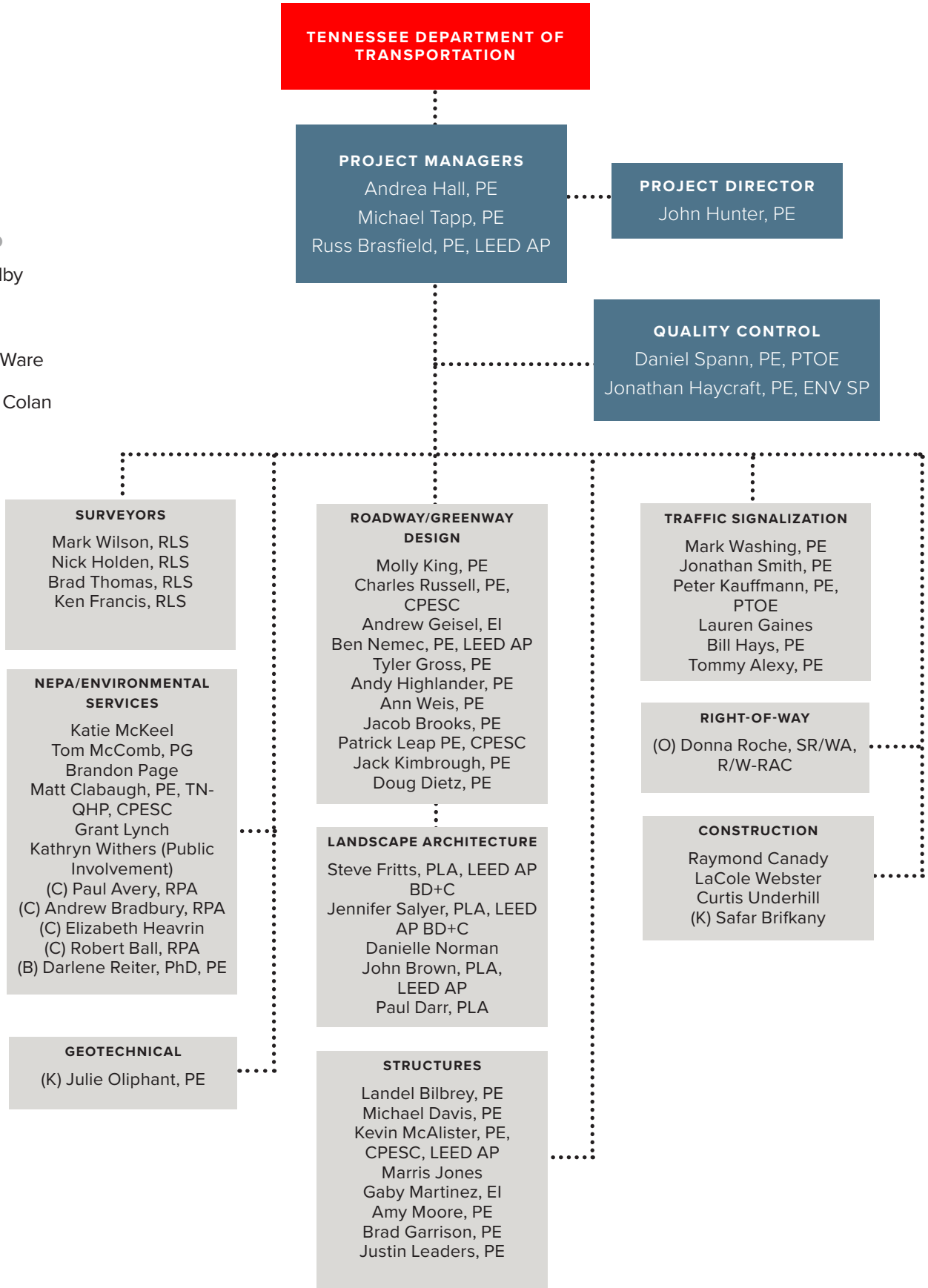
D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

ORGANIZATIONAL CHART OF PROPOSED TEAM

LEGEND

- (B) Bowlby
- (C) CRA
- (K) K.S. Ware
- (O) O.R. Colan



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME John Hunter, PE	13. ROLE IN THIS CONTRACT Project Director	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		19	3
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Knoxville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering Master of Science, Civil Engineering Master of Business Administration		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: CEI Training Level 2, Work Zone Traffic Control/Flagging, Office of Local Program Development CEI Training, Local Programs Project Course			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville (Davidson County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Client Service Leader and QA/QC Reviewer for roadway improvements at the I-24 at Hickory Hollow Parkway interchange to service the Century Farms commercial development. The project consists of an Interstate Access Request for interchange modification, converting the interchange to a diverging diamond, that affects a 1-mile section of existing full access controlled interstate. Assisting with the review of plans and schedule for this project, in addition to coordinating with the client, TDOT, and Metro Public Works. Provided early utility coordination assistance, working closely with TDOT Utility office staff. Construction completion expected in 2019.		
b.	Snyder Road Realignment (Sevier County)	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Client Service Leader and Quality Reviewer for project to relocate an existing road to better serve a site that was accommodating a new industry moving into the area. All bridge and roadway design work had to be done in full accordance with TDOT design standards. Oversaw quality directives and goals to verify compliance with the QC plan, project cost estimation, and schedule. Construction completion expected in 2019.		
c.	TDOT SmartFIX40 (Knox County)	2009	2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for a multidisciplinary team to successfully deliver the project. As the project began, Mr. Hunter was tasked with assembling a team to review small projects recommended by the Knoxville TPO and prioritize the projects for implementation. Of roughly 30 projects, the Department accepted the recommendations of the team to complete a half dozen projects that would be beneficial to traffic flow prior to the closure of I-40. The projects included the widening of I-640 through Sharp's Gap, converting the I-275 interchanges from cloverleaves to tight diamonds, and temporarily converting the two lane ramps at the I-640 at I-40 interchanges to three lanes at both ends. The small projects were instrumental to the success of the overall SmartFIX40 project.		
d.	TDOT State Route 34 Design (Hamblen County)	2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm QA/QC Reviewer for design and geotechnical services for the Phase 1 improvements of SR-34. Worked closely with the project manager to review preliminary and ROW plans including the conceptual design of an improved intersection, a closed drainage system, erosion and sediment control plans, and coordination with TDOT.		
e.	TDOT I-275 Interchange Improvement (Knox County)	2008	2008
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for the survey, design, and construction of this project. The three cloverleaf interchanges along I-275 were converted to tight diamonds and a third through-lane was added for the entire length of I-275. Utility coordination was required to relocate the utilities within the interchanges. The project was designed to remain within the existing right-of-way and was constructed approximately 24 months after survey started.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andrea Hall, PE	13. ROLE / TITLE Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM < 1
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Knoxville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: TDEC Level 1 - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites Affiliations: American Society of Civil Engineers, Institute of Transportation Engineers			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Main Street Kingsport Rebuild & Streetscape (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm QA/QC reviewer for this proposed reconstruction project of Main Street from Sullivan Street to Market Street in Kingsport, TN. Transportation Improvements include sub-surface repair/rebuild, resurfacing, sidewalk enhancements/ADA compliance, storm drainage and railroad coordination. The project is being completed through the TDOT Local Programs Office, so all work is in full accordance with TDOT standards/requirements. Ensuring quality and compliance with plan and schedule. Professional services completion expected in 2018; construction completion expected in 2019.		
b.	(1) TITLE AND LOCATION (County) Liberty Street Multimodel Project, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager leading a team to develop multiple options for bicycle and pedestrian access in the conceptual phase to assist the City in determining the final proposed improvements to be advanced to final design. Currently designing roadway improvements for bicycle and pedestrian connections on Liberty Street, between Sutherland Avenue and Middlebrook Pike, and along Division Street, between Sutherland Avenue and Liberty Street. Professional services expected completion in 2018; construction completion expected in 2019.		
c.	(1) TITLE AND LOCATION (County) Broadway Streetscape, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager leading a team to connect two sections of the First Creek Greenway. Project includes development of various options for consideration by the City and public involvement. Design may include some or all of the following: bridge widening, cantilevered sections, drainage, erosion control and utility coordination. Professional services completion expected in 2019; construction completion expected in 2019.		
d.	(1) TITLE AND LOCATION (County) I-640 at Broadway Interchange, Phase 2 (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2016	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm TDOT Right-of-Way/Utilities Manager for this interchange project that significantly improves capacity, mobility, and safety. With grading, drainage, traffic signals, multiple bridges and retaining walls, utility coordination was vital. With a project of this scope, affected properties and relocations were also necessary. Responsibilities included communication with these external stakeholders through public and neighborhood meetings and utility coordination meetings for timely delivery of certifications needed to progress to the construction phase.		
e.	(1) TITLE AND LOCATION (County) SR 115, Alcoa Highway (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm TDOT Right-of-Way/Utilities Manager for this project that is part of an overall significant plan for the area to improve safety, increase capacity, and correct geometric deficiencies. Issues of utility coordination and difficult right-of-way acquisitions were a factor. Participated in several utility coordination meetings, public meetings and workshops, and property owner meetings to provide ample communication. Construction completion expected in 2019.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Tapp, PE	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		22	20

15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, KY, AL, GA, OH
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: TDEC Level I – Fundamentals of Erosion Prevention and Sediment Control for Construction Sites, TDEC Level II – Design Principles for Erosion Prevention and Sediment Control for Construction Sites; 10-Hour OSHA Construction Safety; TTAP Work Zone Traffic Control Flagging; Roundabout Design Workshop; Railroad Track Inspection/Safety Standards; Local Public Agency Workshop; Local Government Guidelines Training Manual

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) TN Central Economic Alliance TDOT SIA Roadway (Trousdale County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2017
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for design of a 0.7-mile section of new two-lane roadway. Responsibilities include horizontal and vertical alignments, R.O.W. acquisition, drainage design, EPSC plans, temporary traffic control plans, pavement marking and signing plans, and quantity calculations. Also coordinated with the SWPPP and geotechnical consultants. Since this project was partially funded through the State Industrial Access program. Also, coordinated with TDOT Local Programs.		
	(1) TITLE AND LOCATION (County) I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for a project consisting of an interchange modification that affects a 1-mile section of existing full access controlled interstate. The project will widen Hickory Hollow Parkway to a six-lane urban section, significantly modifying the current ramps. Tapp laid out the horizontal and vertical alignments to determine the feasibility of the different options considered. The horizontal layouts were incorporated in the Interstate Access Request to FHWA. He also created a conceptual interstate signing layout for the two alternatives. All design was to AASHTO and TDOT standards. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) Century Farms Roadway and Infrastructure, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Roadway Engineer for design of improvements to support the widening of existing Old Franklin and Cane Ridge Roads and the design of a new roadway, Cane Ridge Parkway, which included development of plan, profile and cross-section sheets, traffic control plans, intersection improvements, and development of estimated quantities. Involved drainage design for all roadway sections which included both curb and gutter and ditched sections. Project involved safety studies and feasibility study. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) TDOT SR-109 Survey and Design (Wilson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer lead for the widening of a 3.6-mile section of SR-109 from two-lane section to a five-lane section. Responsibilities include safety analysis, horizontal and vertical alignments, R.O.W. acquisition, drainage design, EPSC plans, temporary traffic control plans, and pavement marking and signing plans. Coordinated with SWPPP and geotechnical consultants, and TDOT hydraulics for design of the bridge over Spencer Creek. Construction completion expected in 2020.		
	(1) TITLE AND LOCATION (County) Dickerson Pike Sidewalk Improvements, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for a 0.8 mile sidewalk project along the east side of Dickerson Pike. Responsible for the sidewalk location, R.O.W. requirements, ADA requirements, drainage, temporary traffic control and EPSC plans. Also involved in biweekly meetings with the client. Professional services completion expected in 2019.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Russ Brasfield, PE, LEED AP	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 18	b. WITH CURRENT FIRM 5

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Memphis, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Business Administration Bachelor of Science, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: LEED Accredited Professional, TDOT Local Programs Project Course, TDOT Work Zone Traffic Control/Flagging

Affiliations: American Society of Civil Engineers - West Tennessee Branch, Board of Directors

19. RELEVANT PROJECTS

	a.	(1) TITLE AND LOCATION (County) Patterson Street Realignment Project (Shelby County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer who led the team to provide design services for the realignment of Patterson Street between Walker Avenue and north of Alumni Avenue. Improvements will also be made along Patterson Street which will include the addition of ADA curb ramps, bus stop relocation, landscape and plaza hardscape amenities, new accessible parking lots, wayfinding signage, and pedestrian safety components. Construction completion expected in 2019.		<input checked="" type="checkbox"/> Check if project performed with current firm
	b.	(1) TITLE AND LOCATION (County) Corning Avenue Sidewalk and Street Realignment (Shelby County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2015
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for roadway and pedestrian improvements for the City of Memphis, as part of their Safe Routes to Schools initiative. Provided civil design for the addition of curb and gutter and sidewalks along Corning Avenue. Directed the design for grading and drainage plans, which included the new stormwater management components. Assisted with the design for erosion control and traffic control plans. Directed the preparation of legal plats and descriptions for required easements.		<input checked="" type="checkbox"/> Check if project performed with current firm
	c.	(1) TITLE AND LOCATION (County) Congestion Management (Shelby County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for analysis of selected intersections throughout Shelby County with the purpose of developing and implementing design for recommended improvements based on congestion and air quality. Led the analysis and design team for two years while preparing submittals and construction documents for TDOT. Conducted analysis and performed design for signals and intersection layouts.		<input type="checkbox"/> Check if project performed with current firm
	d.	(1) TITLE AND LOCATION (County) STP Paving Group 6, City of Memphis (Shelby County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for environmental and engineering services related to the preparation and design of resurfacing plans for four roadways in the City of Memphis (Airways Boulevard – Shelby Drive to State Line, Mendenhall Road – Mt. Moriah Road to Knight Arnold Road, Getwell Road – Park Avenue to Interstate 240, and Cooper Street – Washington Avenue to Central Avenue). Total length of road impacted was 5.7 miles. Led the team producing design plans, specifications, and bid package. Construction completion expected in 2018.		<input checked="" type="checkbox"/> Check if project performed with current firm
	e.	(1) TITLE AND LOCATION (County) Fletcher Creek Greenway Phase 1, City of Barlett (Shelby County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2018
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for CEI services, which included providing oversight of the team conducting reviews for submittals, change orders, and RFIs. Provided oversight of full-time on-site representation to monitor the work of the contractor and assist with data collection for the CEI program. This was a TDOT-funded construction contract, so other services were in cooperation with state and local government guidelines.		<input checked="" type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Daniel Spann, PE, PTOE	13. ROLE / TITLE Quality Assurance/Quality Control	14. YEARS EXPERIENCE	
		a. TOTAL 22	b. WITH CURRENT FIRM 3

15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, AL, KY, OH, AR, GA, VA, TX
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: Certified Professional Traffic Operations Engineer (PTOE)
Affiliations: Institute of Transportation Engineers Roundabout Committee Chair (2014 - present); National Society of Professional Engineers (NSPE) ; Tennessee Society of Professional Engineers Nashville Chapter President-Elect; American Council of Engineering Companies – Tennessee Transportation Committee Member; Transportation Research Board – Roundabout Committee Member; Federal Highway Administration – Roundabout Peer to Peer Program

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville (Davidson County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge for interchange modification that affects a 1-mile section of existing full access controlled interstate. The project will widen Hickory Hollow Parkway to a 6-lane urban section, significantly modifying the current ramps. The project involved an Interstate Access Request. Construction completion expected in 2019.		
	Lipscomb University Traffic Impact Study Update (Davidson County)	2016	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for a thorough parking evaluation. Inventoried parking and developed custom parking generation rates for the campus based on numbers of on-campus and off-campus students, graduate and undergraduate, and evaluating a number of factors to address traffic issues related to the campus's current master plan. Identified appropriate designs for accommodating projected traffic that will be generated at the site and the parking facilities. Also updated previously developed campus parking maps where all available parking spaces are identified and categorized by type (handicap, faculty, student, visitor, based on information provided by campus traffic and parking.)		
	Century Farms Road Infrastructure, Metro Nashville (Davidson County)	2018	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge responsible for a complete package of roadway and utility infrastructure to service the Century Farms commercial development. Providing overall direction for the project involving a Traffic Impact Study, roadway widening, intersection improvements, utility relocation, landscape/hardscape improvements, and coordinating with Metro Public Works. Construction completion expected in 2019.		
	Columbia Avenue Widening, City of Franklin (Williamson County)	2018	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge providing overall direction and assignment of resources for the team designing 6,185 LF of widening from three to four/five lanes (depending upon access management); addition of sidewalks, curb and gutter, transit stops and pull outs, bike lanes, and ITS elements; traffic studies; upgrading existing traffic signals and street lighting; and relocating/upgrading existing public and private utilities. Construction completion expected in 2022.		
	Decatur Community Transportation Plan (DeKalb County, AL)		
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Transportation Director for ten-year update of the 2007 plan to determine the relevancy of the 2007 plan and recommend appropriate updates and changes to account for the swiftly evolving transportation domain. The plan will focus on improved mobility, safety, and access. The plan will encourage expansion of the off-street path system, continue to implement the Safe Routes to School program, maintain the city's designation as a bicycle-friendly community, and recommend appropriate speed limits on major corridors. The team will prepare an implementation plan and a budget, and possible funding sources. Professional services completion expected in 2018.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jonathan Haycraft, PE, ENV SP	13. ROLE / TITLE Quality Assurance/Quality Control	14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION)
Master of Engineering, Civil Engineering
Bachelor of Science, Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Professional Engineer in TN, KY, MS, GA, LA, NC, OH, AL

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications: Envision Sustainability Professional (ENV SP)

Affiliations: Tennessee Society of Professional Engineers, American Society of Civil Engineers, American Public Works Association, American Society of Highway Engineers

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for leading the design team conducting an interchange modification that affects a 1-mile section of existing full access controlled interstate. Barge updated the Interstate Access Request for this project. Hickory Hollow Parkway will be widened to a 6-lane urban section, significantly modifying the current ramps. Responsible for client coordination and management of resources. Construction completion expected in 2019.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (County) I-24 Over Germantown Road CM/GC (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for professional services for this bridge replacement project. The existing I-24 bridge over South Germantown Road in Chattanooga has insufficient vertical clearance as well as an overall condition rating of Poor due to many reasons. TDOT elected to use the CM/GC process to replace the bridge. The project will also include replacing the Belvoir Avenue bridge over I-24 directly to the southeast of South Germantown Road. Leading the team conducting bridge studies and traffic studies. Professional services and construction completion expected in 2020.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (County) Columbia Avenue Widening, City of Franklin (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for design of 6,185 LF of widening from three to four/five lanes (depending upon access management); addition of sidewalks, curb and gutter, transit stops and pull outs, bike lanes, and ITS elements; upgrading existing traffic signals and street lighting; and relocating/upgrading existing public and private utilities. Construction completion expected in 2022.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (County) Chattanooga Riverwalk, Phase IV, City of Chattanooga (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE QC Manager for a multi-phased initiative to create a natural greenway and pedestrian area along the Cumberland River in downtown Chattanooga. Worked with Hamilton County officials, the steering committee, and the public to align the project stages and coordinate design team and consultants. Construction completion expected in 2019.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (County) Main Street Kingsport Rebuild and Streetscape (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager leading a team for this proposed reconstruction project of Main Street from Sullivan Street to Market Street in Kingsport, TN. Transportation Improvements include sub-surface repair/rebuild, resurfacing, sidewalk enhancements/ADA compliance, storm drainage and railroad coordination. The project is being completed through the TDOT Local Programs Office, so all work is in full accordance with TDOT standards/requirements. Professional services completion expected in 2018; construction completion expected in 2019.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Mark Wilson, RLS	13. ROLE IN THIS CONTRACT Surveyor	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		41	33
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Knoxville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Land Surveyor in TN	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Magnolia Avenue Pedestrian Improvements, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor for a project that includes addition of bike lanes, new medians and turn lanes, sidewalk and curb improvements, and roadway reconstruction. Included topographic surveying; establishment of existing property lines, right-of-way, and easements; planimetric and utility information necessary for design; and post-construction restoration of existing property corner monuments and set new corners as required by property acquisition. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) Old Broadway Sidewalk Project, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor for a project that includes a new sidewalk along Old Broadway. The work includes two phases divided into northern and southern sections. The southern section includes pedestrian signal improvements at an intersection. Included topographic surveying; establishment of existing property lines, right-of-way, and easements; planimetric and utility information necessary for design; and post-construction restoration of existing property corner monuments and set new corners as required by property acquisition. Professional services completion expected in 2019.		
	(1) TITLE AND LOCATION (County) Pleasant Ridge at Wilson Sidewalk Project, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2018
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor for a project that included 1,600 linear feet of new sidewalk connecting existing sidewalks along Pleasant Road. Some existing utilities are in conflict with the proposed sidewalk construction, and will need to be relocated/replaced as part of the design. Included topographic surveying; establishment of existing property lines, right-of-way, and easements; planimetric and utility information necessary for design; and post-construction restoration of existing property corner monuments and set new corners as required by property acquisition.		
	(1) TITLE AND LOCATION (County) Sutherland Avenue Sidewalk Project, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014	2015
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor for a project which included topographic surveying; establishment of existing property lines, right-of-way, and easements; planimetric and utility information necessary for design; and post-construction restoration of existing property corner monuments and set new corners as required by property acquisition.		
	(1) TITLE AND LOCATION (County) Snyder Road Realignment (Sevier County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Survey/Mapping Specialist for project to extend a roadway and utilities to a proposed industrial park. Survey services included topographic surveys for utility and roadway design, including 2,100 LF of existing roadway, 12 acres of topography, 1,200 LF water line, and 3,000 LF gravity sewer. Boundary and right-of-way surveys were conducted for easement preparation including documentation for four properties. Construction completion expected in 2019.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Nick Holden, RLS	13. ROLE IN THIS CONTRACT Surveyor	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		34	17
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Chattanooga, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Surveying Certificate, Chattanooga State Technical Community College		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Land Surveyor in TN, AL, GA, KY, MS, NC, FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications and Training: TTAP Work Zone Traffic Control Flagging, 10-Hour OSHA Construction Safety; 8 Hour HAZWOPER Refresher Training (course taken in 2017)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Chattanooga Riverwalk Phases I-III, City of Chattanooga (Hamilton County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey/Mapping Specialist in charge of a horizontal and vertical survey for the areas along the proposed route. The width of the topographic survey along the approved walkway alignment varied from 50 feet to approximately 100 feet depending on the terrain. Extra survey data was collected at areas where the proposed walkway crosses any road, railroad, or bridge. Established property boundary lines along route based on existing monumentation and current public records Prepared legal descriptions and exhibit drawings for each property where easements will be required. Construction completion expected in 2019.		
b.	I-24 at SR299 (Dade County, GA)	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey/Mapping Specialist for this project involving an Accelerated Bridge Construction in Dade County, the first one in the State of Georgia. Tasks included topography along SR299 at the I-24 overpass bridge; and collecting location of above ground utilities, inverts, pipe sizes, storm structures, and sewer lines within the 12-acre area. Also established control at the site and compiled an approved owner control package. GDOT CAD and survey standards were applied to the final deliverable.		
c.	Chattanooga Bike Lane (Hamilton County)	2016	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey/Mapping Specialist responsible for topographic survey of the areas of Broad Street, from 2nd to 4th and Virginia Avenue. Included topographic survey of building walls adjacent to the sidewalk, finish floor elevation at building entrances, curb and gutter lines, planters and trees, type of paving, parking areas along street, parking meters, spot elevations, and utility locations.		
d.	Enterprise South Industrial Park and for New Volkswagen Production Facility (Hamilton County)	2009	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey/Mapping Specialist during the acquisition of the former Volunteer Army Ammunition Plan and redevelopment of the site into Enterprise South Industrial Park. Provided surveying services for the preparation of an approximately 1,000-acre site pad for the proposed VW plant. Included topographic and boundary surveys and construction staking for the 1,200-acre site; surveying for Rosgen stream design criteria associated cross sections; centerline vertical and horizontal alignment; property transfers, descriptions, platting and easements; field surveys for design, construction, and quantities by standard cross-sections; radial surveys; and 3D scans using manual Total Stations, Robotic Total Stations, Static and RTK GPS as well as high-definition laser scanners.		
e.	Enterprise South Industrial Park Interstate Connector Road, (Hamilton County)	2008	2008
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey/Mapping Specialist who oversaw the crew providing survey services to meet proposed TDOT requirements for connection of state highway to interstate system.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Brad Thomas, RLS	13. ROLE IN THIS CONTRACT Surveyor	14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Surveying and Mapping		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Land Surveyor in TN, KY	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications and Training: 10-Hour OSHA Construction Safety, TDOT Work Zone Traffic Control/Flagging			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	TDOT – On-Call Field Surveys On-Call Contracts for Field Surveys (Various Counties)	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Survey/Mapping Specialist for a two-year contract (2009 to 2011) for on-call field surveys with the Tennessee Department of Transportation Five projects were assigned under this contract: <ul style="list-style-type: none"> • SR-50 Survey from SR-247 to SR-6 (US-43) (Maury County, TN) • I-40 to I-440 Survey (Davidson County, TN) • SR-149/13 Survey Update, West of River Road to Zinc Plant (Montgomery County, TN) • Geotechnical Staking at I-440 from East of I-65 to West of I-24 (Eastbound Only) (Davidson County, TN) Right-of-Way Staking at SR-16 Intersection at Unionville-Deason Road (Bedford County, TN)		
b.	TDOT Construction Engineering and Inspection (Overton County)	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Survey/Mapping Specialist for a field survey to conduct original, final, and progress estimate quantities for payment of earthwork pay items to the contractor. Horizontal and vertical controls were established to be utilized by the contractor for construction layout. Construction layout was checked when deemed necessary by the TDOT project supervisor.		
c.	TDOT SR-109 Survey and Design (Wilson County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Survey/Mapping Specialist for a 3.6 mile section of SR-109 in Wilson County from SR-24 (US 70) to Dry Fork Creek in preparation for preparing design plans to widen the existing two-lane highway to a five-lane section. Tasks included a control survey, topographic survey to supplement existing aerial data, drainage surveys for multiple crossings, property surveys, deed research and utility locations. In addition, Barge developed a digital terrain model, (DTM) for use in the design phase. Construction completion expected in 2020.		
d.	I-440 at Nolensville Road (Davidson County)	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Survey/Mapping Specialist for a contract to provide CEI services for construction on I-440 at Nolensville Road. Barge conducted and supervised surveying services to obtain original, final, and progress estimate quantities for payment of all earthwork pay items to the contractor. Surveys included establishing horizontal and vertical control on the project to be used by the contractor for construction layout.		
e.	Capitol View (Davidson County)	2017	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Survey/Mapping Specialist for the redevelopment project involving three city blocks, including grading, drainage, and utilities.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Ken Francis, RLS, PLS	13. ROLE IN THIS CONTRACT Surveyor	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		38	18

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Memphis, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Associate of Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Land Surveyor in TN, AR Professional Land Surveyor in MS
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications and Training: 10-Hour OSHA Construction Safety, TDOT Work Zone Traffic Control/Flagging

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Astoria Avenue Improvements, City of Millington (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor for widening and extension of Astoria Avenue from the current improved section, just north of Navy Road, north to Dakar Street and east to Hornet Avenue. The project includes NEPA work, roadway design, and regional detention design. This new roadway will provide a more aesthetic route to the navy base. It will also improve safety, provide dedicated bike lanes for cyclists and upgrade ADA accessibility. Construction completion expected in 2018.		
b.	(1) TITLE AND LOCATION (County) Bartlett CDBG Disaster Project (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor for the repair and stabilization of the Harrington Creek embankment at Stage Road and Fletcher Creek embankment at Appling Road, including a weir grade control structure extending the Stage Road box culvert approximately 10 feet, widening the entrance, and adding wing-walls and an entrance apron to improve conveyance through the box. The project also included stabilizing 130 feet of the stream's western embankment with Pyramat and with soil anchors. This was covered with sod to achieve TDEC approval.		
c.	(1) TITLE AND LOCATION (County) Big Creek Widening Study (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Surveyor for water resource project to use a hydraulic model of Big Creek to determine if a proposed widening of the channel and overbanks will affect water surface elevations during the 100-year, 500-year and the 2010 floods. Data collection included field surveys combined with data from recent LiDAR topographic data for Big Creek overbanks. Collected additional data on bridge embankments to complete data set. Data collection approach supported development of a hydraulic model to replicate the historic May 2010 flood along with smaller frequency storms.		
d.	(1) TITLE AND LOCATION (County) Black Bayou Drainage Study (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor for design, plans, and specifications for compliance with a TEA-21 grant for streetscape improvements in the downtown/Main Street area. Included stamped concrete crosswalks, street lighting, directional signage, and landscaping. Conducted survey of the project area, noting utilities, drainage structures, fixtures, and other site characteristics.		
e.	(1) TITLE AND LOCATION (County) Cleveland Obstruction Survey (Bolivar County, MS)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor who provided surveying for the establishment of survey ground control points used in identifying obstructions to airport approaches in support of FAA development of LPV approaches. Used sub to perform aerial mapping and obstruction identification. Work coordinated and approved by NGS and FAA through the FAA's AGIS system.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Katie McKeel	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of City and Regional Planning Bachelor of Business Administration		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Liberty Street Multimodal Project, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE NEPA Project Coordinator to provide for the addition of sidewalks and bicycle facilities along Liberty and Division Streets in Knoxville, TN. Coordinated the environmental review process and reviewed related NEPA documents. Responsible for preparation of the final NEPA document. The project is currently in design. Construction completion expected in 2019.		
b.	(1) TITLE AND LOCATION (County) Dickerson Pike Sidewalk Improvements, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE NEPA Project Coordinator for the proposed sidewalk improvement project to construct a new sidewalk with a length of approximately 4,300 feet on the east side of Dickerson Pike from Douglas Avenue on the south to Trinity Lane on the north in Nashville. Coordinated the environmental review process and reviewed related NEPA documents. Responsible for preparation of the final NEPA document. Professional services completion expected in 2019.		
c.	(1) TITLE AND LOCATION (County) Columbia Avenue Widening, City of Franklin (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE NEPA Project Coordinator for a project that includes widening and improvements to approximately 1.25 miles of Columbia Avenue (SR 6/ US 31), from Mack Hatcher Parkway to Downs Boulevard in Franklin, TN. Coordinated the environmental review process and reviewed related NEPA documents. Was also responsible for preparation of the final NEPA document.		
d.	(1) TITLE AND LOCATION (County) Main Street Kingsport Rebuild and Streetscape (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE NEPA Project Coordinator for the proposed project to include reconstruction of Main Street from Sullivan Street to Market Street in Kingsport, TN. Improvements would include resurfacing, curb repair, sidewalk enhancements, additions of bulbouts, removal of rail siding, diamond grinding, sub-surface repair and rebuild, and ADA upgrades. Coordinated the environmental review process and reviewed related NEPA documents. Responsible for preparation of the final NEPA document. Professional services completion expected in 2018; construction completion expected in 2019.		
e.	(1) TITLE AND LOCATION (County) TDOT NEPA Review (Various Counties)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Consultant overseeing the environmental review of over 250 projects receiving funding through the Local Programs Development Office. Responsibilities included determining appropriate level of NEPA documentation, coordinating projects with federal and state reviewing agencies, and reviewing NEPA documentation submitted by local governments and their consultants. Professional services completion expected in 2019.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Tom McComb, PG	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 17

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Geology; Bachelor of Science, Geology	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Geologist in TN, KY, GA
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications: 40-Hour Hazardous Materials Site Worker Course, and 8-Hour Hazardous Materials Supervisor Course

Affiliations: American Institute of Professional Geologists; East Tennessee Geologic Society

19. RELEVANT PROJECTS

	a.	(1) TITLE AND LOCATION (County) Bridge ACM Assessment, City of Kingsport (Sullivan County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
		Project Manager for an ACM assessment for a bridge at Log Mile 1.90 over the Holston River. The work was done as a local programs project for the City of Kingsport. The bridge was a 1,028-foot, four lane, twelve span structure. A total of 33 samples were collected from the bridge components and no ACM materials were encountered.		
	b.	(1) TITLE AND LOCATION (County) TDOT On-Call Contract for Hazardous Materials (Various Counties)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
		Contract Manager for current contract with TDOT, responsible for managing the completion of over 200 tasks to date including Phase I and Phase II ESAs, asbestos inspections and abatement, and UST equipment and soil removal projects for structures, bridges, and sites in the right-of-way for TDOT projects. Serves as TDOT's main point of contact, manages the project schedules and team, and coordinates field work to maximize efficiency. Provides oversight of all task execution and development of reports. Professional services ongoing.		
	c.	(1) TITLE AND LOCATION (County) TDOT Underground Storage Tank Removal, SR-70 Bridge over Clinch River in Kyle's Ford (Hancock County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
		Project Scientist for removal of an underground storage tank, requiring removal through a task order under Barge's Hazardous Materials contract with TDOT. Part of team to conduct field work including UST removal contractor oversight and soil sampling. Produced the final report documenting removal and sampling activities for submittal to TDOT.		
	d.	(1) TITLE AND LOCATION (County) Columbia Avenue Widening, City of Franklin (Williamson County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
		Project Geologist for this project to widen a 5-lane cross section, widening to a 4-lane section with a curbed median and turn lanes adding access control and improved safety, and conversion to a roundabout corridor for maximum safety and traffic flow benefits. Analyzed an intersection with drainage issues and designed a solution that prevents further flooding problems.		
	e.	(1) TITLE AND LOCATION (County) Bridge ACM Pickwick Dam (Hardin County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
		Project Manager conducting a bridge ACM assessment for a 3600-foot, two-lane, multi-span bridge over the Pickwick Dam and power station. The assessment was conducted under the TODT Hazardous Material Contract even though the bridge was owned and operated by the TVA. The project required coordination with TVA and TDOT. Due to the configuration of the bridge, the sampling of the bridge components required the use of a TDOT reach-all truck.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Brandon Page	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 3

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Geosciences	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Affiliations: East Tennessee Geologic Society

19. RELEVANT PROJECTS

	a.	(1) TITLE AND LOCATION (County) Bridge ACM Assessment SR-28 (Sequatchie County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Geologist who conducted ACM assessments for five bridges along SR-28 in Sequatchie County, Tennessee. The work was conducted under the TDOT Hazardous Materials Contract. Over 125 samples were collected from the bridge components and asbestos containing materials were identified in three of the five bridges. Professional services completion expected in 2018.		
		<input checked="" type="checkbox"/> Check if project performed with current firm		
	b.	(1) TITLE AND LOCATION (County) TDOT Underground Storage Tank Removal, SR-70 Bridge over Clinch River in Kyle's Ford (Hancock County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Scientist for an underground storage tank, requiring removal through a task order under Barge's Hazardous Materials contract with TDOT. Conducted field work including UST removal contractor oversight and soil sampling. Produced the final report documenting removal and sampling activities for submittal to TDOT.		
		<input checked="" type="checkbox"/> Check if project performed with current firm		
	c.	(1) TITLE AND LOCATION (County) Bridge ACM Pickwick Dam (Hardin County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Geologist who conducted a bridge ACM assessment for a 3600-foot, two-lane, multi-span bridge over the Pickwick Dam and power station. The assessment was conducted under the TDOT Hazardous Material Contract even though the bridge was owned and operated by the TVA. The project required coordination with TVA and TDOT. Due to the configuration of the bridge, the sampling of the bridge components required the use of a TDOT reach-all truck.		
		<input checked="" type="checkbox"/> Check if project performed with current firm		
	d.	(1) TITLE AND LOCATION (County) Columbia Avenue Widening (Williamson County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Scientist who conducted travel demand forecasting and intersection capacity analysis to inform laneage and control strategies in final roadway designs. Alternatives considered included a simple widening to a 5-lane cross section, widening to a 4-lane section with the addition of a curbed median and left turn lanes adding access control and improved safety, and conversion to a roundabout corridor for maximum safety and traffic flow benefits. Analyzed an intersection with drainage issues and designing a solution that prevents further flooding problems. The work included environmental studies to prepare a D-List for the proposed improvements to Columbia Avenue to enhance accessibility and improve traffic flow and delay.		
		<input checked="" type="checkbox"/> Check if project performed with current firm		
	e.	(1) TITLE AND LOCATION (County) TDOT Phase I Environmental Site Assessment (Shelby County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Geologist responsible for site reconnaissance and field work for Phase I ESA at a planned traffic circle on New Allen Road to determine whether any properties were candidates for a Phase II ESA. Two potential recognized environmental conditions were identified. Authored the report that was submitted to TDOT.		
		<input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Matt Clabaugh, PE, TN-QHP, CPESC	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Kingsport, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Environmental Engineering Bachelor of Science, Environmental Science-Aquatic Resources	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, VA, NC
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: Certified Professional in Erosion and Sediment Control, Rosgen Level I-IV, Permaculture Design Certified
Training: Principles of Wetland Design, Wetland Delineation Certification

19. RELEVANT PROJECTS

	a.	(1) TITLE AND LOCATION (County) TDOT, Stream Mitigation Plan SR-56 (DeKalb County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager/Lead Engineer for project to collect baseline data, perform stream assessments, and design a stream mitigation plan for over 1,000 LF of stream along SR-56 in DeKalb County using the Natural Channel Design approach. The mitigation plan included construction plans, the 12-component narrative as required by the USACE per the Federal mitigation rule, and permit sketches.		
	b.	(1) TITLE AND LOCATION (County) Loosahatchie River Stream Mitigation Plan (Shelby County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2017
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Design Engineer for development of a stream restoration plan to use as in-system mitigation associated with an emergency Aquatic Resources Alteration Permit issued by the Tennessee Department of Environment and Conservation Division of Water Resources. The permit was issued to allow the client to conduct bank stabilization on the Loosahatchie River for emergency repair actions to stabilize one of their transmission towers. Led the team in production of the stream restoration plan which included stabilizing and restoring 500 linear feet of actively eroding streambank by installing a multi-storm tiered channel with constructed floodplains/terraces and a riparian buffer of native vegetation.		
	c.	(1) TITLE AND LOCATION (County) East Tennessee Mitigation Site Search (Greene and Cocke Counties)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager and Lead Engineer for the evaluation and identification of potential full delivery stream mitigation project sites in the French Broad-Holston service area in east Tennessee. Conducted site visits at nine potential sites to determine site viability and potential mitigation credit yield, performed baseline data collection, coordinated with various regulatory agencies, and developed a conceptual stream restoration technical approach.		
	d.	(1) TITLE AND LOCATION (County) Jackson Flood Control (Madison County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design Engineer for stormwater management structures in various areas of Jackson to alleviate localized flooding due to increased urban development. Includes conversion of kudzu gullies into stormwater detention and infiltration basins. The goal is for the project to also provide wildlife viewing opportunities, community gardens, trails, and greenways. Professional services are ongoing; construction completion expected in 2022.		
	e.	(1) TITLE AND LOCATION (County) Big Creek Drainage Study and Flood Mitigation Design (Shelby County)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design Engineer for environmental studies to support final design for flood mitigation. The project scope will also include preparing the technical studies required for the NEPA and environmental permitting including wetland delineations, bat surveys, noise surveys, and air surveys. There will also be stream and wetland mitigation involved. Professional services are ongoing; construction completion expected in 2022.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Grant Lynch	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		3	3
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Geography Bachelor of Science, Biology		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Training: 10-Hour OSHA Hazard Recognition Training; Environmental Wetland Identification and Delineation Training Course-MRW			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Greenville-Greene County Municipal Airport Expansion (Greene County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Biologist who conducted field investigations to monitor success criteria of newly constructed stream channels and wetland areas. Performed hydrologic determinations, wetland delineations, riparian vegetation survivability surveys, channel morphology and stability assessments, and habitat assessments. Established permanent stream cross sections and vegetation monitoring plots. Investigated existing site conditions for permitting compliance and performance reporting. Created ArcGIS maps of encountered site conditions. Barge is currently providing post construction annual monitoring services to ensure that the stream and wetland restoration reaches are successful.		
b.	(1) TITLE AND LOCATION (County) TDOT, Stream Mitigation Plan SR-14 (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Biologist who performed wetland delineations, stream assessments, hydrologic determinations, and threatened/endangered species habitat assessments. Located, documented, and mapped all environmental features within limits of investigation. Created environmental boundaries maps in GIS and completed Form G field data sheets, wetland delineation data sheets, habitat assessment data sheets, HD data sheets, and a species review form in support of the Ecology Technical Studies Report. Performed presence/probable absence surveys for the northern long-eared bat and Indiana bat. Performed on-site mitigation services by acquiring baseline data and assisting with the development of a 12-Part Compensatory Mitigation Plan for over 5,000 LF of stream.		
c.	(1) TITLE AND LOCATION (County) TDOT Stream Mitigation Plan for Tennessee Fire Service and Codes Enforcement Academy Technical School North Fork Creek and Unnamed Tributaries (Bedford County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Biologist who conducted presence/absence survey for Indiana and northern long-eared bats in support of the establishment of a proposed stream mitigation bank. Followed 2017 Indiana Bat Summer Survey Guidelines. Process captured individuals to collect data on species, age, sex, reproductive condition, forearm length, and mass.		
d.	(1) TITLE AND LOCATION (County) TDOT, Stream Mitigation Plan SR-56 (DeKalb County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Biologist assisting in the preparation of a stream mitigation plan for over 1,000 LF of stream along SR-56 in DeKalb County using the Natural Channel Design approach. The mitigation plan included construction plans, the 12-component narrative as required by the USACE per the federal mitigation rule, and permit sketches. Site visit was conducted to gather original baseline stream conditions and physical characteristics, and perform a habitat assessment. Construction completion expected in 2018.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Kathryn Withers (Public Involvement)	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, City and Regional Planning; Bachelor of Architecture		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: American Institute of Certified Planners (AICP)			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Critz Lane Improvements, Town of Thompson's Station (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Urban Planner for intersection improvements at Thompson's Station Road and Clayton Arnold Road. Led the planning and coordinating with the client on all aspects of the project. This scope includes evaluation of three alternatives. These include a roundabout intersection, signalized intersection and roadway/intersection realignment. Design will include the selected roadway and traffic control improvements, including necessary storm drainage. Other services to be provided are survey, environmental review and permitting, bid assistance, and construction administration. Construction completion expected in 2019. <input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (County) Main Street Kingsport Rebuild and Streetscape (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Planner in assessing and designing the redevelopment of Main Street from the City gateway at Sullivan Street to Market Street. The process includes multiple private and public stakeholder participating meetings in an effort to fully evaluate the need and expectations associated with the redevelopment of Main Street. Components of the design are likely to include a Main Street diet, reducing the width of the road in most areas to two lanes with strategically located parallel parking, intersection improvements, potential roundabouts, wayfinding, lighting, site furnishings, public art locations, and parameters and landscape. Construction completion expected in 2019. <input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (County) Starwood Commons Land Development (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Planner in creating a new vision for Starwood Commons at the long abandoned Starwood Amphitheater. From 1986 to 2006, Starwood was Nashville's premier outdoor live entertainment venue. Internationally known rock, blues, gospel, and other acts made the site a mecca for live musical performances until owner Live Nation sold it in 2007. A previous developer went through the SP rezoning process in 2008 but did not develop the property. In 2017, Development Company Ronald D. Buck Investments, Inc. purchased the property and has undertaken the process of reimagining the potential for Starwood Commons in the current market. Barge created a concept for the 65 acres of land as a walkable Town Center with mix of office, retail, and residential around a 4-acre central green space. In particular, the housing element of the plan will be a mix of townhouses, flats over retail space, assisted living and active adult housing, and single family homes – all of which will support the retail and four potential restaurants planned for the development. Construction completion expected in 2019. <input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (County) Century Farms, Road Infrastructure, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Planner for a complete package of roadway and utility infrastructure to service the Century Farms commercial development. The team produced a Traffic Impact Study including a trip generation analysis for a high-density office space, projection of future traffic, and analysis of roadway improvements needed to mitigate the impact of additional traffic. The roadway improvements included addition of sidewalks where none existed previously, widening to accommodate turn lanes, intersection improvements at several locations, shoulder improvements, and a roadway extension. Sidewalks/hardscape and landscape improvements are part of the project with planting plans, crosswalk detailing, and irrigation, focusing alongside the roadway and intersection areas. The utilities affected along the parkway include water, sewer, electric, and communications. Professional services completion expected in 2018. <input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Paul G. Avery, RPA	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 21	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) Cultural Resource Analysts, Inc. (Knoxville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Arts, Anthropology		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Register of Professional Archaeologists (RPA)	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Affiliations: Society for Historical Archaeology, Southeastern Archaeological Conference, Tennessee Council of Professional Archaeologists

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Phase I Archaeological Survey of the Proposed Improvements of SR322 (Monroe County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator for a project which included systematic subsurface shovel testing within the proposed right-of-way for the realignment of State Route 322. The total survey corridor consisted of approximately two miles and identified five previously unrecorded sites. None of the sites were considered to be potentially eligible for inclusion on the NRHP.		
b.	(1) TITLE AND LOCATION (County) Phase III Archaeological Data Recovery of Site 40KN275 Reynolds Station (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator for a TDOT project which revealed 119 previously unrecorded archaeological features, with excavation of 89 features. The excavations included machine stripping and hand excavation of 3 units. 10,371 artifacts were recovered, which were primarily from the African American slave occupation of the site. The project yielded valuable insights into the poorly understood history of slavery in Knox County. \$257K.		
c.	(1) TITLE AND LOCATION (County) Phase I Archaeological Survey of Market and Broad Street Interchanges on I-24 (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator for a project to investigate 80.9 ha (200-acre) area within the Market and Broad Street interchanges. Most of the study area had been severely disturbed by prior construction, but three archaeological sites were found. One site (40HA575) was recommended as eligible for the NRHP. \$46K.		
d.	(1) TITLE AND LOCATION (County) Phase I Archaeological Survey of the State Route 127 Bridge over the Elk River (Franklin County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator for this project which involved survey of one acre of new right-of-way, of which approximately half was on Arnold Air Force Base property. The base archaeologist surveyed the portion on the Base, which saved effort and cost that would have been required to secure an ARPA permit. No archaeological sites were found. \$11K.		
e.	(1) TITLE AND LOCATION (County) Phase I Archaeological Survey of the Proposed Route of State Route 32, Cosby (Cocke County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator for a project which included systematic subsurface shovel testing within the proposed right-of-way for the realignment of State Route 32. The total survey corridor consisted of approximately nine miles and identified 15 previously unrecorded sites. Four of the 15 sites were considered to be potentially eligible for inclusion on the National Register of Historic Places. \$70k.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andrew Bradbury, RPA	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 36	b. WITH CURRENT FIRM 23

15. FIRM NAME AND LOCATION (City and State)
Cultural Resource Analysts, Inc. (Knoxville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Masters of Arts in Anthropology	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Archaeologist
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Affiliations: Society for American Archaeology, Southeastern Archaeological Conference, Lithic Technology, North American Archaeologist, Midwest Archaeological Conference

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Phase III Data Recovery Investigations at 40KN262 (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal Investigator for this project consisting of Phase III data recovery investigations at 40KN262 at the Seven Islands Wildlife Park. TDOT had proposed the construction of a pedestrian bridge across the French Broad River. Previous work at the site had indicated intact, buried archaeological components within alluvial soils. Phase III investigations determined that the area selected for the proposed bridge was outside of the main site area. \$668K.		
	(1) TITLE AND LOCATION (County) Phase III Data Recovery Investigations at 40SV232 (Sevier County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal Investigator for this project which consisted Phase III data recovery investigations at 40SV232. The plow zone was removed from a block area exposing 24 prehistoric features. These features were excavated. Phase II investigations indicated a late Middle Woodland occupation of the site. \$83,495.		
	(1) TITLE AND LOCATION (County) Avenue of the Saints (Lewis and Clark Counties)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal Investigator/Field Director for this multi-year, staged Phase III data recovery investigation consisted of archaeological investigations at 55 sites, mostly prehistoric. Major excavations were conducted at eight of the sites. Investigations at these sites entailed major hand excavation of block areas within buried soils or stripping of large areas of plow zone and the excavation of the exposed features. Deeply buried Early sites. Professional service are ongoing.		
	(1) TITLE AND LOCATION (County) Phase III Excavations at 15HL58 (Harlan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2003	CONSTRUCTION (If applicable)
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal Investigator/Report Author/Analyst responsible for data recovery investigations documented the presence of a series of stratified prehistoric occupations that extended from just below the plow zone to approximately 110 cm below ground surface. Forty-eight cultural features and 43 post holes were identified. \$364,000.		
	(1) TITLE AND LOCATION (County) Phase III Excavations at 40HO12, 40HO13, and 40HO15, (Houston County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 1994	CONSTRUCTION (If applicable)
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Field Director/Report Author/Analyst for the project which consisted of phase II archaeological testing at six sites and subsequent phase III data recovery at three of the sites. The sites were all prehistoric sites.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Elizabeth Heavrin	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 13	b. WITH CURRENT FIRM 8

15. FIRM NAME AND LOCATION (City and State)
Cultural Resource Analysts, Inc. (Lexington, KY)

16. EDUCATION (DEGREE AND SPECIALIZATION) M.H.P. Historic Preservation Bachelor of Arts, History	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Training: ACHP, Cultral Landscapes: Identification and Effects Assessment; ACHP, Innovative Approaches to Section 106 Mitigation; TRB, Identifying and Evaluating Post-World War II Housing; FHWA, Section 4(f) Policy Paper; SRI, Tribal Consultation: Principals and Practices; NHI, NEPA and Transportation Decision-making

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Kentucky Transportation Cabinet Statewide Contract for Cultural Historic & Archaeological Studies (Statewide)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Cultural Historic Project Manager responsible for preparing budgets and scopes of work for architectural history services, assigning and scheduling architectural historians for completion of work, preparing technical reports, and providing QA/QC of architectural history products for submission to KYTC. Professional services are ongoing.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (County) Historic Architectural Resource Survey of the Oak Ridge National Laboratory (Roane and Anderson Counties)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and Principal Investigator who prepared for UT-Battelle, LLC, who manages ORNL for the US Department of Energy. Comprehensive survey of 1,100-acre ORNL campus. Recorded and assessed NRHP eligibility of 195 resources. Results documented in 600+ page report, currently in review. \$61,689.12.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (County) Cultural Historic Resource Survey for the Reconstruction of the KY 329/KY 329 Bypass Intersection (Oldham County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager, Principal Investigator, and Architectural Historian who prepared a survey for Qk4, Inc., on behalf of the Kentucky Transportation Cabinet. Survey for intersection improvement identified a National Register-eligible farmstead; worked with client and KYTC to develop alternatives to avoid adverse effects to the property. \$9,471.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (County) Historic Documentation of One T-beam Bridge and Four Culverts, located along KY 36 (Bath County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager, Principal Investigator, and Field Director who prepared report for the Kentucky Transportation Cabinet. Performed state level documentation of five structures prior to demolition. Responsible for creating measured drawings and oversight of report preparation. \$11,659.61.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (County) NRHP Nomination for the Atlantic Coast Line Railroad Corridor (Richmond and Petersburg)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Field Director and Principal Investigator prepared documents for the Virginia Department of Transportation. NRHP nomination for 30 miles of active and abandoned rail bed formerly associated with the Atlantic Coast Line Railroad, including the rail bed itself, as well as associated secondary resources. \$18,730.50.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Robert Ball, RPA	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL 23	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Cultural Resource Analysts, Inc. (Lexington, KY)			
16. EDUCATION (DEGREE AND SPECIALIZATION) M.H.P. Historic Preservation Bachelor of Arts, Archaeology		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Archaeologist	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Training: Section 106 Advanced Seminar – Advisory Council on Historic Preservation; State DOT’s Section 106 Classes – KY, IN, & OH

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Fairview Solar Installation (Jefferson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator for the project that involved a historic architectural survey for a proposed solar farm near New Market, Tennessee. A .5-mile viewshed buffer was established as the APE. Twenty-six previously unrecorded resources were identified during the fieldwork. One property was recommended as eligible for listing in the National Register of Historic Places.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (County) East Cedar Street (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Co-principal Investigator for the project involving an historic architectural survey for a proposed improvements to East Cedar Street in Bristol, Tennessee. The field survey found 78 properties within the APE, of which two individual properties and one historic district were recommended as eligible. Mr. Ball served as co-principal investigator and directed the fieldwork for the survey.		
		<input type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (County) Duplex Road (Williamson and Maury Counties)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator for the project which involved an historic architectural survey for a proposed road widening in Spring Hill, Tennessee. The field survey documented 16 new resources and one resource (White Hall) already listed on the National Register of Historic Places.		
		<input type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (County) Parker’s Crossroads (Henderson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator the project that involved an historic architectural survey of a Civil War battlefield site near the community of Parker’s Crossroads, Tennessee. The APE consisted of the 52-acre battlefield site and all visible resources on adjoining parcels.		
		<input type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (County) Middle Creek Road, Section 2 (Sevier County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Investigator the project involving a Phase I archaeological and historic architectural survey for a new road alignment from Dolly Parton Parkway to Tennessee State Route 66 . The survey documented 20+ structures ranging from early African-American schools to agricultural complexes to cemeteries. Mr. Ball served as the Principal Investigator for the architectural survey as well as served as field director on a portion of the archaeological survey.		
		<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Darlene Reiter, PhD, PE	13. ROLE IN THIS CONTRACT NEPA/Environmental Services	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		30	24
15. FIRM NAME AND LOCATION (City and State) Bowlby & Associates, Inc. (Franklin, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Civil Engineering Master of Science, Civil Engineering Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: instructor for NHI 142051, Highway Traffic Noise training course (2004-present) Affiliations and Training: TRB Transportation-Related Noise and Vibration Committee; Co-instructor of Bowlby & Associates' Traffic Noise Fundamentals/FHWA TNM 2.5 training course since 2011; and received the 2013 NHI Instructor of Excellence Award; EPA MOVES (2009, 2010) and NEPA Cumulative Effects Analysis (2011).			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) TDOT I-55 and Crump Boulevard Interchange (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer/Project Manager responsible for update of the noise study to comply with TDOT's current policy including a detailed construction noise evaluation, update of the air quality evaluation including conformity, MSATs and climate change, report preparation, public involvement, and development of the final noise barrier design for the French Fort neighborhood including extensive coordinaiton with TDOT's Design Division. Cost: \$50,700.		
b.	(1) TITLE AND LOCATION (County) TDOT I-240 from SR 385 to Walnut Grove Road Final Noise Barrier Design/Quantitative Air Toxics (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer/Project Manager responsible for TNM modeling, noise barrier evaluation and design, development of the special provision for absorptive noise barriers and retaining walls, and extensive public involvement including responses to numerous residents and representatives, as well as coordination with TDOT Environmental, Design and Construction Division staff through project construction. A quantitative MSATs evaluation was also completed for this project. Cost: \$38,000.		
c.	(1) TITLE AND LOCATION (County) TDOT I-40/240 Interchange Phase II Final Barrier Design (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2013	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer/Project Manager responsible for TNM modeling, noise barrier evaluation and design, and public involvement including developing resident surveys to gauge support for the proposed barrier and determine the preferred texture and finish. Cost: \$18,000.		
d.	(1) TITLE AND LOCATION (County) GDOT Interstate Noise Study Evaluation in Clayton (DeKalb, and Fulton Counties, GA)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer/Project Manager responsible for the management of three task orders to identify existing and planned noise barriers in the region, establish a GIS database, prepare community profiles, and prioritize areas for Type II barriers. The study included the development of a comprehensive Congressional Liaison Package and meetings with GDOT officials and Congressional staff. Cost: \$223,000.		
e.	(1) TITLE AND LOCATION (County) TDOT Type II Noise Barrier Needs Assessment and Prioritization Studies (Various Counties)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2007	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer/Project Manager responsible for directing staff in planning studies, noise measurements, development date assessments, TNM modeling, GIS development, analyzing results, report preparation, and coordination with TDOT management. Cost: \$244,000.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Julie Oliphant, PE	13. ROLE IN THIS CONTRACT Geotechnical Services	14. YEARS EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) K. S. Ware and Associates, LLC (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Science, Civil Engineering Bachelor of Science, Geology		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, LA	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Training: OSHA 10-Hour Roadway Safety Affiliations: Member of American Society of Civil Engineers & Society of American Military Engineers			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	TDOT – SR-136 Roadway Widening – Geotechnical Exploration (Putnam County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager and Geotechnical Engineer preparing geotechnical engineering analyses for plans to widen 2.254 miles of SR-136 that includes geotechnical drilling and sampling, laboratory testing, engineering analyses, and reporting findings and recommendations for cut and fill slopes and earthwork. Performing analysis and roadway report in accordance with guidelines and requirements of TDOT geotechnical engineering section. Existing alignment is a two-lane asphalt concrete paved roadway with narrow shoulders. Proposed improvements will provide four 12-foot travel lanes (two in each direction), a 12-foot center turn lane, and 10-foot shoulders. Professional services are ongoing.		
b.	TDOT – SR-28 Roadway Improvements – Geotechnical Exploration (Fentress County)	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Geotechnical Engineer who prepared geotechnical engineering analyses for 0.6 miles of SR-28 from SR-62 at Clarkrange to North of South Franklin Loop Road that was designed and constructed in conjunction with adjacent project to the south as a right-of-way revision. Construction included widening and improvements of 1,200 linear feet of SR-62 and 80 linear feet of Clarkrange Estates Road.		
c.	TDOT – SR-109 Roadway Widening, Geotechnical Exploration (Wilson County)	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Geotechnical Engineer responsible for development of CAD drawings and drilling for geotechnical exploration for the widening and bridge foundations. Improvements provide four 12-foot travel lanes (two in each direction), a 12-foot center turn lane, and 12-foot shoulders. The alignment included a crossing over Dry Fork Creek (Old Hickory Lake), and an existing 2-lane, 2-span bridge was replaced in conjunction with the road widening.		
d.	TDOT – SR-106 at SR-46 (Hillsboro Rd) – Geotechnical Exploration (Fentress County)	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager and Geotechnical Engineer who prepared geotechnical engineering analyses for intersection at SR-106 and SR-46 that was widened in order to provide intersection improvements to alleviate congestion and operational deficiencies at the intersection. Build Alternative C widens southbound approach of SR-106 to provide a right turn lane to SR-46. SR-46 was reconstructed on a new alignment to provide an intersection skew of approximately 90 degrees and would traverse the existing storm water detention pond located adjacent to the existing intersection.		
e.	TDOT – SR-462 Northwest Connector, Geotechnical Exploration (Cumberland County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager and Geotechnical Engineer preparing geotechnical engineering analyses includes roadway design parameters, settlement analysis, embankment stability, managing drill crew to coordinate field activities and log the borings. Performing analysis and roadway report in accordance with guidelines and requirements of TDOT geotechnical engineering section. Professional services are ongoing.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Molly King, PE	13. ROLE / TITLE Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 13

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Knoxville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Environmental Science and Technology Bachelor of Science, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: TDEC Level I - Fundamentals of Erosion Prevention and Sedimentation Control for Construction Sites, TDEC Level II - Design Principals for Erosion Prevention and Sedimentation Control for Construction Sites
Affiliations: American Society of Civil Engineers

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Magnolia Avenue Streetscape, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for project to revitalize Magnolia Avenue and provide for more safe pedestrian usage by incorporating sidewalk and curb improvements, addition of bike lanes, new signalization, street lighting, new medians and turn lanes, and roadway reconstruction. Construction services expected completion in 2019.		
b.	(1) TITLE AND LOCATION (County) Snyder Road Realignment (Sevier County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for project to relocate an existing road to better serve a site that was accommodating a new industry moving into the area. This was a Local Interstate Connector project. The roadway to be relocated crossed a FEMA-regulated stream with a bridge and a large culvert. An approved hydraulic analysis was required to prove that a "No-Rise" condition existed for the proposed new bridge and culvert. The project was done through the TDOT Local Programs office, so all bridge and roadway design work had to be done in full accordance with TDOT design standards. Construction completion expected in 2019.		
c.	(1) TITLE AND LOCATION (County) Site Industrial Access Road serving Scripps Networks (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer for design and permitting for a new 2,300-foot industrial access boulevard from Sherrill Road to a traffic circle. The work began as a State Industrial Access Road project through TDOT. Work included drainage and storm sewers, permanent signing, striping plans, and maintenance of traffic plan for intersection with Sherrill Boulevard, as well as a new driveway connection from the traffic circle to the golf course parking lot.		
d.	(1) TITLE AND LOCATION (County) East Dumplin Valley Road SIA (Sevier County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for Preliminary Engineering Report and design for roadway widening and improvements to support new industrial development in Sevier County. This was a State Industrial Access Road project. The typical section consisted of two 12-foot lanes with 4-foot-wide gravel shoulders along a length of approximately 3,140 feet of roadway. The proposed alignment was shifted slightly to allow for some areas of the existing roadbed to be utilized, topped with an additional overlay. This was a TDOT Local Programs project.		
e.	(1) TITLE AND LOCATION (County) I-240 CM/GC (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for this Construction Manager/General Contractor (CM/GC) delivery project. The project is to reduce impacts to the traveling public while replacing three deteriorating bridges at the US 72/I-240 interchange. Responsible for development of traffic control plans for Poplar Avenue Bridges and Park Avenue Bridge closures. The closures included not only traffic across the bridges but traffic on the interstate as well. Construction completion expected in 2019.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Charles Russell, PE, CPESC	13. ROLE / TITLE Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL 34	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Knoxville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, AL, GA	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

Certifications: CPESC, TDEC Level I, TDEC Level II, OSHA 10-Hour

Affiliations: American Society of Civil Engineers

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	SR-109 Survey and Design (Wilson County)	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Erosion Control Engineer for the project to widen a 3.6-mile section of SR-109 in Wilson County from two-lane section to a five-lane section. Assisted with cost estimation and erosion control. Construction completion expected in 2020.		
b.	Main Street Kingsport Rebuild and Streetscape (Sullivan County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Erosion Control Engineer coordinating the erosion control services for the reconstruction of Main Street, from Sullivan Street to Market Street. Improvements would include resurfacing, curb repair, sidewalk enhancements, additions of bulbouts, removal of rail siding, diamond grinding, sub-surface repair and rebuild, and ADA upgrades. Professional services completion expected in 2018; construction services completion expected in 2019.		
c.	Liberty Street Multimodal Project, City of Knoxville (Knox County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager/Project Engineer leading the team in the environmental review process for the addition of sidewalks and bicycle facilities along Liberty and Division Streets. The project is currently in design phase. Professional services completion expected in 2019; construction services completion expected in 2019.		
d.	SmartFIX40 Projects I and II (Knox County)	2006	2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Engineer responsible for conceptual design for preliminary erosion control plans and preliminary maintenance of traffic. All design was completed to TDOT standards. SmartFIX40 was divided into two projects. Project 1 dealt primarily with the local street system, including a new arterial connection between north Knoxville and downtown, and reconstruction of the James White Parkway from I-40 to downtown. Project 2 dealt primarily with reconstruction of I-40, including a massive MOT plan required by complete closure of I-40.		
e.	TDOT QA/QC Assessments and SWPPP On-Call, Regions 1, 2, and 3 (Various Counties)	2004	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Engineer who performed erosion control assessments as needed on water quality for TDOT project sites during construction. Prepared SWPPPs for multiple TDOT construction projects. Involved cost estimation and technical report writing. GPS/GIS was also part of the project.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andrew Geisel, EIT	13. ROLE / TITLE Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		2	<1

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Knoxville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering Bachelor of Science, Math/Physics	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Engineer Intern in TN
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: ACI Concrete Construction Special Inspector, ACI Concrete Field Testing Technician - Grade 1, OSHA 30: Construction

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Goethal's Bridge Replacement Project (Elizabeth/Staten Island, NY)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Field Specialist for construction of \$1 billion cable-stayed bridge for the Port Authority of NYNJ. Duties included reading contract drawings, supervising workers, quality control and inspections during construction, cost tracking and quantity claiming, gathering as-built data, writing work plans and reports, in-field issue recognition and mitigation, and communication with designer during design/build process.		
	(1) TITLE AND LOCATION (County) Magnolia Avenue Streetscape, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer for safety improvements for the Magnolia Avenue corridor involving addition of bike lanes, new medians and turn lanes, sidewalk and curb improvements, and roadway reconstruction. The goal of the project is to invigorate the commercial district, strengthen the neighborhood environment, beautify the corridor, and provide for more safe pedestrian usage. Professional services and construction completion expected in 2018.		
	(1) TITLE AND LOCATION (County) Liberty Street Multimodal Project, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer for project involving safety improvements. The project is planned to add bike lanes to a section of Liberty Street through a road diet, add a sidewalk for another portion of Liberty Street, and add a bike lane to the west bound side of Division Street, with a contraflow lane or possible cycle track for a block at the Sutherland Avenue intersection. Professional services completion expected in 2019; construction services completion expected in 2019.		
	(1) TITLE AND LOCATION (County) Northwest Greenway, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer for the construction of a greenway between Victor Ashe Park and the proposed pedestrian bridge on Western Avenue (SR 62). The asphalt trail traverses residential and park areas eventually connecting to the pedestrian bridge being constructed by TDOT. The project not only includes the asphalt trail, but also storm drainage and a retaining wall. Professional services completion expected 2019; construction completion expected in 2020.		
	(1) TITLE AND LOCATION (County) Knox/Blount Greenway, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer for approximately 3,200-ft greenway that will connect Maloney Road Park to the University of Tennessee's farm where it will connect with TDOT's future greenway to be constructed as part of their ongoing Alcoa Highway improvements. In addition, the project includes box culvert and retaining wall design. The project is coordinated by the TDOT Local Programs Office, so all design must be in full accordance with TDOT standards and specifications. Construction completion expected in 2019.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Ben Nemec, PE, LEED AP	13. ROLE IN THIS CONTRACT Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		24	20
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Chattanooga, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering; Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, AL, GA, NC; LEED Accredited Professional	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

Certifications: TDEC Level 1 - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Chattanooga Riverwalk Phases I-III, City of Chattanooga (Hamilton County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for the new downtown segment of the greenway involved master planning and design for a 3-mile extension. Prepared roadway and parking lot design; site utilities design; grading, drainage, and erosion control; earthwork calculations; opinion of probable cost; and technical specifications. The industrial nature of the corridor required creative design concepts to provide an aesthetically pleasing and safe trailgoer experience. Amenities such as public art, interpretive features, shelters, and restrooms along with streetscape and hardscape improvements help accomplish this goal. Construction services completion expected in 2019.		
b.	Enterprise South Industrial Park (ESIP) Pad and Site Infrastructure Preparation (Hamilton County)	2010	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager who led site team which provided surveying, civil engineering design services, construction administration, and resident project representation for preparation of a 1,000-acre site pad for the VW plant. Approximately 7 million cubic yards of earthen material was moved in a six-month time frame to prepare the site for the VW plant. Included regional storm water detention facility, roadway design, main entrance design with fountain, and landscape design.		
c.	South Chickamauga Creek Greenway (Hamilton County)	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the most recently completed phase of the Chickamauga Creek Greenway extension involved 3.5 miles of boardwalk and roller compacted concrete trail. Mr. Nemec managed the team, communicated with the client, and oversaw design for the trail, canoe launches, and floodway modeling for the bridge crossing. Sections of the trail include custom boardwalks to traverse steep topography, gravel running paths, and several pedestrian bridges.		
d.	Chickamauga Creek Greenway Final Segment Planning (Hamilton County)	2009	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the project for Trust for Public Land, who hired Barge to assess and plan multiple segments of the city-wide trail to complete the greenway network throughout the city. Led the team that studied existing trails and the areas lacking connections needed for linking completed segments. Analyzed terrain and obstacle issues and proposed recommendations that would optimize design and cost for challenging issues such as wetlands, steep slopes, railroads, creek crossings, and obstructions.		
e.	Paulding County Park Master Planning, Seven Hills Parkway Park (Paulding County, GA)	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for the planning team to provide master planning services and preparation of opinion of probable cost for a new 53-acre park. Developed alternative conceptual master plans to include up to 10 baseball/softball fields and associated site improvements.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Tyler Gross, PE	13. ROLE IN THIS CONTRACT Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		10	3
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Chattanooga, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Engineering Management; Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, MS, GA	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: TDEC Level 1 - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites; TDEC Level 2 - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Bicentennial Park Design (McMinn County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Civil Engineer to design and direct the work of the team on support services required for Phase I of the approximately 30-acre proposed park development project. The park included one 330-foot baseball field, one 300-foot baseball field, three batting cages in a single grouping, playground area, concession/restroom building, partial parking lot, entry drive, establishment of Phase II ballfield earthwork pads, associated site improvements and modification of existing infrastructure to best meet both Phase I and Phase II proposed improvements.		
	(1) TITLE AND LOCATION (County) Meriwether Redevelopment Phase III (Spalding County, GA)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Civil Engineer who directed the civil engineering design team for a multi-story senior housing facility to be developed from 11 existing lots. The work includes tax credit application, road layouts, grading, stormwater design, site layout (including sidewalks, parking lot, hardscape and landscape areas, and recreation area), utility layouts, and erosion control plans. Construction administration services will also be provided from pre-construction to project closeout. Construction completion expected in 2018.		
	(1) TITLE AND LOCATION (County) Lee Apartments Site Design (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Civil Engineer. Directed civil engineering staff on the site design to accommodate development of multi-family housing units. Included site grading, stormwater layout, erosion and sediment control, and utility plans. Coordinated with utility providers for water, sewer, and electrical.		
	(1) TITLE AND LOCATION (County) Cromwell Hills Apartments Renovation (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Civil Engineer leading design and directed the work of the team on support services required to renovate an apartment complex owned and operated by the Chattanooga Housing Authority. The complex consists of 200 units in various multi-family building configurations, on a 93-acre site. Coordinated with the architect for locations of patios and sidewalk replacement. Identified areas for parking addition in coordination with CHA. Implemented green-infrastructure stormwater practices to meet ordinance requirements related to land disturbance and the increase in impervious area. Included erosion control plans and landscape plans for street trees. Construction completion expected in 2018.		
	(1) TITLE AND LOCATION (County) Charles A. Bell School Site (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2017
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Civil Engineer who led design and directed the work of the team on support services required to re-develop a former elementary school site into a public park now called Southside Park that provides recreation, green space, and physical activity opportunities to South Chattanooga/Alton Park. Park included 0.25mi walking trail, 1+ ac green space for field sports, parking area, and pavilion building. The entire site was designed using Low Impact Development (LID) principles and Green Infrastructure such as pervious paving, and infiltration beds.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andy Highlander, PE	13. ROLE IN THIS CONTRACT Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL 8	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Chattanooga, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications: TDEC Level 1 - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites; TDEC Level 2 - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Riverwalk Lookout Mountain Extension (Hamilton County)	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer for the St. Elmo section of the route connecting to Lookout Mountain. Provided preliminary conceptual design of an industrial greenway gallery - a sculptural pocket park embracing industrially significant artifacts. The industrial nature of the corridor required creative design concepts to design a pleasing and safe user experience. Design for the pathway included curb and gutter, and sidewalk size and location. Civil design also included roadway and parking lot; site utilities; grading, drainage, and erosion control; and earthwork calculations. Provided site layout design for critical site features. Included streetscape and hardscape improvements at several trailheads at existing roadways.		
b.	South Chickamauga Greenway Section A (Hamilton County)	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer for Section A of the South Chickamauga Creek Greenway, connecting the existing River Walk at the Amnicola Highway Bridge, over South Chickamauga Creek Bridge, to the existing South Chickamauga Greenway Trailhead on N. Hawthorne Street. Responsible for design of erosion control and permitting with the city and TDEC. Worked on construction documents and details. Also involved with construction administration and inspections.		
c.	Dade County Industrial Park, Phase 1 (Dade County, GA)	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer for primary access road to the site including public right-of-way property line layout, road and intersection alignment and design, grading and storm drainage, erosion control, water line and gas line layout and easements, and public railroad crossing. Responsible for permitting road and intersection with GDOT, erosion control permitting with GA-EPD, and railroad pipeline crossing permit for the water line with Norfolk Southern and Dade County Water & Sewer Authority.		
d.	Enterprise South Industrial Park (Hamilton County)	2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer who developed preliminary lot layouts for manufacturing sites within the industrial park. Design work consisted of conceptual mass grading including cut/fill volumes and ingress/egress for each lot.		
e.	Century Farms, Roadway Infrastructure, Metro Nashville (Davidson County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer is assisting to produce construction documents and quantities for existing road and intersection improvements, and new parkway and intersection. Developed grading model and cross sections for the project. Professional services completion expected in 2018.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Ann Weis, PE	13. ROLE IN THIS CONTRACT Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		28	2
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil and Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, NY	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: TTAP - TDOT Local Government Guidelines Manual and Right-of-Way, TDEC Level 1 Erosion Prevention and Sediment Control, OSHA 10-Hour Construction, Safety and Health Certification			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Columbia Avenue Widening, City of Franklin (Williamson County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager leading the design team and working with the City of Franklin and stakeholders to oversee compliance with the project budget, schedule, and quality. The project consists of 6,185 LF of widening from three to four/five lanes (depending upon access management); addition of sidewalks, curb and gutter, transit stops and pull outs, bike lanes, and ITS elements; upgrading existing traffic signals and street lighting; and relocating/upgrading existing public and private utilities. Construction completion expected in 2022.		
b.	Magnolia Avenue Streetscape (Knox County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Civil Engineer for project to improve safety along Magnolia Avenue with streetscape improvements incorporating landscape plantings, addition of bike lanes, new signalization, street lighting, new medians and turn lanes, sidewalk and curb improvements, and roadway reconstruction. The project's goal is to invigorate the commercial district, strengthen the neighborhood environment, beautify the corridor, and provide for more safe pedestrian usage. Professional services and construction completion expected in 2018.		
c.	TN Central Economic Alliance TDOT SIA Roadway (Trousdale County)	2016	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for design of a 0.7-mile section of new two-lane roadway. Led the team designing horizontal and vertical alignments, R.O.W. acquisition, drainage, EPSC plans, temporary traffic control plans, pavement marking and signing plans, and quantity calculations. Also coordinated with the SWPPP and geotechnical consultants. Since this project was partially funded through the State Industrial Access program, it included coordination with TDOT Local Programs.		
d.	Dickerson Pike Sidewalk Improvements, Metro Nashville (Davidson County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the proposed sidewalk improvement project would construct a new sidewalk with a length of approximately 4,300 feet on the east side of Dickerson Pike from Douglas Avenue on the south to Trinity Lane on the north in Nashville, TN. Led the team in the environmental review process and reviewed related NEPA documents. Responsible for preparation of the final NEPA document. Professional services completion expected in 2019.		
e.	Jefferson Road, Phases I-IV – Preliminary Design (Monroe County, NY)	2002	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Senior Project Engineer for the highway design on NYSDOT project which involved preliminary design and environmental assessment for six miles of Jefferson Road, an urban arterial carrying between 21,000 and 35,000 AADT in the metropolitan area. The proposed improvements included pavement reconstruction and significant widening, signalized intersection realignment, lane configuration and addition of auxiliary lanes, dual left turn lanes, access management features, raised medians, storm sewer modifications, new at-grade railroad crossings, reconstruction of two bridges, right-of-way acquisition, property relocation, wetland mitigation, and 4(f) property mitigation.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jacob Brooks, PE	13. ROLE / TITLE Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		4	1

15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil and Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, NC
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: TN ESPC Level II Certified
Affiliations: American Society of Civil Engineers, American Society of Highway Engineers

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Interchange Expansion, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Roadway Engineer for development of R.O.W. plans. Work has included detailed temporary traffic control design, EPSC plans, and typical section design. The project consists of an interchange modification that affects a 1-mile section of existing full access controlled interstate. The project will widen Hickory Hollow Parkway to a 6-lane urban section, significantly modifying the current ramps. Project involved an Interstate Access Request. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) Astoria Avenue Improvements, City of Millington (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Transportation Project Specialist to widen and extend road from the current improved section, just north of Navy Road, north to Dakar Street and east to Hornet Avenue. The project includes NEPA work, roadway design, and regional detention design. This new roadway will provide a more aesthetic route to the navy base. It will also improve safety, provide dedicated bike lanes and upgrade ADA accessibility. Professional services completion expected in 2018.		
	(1) TITLE AND LOCATION (County) SR-96 at Overall Creek Widening (Rutherford County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Transportation Project Specialist at the Region 3 Headquarters. Widening of a 0.36-mile section of SR-96 from a 2-lane road to a 5-lane curb and gutter road with sidewalk. Involved economic development with new shopping establishments planned for the area around the intersection. Design responsibilities included horizontal and vertical alignments, R.O.W. acquisition, drainage design, construction haul road design, utility coordination, curb ramp design, EPSC plans, construction phasing and temporary traffic control, pavement marking and signing plans, and estimated roadway quantity calculations. Coordinated with TDOT Region 3 Environmental Tech Group, TDOT Geotech, and TDOT Hydraulics.		
	(1) TITLE AND LOCATION (County) SR-96 Intersection with I-24 Westbound Exit Ramp, Exit 78-B (Rutherford County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2018
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Transportation Project Specialist at the Region 3 Headquarters. Realigned and widened the I-24 WB 78-B exit ramp onto SR-96, as well as intersection modifications on SR-96. Design responsibilities included horizontal and vertical alignments of the exit ramp for improved safety, widening and intersection modifications of SR-96, utility coordination, EPSC plans, construction phasing and temporary traffic control, pavement marking and signing plans, estimated roadway quantity calculations. Coordinated with TDOT Region 3 Environmental Tech Group, TDOT Geotech, and TDOT Hydraulics.		
	(1) TITLE AND LOCATION (County) SR-109 Survey and Design (Wilson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for widening of a 3.6-mile section of SR-109 in Wilson County from 2-lane section to a 5-lane section. Assisted with preparation of final construction plans which included estimated roadway quantity calculations, EPSC plans, and proposed driveway modifications. Construction completion expected in 2020.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Patrick Leap, PE, CPESC	13. ROLE IN THIS CONTRACT Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL 10	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering/Transportation Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, KY, TX
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications: Certified Professional in Erosion and Sediment Control
Affiliations: American Society of Highway Engineers, American Society of Civil Engineers

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville (Davidson County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for roadway improvements at the I-24 at Hickory Hollow Parkway interchange to service the Century Farms commercial development. The project consists of an Interstate Access Request for interchange modification, converting the interchange to a diverging diamond, that affects a 1-mile section of existing full access controlled interstate. Reviewed plans and schedule for this project. Construction completion expected in 2019.		
b.	Columbia Avenue Widening, City of Franklin (Williamson County, TN)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for environmental studies to prepare a D-List for the proposed improvements to Columbia Avenue to enhance accessibility and improve traffic flow and delay. Assisted in traffic and corridor planning studying which included traffic and safety analysis, crash diagrams, IHSDM modeling, and preliminary costs estimates. Construction completion expected in 2022.		
c.	Dickerson Pike Sidewalk Improvements, Metro Nashville (Davidson County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for a 0.8 mile sidewalk project along the east side of Dickerson Pike. Responsible for the sidewalk location, R.O.W. requirements, ADA requirements, drainage, temporary traffic control and EPSC plans. Also involved in biweekly meetings with the client. Professional services completion expected in 2019.		
d.	Belmont Boulevard Improvements, Metro Nashville (Davidson County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager/Roadway Designer for a project for Lipscomb University that includes survey and mapping for the widening of Belmont Boulevard. This project will widen the boulevard from existing two lanes and sidewalk on the east side to three lanes with curb and gutter and multi-use paths on both sides. The project length is about 0.84 mile from Shackelford Road to Woodmont Blvd. The project includes a proposed roundabout at Glenn Echo intersection. Right-of-way acquisition is being performed including maps and descriptions along the west side. Professional service completion expected in 2019; construction completion expected in 2020.		
e.	TDOT SR-11 (US 31A) from south of Burkitt Road to near SR-254 (Davidson and Williamson Counties)	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Engineer who conducted the Level of Service (LOS) analysis for this project involving widening of the SR-11 roadway to four 12-foot travel lanes, a continuous 12-foot center turn lane, two 10-foot shoulders/bike lanes, two 5-foot sidewalks, grass strips, and curb and gutter for a distance of approximately 4.3 miles.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jack Kimbrough, PE	13. ROLE IN THIS CONTRACT Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		15	15
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Huntsville, AL)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, AL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: ACI Concrete Field Testing Technician, Grade I			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) John Hunt Park Roadway Improvements (Madison County, AL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager for safety improvements to the roadway network at John Hunt Park for the City of Huntsville. The overall project included 3,100 feet of a main two-lane roadway with turning lanes, and 6,800 feet of additional side road improvements. A new single-lane roundabout was included in the project. Barge designed the roadway lighting, as well as the storm drainage management system, and permitting services.		
b.	(1) TITLE AND LOCATION (County) Old Madison Pike Widening (Madison County, AL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2013	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager for design and Environmental Assessment for FHWA for improvements to Old Madison Pike, which was previously a two-lane roadway. The improvements provide for a five-lane curb and gutter section near the Slaughter Road intersection before transitioning into a four-lane undivided section which continues eastward tying into the divided four-lane at Thornton Research Park, a distance of 0.6 miles. Two existing bridges and two box culverts were replaced as part of this project. The grade of Old Madison Pike was raised so the new bridges are above the 100-year floodplain. A sidewalk was provided on the north side of Old Madison Pike. Additional right-of-way was required along most of the length of the project. The project was needed to improve traffic congestion and safety along this section of Old Madison Pike and provide for continuity with the existing four-lane section.		
c.	(1) TITLE AND LOCATION (County) Clayton Arnold Intersection Improvement, Town of Thompson's Station (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager for intersection improvements. Managing the team and coordinating with the client on all aspects of the project. This scope includes evaluation of three alternatives. These include a roundabout intersection, signalized intersection, and roadway realignment. Design will include selected roadway and traffic control improvements, including necessary storm drainage. Also providing survey, environmental review/permitting, and construction administration. Professional services completion expected in 2019.		
d.	(1) TITLE AND LOCATION (County) Critz Lane Improvements, Town of Thompson's Station (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager for intersection improvements at Thompson's Station Road and Clayton Arnold Road. Led the planning and coordinating with the client on all aspects of the project. This scope includes evaluation of three alternatives. These include a roundabout intersection, signalized intersection and roadway/intersection realignment. Design will include the selected roadway and traffic control improvements, including necessary storm drainage. Other services to be provided are survey, environmental review and permitting, bid assistance, and construction administration. Construction completion expected in 2019.		
e.	(1) TITLE AND LOCATION (County) I-240 Construction Manager/General Contractor (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager responsible for working with prime consultant on this Construction Manager/General Contractor (CM/GC) delivery project, only the second CM/GC project by TDOT. The project is to reduce impacts to the traveling public while replacing three deteriorating bridges at the US 72/I-240 interchange. Responsible for team developing traffic control plans for Poplar Avenue Bridges and Park Avenue Bridge closures. The closures included traffic across the bridges, and interstate traffic as well. Involved bridge and traffic studies. Construction completion expected in 2018.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Doug Dietz, PE	13. ROLE IN THIS CONTRACT Roadway/Greenway Design	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		19	1
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Memphis, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: TN EPSC Level 1 and Level 2, OSHA 10-Hour Construction Safety and Health Affiliations: American Society of Civil Engineers (West TN Branch - Board Director), City of Germantown Local Stormwater Hearing Board			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Astoria Avenue Improvements, City of Millington (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer to widen and extend Astoria Avenue from the current improved section, just north of Navy Road, north to Dakar Street and east to Hornet Avenue. The project includes NEPA work, roadway design, and regional detention design. It will also improve safety, provide dedicated bike lanes for cyclists and upgrade ADA accessibility. Professional services completion expected in 2018.		
b.	(1) TITLE AND LOCATION (County) Fletcher Creek Greenway Phase II, City of Bartlett (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer in the planning and design for a new trail with accompanying pedestrian bridges over Fletcher Creek. The 10-foot-wide trail will start at a new trailhead north of Highway 64 just west of Fletcher Creek and will run north-northeast along the Fletcher Creek Greenway to another new trailhead at the northwest corner of Yale and Brother Boulevard. The trail crosses the creek in two locations, requiring two bridges. The bridges were designed to support pedestrian/bike traffic and periodic maintenance vehicle traffic. Both bridges span 90'-0" and were designed for 14"x14" prestressed concrete pile foundations.		
c.	(1) TITLE AND LOCATION (County) SR-14 Austin Peay Highway (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for project consisting of right-of-way and construction design for the widening of SR 14 for approximately 6.5 miles. Responsibilities included cost estimating, horizontal and vertical alignments design for highway and all connecting side roads, intersection design, pavement marking, signage, and stormwater drainage.		
d.	(1) TITLE AND LOCATION (County) Town of Guys Old Highway 45 Road Restoration CDBG (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Engineer for project to determine the cause of the settlement and prepare a correction for the problem along the outside edges of portions of Old 45 between New Highway 45 and Ridge Road. Oversaw plans and specifications to correct the problem, prepare any required easements, providing cost estimates.		
e.	(1) TITLE AND LOCATION (County) I-69 Interstate Design (Shelby and Tipton Counties)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		On hold per TDOT	On hold per TDOT
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for approximately 5.4 miles of a proposed interstate highway consisting of a divided four lane typical section with a depressed median, two interchanges, six bridges, and two rest areas. Project involved taking the design through the initial design phase through construction design. Work consisted of conceptual design, horizontal and vertical alignment design, storm water drainage design, erosion control, traffic signal warrant study, intersection configuration analysis, and cost estimating.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Steve Fritts, PLA, LEED AP BD+C	13. ROLE IN THIS CONTRACT Landscape Architecture	14. YEARS EXPERIENCE	
		a. TOTAL 38	b. WITH CURRENT FIRM 27
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Knoxville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Landscape Architecture, Landscape Architecture; Bachelor of Science, Ornamental Horticulture and Landscape Design		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Landscape Architect in AL, KY, NC, SC, TN, VA, MO	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications: LEED Accredited Professional BD+C; American Society of Landscape Architects (ASLA)

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Fletcher Creek Greenway Phase I, City of Bartlett (Shelby County)	2017	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect who provided planning and design for a new trail with accompanying pedestrian bridges over Fletcher Creek. The bridges were designed to support pedestrian/bike traffic and periodic maintenance vehicle traffic. Both bridges span 90'-0" and were designed for 14"x14" prestressed concrete pile foundations. Currently performing CEI services, which includes traditional construction administration services such as reviews for submittals, change orders, and RFIs. This is a TDOT-funded construction contract, so other services will be in cooperation with the state and local government guidelines.		
b.	Blount County Greenways Master Plan (Blount County)	2009	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for a preliminary greenways master plan to connect the Knox-Blount Greenway to the extensive greenway network in Alcoa and Maryville. The study included 4 main components: an inventory and analysis of natural and cultural features, solicitation of project team and community input, preparation of a proposed greenway master plan, and a rough order of magnitude cost estimate. Facilitated a kickoff meeting with the Core Planning Team representatives, followed by an inventory and analysis of natural and cultural features, transportation resources, and potential connections to existing greenways. The results were presented to the public. The final deliverable included a master plan with a report that detailed the planning process.		
c.	Enterprise South Industrial Park Pad and Site Infrastructure (Hamilton County)	2012	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Assistant Project Manager for site planning, surveying, engineering design, and technical support to redevelop a former ammunition plant site into Enterprise South Industrial Park. Services included demolition design of 98 ammunition storage bunkers, infrastructure design services for sanitary facilities, regional storm water detention facility, roadway design, main entrance design with fountain, and landscape design. Provided technical support for the recruiting effort as well as surveying and engineering design, on a fast-track basis, to grade site and relocate four intermittent streams.		
d.	Franklin Comprehensive Parks and Recreation Master Plan (Williamson County)	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for preparation of a comprehensive parks and recreation 10-year needs assessment master plan to help guide the future of the parks and recreation system including parks, greenways, open space, and many facilities with historic significance. Fritts led the community input meetings and focus groups, coordinated efforts of the Barge team and subconsultants, maintained communication with City of Franklin representatives and stakeholders, and is continuing with his direct involvement in overall coordination and completion of the master plan report.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jennifer Salyer, PLA, LEED AP BD+C	13. ROLE IN THIS CONTRACT Landscape Architecture	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		16	16
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Tri-Cities, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Landscape Architecture, Landscape Architecture		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Landscape Architect in TX, GA, TN, VA	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: LEED Accredited Professional BD+C			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Centennial Park Master Plan, City of Kingsport (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for development of a master plan for an urban park in downtown Kingsport. The goal was to develop a park space downtown to provide a “destination” amenity to the community. Following completion of the plan, Barge provided design services including landscape architecture, architecture, engineering (civil, structural, mechanical, electrical), bidding, and construction phase services.		
b.	(1) TITLE AND LOCATION (County) McFee Park Master Plan, Town of Farragut (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2009	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm McFee Landscape Designer who provided design services for revisions to the previous master plan and providing site design services including site layout plan, site grading plan, erosion and sediment control plan, and storm drainage plan for Phase I improvements.		
c.	(1) TITLE AND LOCATION (County) Domtar Park and Eastman Park at Horse Creek Phase II and III (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager and Landscape Architect to revise the overall master plan for both parks. Provided design, project management and construction administration services for added improvements including a new playground, lighting for sports fields, walking trails, and a sand volleyball court.		
d.	(1) TITLE AND LOCATION (County) Kingsport Fire Training Facility (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for survey, site design, and utility plans for the Kingsport Fire Training Facility. A stormwater pollution prevention plan was prepared as well as design for a stormwater drainage system equipped to a 10-year rainfall occurrence. The facility will serve as a regional fire training facility with the first phase of construction providing site preparation, utilities, perimeter fencing and a gravel pad. Future phases will include office and training classrooms, garage bays, and training facilities such as a smoke maze, collapse rescue area, and burn building.		
e.	(1) TITLE AND LOCATION (County) Main Street Kingsport Rebuild and Streetscape (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Designer leading a team for this proposed reconstruction project of Main Street from Sullivan Street to Market Street in Kingsport, TN. Transportation Improvements include sub-surface repair/rebuild, resurfacing, sidewalk enhancements/ ADA compliance, storm drainage and railroad coordination. The project is being completed through the TDOT Local Programs Office, so all work is in full accordance with TDOT standards/requirements. Professional services completion expected in 2018; construction completion expected in 2019.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Danielle Norman	13. ROLE IN THIS CONTRACT Landscape Architecture	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		5	4
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Knoxville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Landscape Architecture, Landscape Architecture; Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: American Society of Landscape Architects (ASLA)			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Estabrook Road Site Improvement Plan (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Designer for demolition and improvement of the existing access to the University of Tennessee stadium and new engineering building by students and visitors, characterized by heavy foot traffic on game days. This is a task through Barge's contract for UT Campus Beautification projects. The goal of this task is to improve the pedestrian experience with redevelopment of the sidewalks on this challenging, steeply sloped site. This will be accomplished by development of plazas adjacent to the sidewalks, improved structural integrity of the area, and creation of studying/gathering spaces that will enhance the pedestrian experience for students, faculty, and the public alike.		
b.	(1) TITLE AND LOCATION (County) Plateau Parkway Roadway and Sustainable Infrastructure Design (Cumberland County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Designer for 1,800-linear foot segment of Plateau Parkway, the main entrance road into the Plateau Partnership Park West Campus. Includes preparation of landscape plans and specifications for trees, shrubs, grasses, and ground covers, with an emphasis on native and adapted plant species. Also includes design of the bioswale retention areas in conjunction with the civil engineers. Involves design of detailed cross-sections necessary to hold and infiltrate the specified rainfall rates, design of the overflow system, and landscape plans.		
c.	(1) TITLE AND LOCATION (County) Main Street Kingsport Rebuild and Streetscape (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil/Landscape Designer for this proposed reconstruction project of Main Street from Sullivan Street to Market Street in Kingsport, TN. Streetscape improvements include site furnishings, planting design, resurfacing, sidewalk enhancements, and ADA compliance. The project is being completed through the TDOT Local Programs Office, so all work is in full accordance with TDOT standards/requirements. Ensuring quality and compliance with plan and schedule. Construction completion expected in 2019.		
d.	(1) TITLE AND LOCATION (County) Chattanooga Riverwalk Phase I-III, City of Chattanooga (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2010	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Designer for this multi-phase project to create an unbroken greenway along the Tennessee River. Worked directly with Hamilton County and City of Chattanooga officials, steering committee members, and the public to design the project alignment and coordinate design team members and consultants. Led fundraising tours, assisted in grant funding applications, and coordinated with TDOT on funding requirements and process.		
e.	(1) TITLE AND LOCATION (County) Magnolia Avenue Streetscape, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Designer for project to revitalize Magnolia Avenue and provide for more safe pedestrian usage by incorporating sidewalk and curb improvements, bus stops, site furnishings, planting design, addition of bike lanes, new medians, and roadway reconstruction.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME John Brown, PLA, LEED AP	13. ROLE IN THIS CONTRACT Landscape Architecture	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		22	13
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Chattanooga, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Landscape Architecture		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Landscape Architect in AL, TN, NC, GA	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications: LEED Accredited Professional; American Society of Landscape Architects (ASLA)

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Chattanooga Riverwalk, Phases I-III, City of Chattanooga (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager and Lead Designer of this multi-phase project to create an unbroken greenway along the Tennessee River. Worked directly with Hamilton County and City of Chattanooga officials, steering committee members, and the public to design the project alignment and coordinate design team members and consultants. Led fundraising tours, assisted in grant funding applications, and coordinated with TDOT on funding requirements and process. Worked with Norfolk Southern and CSX railroads regarding easements and crossings. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) South Chickamauga Creek Greenway (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Landscape Architect for an ADA-accessible, multi-use path that follows South Chickamauga Creek through steep, rocky terrain. Catering to walkers, bikers, runners, and canoers of all ages, the scenic trail has developed into a popular destination for leisure and alternative transportation. Designed landscape and hardscape features for this paved and gravel trail and boardwalk winding through wooded areas with historical significance. One of the main goals was determining a way to traverse the difficult terrain without destroying the natural beauty of existing plant communities along the creek. The elevated boardwalk provided the desired accessibility with minimal impact to the existing vegetation and steep topography.		
	(1) TITLE AND LOCATION (County) Jack Mattox Park Facility Improvements (Catoosa County, GA)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014	2015
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Landscape Architect for design services for Jack Mattox Park, a 55-acre site. Led design of landscape improvements and park upgrades and additions. Landscape design includes plantings, sodding and irrigation, raised planters that can be used for seating, shade structures, ball field netting, and hardscape improvements.		
	(1) TITLE AND LOCATION (County) Montague Park Master Plan (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2011	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager and Lead Landscape Architect for master planning of the proposed Sculpture Fields involving walking trails to experience the exhibits, visitor's center, and parking area. Pedestrian-friendly circulation and good usage of greenspace were important elements of the design. Conducted design charrette, developed vision with the client, and produced site concepts.		
	(1) TITLE AND LOCATION (County) Cherokee Removal Memorial Park (Meigs County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2009	2013
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for master planning and design of the park including native and wildlife trails, both primitive and paved, that provide walking and contemplative opportunities. Incorporated input gathered from several public meetings and design charrettes. Interpretive features were an important part of the planning and design. Used native materials and plantings and made special efforts to preserve old growth present on and around the property.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Paul Darr, PLA	13. ROLE IN THIS CONTRACT Landscape Architecture	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		15	11

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Chattanooga, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Landscape Architecture, Landscape Architecture; Bachelor of Science, Ornamental Horticulture and Landscape Design	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Landscape Architect in TN
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: American Society of Landscape Architects (ASLA); TDEC Level 1 - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect in charge of updating the existing Interchange Access Request by analyzing the feasibility of several alternatives and defining the improvements that would be necessary to meet current and future regional needs. The work included analyzing the Metropolitan Planning Organization traffic model, studying viable solutions, and generating a revised model of 2040 traffic data. Developed multiple functional layout designs of the alternatives for accommodating the increased traffic while minimizing off-site improvements that would be required. It includes modifications to the TDOT Smartway ITS system in the area, as well as the design of new traffic signals with new fiber communications interconnect at the new interchange. Construction completion expected in 2019.		
b.	(1) TITLE AND LOCATION (County) City of Franklin Comprehensive Parks and Recreation Master Plan (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect for preparation of a comprehensive parks and recreation 10-year needs assessment master plan to help guide the future of the parks and recreation system including parks, greenways, open space, and many facilities with historic significance. Participated in facilities inventory and analysis, as well as public involvement outreach.		
c.	(1) TITLE AND LOCATION (County) John C. Wilson Park Expansion Master Plan (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architecture Designer who provided landscape architectural master planning services for a proposed park on the side of Lookout Mountain. The proposed park will serve as the terminus point for the TN Riverpark and transition to various trails on Lookout Mountain in both TN and GA. The park is to be used for cross-country races and other events as well as passive recreation, hiking, and biking activities. Generated graphic renderings.		
d.	(1) TITLE AND LOCATION (County) I-20/59 Placemaking Project Birmingham (Jefferson County, AL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect for an initiative to transform a space adjacent to the I-20/59 corridor from parking to a vibrant space for public gathering. The goal is to develop high-level design, pedestrian amenities, and lighting for active and passive opportunities.		
e.	(1) TITLE AND LOCATION (County) Jefferson Street Park (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2008	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect Designer who provided landscape architectural master planning services for a neighborhood park. Participated in several neighborhood meetings to gather public input for the design. Identified the goals and objectives for the park based on that input and then prepared a master plan to incorporate the goals and objectives, plus unique features such as public art and sustainable design practices.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Landel Bilbrey, PE	13. ROLE IN THIS CONTRACT Structures	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		36	7
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: TN, OH, GA, AL, KY, MS	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications and Training: Highway Bridge Design Using LRFD, American Society of Civil Engineers, 2005 ; LRFR Load Rating of Segmental Concrete Bridges, Federal Highway Administration, 2012; FHWA-NHI 130053 Bridge Inspection Refresher Training, National Highway Institute, 2012; TDOT Floodplain Training Class, 2011; AASHTO Bridge Subcommittee			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2018
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer preparing plans and performing structural analysis and design for work to be completed by a contractor through contract repairs. Includes widening of Hickory Hollow Parkway bridge over I-24 as part of an interchange facilitating traffic to commercial development containing IKEA furniture store. Also developing plans for two new bridges and retaining walls within the development.		
	(1) TITLE AND LOCATION (County) I-40 Over Clinch River Bridge Repair (Loudon County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2013	2016
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer who prepared plans and performed structural analysis and design of the bridge project. Scope included traffic control and wide-load detour plan, blast cleaning, and painting all structural steel. Repaired any bracing members or gusset plates in-kind and replaced any missing rivets or bolts with equivalent sized bolts as needed. Performed full and partial depth deck repairs utilizing methacrylate around the edges of the patches. Provided spall repairs with high early strength concrete and polymer modified cementitious material on substructures. Provided texture coating for top and inside face of the parapets and the median barrier wall. Removed existing and provided new asphalt transitions to existing asphalt.		
	(1) TITLE AND LOCATION (County) SR-9 Over I275 (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014	2014
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer who prepared plans and performed structural analysis and design for this project. Scope included traffic control, removal of asphalt from existing bridge and approach transitions and replacement with deck seal, and 3.25 inch asphalt overlay on the bridge and asphalt in the transitions. Developed details for partial and full depth deck repairs. Developed details for repair of spalled areas on all intermediate diaphragms and beams. Developed details for repair of spalled areas on all substructures, bent protection barriers on I-275, and slope paving at abutment No. 2.		
	(1) TITLE AND LOCATION (County) I-240 CMGC (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2018
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer preparing plans and performing structural analysis and design for a CMGC delivery project, only the second CMGC project by TDOT. Part of the design team providing design for the accelerated bridge construction (ABC) methods to reduce impacts to the travelling public while replacing four deteriorating bridges over I-240. ABC technique utilized will be similar to FastFix8, two girder precast superstructure units.		
	(1) TITLE AND LOCATION (County) Airport Access over SR-75 (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2017
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer who prepared plans and performed structural analysis and design for replacing the damaged exterior prestressed concrete box girder and associated deck slab using mechanical couplers. Developed details and notes for strand splicing the damaged interior girder, and repair of the collision hole in the bottom of the regularly reinforced concrete Hollow box. Cut inspection hole for delivery of concrete near bent.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Davis, PE	13. ROLE / TITLE Structures	14. YEARS EXPERIENCE	
		a. TOTAL 8	b. WITH CURRENT FIRM <1

15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, AL, KY
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Affiliations: American Society of Civil Engineers, American Society of Highway Engineers

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	I-24 Over Germantown Road CM/GC (Hamilton County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Bridge Engineer for replacement project. The existing I-24 bridge over South Germantown Road in Chattanooga has insufficient vertical clearance as well as an overall condition rating of Poor due to many reasons. TDOT elected to use the CM/GC process to replace the bridge. The project will also include replacing the Belvoir Avenue bridge over I-24 directly to the southeast of South Germantown Road. Responsibilities include preliminary structural design and bridge construction phasing. Professional services and construction services completion in 2020.		
b.	TDOT Region 2 Roadway Departure Action Plan (Various Counties)	2014	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Project Designer for project to review predetermined segments of roadway assigned by TDOT to look at safety concerns. Helped with the Region 2 Pilot Implementation, District 2034, District 2031, District 2051, District 2046, and District 2037. Using aerials to make markups during site visits, created plans for installation of signs, object markers, guardrail, pavement markers, and other safety measures.		
c.	I-40 Ramp Queue Study (Davidson County)	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Project Designer for project involving traffic counts on the I-40 and Church Street interchange in downtown Nashville.		
d.	Bridge TPR (Stanton Koko Road) (Haywood County)	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Project Designer for bridge replacement study. Served on the team that completed the field review and inspection and existing plans.		
e.	Rural State Route Shoulder Widening SR-257 (Robertson County)	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Project Designer for review of a segment of roadway for shoulder widths, drop off, and side slope. Created a technical report with typical cross-sections and a proposed plan of action to prevent roadway departures.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Kevin McAlister, PE, CPESC, LEED AP	13. ROLE IN THIS CONTRACT Structures	14. YEARS EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering; Bachelor of Science, Civil Engineering, Structural Emphasis		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, FL, MS, NC, KY, GA, OH, AL, TX	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications and Training: Certified Professional in Erosion and Sediment Control, LEED Accredited Professional, TDEC Level II Erosion Prevention and Sediment Control Affiliations: American Society of Civil Engineers (Past President 2016), American Society of Highway Engineers, NSPE/TSPE			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) TDOT I-24 over Spring Street, Oldham Street / CSXT Railroad (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Engineer for this project that included rehabilitation of four structurally deficient bridges and major maintenance on twin bridges over the Cumberland River as part of a project to upgrade this section of the I-24 corridor in downtown Nashville. Design utilized current LRFD Specifications and accelerated bridge construction techniques to allow for the completion of the project with a maximum of 14 weekend closures that impact mainline traffic. <input type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (County) TDOT SR-230 over Hurricane Creek Hurricane Creek Overflow Bridge Rehabilitations (Humphreys County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Engineer for the rehabilitation and major structural repair to these two structurally deficient bridges over Hurricane Creek. Scope included a complete superstructure replacement, major structural repair details, and pier widening details. <input type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (County) Albert Gallatin / Hatten Track Extension (Sumner County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Engineer for the Phase II (final) bridge design services for the City of Gallatin to provide a new vehicular connector for local residents. Designed and detailed two bridges (315'-4 spans, 248'-2 spans) utilizing precast, pre-stressed concrete AASHTO and bulb-tee beams. Substructures consisted of multi-post bents on drilled shaft foundations or concrete wall bents with spread footings bearing on rock. Roadway geometry required both vertical and horizontal curves and severe skews for the creek crossing. <input type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (County) TDOT SR-230 over Piney River (Hickman County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Engineer for the rehabilitation and major structural repair on this single ten-span bridge over the Piney River. Scope included a complete superstructure replacement, major structural repairs, widening details to selected existing piers, and design and construction of new piers to accommodate a proposed new span arrangement. <input type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (County) TDOT I-65 over Cumberland River (Davidson, TN)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Engineer for the bridge repair and rehabilitation services provided for TDOT for the I-65 bridge over Cumberland River. Scope of work for this steel plate girder bridge included the replacement of concrete barrier rail, structural steel repairs, and the rehabilitation of the existing abutment beams. The bridge work was completed in various phases at night by shifting traffic to efficiently move traffic through the construction site with minimal impacts. <input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Marris Jones	13. ROLE / TITLE Structures	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		14	11

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Associate of Science, Computer Aided Drafting Technology	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: OSHA - 10-Hour Construction Worker Safety Course, TTAP - Work Zone Traffic Control Flagging, National Highway Institute - FHWA_NHI-130055 Safety Inspection of In-Service Bridges, NHI 130053: Bridge Inspection Refresher Training

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Snyder Road Realignment (Sevier County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bridge Designer for plans development for a bridge replacement. The single-span superstructure included prestressed AASHTO girders and concrete deck. The substructures are closed, wall type abutments. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) Century Farms Road Infrastructure, Metro Nashville (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bridge Inspector for project consisting of a 250-acre development west of I-24, including the widening and construction of three main arterial streets totaling approximately 1.25 miles of project length. Review structural design and plans production of two cast-in-place cantilever retaining walls each of which approximately 350 feet in length along one of the arterials, Ikea Parkway. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) Interchange Expansion, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bridge Inspector for improvements at the I-24/Hickory Hollow Parkway Interchange. Some of the goals for the interchange are increased safety, improved routes, alternative access, and providing additional access while maintaining service along the corridor. Marris inspected widening of the deck, additional steel plate girders, and the widening of the existing abutments and pier. Performed design of a new single-span prestressed I-beam bridge as part of the project including the wall type abutments and foundation. An Interstate Access Request was part of this project. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) SR 36 Over Watts Branch (Unicoi County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	2015
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Designer and Bridge Inspector for bridge inspection and developed repair plans for a two-span concrete girder bridge. Repairs included removal and replacement of exterior girders and deck overhangs, spall repairs on substructures with high early strength concrete and polymer modified cementitious material, epoxy injection of cracks on substructures, bridge widening to accommodate phased construction, wingwall modification, placement of reinforced concrete overlay, and construction of new parapets.		
	(1) TITLE AND LOCATION (County) I-81 Over Hale Road Bridge Repair (Hamblen County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Designer and Bridge Inspector for TDOT Bridge over Hale Road in Hamblen County. Reviewed TDOT-furnished bridge inspection report, performed field review of structure, performed structural analysis and design, and prepared contract plans and cost estimates for repair. Involved removal of vegetation on and around bridge, removal of existing asphalt and existing concrete deck and replacement of deck using high-strength concrete, removal and replacement of existing overhangs and parapets, modification of existing wingwalls, and spall repairs with high-strength concrete and polymer modified cementitious material. Construction completion expected in 2018.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Gaby Martinez, EI	13. ROLE / TITLE Transportation Investments Reports, Bridge TIR, Interstate Access Requests	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		4	<1
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Engineer Intern in FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Interchange Expansion, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Bridge Designer for plans and structural analysis and design for work to be completed by a contractor through contract repairs. Includes widening of Hickory Hollow Parkway bridge over I-24 as part of an interchange facilitating traffic to commercial development containing IKEA furniture store. Also developing plans for two new bridges and retaining walls within the development. Design tasks include substructure design for the new Ramp B bridge, and design of four retaining walls. Construction completion expected in 2019.		
	(1) TITLE AND LOCATION (County) SR 589 (Suncoast Parkway 2), Florida's Turnpike Enterprise, (Hernando and Citrus Counties, FL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Structural Designer for calculations and plan sheets for three of the project's five proposed bridge sites. Directly involved in the superstructure and substructure design as well as proposed bridge load ratings. The project's five proposed bridge sites include three sites consisting of twin overpass structures along SR 589, one site consisting of a two-span structure over SR 589 with aesthetic piers, and the final site consisting of twin bridges over a Wildlife Crossing. All sites include the design of MSE retaining walls.		
	(1) TITLE AND LOCATION (County) SR 528 (Beachline) Widening from I-4 to Florida's Turnpike Florida's Turnpike Enterprise (Orange County, FL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Structural Designer for calculations and plan sheets for the 4.3-mile widening of SR 528 from a four-lane to eight-lane limited access toll facility with inside express toll lanes with delineators in each direction. Project limits are from I-4 to Florida's Turnpike. Structural improvements included the widening of six bridges with FIBs, replacement of one bridge and addition of two ramp bridges. Directly involved in the superstructure and substructure design, finish grade elevations, as well as proposed bridge load ratings.		
	(1) TITLE AND LOCATION (County) SR 528 Widening from I-4 to McCoy Road, Florida's Turnpike Enterprise (Orange County, FL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Structural Designer for calculations and plan sheets for the widening of an 8.4-mile segment of SR 528 from a four-lane to a six-lane section. Structural improvements included bridge widenings, bridge replacements, and new bridges over roadways, waterways, and CSX railways for a total of 14 bridge sites. All bridges utilized concrete beams and deep foundation substructures. Directly involved in the superstructure and substructure design.		
	(1) TITLE AND LOCATION (County) Starke Bypass Segment 2, FDOT District Two (Bradford County, FL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Structural Designer for calculations and plan sheets for a new alignment crossing over SR 16 and CR 229. The two bridge sites consist of twin bridges utilizing Florida-I Beams with MSE walls. Design tasks also include bridge mounted signs, cantilever signs, and mast arms.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Amy Moore, PE	13. ROLE IN THIS CONTRACT Structures	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		11	2

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Miamisburg, OH)

16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Science, Civil and Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, OH, GA, AL, TX, KY
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Affiliations: Younger Member Chair for Dayton ASCE November 2012 - June 2017;
President Association of Bridge Construction and Design Southwest Chapter February 2017-present

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Interchange Modification to Diverging Diamond Interchange, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Checker and Reviewer for structural design of the bridge plans for two new bridges and retaining walls within the development. Includes widening of Hickory Hollow Parkway bridge over I24 as part of an interchange facilitating traffic to commercial development containing IKEA furniture store.		
b.	(1) TITLE AND LOCATION (County) PRE-35-12.58/15.41/19.86 for ODOT (Preble County, OH)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Checked structural design of a 3-span reinforced concrete slab superstructure replacement and a 3-span steel beam deck replacement. The 3-span slab included replacement of the superstructure, pier caps, approach slabs and abutments down to the top of footings and replaced with an integral cast-in-place concrete 3-span slab bridge with new pier caps. The 3-span steel beam bridge rehabilitation included a new composite deck and replacing the approach slabs and abutment diaphragms down to the beam seat and rehabilitating the existing piers by strengthening the pier pilings with steel plates. Construction completion expected in 2020.		
c.	(1) TITLE AND LOCATION (County) I-240 CMGC (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Checked structural design for the accelerated bridge construction (ABC) methods as part of a Construction Manager/ General Contractor (CMGC) project to reduce impacts to the travelling public while replacing four deteriorating bridges at the US 72/I-240 interchange. Bridge engineering services provided for the Poplar Avenue WB bridge, incorporating ABC methods in the design of the new bridge.		
d.	(1) TITLE AND LOCATION (County) MOT-75-12.00, Dayton, OH (Montgomery County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2012	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Designed a new ramp bridge as part of a major interchange reconstruction in downtown Dayton. The new bridge was a four-span continuous, composite, welded steel plate girder superstructure, with T-type fluted piers and stub abutment on MSE walls. Most of the structure is on a tangent alignment except the north end of the structure falls within a horizontal curve and required dog-legged girders and varying fascia overhangs.		
e.	(1) TITLE AND LOCATION (County) State Route 799 over Clendening Lake (Harrison County, OH)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Bridge Engineer for a single-span box beam bridge using non-conventional materials (carbon fiber composite cable (CFCC) prestressing strands from Tokyo Rope and stainless steel reinforcing) on wall type abutments. This was ODOT's first project using carbon fiber strands. This new composite material has been proven to be light weight, high strength, and corrosion resistant.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Brad Garrison, PE	13. ROLE IN THIS CONTRACT Structures	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		8	3
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Miamisburg, OH)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, OH, KY, AL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Training: National Steel Bridge Alliance (NSBA) course - Introduction to Steel Bridge Design			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Snyder Road Realignment (Sevier County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer for new single-span bridge. Performed design of the wall type abutments and foundation. Superstructure was prestressed concrete spread box beams with composite reinforced concrete deck. Substructure was wall type abutments on spread footings. Construction completion expected in 2019.		
b.	(1) TITLE AND LOCATION (County) TDOT SR-2 over Sweetwater Creek (Monroe County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer for a project for TDOT to inspect and repair two bridges over Sweetwater Creek. Prepared plans and performed structural analysis and design for repair. Included repair of spalls and cracks, new asphalt approach transitions, upgrade of guardrail and end terminals, and curb modification. Also included preparation of opinion of construction cost.		
c.	(1) TITLE AND LOCATION (County) TDOT SR-61 over Caney Creek Inspection, Repair, and Rehabilitation (Roane County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer for a bridge repair project involving review and inspection of the structure. Provided design for repair of spalls and significant cracks on all substructures. Performed design of prestressed concrete spread box beams and pier cantilever extension. The project included removal of existing superstructure, widening and replacement in phases with prestressed box beams, single slope faced bridge rail, and mechanically grooved bridge deck.		
d.	(1) TITLE AND LOCATION (County) Interchange Modification to Diverging Diamond, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer for improvements at the I-24/Hickory Hollow Parkway Interchange. Some of the goals for the interchange are increased safety, improved routes, alternative access, and providing additional access while maintaining service along the corridor. Garrison performed the design for the widening of the deck, additional steel plate girders, and the widening of the existing abutments and pier. Also performed the design of a new single-span prestressed I-beam bridge as part of the project including the wall type abutments and foundation.		
e.	(1) TITLE AND LOCATION (County) TDOT Airport Access over SR-75 (Sullivan County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer for inspection and repair of collision damaged bridge. Provided design for repair of damaged beams including full replacement of one prestressed beam damaged beyond repair. The project included removal of part of the existing superstructure to replace one of the existing damaged beams and to repair another prestressed beam by splicing broken strands.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Justin Leaders, PE	13. ROLE IN THIS CONTRACT Structures	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		10	2
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Peachtree Corners, GA)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Building Construction and Facility Management Bachelor of Science, Civil Engineering Technology		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in PA, GA	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Affiliations: American Institute of Steel Construction			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Snyder Road Realignment (Sevier County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer for new single-span bridge. Responsible for design for foundation and substructure of a bottomless corrugated metal arc culvert. The bridge was 25 feet wide and 65 feet long. The design components included wingwall, headwall and culvert footings on H-pile foundation. Construction completion expected in 2019.		
b.	(1) TITLE AND LOCATION (County) Interchange Modification to Diverging Diamond Interchange, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer for the interchange modification that affects a 1-mile section of existing full access controlled interstate. Responsible for design and detailing for new single-span bridge, 70 feet long by 210 feet wide. The bridge was 1 span of pre-stressed concrete beams, multi-use path on one side, decorative inlay on parapet, and integral vertical wall abutments. Design of four connecting cast-in-place concrete cantilever walls. Construction completion expected in 2019.		
c.	(1) TITLE AND LOCATION (County) Fort Knox Bridge #23 (Hardin County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineer for the design of Fort Knox Bridge #23. Responsible for design of bridge railing replacement on Bridge #23. The bridge was 425 feet long with existing timber railing. The barrier replacement design incorporated a twin w-beam guardrail attached to the existing bridge deck.		
d.	(1) TITLE AND LOCATION (County) Northridge Road over SR 400 (Fulton County, GA)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2013	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Responsible for design and detailing final bridge plans and coordination with contractor under a design-build contract for Northridge Road over SR 400. The bridge was designed with LRFD. It was stage constructed to be 3 spans of pre-stressed concrete beams totaling 315', three utility lines, decorative parapet, barrier and fence, horizontally curved alignment, skewed bents parallel to SR 400, end bents support on H-pile behind MSE walls, and intermediate bents on spread footings.		
e.	(1) TITLE AND LOCATION (County) Jiles Road over CSX (Cobb County, GA)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2010	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Structural Engineer responsible for design and detailing of parallel bridge, 186 feet long. The bridge was 3 spans of pre-stressed concrete beams, sidewalk on one side, vertical fence on modified New Jersey barrier and curved fence on parapet, layout of 6 telephone conduits attached to bridge, H-pile end bents and concrete multi-column intermediate bents with H-pile footings.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Mark Washing, PE	13. ROLE / TITLE Traffic/Signalization	14. YEARS EXPERIENCE	
		a. TOTAL 32	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, AL, AR, GA, KY, LA, MS, NC, FL, OH
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Affiliations: TDOT's Traffic Signal User Group, Intelligent Transportation Society of Tennessee (Currently on Board of Directors, Past President), Institute of Transportation Engineers, Intelligent Transportation Society of America

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) CMAQ Signal Timing (Wilson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for development, refinement, and implementation of new basic and coordinated traffic signal timing plans for 27 signalized intersections within the City. Encompassed collection of traffic counts, intersection geometry, and signal timing settings.	<input type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (County) Hatten Track Roadway and Bridge Project (Sumner County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for upgrade and design of two traffic signals. Traffic signal design included fiber optic cable layout and design which connect the two signals with a closed-loop signal coordination system. Mark coordinated and worked with the City so that the fiber system installed would meet requirements for future central traffic signal system installations.	<input type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (County) Memphis Signal System Design (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for design of two coordinated, closed-loop signal systems, including 30 signals and 17 miles of fiber interconnect. An operational analysis of each signalized intersection was performed using Synchro to evaluate the existing traffic flow along the corridor. Signal timing and coordination plans were developed for the morning, noon and afternoon peak periods as well as one off-peak period. Timing plans were developed using Synchro 6.0 and SimTraffic.	<input type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (County) Traffic Study, City of Berea Bypass (Madison County, KY)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2003	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for HCS study for the roadway design of Bypass. The study included determining number of lanes required for corridor, requirements for signalized intersection and overall intersection design.	<input type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (County) Traffic Study, Clays Mill Road Widening Study (Fayette County, KY)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2002	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for the widening study for Clays Mills Road in Lexington, Kentucky. The HCS study determined number of lanes needed for the roadway and at the intersection and overall intersection design.	<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jonathan Smith, PE	13. ROLE / TITLE Traffic/Signalization	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		14	1

15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, GA, AL, KY, OH
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications: IMSA Traffic Signal Technician - Level I and Level II, Work Zone Traffic Control Technician

Affiliations: Intelligent Transportation Society of America, Institute of Transportation Engineers

19. RELEVANT PROJECTS

#	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Interchange Modification to Diverging Diamond Interchange, I-24 and Hickory Hollow Parkway (Davidson County)	2018	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for this project consisting of an interchange modification that affects a one-mile section of existing full access controlled interstate. The project will widen Hickory Hollow Parkway to a six-lane urban section, significantly modifying the current ramps. Responsible for traffic studies and crash analysis to develop alternatives for interchange to accommodate increased traffic. Generated model of 2040 traffic data. Designed two new signals at the new ramp. Construction completion expected in 2019.		
	Columbia Avenue Traffic Signal Timing (Williamson County)	2018	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer leading the analysis, preparation, and field implementation of four coordinated, time-of-day signal timing plans at six existing signalized intersections on Columbia Avenue from Mack Hatcher Parkway to Downs Boulevard for the City of Franklin. Construction completion expected in 2022.		
	Lipscomb University Traffic Impact Study Update (Davidson County)	2016	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Traffic Engineer who conducted traffic signal warrant analysis and report for intersection experiencing delays in peak period. Collected turning movement counts, documented findings, and submitted to Metro Public Works.		
	Starwood Commons (Davidson County)	2018	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer who conducted traffic study collecting peak hour turning movement counts at several intersections, conducted field observations, and inventoried existing study area conditions.		
	PTOP Systems Manager (Fulton County, GA)	2015	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm PTO System Manager responsible for operation, maintenance and signal timing responsibilities for 100 signalized intersections as part of Perimeter Transportation Operations Program (PTOP). Project included development of four new signal timing plans, daily operation and maintenance of signals, response to municipal concerns, and development of optimization improvement plans. Project encompassed the PCID area including corridors in Sandy Springs, Dunwoody, and Brookhaven, Georgia. Project also included timing, maintenance, and operational support to Regional Transportation Operations Program (RTOP).		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Peter Kauffmann, PE, PTOE	13. ROLE IN THIS CONTRACT Traffic/Signalization	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		9	2
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Memphis, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, GA, KY, AL, OH, DC, MS	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: Certified Professional Traffic Operations Engineer (PTOE), Autodesk Civil 3D Certified Associate			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Interchange Modification to Diverging Diamond Interchange, I-24 and Hickory Hollow Parkway (Davidson County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer who is tasked by FHWA-TN and TDOT to analyze a corridor along Interstate 24 as part of an Interstate Access Request. The interchange was originally constructed as a partial cloverleaf providing access only to the north. The project proposed to extend Hickory Hollow Parkway south to provide access to a new mixed-use development. Traffic operations analysis conducted using HCS+ and Synchro identified that a DDI (Diverging Diamond Interchange) would provide better traffic operations than a TDOT-standard partial cloverleaf due to the high volume of left turns to/from the new development. Since this interchange will be only the third DDI in the state, FHWA-TN also requested that a quantitative crash analysis to be conducted using the Crash Prediction Module of the Highway Safety Manual, as implemented in IHSDM (Interactive Highway Safety Design Model). The IHSDM analysis identified that completing the interchange would significantly reduce traffic on surrounding surface streets, thereby reducing the net incidence of crashes across the entire network. Construction completion expected in 2019.		
b.	Columbia Avenue Widening (Williamson County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for roadway widening project on US Highway 31, then three-lane roadway suffering from over-capacity conditions during peak hours. Conducted travel demand forecasting and intersection capacity analysis to inform laneage and control strategies in final roadway designs. Alternatives included a simple widening to a five-lane cross section, widening to a four-lane section with the addition of a curbed median and left turn lanes add in access control and improve safety, and conversion to a roundabout corridor for maximum safety and traffic flow benefits. Construction completion expected in 2022.		
c.	E. McEwen Drive Roundabout Design (Williamson County)	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer responsible for a safety study conducted as part of design to improve the existing roundabout intersection. Studied traffic counts and crash data, and assessed safety in conjunction with design modifications and pavement marking and signing alterations. Construction completion expected in 2019.		
d.	Memphis Cook Convention Center Renovation (Shelby County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for traffic study needed for road closures due to renovation of the convention center. Involved data collection, traffic analysis, and technical report. Construction completion expected in 2019.		
e.	Starwood Commons (Davidson County)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for project involving a concept to redevelop an area at an abandoned amphitheater into a walkable Town Center with a mix of uses. Responsible for trip generation and traffic study elements including collecting peak hour turning movement counts at several intersections, conducting field observations, and inventory of existing study area conditions. Professional services completion expected in 2018.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Lauren Gaines	13. ROLE / TITLE Traffic /Signalization	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		5	3
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: TDEC Level I Erosion Prevention and Sediment Control, TDEC Level II Erosion Prevention and Sediment Control, Highway Capacity Manual Training, Local Government Guidelines Manual Training, Local Public Agency Workshop, Roadway Drainage Design Certification Affiliations: Institute of Transportation Engineers (TSITE Section Representative), American Society of Highway Engineers			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Century Farms Roadway Infrastructure (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Designer for conceptual design for a complete package of roadway and utility infrastructure to service the Century Farms commercial development. Scope of work included a Traffic Impact Study including a trip generation analysis for a high-density office space, projection of future traffic, and analysis of roadway improvements needed to mitigate the impact of additional traffic. Construction completion expected in 2019.		
b.	(1) TITLE AND LOCATION (County) I-24 Over Germantown Road CM/GC (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Coordinator for professional services for the design and project management assistance. The existing I-24 bridge over South Germantown Road in Chattanooga has insufficient vertical clearance as well as an overall condition rating of Poor due to many reasons. TDOT elected to use the CM/GC process to replace the bridge. The project will also include replacing the Belvoir Avenue bridge over I-24 directly to the southeast of South Germantown Road. Involving bridge studies and traffic studies. Professional services and construction completion expected in 2020.		
c.	(1) TITLE AND LOCATION (County) Columbia Avenue Widening (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Coordinator for environmental studies to prepare a D-List for the proposed improvements to Columbia Avenue to enhance accessibility and improve traffic flow and delay. Assisted in traffic and corridor planning studying which included traffic and safety analysis, crash diagrams, IHSDM modeling, and preliminary costs estimates. Construction completion expected in 2022.		
d.	(1) TITLE AND LOCATION (County) Interchange Modification to Diverging Diamond Interchange, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Designer for extensive crash and safety analysis using IHSDM. Supported Traffic Engineer in traffic, safety, and queuing analysis, projected traffic, cost estimates, and projected impact considerations. Also assisted in environmental study by preparing traffic section of the EA. Construction completion expected in 2019.		
e.	(1) TITLE AND LOCATION (County) Lipscomb University Traffic Impact Study Update (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Designer for a thorough parking evaluation. Inventoried parking and developed custom parking generation rates for the campus based on numbers of on-campus and off-campus students, graduate and undergraduate, and evaluated a number of factors to address traffic issues related to the campus's current master plan. Identified appropriate designs for accommodating projected traffic that will be generated at the site and the parking facilities. Also updated previously developed campus parking maps where all available parking spaces are identified and categorized by type (handicap, faculty, student, visitor, based on information provided by campus traffic and parking.)		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Bill Hays, PE	13. ROLE IN THIS CONTRACT Traffic/Signalization	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		44	16
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Affiliations: American Society of Highway Engineers, Institute of Transportation Engineers			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) University of Tennessee Chattanooga Master Planning Traffic Study (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer who conducted a traffic study that examined UTC parking supply and demand, shuttle bus availability and scheduling, and traffic conflicts as part of the larger master planning effort. Guided conceptual studies for gateway establishment around the campus to create identity as well as improve signage/monument entry features, and improve pedestrian areas.		
b.	(1) TITLE AND LOCATION (County) Music City Center Traffic Impact Study (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engineer of Record for traffic study assessing the impact of a 1.2 million square foot convention city containing 375,000 square feet of exhibition area on local streets and intersections in downtown Nashville. Analyzed traffic counts for 17 nearby intersections and one proposed roundabout. Developed a new distribution of local traffic resulting from the proposed closing of streets to accommodate the building footprint as well as directional traffic flow changes on other streets. Utilized trip generation and roundabout analysis from companion roundabout study as input to the traffic impact study. Recommended mitigation measures on adjacent streets and nearby intersections.		
c.	(1) TITLE AND LOCATION (County) Music City Center Roundabout Feasibility Study (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2008	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for feasibility study analyzing the potential for a roundabout to manage traffic at major intersection adjacent to the proposed Music City Center convention complex. The existing three-way intersection was modified with a new fourth leg for a multi-lane boulevard with grassed median. The program SIDRA was used to access the level of service, space capacity, queuing distance, speeds, and performance impacts of a dual lane roundabout compared to a signalized intersection. Pedestrian considerations, ADA requirements, and approach slopes were evaluated. Due to a lack of established trip generation rates for convention centers, the study included a review of data from all convention centers in the United States having more than 200,000 square feet of exhibition area and 20 meeting rooms; eight centers were selected as input to a trip generation model for the Music City Center. Results of the roundabout feasibility study were used as input to the formal traffic impact study for the Center and for the design of the new boulevard.		
d.	(1) TITLE AND LOCATION (County) Interchange Modification to Diverging Diamond Interchange, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for analysis of a corridor along Interstate 24 as part of an Interstate Access Request. Traffic operations analysis conducted using HCS+ and Synchro identified that a DDI (Diverging Diamond Interchange) would provide better traffic operations than a TDOT-standard partial cloverleaf due to the high volume of left turns to/from the new development. Since this interchange will be only the third DDI in the state, FHWA-TN also requested that a quantitative crash analysis to be conducted using the Crash Prediction Module of the Highway Safety Manual, as implemented in IHSDM (Interactive Highway Safety Design Model). The IHSDM analysis identified that completing the interchange would significantly reduce traffic on surrounding surface streets, thereby reducing the net incidence of crashes across the entire network, and further projected that the DDI configuration would have a lower incidence of crashes at the interchange than a traditional cloverleaf. The traffic operations and safety performance metrics helped to justify both the DDI conversion and the expansion of the interchange to full access. Construction completion expected in 2019.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Tommy Alexy, PE	13. ROLE IN THIS CONTRACT Traffic/Signalization	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		17	4

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Huntsville, AL)

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer in TN, AL, MS, GA, KY, TX
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Affiliations: American Society of Civil Engineers

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Old Broadway Sidewalk Projects (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for project involving design of new sidewalk along Old Broadway. The work included two phases divided into northern and southern sections. The southern section includes pedestrian signal improvements at an intersection. Provided traffic analysis by comparing various alternative designs. The project involved a feasibility study, traffic study, technical report, and conceptual design.		
b.	(1) TITLE AND LOCATION (County) Columbia Avenue Widening (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for traffic analysis of the existing corridor and for various alternative designs. The project consists of 6,185 LF of widening from three to four/five lanes; addition of sidewalks, curb and gutter, transit stops and pull outs, bike lanes, and ITS elements; upgrading existing traffic signals and street lighting; and relocating/upgrading existing public and private utilities. Involved a feasibility study, safety analysis, traffic studies, crash data analysis, and technical reports. Construction completion expected in 2022.		
c.	(1) TITLE AND LOCATION (County) Interchange Modification to Diverging Diamond Interchange, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for the project which consists of an interchange modification that affects a 1-mile section of existing full access controlled interstate. The project will widen Hickory Hollow Parkway to a six-lane urban section, significantly modifying the current ramps. Provided traffic analysis for the approved Interstate Access Request, and will be designing two new traffic signals at the new ramp termini along Hickory Hollow Parkway. The project involved safety and traffic studies, crash data analysis, Highway Safety Manual, and traffic simulation. Construction completion expected in 2019.		
d.	(1) TITLE AND LOCATION (County) City of Milton Freemanville Roundabout Peer Review (Fulton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer who provided a peer review of the operational analysis and geometric design of a roundabout completed by another consultant. Prepared a technical report summarizing the results of our evaluation. Involved traffic study and analysis, and use of SIDRA.		
e.	(1) TITLE AND LOCATION (County) Magnolia Avenue Streetscape, City of Knoxville (Knox County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Traffic Engineer for project involving design for addition of bike lanes, new medians and turn lanes, sidewalk and curb improvements, and roadway reconstruction. Provided traffic analysis by comparing various alternative designs. Traffic engineering scope included a speed study and signal designs. Used Synchro and SimTraffic. Professional services completion expected in 2018.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Donna Roche, SR/WA, R/W-RAC	13. ROLE IN THIS CONTRACT Right-of-Way Services	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		30	4

15. FIRM NAME AND LOCATION (City and State)
O. R. Colan Associates, LLC (Little Rock, AR)

16. EDUCATION (DEGREE AND SPECIALIZATION) 39 hours of General Studies at Rose State College & University of Oklahoma	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications: Senior Right of Way Agent designation (SR/WA), Right of Way Relocation Assistance certification (R/W-RAC)
Affiliations: International Right of Way Association, International Relocation Assistance Committee Chair and Vice Chair and Chapter 33, President, Vice-President, Secretary and Treasurer.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and County) BNSF Railroad Overpass, Jonesboro (Craighead County, AR)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager who led a combined state/city project to build two overpasses of a railway to relieve traffic stoppage. It consisted of the acquisition of 56 ownerships with 10 relocations, of which Ms. Roche completed project management along with 32 acquisitions and 10 relocations.		<input checked="" type="checkbox"/> Check if project performed with current firm
b.	(1) TITLE AND LOCATION (City and County) Kanis Road Widening, City of Little Rock (Pulaski County, AR)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager who led appraisal, acquisition, and closing of 52 parcels. Ms. Roche also completed the negotiations on 9 parcels.		<input checked="" type="checkbox"/> Check if project performed with current firm
c.	(1) TITLE AND LOCATION (City and County) Juban Road Widening, LADOTD (Livingston Parish)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager who led a state road widening project requiring acquisition of 34 ownerships and 19 relocations.		<input checked="" type="checkbox"/> Check if project performed with current firm
d.	(1) TITLE AND LOCATION (City and County) Highway 82/425 – Hamburg (Ashley County, AR)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager who led the acquisition of 61 parcels on a state highway widening project. Professional services and construction services ongoing.		<input checked="" type="checkbox"/> Check if project performed with current firm
e.	(1) TITLE AND LOCATION (City and County) Connection Arkansas Program (Multi-County, AR)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ROW Program Manager responsible for the oversight of title, appraisal, appraisal review, acquisition, closings, and relocation on 5 highway projects in 4 counties. Work was performed by ARDOT ROW Consultants which covered over 200 parcels and 10 relocations. Professional services and construction services ongoing.		<input checked="" type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Raymond Canady	13. ROLE IN THIS CONTRACT Construction Services	14. YEARS EXPERIENCE	
		a. TOTAL 36	b. WITH CURRENT FIRM 36

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Nashville, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Associate of Science, Civil Engineering; Associate of Science, Architectural Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications and Training: TDEC Level I, TDEC Level II, TDOT HMA Certified Roadway Inspector, TDOT Concrete Field Certified Technician; 10-Hour OSHA Construction Safety, Transport Site Manager Office Documentation Class, Comprehensive Seminar for Civil Design Projects, TTAP-Work Zone Traffic Control/Flagging, TTAP-Chapter 8 (Preconstruction and Construction Procedures) of the Local Government Guidelines for the Management of Federal and State Funded Transportation Projects

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) TDOT CEI SR-84 Agreement No. E1525, CNJ349 (Overton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2014
	a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Constructability Reviewer for a roadway and bridge construction project. Responsible for monitoring contractor compliance with plans and specifications while tracking documentation required for state and federal funding. The project scope included preconstruction conferences; construction inspection; field surveying; materials testing; coordination, scheduling, and management of inspections; erosion control inspection; documentation tracking; quantity documentation and pay estimate preparation; review of shop drawings; and coordination of specialty subconsultants.	<input checked="" type="checkbox"/> Check if project performed with current firm
	(1) TITLE AND LOCATION (County) Chattanooga Riverwalk (Hamilton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2015
	b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Constructability Reviewer for CEI services for greenway along the Tennessee River in downtown Chattanooga. The project included a 3-mile extension of riverfront park, shelters, restrooms, sustainable design, and historic interpretation features. Responsible for inspections and submittal of paperwork, documentation for monthly progress payments, and compliance with TDOT requirements.	<input checked="" type="checkbox"/> Check if project performed with current firm
	(1) TITLE AND LOCATION (County) Columbia Safe Routes to School for Hampshire Pike CEI (Maury County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2012
	c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Constructability Reviewer for a pedestrian path, pedestrian crossing, and intersection (including signalization and pedestrian crossing equipment) along Hampshire Pike. CEI work not only included inspection of work relative to plans and specifications, it also included regularly scheduled erosion control inspections. Each inspection (every 72 hours), would be accompanied by a short report detailing BMPs that may have needed to be addressed relative to their current status or need for future maintenance. Barge worked closely with the contractor to deliver timely execution of any needed work in order to stay in compliance with the construction permit.	<input checked="" type="checkbox"/> Check if project performed with current firm
	(1) TITLE AND LOCATION (County) Public Square Enhancements, Livingston, Town of Livingston (Overton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Constructability Reviewer tasked with CEI services for Barge's design of new imprinted crosswalks and redesign of the handicap ramps on the corners of the courthouse square. Construction completion expected in 2018.	<input checked="" type="checkbox"/> Check if project performed with current firm
	(1) TITLE AND LOCATION (County) West Volunteer Drive Reconstruction (Overton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2010
	e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Constructability Reviewer for replacement of the drainage pipe, utilities, and roadway that were damaged by a severe storm. Project included design for removal of a 16-FT CMP from Carr Creek, replacement with a 16-FT CMP and a new headwall/wingwalls, then reconstruction of West Volunteer Drive. Partial funding was through FEMA.	<input checked="" type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME LaCole Webster	13. ROLE IN THIS CONTRACT Construction Services	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 12
15. FIRM NAME AND LOCATION (City and State) Barge Design Solutions, Inc. (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Drafting and Design Technology, (Emphasis in Architectural/Civil Drafting, Minor in Construction Management)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: TDEC Level I – Fundamentals of Erosion Prevention and Sediment Control for Construction Sites, TDEC Level II – Design Principles for Erosion Prevention and Sediment Control for Construction Sites; 10-Hour OSHA Construction Safety, TTAP-Work Zone Traffic Control/Flagging, Local Governments Guidelines Manual Training			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) Interchange Modification to Diverging Diamond Interchange, I-24 and Hickory Hollow Parkway (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Designer for an interchange modification that affects a 1-mile section of existing full access controlled interstate. The project will widen Hickory Hollow Parkway to a 6-lane urban section, significantly modifying the current ramps. The project involved an Interstate Access Request. Construction completion expected in 2019.		
b.	(1) TITLE AND LOCATION (County) Columbia Avenue Widening (Williamson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Designer for design of 6,185 LF of widening from three to four/five lanes (depending upon access management); addition of sidewalks, curb and gutter, transit stops and pull outs, bike lanes, and ITS elements; upgrading existing traffic signals and street lighting; and upgrading existing public and private utilities. Construction completion expected in 2022.		
c.	(1) TITLE AND LOCATION (County) Columbia Safe Routes to School for Hampshire Pike (Maury County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Administrator responsible for file management of material certification and test reports, calculations, and invoices in accordance with 23 CFR 635.123. Prepared for, cooperated with, and assisted auditors assigned to project records, payments, reports, and other documents. The safety improvement project included signalization, pedestrian crossing equipment, and a crosswalk at intersection of Hampshire Pike with Oak Springs Drive/relocated College Park Drive.		
d.	(1) TITLE AND LOCATION (County) Century Farms Roadway Infrastructure (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Designer for roadway and utility infrastructure package to service the Century Farms commercial development. Included temporary traffic control plans, pavement marking and signing plans, and quantity calculations. The roadway improvements included widenings to accommodate turn lanes, intersection improvements with signals, and a portion of new 4-lane roadway with a raised median. Construction completion expected in 2019.		
e.	(1) TITLE AND LOCATION (County) The Shoppes of Gary Farms Traffic Signal Warrant Study (Bowling Green)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Designer who assisted with collection and analysis of traffic counts at the intersection to determine if federal warrants were met for installation of traffic signal. Prepared design of the traffic signal using survey data and utility information provided by the client. Assisted with analysis of impact of signalization on the intersection.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Curtis Underhill	13. ROLE IN THIS CONTRACT Construction Services	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 12

15. FIRM NAME AND LOCATION (City and State)
Barge Design Solutions, Inc. (Memphis, TN)

16. EDUCATION (DEGREE AND SPECIALIZATION) Computer Engineering and Technology and Electrical	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications and Training: OSHA 10-Hour Construction Safety and Health Course; ACI Concrete Field Testing Technician Grade I; TDEC Level I - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites; TDOT Asphalt Concrete Certified Plant Technician; TDOT Asphalt Roadway Certification; TDOT Chapter 8 (Preconstruction and Construction Procedures) of the Local Government Guidelines for the Management of Federal and State Funded Transportation Projects; NICET Level 1, Transportation Engineering Technology Highway Construction

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (County) Brownsville Square Streetscape, Town of Brownsville (Haywood County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2012
	a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead CEI Field Inspector who provided construction inspection of roadway paving and concrete placement operations; excavation and embankment construction; utility, culvert, and drainage structures construction; traffic control setup; and erosion prevention and sediment control. Provided inspection services for conformance to plans and specifications for all roadway, structures, and special items incorporated into the project. Coordinated with contractor, engineer, and local government officials throughout construction. Generated required reports for TDOT.	
	(1) TITLE AND LOCATION (County) Millington Regional Jetport – Runway Crack Seal and Rehab (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2011
	b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Resident Project Representative for project which included asphalt milling, crack sealing, and full depth repairs for runway. Construction was phased to minimize down time for runway. Provided inspection services for conformance to plans and specifications. Coordinated with contractor, engineer, and local government officials throughout construction. Generated required reports for TDOT.	
	(1) TITLE AND LOCATION (County) Airfield Pavement Rehabilitation, Covington Municipal Airport (Tipton County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2018
	c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Resident Project Representative for a project to rehabilitate the agricultural users aircraft parking apron and two connector taxiway (asphalt), and to perform a runway, taxiway, and apron crack seal, seal coat, and marking project. The project provided underdrains for T hangar ramp areas and removal of old pavement and reconstruction utilizing innovative soil cement subgrade techniques for the pavement base per FAA Specifications.	
	(1) TITLE AND LOCATION (County) Memphis Housing Authority Quality of Life Improvement Design (Shelby County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2012
	d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Administration for site and landscaping improvements at four MHA facilities: Barry Tower, Borda Tower, Jefferson Square, and Venson Center. Included review of project submittals and shop drawings for the work included in Barge's design, accompanying contractor on job walk and punch list.	
	(1) TITLE AND LOCATION (County) Savannah Walkway and Crosswalks (Hardin County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)
	e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Inspector and Certified CEI Inspector for this TDOT Enhancement-funded project. Project involved design of crosswalks at three intersections in accordance with TDOT and applicable ADA standards.	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Safar Brifkany	13. ROLE IN THIS CONTRACT Construction Services	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
		19	9
15. FIRM NAME AND LOCATION (City and State) K. S. Ware and Associates, LLC (Nashville, TN)			
16. EDUCATION (DEGREE AND SPECIALIZATION) Civil Engineering/Building and Construction		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications and Training: TDOT Hot Mix Asphalt Roadway Inspector, Nuclear Density Gauge Safety Certification, Work Zone Traffic Control/Flagging, USDOT Hazmat Certification, OSHA 10-Hour Roadway Safety, TDOT Asphalt Plant Inspector, TDOT Soils and Aggregate, TDOT Concrete Plant Inspector (pending), ACI Field Technician-Grade 1, ACI Concrete Strength Testing Tech			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (County) TDOT/Kiewit I-40/65 Fast Fix 8 - Bridge Replacements, CEI Services (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector for repair of 8 bridges, including replacement of all bridge decks. Provided construction inspection of bridge deck replacement or superstructure replacement for the existing bridges that consisted of concrete inspection; asphalt paving; reinforced steel and placement inspection of bolts, embed plates, and anchor rods to be installed; inspection of formwork for shape, location, and dimensions of the concrete.		
b.	(1) TITLE AND LOCATION (County) TDOT SR-1 – Interchange at SR-10 and SR-96, (Rutherford County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector responsible for construction quality assurance testing of soil and concrete associated with a new urban interchange at SR-1 and SR-96 in Murfreesboro. Provided on-site testing for soils, concrete, aggregate, and asphalt, as well as on-site inspections and testing at rock quarries providing aggregate. Provided daily inspections and quantifying items that were installed on the project site. The project consisted of construction to separate the intersections of Broad St. (SR 1) and Memorial Blvd. /Old Fort Parkway (SR 96/SR 10) by creating a single point urban interchange. This separation called for a new bridge on Memorial Blvd. to create an overpass over Broad Street.		
c.	(1) TITLE AND LOCATION (County) TDOT I-440 Widening – From I-65 to I-24 Eastbound (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector responsible for construction quality assurance testing of soils, concrete, and asphalt associated widening of I-440 eastbound in Nashville. Provided on-site testing for soils, concrete, aggregate, and asphalt, as well as on-site inspections and testing at rock quarries providing aggregate. He provided daily inspections and quantifying items that were installed on the project site. The project consisted of widening the eastbound lanes of I-440 from two to three lanes in order to provide enhanced traffic flow from I-65 to I-24.		
d.	(1) TITLE AND LOCATION (County) Davidson County Phase III Intelligent Transportation System Construction Engineering and Inspection (Davidson County)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2011	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector during the construction of sign and Intelligent Transportation Systems (ITS) improvements throughout major roads and interstates in Nashville. He provided on-site contractor inspections including signage and equipment installation inspection and material testing for soils, concrete, aggregate, and signage installation.		
e.	(1) TITLE AND LOCATION (County) TDOT Installation and Repair of Guardrail throughout TDOT Region 3, CEI Services (Various Counties)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector verifying and documenting guardrail installation and repair activities. To minimize the impact on daily traffic and improve safety by reducing the risk of collisions with installation crews, the guardrail installation was typically performed overnight when vehicular traffic was lighter. Responsible for verifying and documenting work zone locations with the contractor's schedule, and inspecting and documenting maintenance of traffic installations delineating work zones.		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

1

21. TITLE AND LOCATION (County)

**Snyder Road Realignment, Sevier County (Region 1)
(PIN 121634.00)**

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2016

CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Sevier County Government

b. POINT OF CONTACT NAME

Larry Waters

c. POINT OF CONTACT TELEPHONE NUMBER

865-453-6136

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Barge recently completed roadway, bridge, and utility final design for the Snyder Road Realignment on behalf of the Sevier County Economic Development Council (SCEDC) and the City of Sevierville (City). The project includes realignment of approximately 0.5 mile of the existing roadway near the I-40 Industrial Park and new water, sanitary sewer, telecom, and gas infrastructure. The project also includes road crossings over Tuckahoe Creek and Gann Branch. Barge designed a clear span bridge over Tuckahoe Creek to replace the existing bridge and an arch culvert over Gann Branch to replace an undersized existing corrugated metal culvert.

These improvements will be to serve OTICS USA, an auto parts manufacturer, which is the first industry to locate at the Interstate 40 Industrial Park. Once Sevier County began discussions with OTICS USA regarding the possibility of locating their operations within the county, our team worked very hard to accommodate the specific infrastructure needs of the new manufacturing plant. Particular attention was paid to the requirements for improved site access and the utility infrastructure required to facilitate the desired expansion and to bring the new jobs and investment in the community.

The project presented several challenges, including steep terrain, wetlands and stream permitting, compressed schedule due to aggressive plant startup date, and property acquisition constraints.

The roadway project is funded through TDOT's Local Interstate Connection program and as such, Barge has worked closely with the local TDOT Region 1 office, SCEDC and the City in the execution of design.

Anticipated construction completion is 2019.



Project Relevance

- Roadway on new alignment
- Utility relocation
- Bridge replacement
- Drainage concerns
- Erosion control

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Barge Design Solutions, Inc.	Nashville, Tennessee	Structural Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Barge Design Solutions, Inc.	Knoxville, Tennessee	Project Management, Survey, Civil Engineering
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Barge Design Solutions, Inc.	Miamisburg, Ohio	Structural Design, Civil Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

2

21. TITLE AND LOCATION (County)

**Liberty Street Multimodal Project, City of Knoxville (Region 1)
(PIN 122977.00)**

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2017

CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
City of Knoxville

b. POINT OF CONTACT NAME
Jon Livengood

c. POINT OF CONTACT TELEPHONE NUMBER
865-215-6100

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The City of Knoxville has selected Barge to help pursue several bikeway and pedestrian-focused improvements within the Liberty Street and Division Street rights-of-way. Barge developed multiple options for bicycle and pedestrian access in the conceptual phase to assist the City in determining the final proposed improvements to be advanced to final design.

The Liberty Street Multimodal Project provides the opportunity for improved connectivity within Knoxville. The Division Street portion of this project passes the Knox County Juvenile Court, another Barge project site.

Barge will design roadway improvements for bicycle and pedestrian connections on Liberty Street, between Sutherland Avenue and Middlebrook Pike, and along Division Street, between Sutherland Avenue and Liberty Street. These improvements will consist of designing sidewalks, pedestrian crossing, signals, rail road crossings, and bicycle accommodation through striping changes and roadway widening.

Project funded by a Transportation Alternatives Program (TAP) Grant awarded by the Knoxville Regional Transportation Planning Organization (TPO).

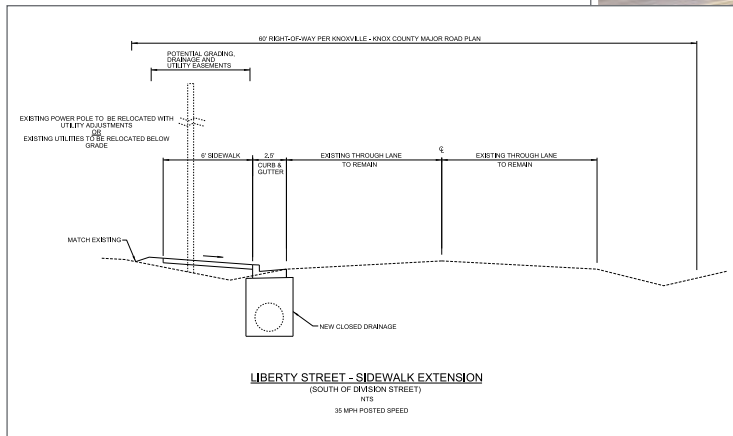
Anticipated construction completion is 2019.

Project Relevance

- Bikeway improvements
- Roadway design
- Pedestrian facilities
- Drainage concerns
- CEI Services



EXISTING CORRIDOR



PROPOSED TYPICAL SECTION

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Barge Design Solutions, Inc.	Knoxville, Tennessee	Project Management, Civil Engineering
b.	Barge Design Solutions, Inc.	Nashville, Tennessee	Environmental Engineering, Civil Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

3

21. TITLE AND LOCATION (County)

Chattanooga Riverwalk Phases I - III, City of Chattanooga/Hamilton County (Region 2) (PIN 113096.00)

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2018

CONSTRUCTION *(If applicable)*

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Hamilton County Government

b. POINT OF CONTACT NAME

Todd Leamon

c. POINT OF CONTACT TELEPHONE NUMBER

423-209-7820

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



Barge completed a master plan in 2010 for a three-mile extension of the iconic Tennessee Riverpark along the Tennessee River in downtown Chattanooga. The project corridor is rich in industrial and cultural history. It traverses both active and brownfield industrial facilities, which provides a unique experience for Riverwalk users. The extension begins near historic Ross's Landing near the Tennessee Aquarium in downtown and winds through existing and abandoned industrial areas to St. Elmo and to Lookout Mountain.



The industrial nature of the corridor required creative design concepts to design a pleasing and safe user experience. In many cases, the trail runs through the industry property with active operations which required careful coordination with the industries and creative design concepts to limit impact on the industry operations while providing a safe and enjoyable experience for the users. A significant section of the trail runs through an abandoned foundry property that was almost 100% paved. The design solution had to create an enjoyable user experience within an expanse of pavement.

Significant effort was expended on negotiations with the railroads for the use of abandoned and sometimes active rail spurs. These efforts included discussion with and assistance from federal agencies who were assisting with the negotiations. Other challenges were assisting the client in negotiations to acquire an abandoned industrial property and obtain a grant from TDEC.

The project includes a 12-foot highly detailed sidewalk which meanders along the Tennessee River through three public trail heads with amenities such as parking, trail shelters, pedestrian lighting, restroom facilities, lush landscape plantings, maintenance facilities, and ranger stations.



The Riverpark passes under the largest river crane on the Tennessee River, for visitors to see the largest hydroelectric turbines in the world loading barges for shipment.

Blue Goose Hollow is a trailhead at the terminus of Martin Luther King Boulevard on the banks of the Tennessee River. The name stems from the cultural history of the site, which was an African American community named Blue Goose Hollow. The trailhead includes interpretive signage, exhibits, and features that relate to the site's cultural heritage.

Each phase of the project was funded by a Transportation Alternatives Program (TAP) grant. Construction completion expected in 2019.

Project Relevance

- Pedestrian trail development
- Maintenance facilities
- Roadway design
- Permit assessments
- CEI Services

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Barge Design Solutions, Inc.	Chattanooga, Tennessee	Project Management, Civil Engineering, Landscape Architecture, CEI
b.	Barge Design Solutions, Inc.	Nashville, Tennessee	Civil Engineering, Quality Assurance/Quality Control
c.	Barge Design Solutions, Inc.	Knoxville, Tennessee	Landscape Architecture

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION (County)

**Niota Safe Routes to School, City of Niota (Region 2)
(PIN 123746.00)**

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2018

CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

City of Niota

b. POINT OF CONTACT NAME

Lois Preece

c. POINT OF CONTACT TELEPHONE NUMBER

423-568-2584

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The City of Niota received Safe Routes to School funding to assist with the reconstruction and improvement of sidewalks along Burn Road beginning at the Wilson Street intersection and ending at the Niota Elementary School. The sidewalk project spans approximately 1,500 feet, and will include the new construction of the 5' wide sidewalks with concrete curbs and roadway drainage improvements since the sidewalk will be constructed where a ditch now exists. The existing pedestrian bridge will be replaced. Crosswalk markings will be placed where the sidewalk crosses both lower driveways on the east end of the school, at the main entrance of the school, and at the intersection of Wilson Street and Burn Road.

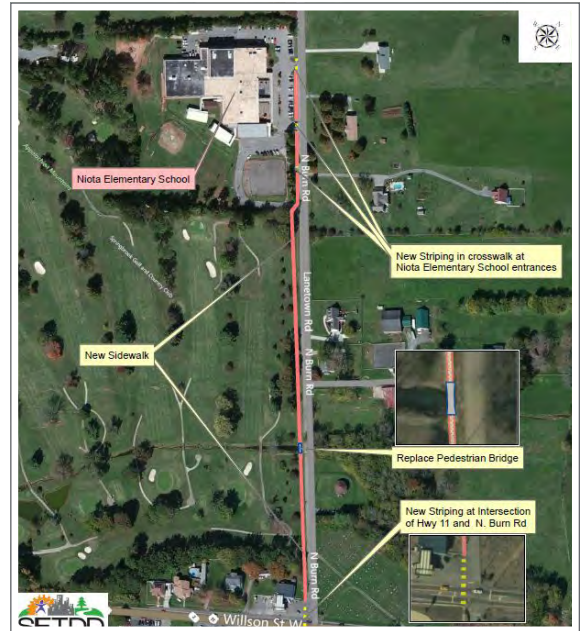
Barge is currently providing design services for this project. Site surveying scope of work includes topographic, establishment of property lines, right-of-way, and easements. Our design services include traffic control, layout, drainage and erosion control plans, and pedestrian bridge design.

Project funded by a Safe Routes to School (SRTS) grant awarded through the Transportation Alternatives section of the TDOT Local Programs office.

Anticipated construction completion is 2019.

Project Relevance

- Sidewalk improvements
- Utility relocation
- Pedestrian bridge replacement
- Drainage concerns
- Intersection improvements
- Right-of-way services



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Barge Design Solutions, Inc.	(2) FIRM LOCATION (City and State) Knoxville, Tennessee	(3) ROLE Project Management, Civil Engineering
b.	(1) FIRM NAME Barge Design Solutions, Inc.	(2) FIRM LOCATION (City and State) Nashville, Tennessee	(3) ROLE Civil Engineering, Quality Assurance/ Quality Control

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

5

21. TITLE AND LOCATION (County) Public Square Enhancements, Town of Livingston (Region 2) (PIN 119887.00)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Town of Livingston	b. POINT OF CONTACT NAME Mayor Curtis Hayes	c. POINT OF CONTACT TELEPHONE NUMBER 931-823-1269
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The historic Courthouse in the downtown square in the Town of Livingston is one of the oldest of its type in the south, being initially constructed before the 1900's. The purpose for the Livingston Public Square Enhancement project includes providing pedestrians safe and ADA accessible access to both public spaces and private businesses in the area in and around the square.

In addition, this project will provide a link from the already bustling town square to the new City Park and Amphitheater, which has already been design and is currently under construction. These enhancements will not only replace existing safety deficiencies related to pedestrian traffic, but it will also support the future and existing land uses thereby positioning the Town of Livingston and Overton County for greater economic development opportunities in the future.

The project included the addition of decorative crosswalks at each of the four corners of the town square to ensure safe pedestrian travel. Additional improvements included the replacement of existing handicap ramps, sidewalks, and curbed areas around the Overton County Courthouse so that all pedestrian facilities would meet current ADA standards. A new sidewalk was placed beginning at the southwest corner (intersection of West Main (S.R. 85) and Spring Street) and extending approximately a block and a half to connect with a new decorative crosswalk. This new crosswalk will connect the downtown square to the new City Park and Amphitheater.

Barge completed the environmental assessment, NEPA document, preliminary plans, right-of-way coordination, construction plans, bid documents, and also provided detailed construction plans and CEI services for the proposed Public Square Enhancements.

Construction for the project was funded by a TDOT Transportation Alternatives Program (TAP) grant.

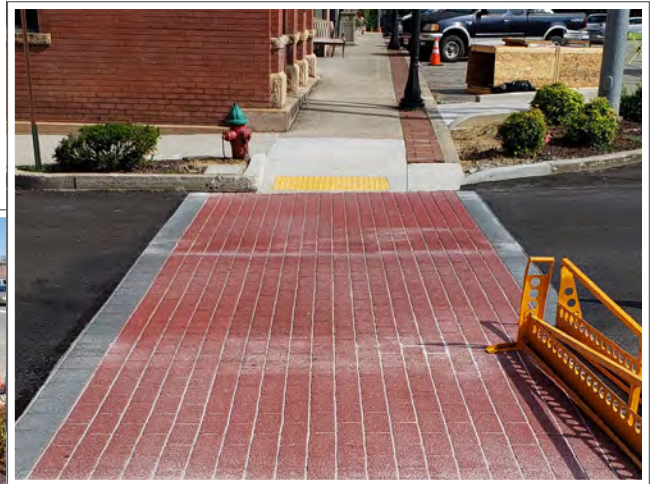
Anticipated construction completion is 2018.

Project Relevance

- Pedestrian transportation alternatives
- Safety and ADA access improvements
- Pedestrian facilities
- Intersection improvements
- Environmental assessment
- NEPA Documentation
- CEI Services



SIDEWALK CONSTRUCTION



STAMPED CONCRETE CROSSWALK

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Barge Design Solutions, Inc.	(2) FIRM LOCATION (City and State) Nashville, Tennessee	(3) ROLE Project Management, Environmental Engineering, Civil Engineering, CEI
b.	(1) FIRM NAME Barge Design Solutions, Inc.	(2) FIRM LOCATION (City and State) Knoxville, Tennessee	(3) ROLE Civil Engineering, Quality Assurance/Quality Control

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">6</p>
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21. TITLE AND LOCATION (County) TN Central Economic Alliance TDOT SIA Roadway, Trousdale County (Region 3) (PIN 120856.00)	22. YEAR COMPLETED <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES</td> <td style="width: 50%;">CONSTRUCTION <i>(If applicable)</i></td> </tr> <tr> <td style="text-align: center;">2016</td> <td style="text-align: center;">2017</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>	2016	2017
PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>					
2016	2017					

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER TN Central Economic Alliance	b. POINT OF CONTACT NAME Charly Lyons	c. POINT OF CONTACT TELEPHONE NUMBER 615-426-2520

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This critical roadway project, jointly funded through the TDOT State Industrial Access program and the TN Central Economic Alliance, provides access to a new auto industry manufacturer and the new Corrections Corporation of America (CCA) campus in Trousdale County. The project included both improvements to existing roadways and roadway on new alignment, about a mile in length. The team also evaluated drainage issues to resolve some areas of concern, and recommended alternatives for roadway ditches, cross-drains, and a potential detention pond.

Barge's role included coordination with TDOT to complete the TEER report, and coordination with many stakeholders including Trousdale County, CCA, ARC Automotive, local and state elected officials, utility companies, and contractors now working on-site. Work included final design and assistance to the client to guide them through the TDOT process. Barge also played a key role in working out funding challenges to help the project move forward.

The CCA campus and ARC Automotive site have brought over \$7 million worth of economic development to Trousdale County. The new industries estimate adding at least 100 additional full-time employees once they are running at capacity, which will positively impact the residents of Trousdale County, as well as nearby Smith County.

The Four Lake SIA project was funded through TDOT's State Industrial Access (SIA) program.



Project Relevance

- Roadway on new alignment
- Utility relocation
- Access control
- Drainage concerns



NEW ROADWAY

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Barge Design Solutions, Inc.	Nashville, Tennessee	Project Management, Civil Engineering, Surveying
b.	Barge Design Solutions, Inc.	Memphis, Tennessee	Traffic Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 7
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21. TITLE AND LOCATION (County) I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville/Davidson County (Region 3) (PIN 123055.00)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Tennessee Department of Transportation	b. POINT OF CONTACT NAME Whitney Britt	c. POINT OF CONTACT TELEPHONE NUMBER 615-253-1387
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

To support economic growth and improved access to southeast Davidson County, improvements are needed at the I-24/Hickory Hollow Parkway Interchange. Some of the goals for the interchange are increased safety, improved routes, alternative access, and providing additional access while maintaining service along the corridor.

Barge was selected to update the existing Interchange Access Request by analyzing the feasibility of several alternatives and defining the improvements that would be necessary to meet current and future regional needs. The work included analyzing the Metropolitan Planning Organization traffic model, studying viable solutions, and generating a revised model of 2040 traffic data. Our transportation engineers developed multiple functional layout designs of the alternatives for accommodating the increased traffic while minimizing off-site improvements that would be required.

Through several community meetings, Barge has assisted in presenting the proposed modifications and addressed questions by property owners in an open forum.

Project was funded through multiple sources consisting of state funding from TDOT, local funding from Metro Nashville/Davidson County, and private funding from developers. Project was managed through the TDOT Local Programs Development Office.

Anticipated construction completion is 2019.



PRELIMINARY INTERCHANGE DESIGN

Project Relevance

- Interchange design
- Traffic studies
- Public involvement
- Access control

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Barge Design Solutions, Inc.	Nashville, Tennessee	Project Management, Civil Engineering, Structural Engineering
b.	Barge Design Solutions, Inc.	Huntsville, Alabama	Traffic Engineering
c.	Barge Design Solutions, Inc.	Memphis, Tennessee	Traffic Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

8

21. TITLE AND LOCATION (County)

ITS & Traffic Signal Coordination, City of Gallatin (Region 3) (PIN 123413.00)

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION *(If applicable)*

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

City of Gallatin

b. POINT OF CONTACT NAME

Nick Tuttle, PE

c. POINT OF CONTACT TELEPHONE NUMBER

615-451-5965

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The City of Gallatin will improve traffic flow for twenty-five (25) signalized intersections located primarily along the Nashville Pike / US-31E / SR-6 Corridor. This corridor is classified as an Urban Principal Arterial based upon TDOT's urban functional classification system prepared by the TDOT Long Range Planning Department.

Improvements to the traffic flow along this corridor and within the Central Business District (CBD) of Gallatin will be achieved by the installation of an Intelligent Transportation System (ITS) Signal System. This ITS Signal System will allow coordinated signals across the City to operate as part of a system, rather than operate independently. This system provides an array of benefits and will improve traffic flow throughout the City.

In order to successfully complete this project, fiber optic extensions will be installed from the City's two (2) existing fiber optic routes. This will connect intersections not currently located along one of the fiber optic routes and will connect fiber back to City Hall. Additionally, signal upgrades will be completed at a selection of the intersections, including the installation of new traffic signal controllers, which will be compatible with the new ITS signal system. Signal upgrades may include the installation of new mast arms, pedestrian infrastructure upgrades, installation of new signal heads or back plates, and re-striping as needed. Railroad coordination will be completed in order to ensure compliance with regulations for the crossing located approximately 650-feet west of the intersection of West Main Street / West Broadway Avenue / US-31E / SR-6 at West Main / Red River Road / SR-174.

Following the design, and construction of the ITS Signal System, coordinated signal timings will be developed and implemented for the entirety of the corridor. Optimized signal timings will result in improved mobility by reducing traffic delay, pollutants emitted while vehicles are idling, and fuel consumption.

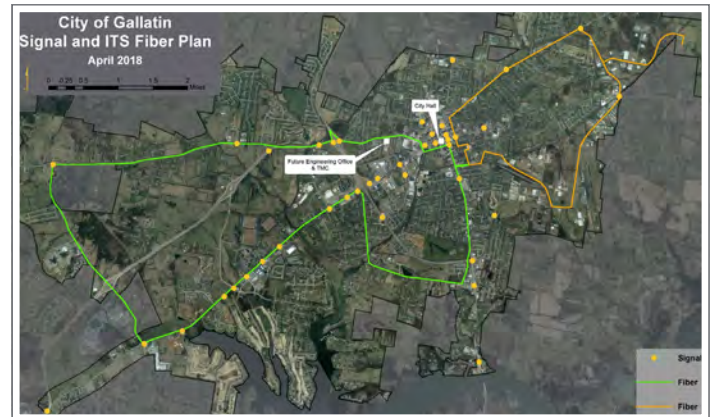
Barge will complete the environmental assessment, NEPA document, preliminary plans, right-of-way coordination, construction plans, bid documents, and also provided detailed construction plans and CEI services.

All phases of the project are funded by a TDOT Congestion Mitigation and Air Quality (CMAQ) grant.

Anticipated professional services completion is 2018; anticipated construction completion is 2019.

Project Relevance

- Interchange design
- Traffic studies
- Public involvement
- Access control
- CEI Services



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Barge Design Solutions, Inc.	Nashville, Tennessee	Project Management, Traffic, ITS, Engineering Design, CEI
b.	Barge Design Solutions, Inc.	Knoxville, Tennessee	Quality Assurance/Quality Control

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

9

21. TITLE AND LOCATION (County)

**STP Paving Group 6, City of Memphis (Region 4)
(PIN 120588.00)**

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION *(If applicable)*

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

City of Memphis

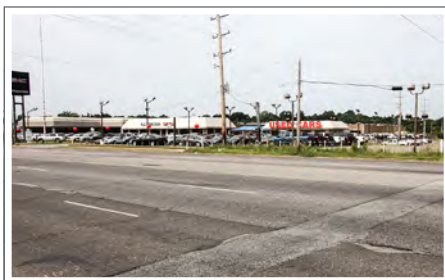
b. POINT OF CONTACT NAME

Cheeyen Chew

c. POINT OF CONTACT TELEPHONE NUMBER

901-576-6936

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



Barge is providing engineering and environmental services related to the design of resurfacing plans for four streets in the City of Memphis. The project is funded by the Surface Transportation Program as a Tennessee Department of Transportation Locally Managed Program. Scope of work includes design services to complete the resurfacing plans for sections of Airways Boulevard, Mendenhall Road, Getwell Road, and Cooper Street, as well as environmental services to secure State and Federal permits.

The effort required by the National Environmental Policy Act (NEPA) includes the preparation of environmental documents in the form of a Categorical Exclusion in accordance with TDOT/FHWA regulations and guidance documents using approved formats. The development of a purpose and need statement, mapping, coordination with USFWS and TN SHPO, hazardous materials study overview, and document preparation are required for approval.

A complete survey and site investigation will be performed to determine if additional improvements may be necessary. The plans will include pavement marking and signage, resurfacing details, sidewalk and curb cut repairs, intersection improvements, and quantity takeoffs. The plans will be developed using TDOT's Preliminary (35%), Right-of-Way (65%), and Construction (95%/100%) completion stage formats. The Engineer's Opinion of Probable Construction Cost will be developed after the preliminary stage is complete. The Proposal Contract (Bid Book) will also be prepared according to TDOT's Local Programs procedures. In addition to engineering design services, public meetings preparation and coordination will be performed.

Project funded by Surface Transportation Program (STP).

Anticipated professional services completion is 2018; construction is ongoing.

Project Relevance

- Resurfacing design
- Site investigation
- Intersection improvements
- Environmental services
- NEPA documentation

EXISTING CONDITIONS IMAGES

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Barge Design Solutions, Inc.	Memphis, Tennessee	Environmental Engineering, Civil Engineering, and Surveying
b.	Barge Design Solutions, Inc.	Nashville, Tennessee	Construction Documents, Quality Assurance/Quality Control

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

10

21. TITLE AND LOCATION (County)

**Fletcher Creek Greenway Phase I, City of Bartlett (Region 4)
(PIN 112841.00)**

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2017

CONSTRUCTION (If applicable)
2018

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

City of Bartlett

b. POINT OF CONTACT NAME

Rick McClanahan

c. POINT OF CONTACT TELEPHONE NUMBER

901-385-6499

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Project Relevance

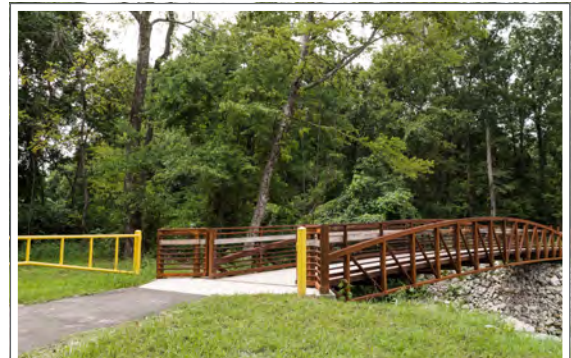
- Bridge replacement
- New pedestrian trails
- Utility relocation
- Drainage concerns
- CEI Services



BEFORE



AFTER



Barge provided planning and design for a new trail with accompanying pedestrian bridges over Fletcher Creek. The 10-foot-wide trail will start at a new trailhead north of Highway 64 just west of Fletcher Creek and will run north-northeast along the Fletcher Creek Greenway to another new trailhead at the northwest corner of Yale and Brother Boulevard. The trail crosses the creek in two locations, requiring two bridges. The bridges were designed to support pedestrian/bike traffic and periodic maintenance vehicle traffic. Both bridges span 90'-0" and were designed for 14"x14" prestressed concrete pile foundations.

Barge performed Construction Engineering Inspection (CEI) services, which included traditional construction administration services such as reviews for submittals, change orders, and RFIs. Barge also provided a full-time on-site representative to monitor the work of the contractor and assist with data collection for the CEI program. This is a TDOT-funded construction contract, so other services were in cooperation with the state and local government guidelines. Quality assurance testing for construction materials was also being provided.

Project funded by Surface Transportation Program. (STP).

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Barge Design Solutions, Inc.	Memphis, Tennessee	Civil Engineering, Landscape Architecture, CEI
b.	Barge Design Solutions, Inc.	Nashville, Tennessee	Construction Documents, CEI

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
John Hunter, PE	Project Director	X	X		X			X			
Andrea Hall, PE	Project Manager	X	X		X						
Michael Tapp, PE	Project Manager	X	X		X	X	X	X			
Russ Brasfield, PE LEED AP	Project Manager									X	X
Daniel Spann, PE, PTOE	Quality Assurance/Quality Control		X	X				X	X	X	X
Jonathan Haycraft, PE ENV SP	Quality Assurance/Quality Control	X		X		X		X			X
Mark Wilson, RLS	Survey		X								
Nick Holden, RLS	Survey			X	X						
Brad Thomas, RLS	Survey					X	X	X			
Ken Francis, RLS	Survey									X	X
Katie McKeel	NEPA/Environmental Services		X	X	X	X		X		X	X
Tom McComb, PG	NEPA/Environmental Services							X			
Brandon Page	NEPA/Environmental Services							X			
Matt Clabaugh, PE, TN-QHP, CPESC	NEPA/Environmental Services										X
Grant Lynch	NEPA/Environmental Services		X								X
Kathryn Withers	NEPA/Environmental Services										
Paul Avery, RPA	NEPA/Environmental Services										
Andrew Bradbury, RPA	NEPA/Environmental Services										
Elizabeth Heavrin	NEPA/Environmental Services										

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Snyder Road Realignment, Sevier County (Region 1)	6	TN Central Economic Alliance TDOT SIA Roadway Trousdale Co (Region 3)
2	Liberty Street Multimodal Project, City of Knoxville (Region 1)	7	I-24 Interchange Modification at Hickory Hollow Parkway, Metro Nashville / Davidson County (Region 3)
3	Chattanooga Riverwalk Phases I-III, City of Chattanooga / Hamilton County (Region 2)	8	ITS and Traffic Signal Coordination, City of Gallatin (Region 3)
4	Niota Safe Routes to School, City of Niota (Region 2)	9	STP Paving Group 6, City of Memphis (Region 4)
5	Public Square Enhancements, Town of Livingston (Region 2)	10	Fletcher Creek Greenway Phase I, City of Bartlett (Region 4)

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Robert Ball, RPA	NEPA/Environmental Services										
Darlene Reiter, PhD, PE	NEPA/Environmental Services										
Julie Oliphant, PE	Geotechnical Engineer										
Molly King, PE	Roadway/Greenway Design	X	X		X		X	X			
Charles Russell, PE, CPESC	Roadway/Greenway Design		X		X			X			
Andrew Geisel, EI	Roadway/Greenway Design		X		X						
Ben Nemec, PE, LEED AP	Roadway/Greenway Design			X							
Tyler Gross, PE	Roadway/Greenway Design										
Andy Highlander, PE	Roadway/Greenway Design			X							
Ann Weis, PE	Roadway/Greenway Design		X			X	X	X			X
Jacob Brooks, PE	Roadway/Greenway Design							X			
Patrick Leap, PE, CPESC	Roadway/Greenway Design			X				X			
Jack Kimbrough, PE	Roadway/Greenway Design						X	X			
Doug Dietz, PE	Roadway/Greenway Design										X
Steve Fritts, PLA, LEED AP BD+C	Landscape Architecture										
Jennifer Salyer, PLA, LEED AP BD+C	Landscape Architecture										
Danielle Norman	Landscape Architecture			X		X					
John Brown, PLA, LEED AP	Landscape Architecture			X		X					
Paul Darr, PLA	Landscape Architecture							X			
Landel Bilbrey, PE	Structures	X						X			

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5	Public Square Enhancements, Town of Livingston (Region 2)	10	Fletcher Creek Greenway Phase I, City of Bartlett (Region 4)

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		1	2	3	4	5	6	7	8	9	10
Michael Davis, PE	Structures							X			
Kevin McAlister, PE, CPESC, LEED AP	Structures	X						X			
Marris Jones	Structures	X						X			X
Gaby Martinez, EI	Structures	X						X			
Amy Moore, PE	Structures	X						X			
Brad Garrison, PE	Structures	X						X			X
Justin Leaders, PE	Structures	X						X			
Mark Washing, PE	Traffic Signalization							X	X		
Jonathan Smith, PE	Traffic Signalization							X	X		
Peter Kauffmann, PE, PTOE	Traffic Signalization							X	X		
Lauren Gaines	Traffic Signalization	X	X	X	X	X	X	X	X	X	X
Bill Hays, PE	Traffic Signalization							X	X		
Tommy Alexy, PE	Traffic Signalization							X			
Donna Roche, SR/WA, R/W-RAC	Right-of-Way										
Raymond Canady	Construction Inspection			X	X	X		X			X
LaCole Webster	Construction Inspection		X	X	X		X	X	X	X	X
Curtis Underhill	Construction Inspection							X			X
Safar Brifkany	Construction Inspection										

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Snyder Road Realignment, Sevier County (Region 1)	6	TN Central Economic Alliance TDOT SIA Roadway Trousdale Co (Region 3)
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5	Public Square Enhancements, Town of Livingston (Region 2)	10	Fletcher Creek Greenway Phase I, City of Bartlett (Region 4)

H. LETTERS

30. PROVIDE A SIGNED STATEMENT FROM EACH SUB-CONSULTANT ON THEIR COMPANY LETTERHEAD CONFIRMING THAT THEY HAVE THE STAFF AVAILABLE AND AGREE TO PROVIDE SERVICES TO THE PRIME CONSULTANT AS INDICATED IN THIS PROPOSAL. ALSO, PROVIDE A COPY OF TDOT'S OVERHEAD APPROVAL LETTER FOR THE FIRM AND FOR EACH SUB-CONSULTANT. PLEASE NOTE THAT APPROVED OVERHEAD RATES ARE VALID FOR ONE YEAR AFTER THE EFFECTIVE DATE SHOWN IN THE APPROVAL LETTER.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
FINANCE OFFICE

SUITE 800, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TN 37243-0348
(615) 741-2261

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

June 7, 2018

Board of Directors
Barge Design Solutions, Inc.

The Tennessee DOT (TDOT) has reviewed the work papers related to the audit performed by LBMC, PC on the Statement of Direct Labor, Fringe Benefits, and General Overhead dated FYE December 29, 2017, and the accompanying Certification of Final Indirect Costs.

For the purposes of estimating, contracting, and billing the Tennessee Department of Transportation we approve the following rates, which already include the FCCM.

	Federally Funded
Home Office	197.40%
Field Office	132.00%

Note: The rate will be capped at 145% for projects that are 100% funded by the State.

The rate should be used for all estimates and billings beginning June 15, 2018.

This approval letter was prepared for, and is intended for the use of TDOT and its subrecipients. This letter will be provided to other governmental entities upon request, in accordance with 23 U.S.C. §112(b)(2)(E).

This report is issued by a public employee in the performance of duties as such pursuant to Tenn. Code Ann. § 62-1-113(a) and GAGAS 3.75.

Sincerely,

Lance Goad
Fiscal Director 2
Tennessee Department of Transportation
Phone 615.253.4275
Lance.Goad@tn.gov

H. LETTERS

30. PROVIDE A SIGNED STATEMENT FROM EACH SUB-CONSULTANT ON THEIR COMPANY LETTERHEAD CONFIRMING THAT THEY HAVE THE STAFF AVAILABLE AND AGREE TO PROVIDE SERVICES TO THE PRIME CONSULTANT AS INDICATED IN THIS PROPOSAL. ALSO, PROVIDE A COPY OF TDOT'S OVERHEAD APPROVAL LETTER FOR THE FIRM AND FOR EACH SUB-CONSULTANT. PLEASE NOTE THAT APPROVED OVERHEAD RATES ARE VALID FOR ONE YEAR AFTER THE EFFECTIVE DATE SHOWN IN THE APPROVAL LETTER.

Bowlby & Associates, Inc.

504 Autumn Springs Court, #11
Franklin, Tennessee 37067-8278
(615) 771-3006, Fax (615) 771-3406
www.bowlbyassociates.com

July 12, 2018

Katie McKeel
NEPA Project Coordinator
Barge Design Solutions
615 3rd Avenue South, Suite 700
Nashville, Tennessee 37210

Subject: Agreement to Provide Necessary Services for Noise & Air Quality Evaluations for
TDOT Local Programs Development Office

Dear Katie,

I hereby certify that Bowlby & Associates has the staff available and agrees to provide the necessary services for Noise & Air Quality evaluations for the subject agreement should Barge Design Solutions be selected.

Pease let me know if you have any questions or need further information.

Sincerely,



Darlene D Reiter, Ph.D., P.E.
President

H. LETTERS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
FINANCE OFFICE
SUITE 800, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TN 37243-0349
(615) 741-2261

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

July 2, 2018

Darlene Reiter, President
Bowlby & Associates, Inc.
504 Autumn Springs Court #11
Franklin, TN 37067

Ms. Reiter:

The Tennessee DOT (TDOT) has audited the Statement of Direct Labor, Fringe Benefits, and General Overhead dated FYE 12/31/2017 presented by the firm and the accompanying Certification of Final Indirect Costs.

The following rates are approved in accordance with AASHTO guidelines for FYE: 12/31/2017

Home Rate 129.05% Field Rate N/A FCCM 0.07%.

For the purposes of estimating, contracting, and billing the Tennessee Department of Transportation we approve the following rates, which already include the FCCM:

	Federally Funded
Home Office	129.12%
Field Office	N/A

Note: The rate will be capped at 145% for projects that are 100% funded by the State.

The rate should be used for all estimates and billings beginning 07/16/2018.

This approval letter was prepared for, and is intended for the use of TDOT and its subrecipients. This letter will be provided to other governmental entities upon request, in accordance with 23 U.S.C. §112(b)(2)(E).

This report is issued by a public employee in the performance of duties as such pursuant to Tenn. Code Ann. § 62-1-113(a) and GAGAS 3.75.

Sincerely,

Carla Spann
Carla Spann
Fiscal Director 1
External Audit
(615) 253-1040
Carla.Spann@tn.gov

H. LETTERS

30. PROVIDE A SIGNED STATEMENT FROM EACH SUB-CONSULTANT ON THEIR COMPANY LETTERHEAD CONFIRMING THAT THEY HAVE THE STAFF AVAILABLE AND AGREE TO PROVIDE SERVICES TO THE PRIME CONSULTANT AS INDICATED IN THIS PROPOSAL. ALSO, PROVIDE A COPY OF TDOT'S OVERHEAD APPROVAL LETTER FOR THE FIRM AND FOR EACH SUB-CONSULTANT. PLEASE NOTE THAT APPROVED OVERHEAD RATES ARE VALID FOR ONE YEAR AFTER THE EFFECTIVE DATE SHOWN IN THE APPROVAL LETTER.



July 9, 2017

John Hunter
John.hunter@bargedesign.com
865-934-4171
Barge Design Solutions

RE: TDOT Local Programs Request for Proposal

Dear Mr. Hunter,

The purpose of this letter is to state Cultural Resource Analysts' agreement to pursue a teaming arrangement in response to the TDOT Local Programs Request for Proposal. We are pleased to join with Barge Design Solutions in this endeavor.

If you have any questions please don't hesitate to contact me.

Tennessee Office
119 W. Summit Hill Drive
2nd Floor
Knoxville, TN 37902
office 865.249.6035
fax 865.249.6036
www.crai-ky.com

Sincerely,

Travis W. Hurdle
Director of Operations – Tennessee
twhurdle@crai-ky.com
865-304-9141

H. LETTERS

30. PROVIDE A SIGNED STATEMENT FROM EACH SUB-CONSULTANT ON THEIR COMPANY LETTERHEAD CONFIRMING THAT THEY HAVE THE STAFF AVAILABLE AND AGREE TO PROVIDE SERVICES TO THE PRIME CONSULTANT AS INDICATED IN THIS PROPOSAL. ALSO, PROVIDE A COPY OF TDOT'S OVERHEAD APPROVAL LETTER FOR THE FIRM AND FOR EACH SUB-CONSULTANT. PLEASE NOTE THAT APPROVED OVERHEAD RATES ARE VALID FOR ONE YEAR AFTER THE EFFECTIVE DATE SHOWN IN THE APPROVAL LETTER.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FINANCE DIVISION
SUITE 800 JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TN 37243-0329
(615) 741-2261

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

September 27, 2017

Bridgette A. Robinson
Director of Human Relations
Cultural Resources Analysts, Inc.
151 Walton Avenue
Lexington, KY 40508
barobinson@crai-ky.com

The Tennessee Department of Transportation (TDOT) External Audit Section received your company's Statement of Direct Labor, Fringe Benefits, and General Overhead for the year ended December 31, 2016, which was audited for compliance with the accounting principles prescribed by Federal Acquisition Regulation Part 31. TDOT External Audit reviewed the Independent Auditors Report dated September 26, 2017 prepared by Commonwealth Of Kentucky, Transportation Cabinet and concurs with the report.

We accept the following rates, which include the FCCM rate of 0.19%:

	Federally Funded (1)
Home Office	183.21%
Field Office	N/A

¹ Indirect cost rates are capped at 145% for projects that are 100% funded by the State.

The rate should be used for all estimates, proposals and billings beginning October 11, 2017.

This letter is not a cognizant letter and is solely for the use of TDOT and Cultural Resources Analysts, Inc.

This report is issued by a public employee in the performance of duties as such pursuant to Tenn. Code Ann. § 62-1-113(a) and GAGAS 3.75.

If you have any questions, please feel free to contact me.

Sincerely,

Richard Emerson
External Audit Fiscal Director
Phone: (615) 253-4273
Richard.Emerson@tn.gov

H. LETTERS

30. PROVIDE A SIGNED STATEMENT FROM EACH SUB-CONSULTANT ON THEIR COMPANY LETTERHEAD CONFIRMING THAT THEY HAVE THE STAFF AVAILABLE AND AGREE TO PROVIDE SERVICES TO THE PRIME CONSULTANT AS INDICATED IN THIS PROPOSAL. ALSO, PROVIDE A COPY OF TDOT'S OVERHEAD APPROVAL LETTER FOR THE FIRM AND FOR EACH SUB-CONSULTANT. PLEASE NOTE THAT APPROVED OVERHEAD RATES ARE VALID FOR ONE YEAR AFTER THE EFFECTIVE DATE SHOWN IN THE APPROVAL LETTER.



54 Lindsley Avenue
Nashville, Tennessee 37210
Phone: 615-255-9702

July 5, 2018

Ms. Whitney Britt
Tennessee Department of Transportation
Program Development and Administration Division
Local Programs Development Office
James K. Polk Building, Suite 600
505 Deaderick Street
Nashville, Tennessee 37243

**Subject: Letter of Confirmation of Available Staff
April 27, 2018 Advertisement
On-call contract to perform transportation engineering services on various small
projects for the Local Programs Development Office, as needed.**

Dear Ms. Britt:

Please accept this letter as confirmation that K.S. Ware and Associates, LLC has qualified staff available and do hereby agree to provide the necessary professional services associated with the services as listed in the prime consultant's Form DT-0330 Part 2 for the referenced project.

Thank you for the opportunity to provide our services. If you need additional information please contact us at (615) 255-9702.

Sincerely,

K. S. Ware and Associates, LLC

A handwritten signature in blue ink that reads "Gregory W. Brubaker". The signature is fluid and cursive.

Gregory W. Brubaker, PE
Principal

H. LETTERS

30. PROVIDE A SIGNED STATEMENT FROM EACH SUB-CONSULTANT ON THEIR COMPANY LETTERHEAD CONFIRMING THAT THEY HAVE THE STAFF AVAILABLE AND AGREE TO PROVIDE SERVICES TO THE PRIME CONSULTANT AS INDICATED IN THIS PROPOSAL. ALSO, PROVIDE A COPY OF TDOT'S OVERHEAD APPROVAL LETTER FOR THE FIRM AND FOR EACH SUB-CONSULTANT. PLEASE NOTE THAT APPROVED OVERHEAD RATES ARE VALID FOR ONE YEAR AFTER THE EFFECTIVE DATE SHOWN IN THE APPROVAL LETTER.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
FINANCE OFFICE
SUITE 800, JAMES K. POLK BUILDING
606 DEADERICK STREET
NASHVILLE, TN 37243-0348
(615) 741-2261

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

March 12, 2018

Ms. Ware
K.S. Ware & Associates, LLC

Ms. Ware:
The Tennessee DOT (TDOT) has reviewed the Statement of Direct Labor, Fringe Benefits, and General Overhead dated FYE 12/31/2016 presented by the firm and the accompanying Certification of Final Indirect Costs.

The following rates are approved in accordance with AASHTO guidelines for FYE: 12/31/2016

Home Rate 173.53% Field Rate 128.75% FCCM 0.41%

For the purposes of estimating, contracting, and billing the Tennessee Department of Transportation we approve the following rates, which already include the FCCM:

	Federally Funded
Home Office	176.57%
Field Office	134.66%

Note: The rate will be capped at 145% for projects that are 100% funded by the State.

The rate should be used for all estimates and billings beginning March 12, 2018.

This approval letter was prepared for, and is intended for the use of TDOT and its sub recipients. This letter will be provided to other governmental entities upon request, in accordance with 23 U.S.C. §112(b)(2)(E).

This report is issued by a public employee in the performance of duties as such pursuant to Tenn. Code Ann. § 62-1-113(a) and GAGAS 3.75.

Sincerely,

Lance Goad
Fiscal Director 2
Tennessee Department of Transportation
Phone 615.253.4275
lance.goad@tn.gov

H. LETTERS

30. PROVIDE A SIGNED STATEMENT FROM EACH SUB-CONSULTANT ON THEIR COMPANY LETTERHEAD CONFIRMING THAT THEY HAVE THE STAFF AVAILABLE AND AGREE TO PROVIDE SERVICES TO THE PRIME CONSULTANT AS INDICATED IN THIS PROPOSAL. ALSO, PROVIDE A COPY OF TDOT'S OVERHEAD APPROVAL LETTER FOR THE FIRM AND FOR EACH SUB-CONSULTANT. PLEASE NOTE THAT APPROVED OVERHEAD RATES ARE VALID FOR ONE YEAR AFTER THE EFFECTIVE DATE SHOWN IN THE APPROVAL LETTER.



July 6, 2018

Jonathan D. Haycraft, PE
Vice President, Director-Roadway & Bridge
615 3rd Avenue South
Nashville, TN 37210

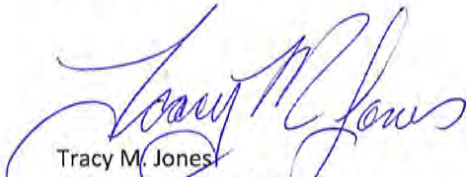
RE: TDOT Local Programs

Dear Mr. Haycraft:

Thank you for reaching out to O.R. Colan Associates to be a part of Barge Design's team for this project. We are agreeable to being members of the Barge team and are excited to work with you on this pursuit.

If you need any additional information, please do not hesitate to contact me at 513-247-0243 ext. 7003 or by email at tjones@orcolan.com.

Respectfully,



Tracy M. Jones
Regional Vice President
O.R. Colan Associates, LLC

H. LETTERS

30. PROVIDE A SIGNED STATEMENT FROM EACH SUB-CONSULTANT ON THEIR COMPANY LETTERHEAD CONFIRMING THAT THEY HAVE THE STAFF AVAILABLE AND AGREE TO PROVIDE SERVICES TO THE PRIME CONSULTANT AS INDICATED IN THIS PROPOSAL. ALSO, PROVIDE A COPY OF TDOT'S OVERHEAD APPROVAL LETTER FOR THE FIRM AND FOR EACH SUB-CONSULTANT. PLEASE NOTE THAT APPROVED OVERHEAD RATES ARE VALID FOR ONE YEAR AFTER THE EFFECTIVE DATE SHOWN IN THE APPROVAL LETTER.



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

May 11, 2018

Ms. Carmen Johnson
VP of Finance and Administration
O.R. Colan Associates
7005 Shannon Willow Road, Suite 100
Charlotte NC 28226

Dear Ms. Johnson:

We have performed a cognizant review of the audit, and supporting workpapers, of O.R. Colan Associates Statement of the Direct Labor, Fringe Benefits, and General Overhead for the year ended December 31, 2017 in accordance with our role as Cognizant Agency as defined in 23 U.S.C. §112 (b) (2)(c) and 23 C.F.R §172.3 and 172.7. The audit was performed by the independent CPA Thomas W. Maxwell, CPA. The CPA represented that the audit was conducted in accordance with Government Auditing Standards as promulgated by the Comptroller General of the United States of America, and the audit was designed to determine that the Indirect Cost Rate was established in accordance with the Cost Principles contained in the Federal Acquisition Regulation, 48 CFR Part 31. Our cognizant review was performed in accordance with the AASHTO Review Program for CPA Audits of Consulting Engineers' Indirect Cost Rates.

In connection with our cognizant review, nothing came to our attention that caused us to believe that the examination and supporting workpapers for the Indirect Cost Rate and the related Auditor's Report did not conform in all material respects to the aforementioned regulations and auditing standards.

We recommend acceptance of the following rates:

Home Office:	195.74%
Facilities Capital Cost of Money (Home):	0.03%

Sincerely,

Lonnetta Raynor, Manager
Consultant, Utility, Rail and Turnpike

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
OFFICE OF INSPECTOR GENERAL – C.U.R.T
1507 MAIL SERVICE CENTER
RALEIGH, NC 27699-1507

Telephone: (919) 707-4581
Fax: (919) 715-2710
Customer Service: 1-877-368-4968

Location:
1 SOUTH WILMINGTON STREET
RALEIGH, NC 27601

Website: www.ncdot.gov

I. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

A. WHAT STANDS OUT ABOUT YOUR FIRM (AND PARTNERING SUB-CONSULTANTS) THAT MAKES YOUR TEAM UNIQUELY QUALIFIED FOR THIS ON-CALL CONTRACT?



Magnolia Avenue Concept Drawing



Bridge Repair Field Inspection



Waterfront Park Ribbon Cutting

BARGE QUALIFICATIONS

Barge Design Solutions, Inc (Barge) has a well-known history of providing surface transportation services ranging from the design of bridges, roadways, and other pedestrian facilities to the traffic and safety analysis of urban corridors and complex interchanges. A key to our success has been our commitment to provide superior design services to our clients whilst simultaneously meeting various state and federal requirements, managing budgets and time constraints, and maintaining constant contact with the various clients and stakeholders invested in the project.

Barge believes in being able to facilitate solutions to our client's project needs. In an effort to best aid clients, Barge employs a range of full-time professional engineers providing services in fields, including but not limited to:

- Roadway design
- Structural (bridge, retaining wall, and culverts) design
- Traffic (analysis, signal, and Intelligent Transportation System) design
- Erosion Prevention and Sediment Control (EPSC)
- Hydraulic/Scour evaluations and countermeasure design
- City Master Planning
- Construction Engineering Inspection (CEI)

Our Barge team has performed design and CEI services for multiple state departments of transportation (DOTs) and municipalities in the eastern and southern United States covering a wide-spectrum of project types, including on-call contracts for roadway design, bridge repair, and surveying on rural, suburban, and urban sites in Tennessee. In the last five years alone, Barge's five Tennessee offices have been involved in over 20 TDOT Local Programs projects across the state that are either complete or currently active. These projects include a combination of major municipalities, such as Knoxville, Chattanooga, Nashville, and Memphis; and to smaller cities, such as Niota, Gallatin, and Millington.

With each new project, Barge employees have encountered unique challenges whether they be EPSC constraints, complex traffic control, or railroad coordination, and have gained invaluable project expertise which is then used to provide more informed design options (or solutions) to our clients.

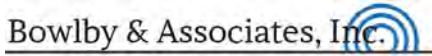
Barge's staff includes accredited environmental experts, experienced surveyors and technicians, licensed engineers, certified construction inspectors, and a myriad of other personnel with extensive training and experience to provide technical and management experience to our design and construction efforts. All employees at Barge are challenged to find ideal solutions all while striving to reduce project costs and meet schedules. Our team is committed to respond quickly and efficiently to any challenges this contract might present. In addition, Barge staff includes a number of individuals were employed in various TDOT departments (Design, Environmental, Local Programs, Project Management, and Right-of-Way), and these staff members provide invaluable insight to the state and local design, review, and inspection process.

SUBCONSULTANT EXPERIENCE

Barge is distinctively qualified to complete all of the tasks noted for on this on-call and within the possible scope of work for these projects. However, in an effort to provide the most robust team for any potential project TDOT or a municipality may require, we have teamed with four firms to provide additional specialized support to Barge's team in various fields when necessary. In addition to these firms, Barge has relationships with a number of other specialty firms that could be utilized for a specific project. If a particular project would benefit from a specialty subconsultant not identified here, Barge would work with TDOT to add the firm for the project.

I. ADDITIONAL INFORMATION

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BOWLBY & ASSOCIATES, INC. offers expert assistance in transportation and community noise analysis and mitigation, and transportation air quality assessment. In addition, they maintain the TDOT On-Call Contract for analysis of Noise and Air Quality studies for the state.



CULTURAL RESOURCE ANALYSTS, INC. (CRA) provides a full range of cultural resource and historic preservation services. CRA specializes in both historic structures and archaeology and holds the TDOT On-Call for Cultural Resources.



K. S. WARE & ASSOCIATES, LLC. is a female owned small business engineering firm providing geotechnical services, construction engineering and inspection (CEI/CMT), special inspections, water resources, environmental and hazardous materials consulting. K.S. Ware has offices in Nashville, Chattanooga, and Knoxville, and their staff includes both professional and technical personnel with numerous years of experience.



O. R. COLAN GROUP, LLC. is recognized nationally as a premier company in the field of real estate/right-of-way acquisition and related services for projects implemented under the provisions of the Uniform Relocation and Real Property Acquisition Policies Act of 1970.

In addition to the four consulting firms that Barge has agreements with for this proposal, Barge also has relationships with other various consultants and subconsultants across the state who are all readily available to team on projects if specific design concerns or procurement procedures require additional consultants.

B. DESCRIBE YOUR EXPERIENCE IN THE CATEGORIES FROM APRIL 27, 2018 ADVERTISEMENT YOUR FIRM IDENTIFIED INTEREST IN. WHY YOUR TEAM WOULD BE EXCEPTIONALLY CAPABLE OF DESIGNING, MANAGING, AND/OR OVERSEEING THESE TYPES OF LOCALLY MANAGED PROJECTS.

BARGE LOCAL PROGRAMS PROJECTS IN LAST FIVE (5) YEARS

From streetscapes to greenway trails, traffic analysis to roadway and bridge design, Barge has completed five local programs projects, in the last five years, for various municipalities across the entire state, and with all different funding types. Barge also has an additional 16 projects that are still active and in various stages of design with the TDOT Local Programs Development Office.

PIN	Project Title	Funding	Reg	City	Type of Work	Status
122325.00	Main Street Kingsport Rebuild	STBG	1	Kingsport	NEPA, Streetscape, sidewalks, ADA	Right of Way
122977.00	Liberty Street Multimodal Project	TAP Grant	1	Knoxville	NEPA, Bike Lanes, Sidewalks, ADA	Final Design
121634.00	Snyder Road Realignment	LIC	1	Sevier Co	Road realignment, bridge	Under Construction
030608.02	Knox/Blount Greenway – Phase II	STP	1	Knox Co	Greenway, ADA, CEI	Prelim. Design
041633.00	Pigeon Forge Greenway Phase III	STP	1	Pigeon Forge	NEPA, Greenway, ADA, CEI	Completed 2016
123746.00	Niota Safe Routes to School	SRTS Grant	2	Niota	Sidewalks, Pedestrian Signal, ADA	Prelim. Design
121643.00	Riverwalk Phase IV (St. Elmo Riverwalk Extension)	TAP Grant	2	Chattanooga	Multi-use path, Bike/ Ped, ADA, CEI	Final Design

I. ADDITIONAL INFORMATION

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PIN	Project Title	Funding	Reg	City	Type of Work	Status
123118.00	S. Chickamauga Creek Greenway Connector	TAP Grant	2	Chattanooga	Multi-use path, Bike/ Ped, ADA, CEI	Final Design
113906.00	Riverwalk Phases I-III	TAP Grant	2	Chattanooga	Multi-use path, Bike/ Ped, ADA, CEI	Completed 2016
119887.00	Public Square Enhancements	TAP Grant	2	Livingston	NEPA, Sidewalks, ADA, & CEI	Under Construction
120856.00	TN Central Economic Alliance TDOT SIA Roadway	SIA Project	3	Trousdale Co	New Road, Drainage	Completed 2017
123055.00	I-24 Interchange Modification at Hickory Hollow Parkway	STP (Various Other)	3	Nashville/ Davidson Co	Interchange design, signal, drainage, structures, its, lighting	To be Let in August 2018
121454.00	Columbia Avenue (SR-6/US-31) South Widening	STP	3	Franklin	NEPA, Road widening, Sidewalks, ADA	Prelim. Design
125194.00	Park to Camp Blount Connector Project	TAP Grant	3	Fayetteville	NEPA, Greenway, ADA, CEI	NEPA
121730.00	Dickerson Pike Sidewalk Improvements	STBG	3	Nashville	NEPA, Sidewalks, ADA	Prelim. Design
123413.00	ITS & Signal Coordination Project	CMAQ Grant	3	Gallatin	Signal, ITS, ADA	Prelim. Design
112034.01	Stonewall Street Sidewalks	TAP Grant	4	McKenzie	Sidewalks, Pedestrian Signal, ADA	Completed 2016
112841.00	Fletcher Creek Greenway Phase I	STP	4	Bartlett	Greenway, ADA, CEI	Completed in 2017
123308.00	Naval Facility Connector (Astoria Avenue)	STP	4	Millington	NEPA, Road realignment	Construction Bidding
125410.00	Fletcher Creek Greenway Phase II	STBG	4	Bartlett	Greenway, ADA	NEPA
120588.00	STP Paving Group 6	STP	4	Memphis	NEPA, Resurfacing, Pavement Markings	Under Construction

1. PEDESTRIAN AND BICYCLE FACILITIES AND OTHER TRANSPORTATION ALTERNATIVE TYPE PROJECTS

With a diverse staff of geologists, engineers, landscape architects, and construction inspectors, Barge has continuously pursued alternative transportation projects, such as greenways, multi-use paths, pedestrian and bike facilities, and recreational spaces, not only because of the challenges associated with design, but because of the opportunity it provides us to give back to the communities that so many of our employees live in.



Chattanooga Riverwalk Ribbon Cutting



Cycling along the Chattanooga Riverwalk

Barge has been involved in the **Chattanooga Riverwalk Project** from the very inception. From concept drawings to design and construction inspection, we have managed all four phases of this project. Phase I through Phase III of the Chattanooga Riverwalk were all designed simultaneously and included a 12-foot-wide concrete trail which provided City of Chattanooga and Hamilton

I. ADDITIONAL INFORMATION

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County residents with an alternative transportation route for residents of St. Elmo and nearby neighborhoods to the downtown area. Not only does the 3.0-mile path provide an alternate means of transportation, but it connects the history of the corridor to the Riverpark, and provides an opportunity for local public art, and enhanced economic development on and around the corridor. Project challenges included six at-grade railroad crossings, coordination between all of the stakeholders including three separate railroad companies and the river port, building clearance issues, and connecting to three trailheads.

All of the TDOT Local Programs projects containing pedestrian and bicycle facilities and other transportation alternatives type projects that Barge has completed in the last five years and the staff associated with those projects can be seen in the table below:

		Region 1				Region 2					Region 2				Region 4				
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Knox/Blount Greenway – Phase II	Pigeon Forge Greenway Phase III	Niota Safe Routes to School (2)	Riverwalk Phase IV (St. Elmo Riverwalk)	S. Chickamauga Creek Greenway Connector	Riverwalk Phases I-III (1)	Public Square Enhancements (1)	I-24 Interchange Modification at Hickory Hollow	Columbia Avenue (SR-6/US-31) South Widening	Park to Camp Blount Connector Project (1)	Dickerson Pike Sidewalk Improvements	Gallatin ITS & Signal Coordination Project (3)	Stonewall Street Sidewalks (1)	Fletcher Creek Greenway Phase I	Naval Facility Connector (Astoria Avenue)	Fletcher Creek Greenway Phase II
Manager	J. Hunter	X	X	X		X					X	X							
	A. Hall	X	X	X		X													
	M. Tapp		X			X		X		X	X		X						
	R. Brasfield															X	X	X	X
	D. Spann	X	X	X			X	X	X		X	X			X		X		X
	J. Haycraft	X		X			X	X		X	X	X	X				X		X
Survey	M. Wilson	X	X	X	X														
	N. Holden					X	X	X	X										
	B. Thomas									X	X	X	X						
	K. Francis												X			X	X	X	X
Environmental	K. McKeel	X	X			X		X	X	X	X	X	X		X	X	X	X	
	T. McComb											X							
	B. Page											X							
	M. Claybaugh																X		
	G. Lynch	X	X									X	X				X		
	K. Withers	X																	
	D. Reiter (B)	X	X				X	X	X	X	X	X		X			X	X	X
Roadway	M. King	X	X	X	X	X		X	X	X	X	X							
	C. Russell	X	X			X					X								
	A. Geisel	X	X	X		X													
	B. Nemec						X	X	X										
	A. Highlander						X	X											
	A. Weis	X	X	X						X	X		X				X	X	
	J. Brooks										X							X	
	P. Leap						X				X	X	X	X					
	J. Kimbrough										X	X	X						
	D. Dietz															X	X	X	X

I. ADDITIONAL INFORMATION

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		Region 1				Region 2					Region 2				Region 4				
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Knox/Blount Greenway – Phase II	Pigeon Forge Greenway Phase III	Niota Safe Routes to School (2)	Riverwalk Phase IV (St. Elmo Riverwalk)	S. Chickamauga Creek Greenway Connector	Riverwalk Phases I-III (1)	Public Square Enhancements (1)	I-24 Interchange Modification at Hickory Hollow	Columbia Avenue (SR-6/US-31) South Widening	Park to Camp Blount Connector Project (1)	Dickerson Pike Sidewalk Improvements	Gallatin ITS & Signal Coordination Project (3)	Stonewall Street Sidewalks (1)	Fletcher Creek Greenway Phase I	Naval Facility Connector (Astoria Avenue)	Fletcher Creek Greenway Phase II
Landscape	J. Salyer	x																	
	D. Norman	x																	
	J. Brown						x	x											
	P. Darr							x		x									
Structures	L. Bilbrey									x									
	M. Davis									x		x							
	K. McAlister									x		x							
	M. Jones									x		x				x			
	G. Martinez									x		x							
	A. Moore									x									
	B. Garrison									x						x			
	J. Leaders									x		x							
Traffic	M. Washing									x				x					
	J. Smith									x	x			x					
	P. Kauffmann	x								x	x		x	x					
	L. Gaines	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	
	B. Hays									x	x			x					
	T. Alexy	x								x	x							x	
CEI	R. Canady					x	x	x	x			x		x		x			
	C. Underhill														x	x			x
	L. Webster	x	x	x		x	x		x	x	x	x	x	x		x	x		
	S. Brifkany (K)												x						

(1) Transportation Alternatives Program (TAP) Grant

(2) Safe Routes to School (SRTS) Grant

(3) Congestion Mitigation & Air Quality (CMAQ) Grant

I. ADDITIONAL INFORMATION

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2. RESURFACING

A standard project for every municipality is a resurfacing or repaving project for local streets due to wear-and-tear of vehicular traffic. In the fall of 2014, Barge was selected for the **STP Group 6 Resurfacing Project** for the City of Memphis, Tennessee. The routes in questions included Airways Boulevard, Mendenhall Road, Getwell Road, and Cooper Street. Barge was contracted to prepare an environmental document, conduct a survey, hold public meetings, complete design plans, compile the bid documentation, and any additional tasks that may arise throughout the design phase of the project. Project challenges included public involvement as well as utility coordination efforts.

All of the TDOT Local Programs projects containing resurfacing projects that Barge has completed in the last five (5) years and the staff associated with those projects can be seen in the table below:

		Region 1			Region 2	Region 3		Region 4
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Snyder Road Realignment (2)	Public Square Enhancements (1)	TN Central Economic Alliance TDOT SIA Roadway (3)	Columbia Avenue (SR-6/US-31) South Widening	STP Paving Group 6
Manager	J. Hunter	x	x	x			x	
	A. Hall	x	x	x				
	M. Tapp		x	x	x	x	x	
	R. Brasfield							x
	D. Spann	x	x				x	x
	J. Haycraft	x		x	x		x	
Survey	M. Wilson	x	x					
	B. Thomas				x	x	x	
	K. Francis							x
Environmentl	K. McKeel	x	x		x		x	x
	T. McComb						x	
	B. Page						x	
	G. Lynch	x	x				x	
	K. Withers	x						
	D. Reiter (B)	x	x		x		x	x
Roadway/Greenway	M. King	x	x	x		x	x	
	C. Russell	x	x					
	A. Geisel	x	x					
	A. Weis	x	x		x	x	x	
	P. Leap						x	
	J. Kimbrough					x	x	
Land.	J. Salyer	x						
	D. Norman	x						

I. ADDITIONAL INFORMATION

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		Region 1			Region 2	Region 3		Region 4
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Snyder Road Realignment (2)	Public Square Enhancements (1)	TN Central Economic Alliance TDOT SIA Roadway (3)	Columbia Avenue (SR-6/US-31) South Widening	STP Paving Group 6
Structures	L. Bilbrey			X				
	K. McAlister			X				
	M. Jones			X				
	G. Martinez			X				
	A. Moore			X				
	B. Garrison			X				
	J. Leaders			X				
Traffic	J. Smith						X	
	P. Kauffmann	X					X	
	L. Gaines	X	X	X	X	X	X	X
	B. Hays						X	
	T. Alexy	X					X	
CEI	R. Canady				X			
	L. Webster	X	X		X	X	X	X

(1) Transportation Alternatives Program (TAP) Grant

(2) Local Interstate Connector (LIC)

(3) State Industrial Access (SIA)

3. SIGNALIZATION AND INTELLIGENT TRANSPORTATION SYSTEMS TYPE PROJECTS

Barge as a firm is getting started in the signalization and Intelligent Transportation System (ITS) field. However, many of our employees have years of experience in signalization and ITS.

Mark Washing, PE has over thirty (30) years of experience in traffic engineering ITS system planning and design, traffic signal system design, and roadway and site lighting design. He has served as project engineer for all phases of the Nashville and Memphis TDOT Smartway ITS system design and has worked on many ITS projects throughout the Southeast. His signal experience ranges from single intersection traffic signal designs and traffic signal system designs to implementation of traffic signal timing plans.

All of the TDOT Local Programs projects containing signalization and ITS projects that Barge has completed in the five (5) years and the staff associated with those projects can be seen in the following table:

I. ADDITIONAL INFORMATION

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		Region 1		Region 2	Region 3				
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Niota Safe Routes to School (2)	I-24 Interchange Modification at Hickory Hollow Pkwy	Columbia Avenue (SR-6/US-31) South Widening	Park to Camp Blount Connector Project (1)	Dickerson Pike Sidewalk Improvements	Gallatin ITS & Signal Coordination Project (3)
Manager	J. Hunter	X	X	X	X	X			
	A. Hall	X	X	X					
	M. Tapp		X	X	X	X		X	
	D. Spann	X	X		X	X			X
	J. Haycraft	X			X	X	X	X	
Survey	M. Wilson	X	X						
	N. Holden			X					
	B. Thomas				X	X	X	X	
	K. Francis							X	
Environmental	K. McKeel	X	X	X	X	X	X	X	
	T. McComb					X			
	B. Page					X			
	G. Lynch	X	X			X	X		
	K. Withers	X							
	D. Reiter (B)	X	X		X	X		X	
Roadway/Greenway	M. King	X	X	X	X	X			
	C. Russell	X	X	X	X				
	A. Geisel	X	X	X					
	A. Weis	X	X		X	X		X	
	J. Brooks				X				
	P. Leap				X	X	X	X	
	J. Kimbrough				X	X	X		
Land.	J. Salyer	X							
	D. Norman	X							
Structures	L. Bilbrey				X				
	M. Davis				X		X		
	K. McAlister				X		X		
	M. Jones				X		X		
	G. Martinez				X		X		
	A. Moore				X				
	B. Garrison				X				
	J. Leaders				X		X		

I. ADDITIONAL INFORMATION

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		Region 1		Region 2	Region 3				
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Niota Safe Routes to School (2)	I-24 Interchange Modification at Hickory Hollow Pkwy	Columbia Avenue (SR-6/US-31) South Widening	Park to Camp Blount Connector Project (1)	Dickerson Pike Sidewalk Improvements	Gallatin ITS & Signal Coordination Project (3)
Traffic	M. Washing				X				X
	J. Smith				X	X			X
	P. Kauffmann	X			X	X		X	X
	L. Gaines	X	X	X	X	X	X	X	X
	B. Hays				X	X			X
	T. Alexy	X			X	X			
CEI	R. Canady			X			X		X
	L. Webster	X	X	X	X	X	X	X	X
	S. Brifkany (K)							X	

(1) Transportation Alternatives Program (TAP) Grant

(2) Safe Routes to School (SRTS) Grant

(3) Congestion Mitigation & Air Quality (CMAQ) Grant

I. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

4. BRIDGE REPAIR OR REPLACEMENT

Barge has an illustrious history in the fields of Bridge design and inspection and has helped the TDOT Bridge Inspection On-Call for more than 20 years in various regions across the state. Barge staff has a vast amount of experience in these fields.

Landel Bilbrey, PE has over 30 years of experience in bridge projects including bridge repair and design of new structures. His most recent large project for TDOT was the I-240 CM/GC project, or the “MemFix4” as it is also known, where he supervised the Barge design team’s efforts on the westbound Poplar Avenue bridge. Landel also designed the first Accelerated Bridge Construction project in Nashville at two bridges along Interstate 24 over Main Street and Woodland Street.

Kevin McAlister, PE has over has over 17 years of experience specializing in bridge design, working for numerous private agencies, municipalities, and state agencies, including TDOT. He has served as a design engineering specialist with TDOT, which gives him a unique perspective on state standards and procedures. In addition, he has new bridge planning and structural bridge design experience, and is skilled at managing the coordination of project stakeholders.

All of the TDOT Local Programs projects containing bridge repair and replacement projects that Barge has completed in the last five (5) years and the staff associated with those projects can be seen in the table below:

		Region 1	Region 2	Region 3		Region 4
		Snyder Road Realignment (1)	S. Chickamauga Creek Greenway Connector	I-24 Interchange Modification at Hickory Hollow Pkwy	Park to Camp Blount Connector Project (2)	Fletcher Creek Greenway Phase I
Manager	J. Hunter	x		x		
	A. Hall	x				
	M. Tapp	x	x	x		
	R. Brasfield					x
	D. Spann		x	x		x
	J. Haycraft	x	x	x	x	x
Survey	N. Holden		x			
	B. Thomas			x	x	
	K. Francis					x
Environmental	K. McKeel		x	x	x	x
	M. Claybaugh					x
	G. Lynch				x	x
	D. Reiter (B)		x	x		x
Roadway/Greenway	M. King	x	x	x		
	C. Russell			x		
	B. Nemeč		x			
	A. Highlander		x			
	A. Weis			x		x
	J. Brooks			x		
	P. Leap			x	x	
	J. Kimbrough			x	x	
D. Dietz					x	

I. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

		Region 1	Region 2	Region 3		Region 4
		Snyder Road Realignment (1)	S. Chickamauga Creek Greenway Connector	I-24 Interchange Modification at Hickory Hollow Pkwy	Park to Camp Blount Connector Project (2)	Fletcher Creek Greenway Phase I
Structures	L. Bilbrey	x		x		
	M. Davis			x	x	
	K. McAlister	x		x	x	
	M. Jones	x		x	x	x
	G. Martinez	x		x	x	
	A. Moore	x		x		
	B. Garrison	x		x		x
	J. Leaders	x		x	x	
Traffic	M. Washing			x		
	J. Smith			x		
	P. Kauffmann			x		
	L. Gaines	x	x	x	x	x
	B. Hays			x		
	T. Alexy			x		
CEI	R. Canady		x		x	x
	C. Underhill					x
	L. Webster			x	x	x

(1) Local Interstate Connector (LIC)

(2) Transportation Alternatives Program (TAP) Grant

5. INTERSECTION IMPROVEMENT PROJECTS

Whether sight distance, safety, alignment, or speed concerns, Barge prides itself on performing safety studies on all intersection projects in order to determine any existing deficiencies and propose the safest and most cost-effective solutions.

One such notable project is the **Naval Facility Connector (Astoria Avenue)** in Millington, Tennessee. This project included improvements made to a 0.5-mile section of Astoria Avenue by reconstructing the existing two-lane roadway to improve the existing pavement conditions, redesign and advance the horizontal and vertical alignment, and provide bicycle and pedestrian facilities.

All of the TDOT Local Programs projects containing intersection improvement projects that Barge has completed in the last five (5) years and the staff associated with those projects can be seen in the following table:



Naval Facility Connector (Astoria Avenue) Proposed Alignment

I. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

		Region 1		Region 2				Region 3					Region 4	
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Niota Safe Routes to School (2)	Riverwalk Phase IV (St. Elmo Riverwalk)	Riverwalk Phases I-III (1)	Public Square Enhancements (1)	TN Central Economic Alliance TDOT SIA Roadway (3)	I-24 Interchange Modification at Hickory Hollow Pkwy	Columbia Avenue (SR-6/US-31) South Widening	Park to Camp Blount Connector Project (1)	Dickerson Pike Sidewalk Improvements	Stonewall Street Sidewalks(1)	Naval Facility Connector (Astoria Avenue)
Manager	J. Hunter	X	X	X					X	X				
	A. Hall	X	X	X										
	M. Tapp		X	X			X	X	X	X		X		
	R. Brasfield												X	X
	D. Spann	X	X		X	X			X	X				
	J. Haycraft	X			X		X		X	X	X	X		
Survey	M. Wilson	X	X											
	N. Holden			X	X	X								
	B. Thomas						X	X	X	X	X			
	K. Francis											X	X	X
Environmental	K. McKeel	X	X	X		X	X		X	X	X	X	X	X
	T. McComb									X				
	B. Page									X				
	G. Lynch	X	X							X	X			
	K. Withers	X												
	D. Reiter (B)	X	X		X	X	X		X	X		X		X
Roadway/Greenway	M. King	X	X	X				X	X	X				
	C. Russell	X	X	X					X					
	A. Geisel	X	X	X										
	B. Nemeč				X	X								
	A. Highlander				X									
	A. Weis	X	X				X	X	X	X		X		X
	J. Brooks								X					X
	P. Leap				X				X	X	X	X		
	J. Kimbrough							X	X	X	X			
	D. Dietz												X	X
Landscape	J. Salyer	X												
	D. Norman	X												
	J. Brown				X	X								
	P. Darr								X					

I. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

		Region 1		Region 2				Region 3					Region 4	
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Niota Safe Routes to School (2)	Riverwalk Phase IV (St. Elmo Riverwalk)	Riverwalk Phases I-III (1)	Public Square Enhancements (1)	TN Central Economic Alliance TDOT SIA Roadway (3)	I-24 Interchange Modification at Hickory Hollow Pkwy	Columbia Avenue (SR-6/US-31) South Widening	Park to Camp Blount Connector Project (1)	Dickerson Pike Sidewalk Improvements	Stonewall Street Sidewalks(1)	Naval Facility Connector (Astoria Avenue)
Structures	L. Bilbrey								X					
	M. Davis								X		X			
	K. McAlister								X		X			
	M. Jones								X		X			
	G. Martinez								X		X			
	A. Moore								X					
	B. Garrison								X					
	J. Leaders								X		X			
Traffic	M. Washing								X					
	J. Smith								X	X				
	P. Kauffmann	X							X	X		X		
	L. Gaines	X	X	X		X	X	X	X	X	X	X	X	X
	B. Hays								X	X				
	T. Alexy	X							X	X				X
CEI	R. Canady			X	X	X	X				X			
	C. Underhill												X	
	L. Webster	X	X	X	X		X	X	X	X	X	X		X
	S. Brifkany (K)											X		

(1) Transportation Alternatives Program (TAP) Grant

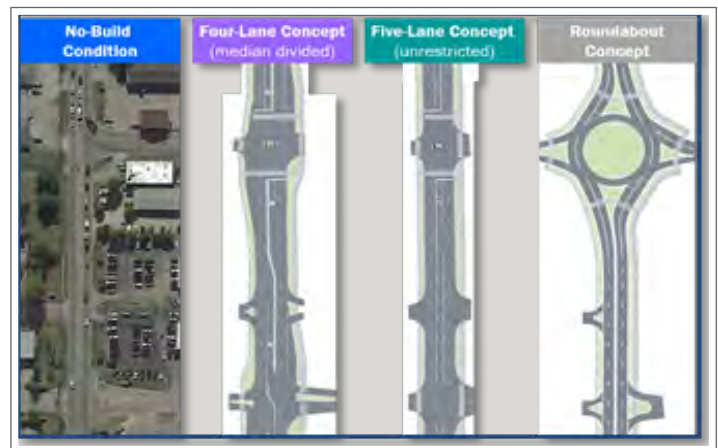
(2) Safe Routes to School (SRTS) Grant

(3) State Industrial Access (SIA)

6. NON-CONSTRUCTION/SERVICE PROJECTS

For any design to be well executed, there are several other steps that must be completed. These items include but are not limited to the following:

- Environmental Documentation (NEPA)
- Ecology Study
- Americans with Disabilities Act (ADA) Transition Plans
- Bridge Inspection and Maintenance Report
- Speed Study
- Traffic Analysis



Columbia Avenue Alternate Design Options

I. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

- Safety Study
- Signal System Inventory
- Signal Retiming Study
- Interchange Access Request (IAR)
- Transportation Investment Report (TIR)

The **Columbia Avenue (SR-6/US-31) South Widening Project** is a prime example of the non-construction/service tasks that Barge is capable of providing for TDOT Local Programs projects. The initial phases of this project have been complete and include a D-List NEPA document with a Hazardous Material study and Archaeological report, a signal timing study, a safety study including a detailed conflict analysis for all proposed alternatives, a traffic study, and a travel time study.

All of the TDOT Local Programs projects containing non-construction/service projects that Barge has completed in the last five (5) years and the staff associated with those projects can be seen in the following table:

		Region 1				Reg. 2	Region 3					Region 4	
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Snyder Road Realignment (2)	Pigeon Forge Greenway Phase III	Public Square Enhancements (1)	I-24 Interchange Modification at Hickory	Columbia Avenue (SR-6/US 31) South Widening	Park to Camp Blount Connector Project	Dickerson Pike Sidewalk Improvements	Gallatin ITS & Signal Coordination Project (3)	Naval Facility Connector (Astoria Avenue)	STP Paving Group 6
Manager	J. Hunter	X	X	X			X	X					
	A. Hall	X	X	X									
	M. Tapp		X	X		X	X		X				
	R. Brasfield											X	X
	D. Spann	X	X				X	X			X		X
	J. Haycraft	X		X		X	X	X	X	X			
Survey	M. Wilson	X	X		X								
	B. Thomas					X	X	X	X	X			
	K. Francis									X	X	X	X
Environmental	K. McKeel	X	X			X	X	X	X	X		X	X
	T. McComb							X					
	B. Page							X					
	G. Lynch	X	X					X	X				
	K. Withers	X											
	D. Reiter (B)	X	X			X	X	X		X		X	X
Roadway/Greenway	M. King	X	X	X	X		X	X					
	C. Russell	X	X				X						
	A. Geisel	X	X										
	A. Weis	X	X			X	X	X		X		X	
	J. Brooks						X					X	
	P. Leap						X	X	X	X			
	J. Kimbrough						X	X	X				
	D. Dietz											X	
Land.	J. Salyer	X											
	D. Norman	X											

I. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

		Region 1				Reg. 2	Region 3					Region 4	
		Main Street Kingsport Rebuild	Liberty Street Multimodal Project (1)	Snyder Road Realignment (2)	Pigeon Forge Greenway Phase III	Public Square Enhancements (1)	I-24 Interchange Modification at Hickory	Columbia Avenue (SR-6/US 31) South Widening	Park to Camp Blount Connector Project	Dickerson Pike Sidewalk Improvements	Gallatin ITS & Signal Coordination Project (3)	Naval Facility Connector (Astoria Avenue)	STP Paving Group 6
Structures	L. Bilbrey			X			X						
	M. Davis						X		X				
	K. McAlister			X			X		X				
	M. Jones			X			X		X				
	G. Martinez			X			X		X				
	A. Moore			X			X						
	B. Garrison			X			X						
	J. Leaders			X			X		X				
Traffic	M. Washing						X				X		
	J. Smith						X	X			X		
	P. Kauffmann	X					X	X		X	X		
	L. Gaines	X	X	X		X	X	X	X	X	X	X	X
	B. Hays						X	X			X		
	T. Alexy	X					X	X				X	
CEI	R. Canady					X			X		X		
	L. Webster	X	X			X	X	X	X	X	X	X	X
	S. Brifkany (K)									X			

(1) Transportation Alternatives Program (TAP) Grant

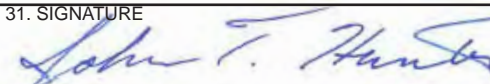
(2) Local Interstate Connector (LIC)

(3) Congestion Mitigation & Air Quality (CMAQ) Grant

J. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

July 18, 2018

33. NAME AND TITLE

John Hunter, PE, Client Service Manager







**TDOT Multimodal Training
Record of Professional Development Hours**

	Begin	End
Registration	9:00	9:30
Class Introduction	9:30	9:40
1. Introduction	9:40	9:55
2. MM design process	9:55	10:25
3. TDOT accessibility guidance	10:25	10:35
Break	10:35	10:50
4. Pedestrian facilities	10:50	11:35
5. Bicycle facilities	11:35	12:00
Lunch	12:00	1:15
6. Shared-use paths	1:15	1:25
7. Transit facilities	1:25	1:35
8. Vehicle facilities	1:35	2:05
9. Additional considerations	2:05	2:15
Summary	2:15	2:25
Break	2:25	2:40
Free discussion	2:40	3:25

Andrea Hall

6/5/18 Reg 1

Attendee Name

Location & Date

Presenters: Jon Storey, PE, PTOE; John Houghton, AICP

PDH: 4 hours

Jonathan Storey, PE, PTOE
Gresham, Smith and Partners

- June 4 (Monday): Higher Ed. Center, Kingsport
- June 5 (Tuesday): TDOT Region 1, Knoxville
- June 8 (Friday): TDOT Region 2, Chattanooga
- June 11 (Monday): TDOT Region 3, Nashville
- June 12 (Tuesday): TDOT Region 3, Nashville
- June 14 (Thursday): TDOT Region 4, Jackson

The hours of technical instruction or presentation reflected on this certificate do not imply or guarantee approval by the State Professional Licensing Board (or any other State). The licensee shall be solely responsible for determining eligibility of this session for satisfaction of his/her continuing professional competency requirements in this or any other state, as well as all recordkeeping requirements therefor.




TDOT ROADWAY DESIGN DIVISION
EROSION PREVENTION AND SEDIMENT CONTROL DESIGN TRAINING


Professional Development Certificate
Six and a Half Professional Development Hours (6.5 PDHs)


This certifies that the person named above attended the training seminar and that the subject matter constitutes the number of professional development hours listed, depending on the state of registration and rules of its board.

TDOT R1, Knoxville, TN
 October 16, 2017

MATT CLABAUGH


 Jeffery T. Hoilman, PE, CPESC


 Erin Woodson, PE, CPESC


 Ali Hangul, PE, CPESC





TENNESSEE DEPARTMENT OF TRANSPORTATION
 PROGRAM DEVELOPMENT DIVISION

This is to certify that

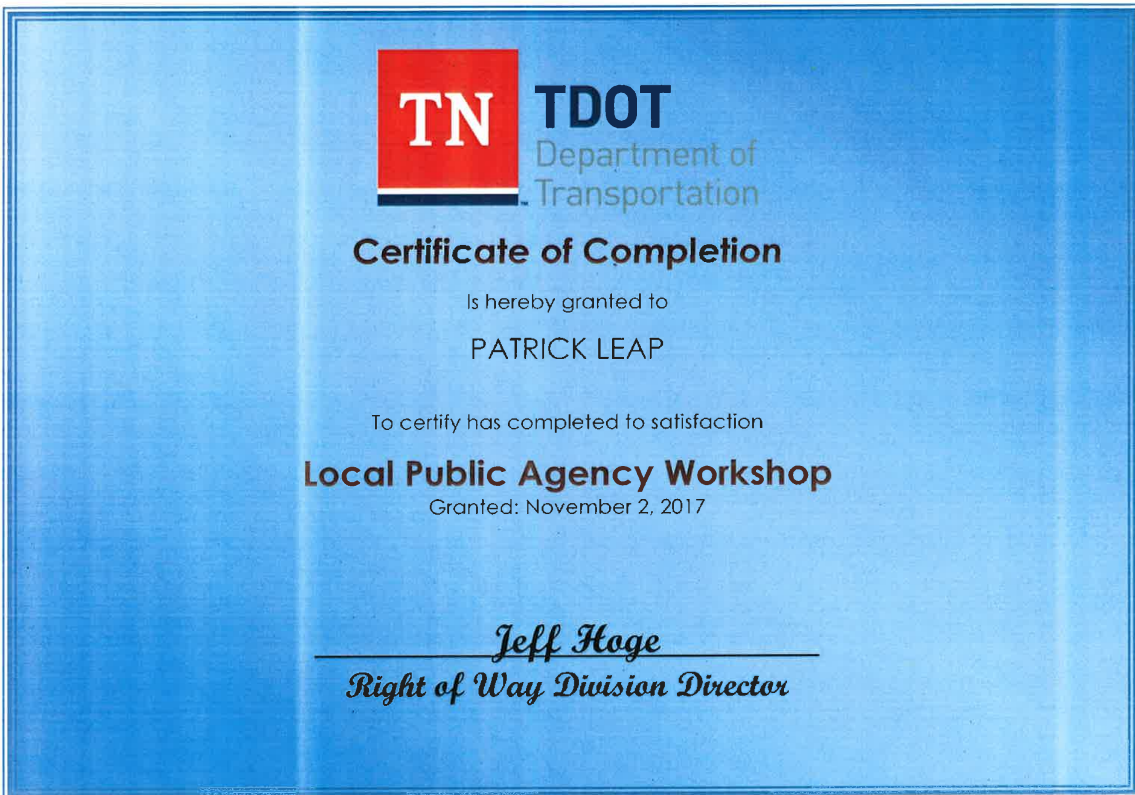
Jacob Brooks

has successfully completed a two-day workshop on
Chapter 8 (Preconstruction and Construction Procedures)
of the Local Government Guidelines for the Management
of Federal and State Funded Transportation Projects
 TDOT Region 3 on May 16-17, 2018


 Whitney Britt
 TDOT Program Development Division


 David Donoho, P.E.
 Presenter, Smith Seckman Reid

For the Tennessee Department of Transportation
 This certificate entitles the recipient to 10 Professional Development Hours







National Highway Institute



Certificate of Training

Marris T. Jones

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by

MR Logistics

Date: February 15 – 26, 2010

Hours of Instruction: 60

Location: Springfield, Illinois

Instructor

Local Coordinator

Instructor

Richard Barnaby, Director
National Highway Institute



TENNESSEE DEPARTMENT OF TRANSPORTATION

PROGRAM DEVELOPMENT DIVISION

This is to certify that

Raymond Canady

**has successfully completed a two-day workshop on
Chapter 8 (Preconstruction and Construction Procedures)
of the Local Government Guidelines for the Management
of Federal and State Funded Transportation Projects
TDOT Region 3 on June 7-8, 2017**

Whitney Sullivan
TDOT Program Development Division

David Donoho, P.E.
Presenter, Smith Seckman Reid

For the Tennessee Department of Transportation
This certificate entitles the recipient to 10 Professional Development Hours



APPENDIX

From: Gale Wagner [mailto:Gale.Wagner@tn.gov]
Sent: Wednesday, May 2, 2018 1:58 PM
To: Tracy Jones <tjones@orcolan.com>
Cc: Stephanie Torres <Stephanie.Torres@tn.gov>; Christine Smotherman <Christine.Smotherman@tn.gov>
Subject: Added Personnel - ROW Prequalification

Tracy,

On **May 2, 2018** the Right of Way Division's Consultant Review Panel met to evaluate the qualifications of additional personnel submitted by **O.R. Colan Associates, LLC**. Based on the data submitted and the information gathered from the supplied references, it is the determination of the Panel that the individuals requested meet the requirements to perform Right of Way acquisition and/or relocation activities for the Tennessee Department of Transportation as indicated below.

Agent	Acquisition	Relocation
Roche, Donna L.	YES	YES
Earls, Joseph M.	YES	YES
Earls, Ronna M.	YES	YES

NOTE: THIS APPROVAL DOES NOT EXTEND YOUR FIRM'S PREQUALIFICATION. PREQUALIFICATION IS GOOD FOR 3 YEARS FROM THE ORIGINAL APPROVAL DATE WITH A 3 MONTH GRACE PERIOD TO ALLOW FOR RENEWAL PROCESSING.



Gale Wagner | Assistant Director
Right of Way Division
Suite 600, James K. Polk Bldg.
505 Deaderick Street, Nashville, TN 37243-0337
(615) 253-1154
gale.wagner@tn.gov
tn.gov/tdot



APPENDIX



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

ROADWAY DESIGN DIVISION
SUITE 1300, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TENNESSEE 37243-1402
(615) 741-2221

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

November 9, 2015

O.R. Colan Group, LLC
Attn: Mr. Steve Toth
312 S. Fourth Street, Suite 700
Louisville, KY 40202

Subject: Evaluation of Consultant Pre-qualification Form

Dear Mr. Toth:

The Department has completed an evaluation of your Consultant Pre-qualification Form DOT-CS-100. You are hereby informed that the individual(s) in the attached document shall be considered as being qualified for the performance of the following services for a three-year period beginning November 6, 2015:

Right-of-way Acquisition/Negotiation Services
Right-of-way Relocation Services

Please be advised that consultants desiring to contract with TDOT must now assume full responsibility for renewing their pre-qualification status via the DOT-CS-100 Form.

Thank you for keeping the information regarding your qualification current with us. Should you have any questions in this regard, please contact this office.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jennifer Lloyd".

Jennifer Lloyd, PE
Civil Engineering Director
Roadway Design Division

Attachment:

JL/CS

cc: Jeff Hoge
Gale Wagner
Chris Smotherman



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY DIVISION
SUITE 600, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TENNESSEE 37243-0337
(615) 741-3196

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

MEMORANDUM

TO: Mr. Ataur Rahman, P.E., Assistant Civil Engineering Director
TDOT Design Division
Suite 1300, James K. Polk Building
505 Deaderick Street
Nashville, TN 37243-1402

FROM: Gale Wagner, Transportation Manager I
Central Right of Way Office

DATE: **November 6, 2015**

SUBJECT: ROW Form DOT-CS-100
O.R. Colan Group, LLC.

Digitally signed by Gale Wagner
DN: cn=Gale Wagner, o=TDOT,
ou=ROW Division,
email=gale.wagner@tn.gov,
c=US
Date: 2015.11.06 13:11:06 -06'00'

The Right of Way Division's Consultant Review Panel has evaluated the qualifications of **O.R. Colan Group, LLC.** Based on the data submitted and information gathered from the supplied references, it is the determination of the Panel that the **O.R. Colan Group, LLC.** meets the minimum requirements to perform Right of Way Acquisition and Relocation activities for the Tennessee Department of Transportation.

The following personnel are approved as noted:

	Acquisition	Relocation
Jones, Tracy	yes	no
Geveden, Ron	yes	yes
Suedkamp, Kale	yes	yes
Gardner, Jayson	yes	no
Durastanti, Anna Lee	yes	yes
Holstein, Marianne	yes	yes

Note #1: Personnel should only do work in the field(s) of expertise for which they have been approved. At any time, a firm may request an agent's status to be upgraded or a new agent added by sending in the proper written request and resume information.

Note #2: Unless otherwise noted, any fulltime agent may be a project manager.

CC: Mr. Jeff Hoge, Director
Mr. Joe Shaw
Mr. Jim Hagan
Mr. Michael Horlacher

APPENDIX

TDOT CEI Training Level 2 Certified 2012-2018

Last	First	Organization	Year Attended	Certification Expires
Brasfield	Russ	Barge	2017	10/31/2022
Brooks	Jacob	Barge	2018	10/31/2023
Canady	Raymond	Barge	2017	10/31/2022
Gurney	Annie	Barge	2018	10/31/2023
Hall	Andrea	Barge	2018	10/31/2023
Hunter	John	Barge	2017	10/31/2019
Madden	Constance	Barge	2017	10/31/2022
Underhill	Curtis	Barge	2017	10/31/2022
Webster	LaCole	Barge	2014	10/31/2019

TDOT website link:

<https://www.tn.gov/tdot/program-development-and-administration-home/local-programs/local-programs-training.html>

BARGE

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NASHVILLE // TENNESSEE // 37210

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