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**TRANSPORTATION—INFRASTRUCTURE**

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**EXPERIENCE**

- 13.5 Year Minority Business Enterprise
- 17 Years Average Staff Experience
- 75 Transportation Projects Completed
- \$140M Average Project Size

**DDOT EXPERIENCE**

- Bridge Construction Inspection Services:
 

11th St. Bridge	Broad Branch Bridge	Michigan Ave. Bridge
16th St. Bridge	Calvert St. Bridge	Monroe Ave. Bridge
35th St. Bridge	Carver Street Bridge	SE/SW Freeway
118th St. Bridge	Chain Bridge	T. Roosevelt Bridge
Anacostia Waterfront Initiative	Kenilworth Ave. Bridge	Whitehurst Freeway
- Nebraska Avenue NE Roadway Reconstruction, Western Avenue Reconstruction/ Resurfacing, Watts Bridge Trail, Brentwood Road NE
- Preventative Maintenance & Emergency Repair On Highway Structures, Federal

**OTHER EXPERIENCE**

- \$1.3B NCDOT Projects
- \$1.4B VDOT Hot Lanes I-95

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**CORE SERVICES**

- CEI Inspections Construction Management, Cost Estimating, Scheduling, QA/QC

**SOFTWARE  
PROFICIENCY**

- AutoCad, Expedition, Microstation, MS Project, Primavera(P6), Prolog, RS Means, Timberline

**STAFFING SKILLS**

- 14 Professionals—Senior Engineering, Technician, Certified VDOT Inspector, Concrete Level 2 Technician, Resident Engineer, Foundation Technician, Safety Inspector/OSHA Foundation Technician, Safety I, Soil & Aggregate Concrete Inspector
- LID (Low Impact Development Certification—In Progress)

**WORKING WITH  
INDUSTRY LEADERS**

- Burns Engineering, CH2M HILL, Hazen and Sawyer, Heery, HNTB, KCI, McKissack & McKissack, Moffatt & Nichol, Mulkey, Parsons, Parsons Brinckerhoff, URS

**DBE CERTIFICATIONS**

- Delaware, District of Columbia, Maryland, North Carolina, Pennsylvania, Virginia
  - Pending — New York, New Jersey
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## CAPABILITIES STATEMENT

### CORE COMPETENCIES

CADD  
Construction Management  
Cost Estimating  
DBE Management  
Information Technology  
Inspections  
Inspection Training  
LEED Consulting  
Planning & Design Support  
Schedule/Claims Analysis

#### NA/CS Codes:

237310	541350
541310	541611
541330	541690
541340	561110

### DBE CERTIFICATIONS

North Carolina UCP  
*Certification #50302*

Pennsylvania UCP  
*Certification #13681*

Maryland UCP  
*Certification #05-244*

Virginia UCP  
*Certification #000892*

Virginia SWaM  
*MS Certification #892*

District of Columbia UCP  
*Certification #05-244*

Metro Washington UCP  
*Certification #1378-W*



*11th Street Bridge Replacement, Washington, D.C. (DDOT Photo)*

BREE & Associates, Inc. (BREE) is a consulting engineering/construction management firm that incorporated in 2000. Since then, BREE has seen tremendous growth and success. Presently, we have a qualified staff of cost estimators, project schedulers, project/construction managers, and inspectors as well as administrative support.

Our team is fully competent in the technology and programs that ensure project efficiency such as MS Office, Primavera(P6), Timberline, MS Prolog, and AutoCAD.

In just over a decade, our project experience has grown to include providing services on multiple large contracts ranging between \$20M—\$2B.

We have the experience, skills, and capacity to fulfill your requirements with excellence. We look forward to being of service to you.

### A PARTIAL LIST OF BREE'S CLIENTS:

- CH2M Hill
- Hazen & Sawyer
- HNTB
- KCI & Associates, Inc.
- McKissack & McKissack
- Moffatt & Nichol
- Mulkey, Inc.
- Parsons
- PB Americas
- URS Corporation

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#### MARKET AREAS WE SERVE:

- NORTH CAROLINA
- WASHINGTON, DC
- VIRGINIA
- PENNSYLVANIA
- MARYLAND
- NEW YORK
- SOUTH CAROLINA
- GEORGIA
- TENNESSEE

## RECENT PROJECTS

### PROJECT LOCATION OWNER CLIENT SERVICES

**RDU Renovation and Expansion Program**  
Raleigh-Durham Airport, North Carolina  
The Raleigh-Durham Airport Authority  
Parsons  
For this \$608M Terminal 1 and 2 Renovation and Expansion Program, BREE is responsible for the following: drawing document control for eleven simultaneous projects; submittal process procedures using Primavera software; writing SOQ and RFP processes; creating logging system for sample library and references; and the production of PowerPoint presentations for the Project Manager.



Photo Credit: Parsons

### PROJECT LOCATION OWNER CLIENT SERVICES

**Triangle Transit Authority**  
Durham, North Carolina  
Triangle Transit Authority  
URS Corporation  
For this \$7.2M project, BREE worked in partnership to provide public involvement support. The public involvement strategies were formed to comply with NEPA public outreach requirements. BREE provided support in coordinating meeting locations, agendas, surveys, FAQ's, and presentations; assisted in developing an easily recognizable brand for the project; and conducted presentations for the African American and Latino communities.



Photo Credit: Triangle Transit Authority

### PROJECT LOCATION OWNER CLIENT SERVICES

**VDOT NOVA GEC Mega Projects Program Management**  
Alexandria, VA  
Virginia Department of Transportation  
CH2M-Hill and ATCS Joint Venture  
BREE provided technical consulting and compliance support to the VDOTGEC Civil Rights team by assisting DBE/SWaMs to position themselves to submit bid packages; to meet the technical and schedule requirements for the project; and to conduct compliance reviews to ensure that federal and state labor regulations were being observed. These were reviews such as certified payroll, Davis Bacon interviews, and EEO policies.



Photo Credit: Virginia DOT

### PROJECT LOCATION OWNER CLIENT SERVICES

**11th Street Bridges Project Support Services**  
Washington, DC  
District of Columbia Department of Transportation  
HNTB Corporation  
This \$390M bridge replacement is DDOT's largest project and the District's first Design-Build-to-Budget procurement approach. On Phase II, BREE provided independent cost estimates and provided DBE monitoring and project close-out services.



Photo Credit: District of Columbia DOT



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## **BY FUNCTIONAL AREA**

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Highways/Bridges, Rail/Transit, Aviation, Facilities, K-12,  
Higher Education, Water/Wastewater



# HIGHWAYS/BRIDGES

## Project Listing



### 11TH STREET BRIDGES REPLACEMENT

This project is DDOT's largest project and the District's first Design-Build-to-Budget procurement approach. The total project is \$300M and Phase II is \$90 M— On Phase II, BREE provided independent cost estimates. On each of the cost estimates and the final adjustment, BREE performed reviews, quantity calculations, research, and a pricing analysis. Finally, BREE provided DBE Field Support and Project Close-Out Services.



Photo Credit: District DOT

This support included field and office assistance advisory services for the Contractor's Disadvantaged Business Enterprise (DBE) subcontractors and assisting HNTB in the project close-out.

**LOCATION** Washington, DC

**OWNER** District of Columbia DOT

**CLIENT** HNTB Corporation

### VDOT HOT LANES I495/I95

This \$1.4B project was for the construction of 14 miles of new HOT lanes (two in each direction) were being built on I-495 between the Springfield Interchange and just north of the Dulles Toll Road. BREE's scope of work for this project was to provide technical consulting and compliance support to the VDOTGEC Team. BREE provided assistance in evaluating design-build plans and quantity take-off. Further, BREE monitored the performance of DBE/SWaMs once on-site in order to assist them in meeting the technical and schedule



Photo Credit: Virginia DOT

requirements of the project. Lastly, BREE conducted compliance reviews to ensure that federal and state labor regulations were being observed throughout the performance of the work, and that records were being properly prepared to document the results. These reviews included but were not limited to certified payroll, Davis Bacon interviews, and EEO policies.

**LOCATION** Alexandria, VA

**OWNER** Virginia Department of Transportation

**CLIENT** ATCS, CH2M Hill Joint Venture

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# HIGHWAYS/BRIDGES

## Project Listing



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### NC TURNPIKE AUTHORITY TRIANGLE EXPRESS U-4763B

This \$738M Design-Build construction project was fast paced and schedule driven. The construction consisted of grading, drainage, paving, structures, guardrail, signing, signals, ITS, and toll technology. BREE provided qualified trained and certified Transportation Technicians II to perform erosion control inspections, ensure permit compliance on a daily basis, prepare daily reports, attend required meetings, and perform technician level contract and construction administrative functions. Further, BREE ensured that erosion plans were implemented and current plans were maintained and updated with appropriate approvals. BREE also ensured the permit compliance by the Design-Build Team— reviewing waste and borrow pits, and other activities as needed to proactively mitigate all erosion and permit issues.



Photo Credit: North Carolina DOT

**LOCATION** Wake County

**OWNER** NC Turnpike Authority

**CLIENT** Mulkey, Inc.

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### PREVENTATIVE MAINTENANCE/EMERGENCY REPAIR ON HIGHWAY STRUCTURES

For this \$14M project, BREE provided project management and construction engineering and inspections services for DDOT. The project scope included developing plans for roadway design which involved several locations for resurfacing, reconstruction, and upgrading (substandard streets with asphalt or no curbs). Further, BREE provided management support and related services for the construction of bridge and roadway projects, inspection and coordination of bridge and/or roadway projects during the construction phase, and overseeing the construction activities to ensure that the quality of materials and workmanship met or exceeded the District's standards. BREE maintained accurate records of field measurements, materials, documentations, and payments to ensure the project was being built according to the plans and specifications. BREE kept the Contracting Officer fully informed of any technical or contractual difficulties encountered during the performance period and advised the Agency Chief Contracting Officer of any potential problem areas under the contract.

**LOCATION** Washington, DC

**OWNER** District of Columbia DOT

**CLIENT** Legion Design, Campbell & Associates Chartered

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# RAIL/TRANSIT

## Project Listing



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### RAIL PROJECT CONTROL SERVICES

This \$888M project consisted of project control services which included providing expertise in the areas of project control administration, capital cost estimation, and risk assessment. The purpose of these particular services for this project was to provide independent reviews of the project work progress and forecasts of the completion costs and dates. This was accomplished through interfacing with the consultant. BREE provided cost control support, the integration of information from the various information systems used by the Authority and its consultants, and assisted in the production of the project control progress/status reports throughout the phases of the project.

**LOCATION** Raleigh-Durham, North Carolina

**OWNER** Triangle Transit Authority

**CLIENT** The PACO Group

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### NCDOT STATEWIDE AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) PROJECTS

BREE provided Project Management Services for four new construction transit administrative facilities and one renovation statewide during preconstruction, construction, and closeout. Services included but were not limited to coordinating and attending project progress meeting, providing construction administration, conducting inspection, monitoring costs and schedule issues, and ensuring ARRA project requirements were in compliance. BREE ensured the building systems were operable and that the sites/buildings met current ADA Compliances. BREE also coordinated Field Orders and Change-Orders to prevent project construction delays. BREE kept the owner accurately informed throughout the project and provided a monthly progress report that included any outstanding or unresolved issues.



Photo Credit: NCDOT

**LOCATION** Avery, Graham, Haywood, Hyde, and Watauga Counties, North Carolina

**OWNER** NC Department of Transportation

**CLIENT** Moffatt & Nichol

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# RAIL/TRANSIT

## Project Listing



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### PROVIDENCIA RAILROAD SIDETRACK

This \$706,000 project consisted of constructing an industrial rail siding to serve Providencia Industries, Inc. in Iredell County, NC. BREE provided field construction observation services that included monitoring the progress of the construction as well as compliance with the contract and assisted in the final inspection punchlist. BREE was also responsible for providing daily reports and a weekly summary of the activities on the site.

**LOCATION** Statesville, North Carolina  
**OWNER** Iredell County, NC/Providencia Industries  
**CLIENT** Moffatt & Nichol

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### TRIANGLE TRANSIT AUTHORITY PROGRAM MANAGEMENT

BREE worked in partnership to provide public involvement support for this Triangle Transit Authority \$7.2 M project. BREE provided outreach, facilitation, and coordination to the clients for the projects regarding land use, transportation, capital improvements programming, and sustainability research. BREE also assisted with the development and implementation of the Public Information Plan that included material and database development, public information, steering, and coordination of stakeholder meetings.

**LOCATION** Raleigh, NC  
**OWNER** Triangle Transit Authority  
**CLIENT** URS Corporation

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### COMPREHENSIVE OPERATIONAL ANALYSIS OF THE DURHAM AREA TRANSPORTATION AUTHORITY

BREE assisted in the \$7.5 million Comprehensive Operational Analysis (COA) of the Durham Area Transportation Authority (DATA) fixed route bus service and identified improvement measures. The participants, dates, and locations for the kickoff, public, and stakeholder meetings and events were identified by BREE. BREE assisted with the logistical arrangements and led the development of a public involvement plan for the project working with DATA/Triangle Transit staff. BREE also facilitated the Sounding Board Meetings and identified and documented the public and stakeholder involvement strategy findings.

**LOCATION** Durham, North Carolina  
**OWNER** City of Durham  
**CLIENT** PB Americas, Inc.

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### RDU RENOVATION AND EXPANSION PROGRAM MANAGEMENT

This \$608 M Terminal 1 and 2 Renovation and Expansion Project at Raleigh Durham Airport consists of assisting the Airport Authority staff with providing program management and agency construction management services. The program consists of four projects: Terminal C Renovation and Expansion, Taxiway D Relocation and Terminal C Apron Expansion, General Aviation Terminal and New Operations Center. BREE is responsible for the submittal process for these projects using Primavera, a project management software program. BREE wrote procedures for the submittal process as well as



*Photo Credit: Parsons*

SOQ and RFP processes. Other responsibilities include the processing of meeting minutes in Primavera, creating Microsoft PowerPoint presentations for PM, handling all the distribution for documents to their respective destinations, and maintaining the reference and sample library with a logging system created by BREE.

**LOCATION** Raleigh-Durham Airport, North Carolina

**OWNER** Raleigh-Durham Airport Authority

**CLIENT** Parsons

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### RDU TAXIWAY J CONSTRUCTION

The cost of this project is approximately \$7M and involved the construction of a new cross-field taxiway, and the construction of an extension to Taxiway L. Taxiway J crossed an existing three-lane public road and required the construction of a taxiway bridge. The length of Taxiway J was approximately 2,200 feet. The scope of services BREE provided was developing three detailed cost estimates during the schematic design, design development, and construction documents phases.

**LOCATION** Raleigh-Durham, North Carolina

**OWNER** Raleigh-Durham Airport Authority

**CLIENT** Baker Associates

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### NORTH CAROLINA AIRPORT SYSTEM PLAN STUDY

This purpose of this task was to implement communication program to solicit input concerning North Carolina's statement airport system from active pilots. A plot user on-line survey format was developed to allow exporting of the responses for analysis of the results. The data was reviewed and updated to reflect today's standards, requirement, technological advances, and expectations. The project team was provided with a draft of the review. Once finalized, an on-line version was designed on SurveyMonkey. Coordination was made with appropriate agencies including AOPA, NBA, and NCAA.

**LOCATION** Raleigh-Durham Airport, North Carolina  
**OWNER** North Carolina Department of Transportation  
**CLIENT** PB Americas, Inc.

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### SECURE AREA ACCESS CONTROL SYSTEM UPGRADE

BREE provided cost estimating services for the Basis of Design (BOD), Design Development (DD), and Construction Document (CD) phase of this \$500 M modernization and expansion project for the Raleigh Durham Airport. The cost estimate had two sections: hardware, software, interfacing, system training costs; and construction of infrastructure to implement the system.

**LOCATION** Raleigh-Durham, North Carolina  
**OWNER** Raleigh-Durham Airport Authority

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### RDU TERMINAL C RENOVATION

BREE provided qualified transportation technicians to test freshly produced concrete during placement. The technicians were required to have the appropriate qualifications as outlined in project specifications and perform tests as indicated by the specifications.

**LOCATION** Raleigh-Durham Airport, North Carolina  
**OWNER** Raleigh-Durham Airport Authority  
**CLIENT** S&ME

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### PHL COMBINED HEAT AND POWER PLANT

BREE provided CADD services during the 35% conceptual design phase of the Combined Heat and Power Plan Project at the Philadelphia International Airport.

**LOCATION** Philadelphia, Pennsylvania  
**OWNER** Philadelphia International Airport  
**CLIENT** Burns Engineering, Inc.

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# FACILITIES

## Project Listing



### CITY OF DURHAM NEW PERFORMING ARTS THEATER



Image Credit: Tom Arban

In association with Skanska on this \$40M project, BREE provided Construction Manager-At-Risk Services by performing pre-construction phase services such as project administration, value engineering, scheduling, field inspections, submittal processing, and subcontractor and bid package coordination. Other services included claims analysis and avoidance, action item follow-ups, payment application review, request for information and change-order management, and other tasks that may be assigned.

**LOCATION** Durham, North Carolina  
**OWNER** City of Durham  
**CLIENT** Skanska USA Building Inc.

### FIRE STATION #9

BREE provided cost estimating services during the schematic, design development, and construction document phases of design for Fire Station #9 with an estimated construction budget of \$1M to \$2M. This 7,000 to 8,000 square foot, single-story, three-truck bay building included separate accommodations for eight firefighters per shift, weight room, captain's office, dining room, kitchen, automatic sprinkler system, and a solar hot water system. For each of the cost estimates, BREE performed reviews, quantity calculations, research, pricing, analysis, and a cost report.

**LOCATION** Durham, North Carolina  
**OWNER** City of Durham  
**CLIENT** Garner & Brown Architects, PA



Photo Credit: Garner & Brown Architects, PA

### DURHAM POLICE DEPARTMENT ANNEX

The probable construction cost estimate for this project was approximately \$ 1.4 M. BREE provided cost estimating services for the renovation and up-fit of the City of Durham Police Department Annex. We performed two different estimates in a standard CSI format for the schematic design phase of the annex, specifically for the Rigsbee Street and Broad Street buildings.

**LOCATION** Durham, North Carolina  
**OWNER** City of Durham Police Department  
**CLIENT** City of Durham

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# FACILITIES

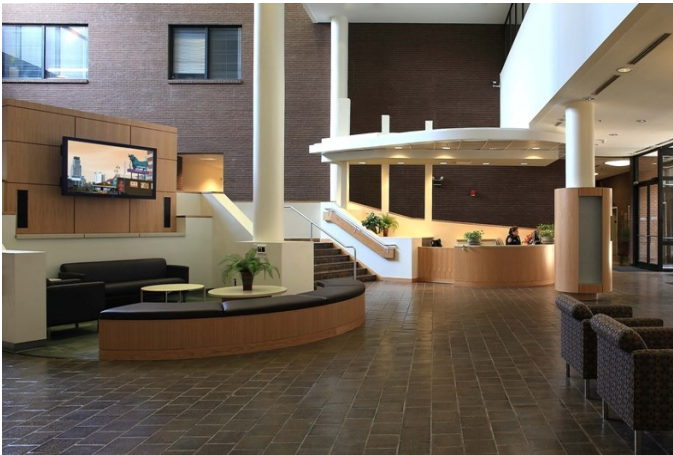
## Project Listing



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### CITY OF DURHAM CITY HALL COMPLEX RENOVATIONS

This \$4M project consisted of providing professional services for space allocation programming, preparation of construction documents, bidding, and construction administration for the renovations to City Hall. The scope of services also included a detailed cost estimate to ensure that the work could be accomplished within budget. BREE provided cost estimating services at the Design/Development, 95% Construction Documents and 100% Construction Documents phases.



*Photo Credit: Roughton Nickelson Deluca*

**LOCATION** Durham, North Carolina  
**OWNER** City of Durham  
**CLIENT** Roughton Nickelson Deluca Architects, PA

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### LYON PARK RECREATION CENTER

The cost of this renovation project was about \$5 M, and the school was renovated and re-programmed for use as a family learning and recreation center. The scope of work consisted of landscape improvements, new and renovated parking, new mechanical, fire protection and electrical systems, replacing all windows and floor coverings, installing new partition walls and a suspended ceiling system with lighting, installing new interior/exterior doors and hardware, fully upgrading bathrooms, a commercial kitchen, a new gymnasium, and a new roofing system. The scope of service was to provide cost estimating during the schematic, design development, and construction documents phase of design and construction administration as needed.

**LOCATION** Durham County, North Carolina  
**OWNER** County of Durham  
**CLIENT** Atepa, PA



*Photo Credit: Duke*

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### CARRBORO GOVERNMENT COMPLEX

The project cost for the renovation of this municipal facility was approximately \$1M, and our scope of services included developing a detailed cost estimate at the sixty percent design development stage of the project.

**LOCATION** Carrboro, North Carolina  
**OWNER** City of Carrboro  
**CLIENT** The New Synergy Group

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# K-12 EDUCATION

## Project Listing



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### RAGSDALE HIGH SCHOOL ADDITION AND RENOVATION

For this \$33M addition/renovation, BREE provided cost estimating services during the site work that included a detailed quantity take-off and pricing for site completion including subcontractor input for schematic estimate, DD estimate, and CD estimate deliverable for each GMP. The project consisted of an 80,000 sq. ft. addition as well as renovations to the existing buildings and playfields. The new construction included a media center, main gym, Autism Wing, and administration area.



*Photo Credit: Balfour*

**LOCATION** Greensboro, North Carolina

**CLIENT** DH Griffin Construction Co., LLC/  
Balfour Beatty Joint Venture

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### ALAMANCE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

For this \$21M project, BREE provided project management services during pre-construction, construction, and close-out. This project included renovation of the 1975 building and new construction to replace the older buildings that were demolished. The project provided classrooms for 700 K-5 students as well as additional classrooms for art, music, science, pre-K, etc. The site work also included new drives and parking to improve traffic flow on the site. BREE provided all necessary services to ensure that the project was completed successfully, on time, and within budget as adjusted from time to time. BREE was responsible for keeping the owner accurately and currently informed on all construction matters. BREE also was responsible for scheduling and reviewing/issuing pay requisitions using Primavera



*Photo Credit: Alamance Elementary*

**LOCATION** Greensboro, North Carolina

**CLIENT** Guilford County School System

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### BARRINGER ELEMENTARY SCHOOL

The cost of this project was approximately \$9M. The scope of the project included demolition of existing buildings; construction of a new building including kitchen equipment, media center devices, and ADA accessibility features; and a new elevator. The scope of service was to provide cost estimating during the schematic, design development, and construction documents phase of design.

**LOCATION** Charlotte, North Carolina

**CLIENT** Clark Nexsen

# HIGHER EDUCATION

## Project Listing



### NCCU LEROY WALKER PE COMPLEX RENOVATION

BREE provided construction administrative services for this renovation project during the construction phase. Responsibilities included site visits to monitor the progress of the construction as well as compliance with the contract. BREE also provided field reports; maintained logs for change-orders and submittals; and attended job site meetings. BREE reviewed the contractor's on-site copy of the Drawings, Specifications, Addenda, Change Orders and other modifications at intervals appropriate to the stage of construction and notified the architect of any apparent failure by the contractor to maintain up-to-date records.



*Photo Credit: North Carolina Central*

**LOCATION** Durham, North Carolina

**CLIENT** North Carolina Central University

### FAYETTEVILLE STATE UNIVERSITY BRONCO HALL DORMITORY



*Photo Credit: Fayetteville University*

BREE provided probable cost estimates during the schematic, design development, and construction document phase for this upper-class dorm consisting of 63,000 sq. feet that houses 254 students. BREE reviewed quantity calculations, researched prices, did cost analyses, and provided a cost report.

**LOCATION** Fayetteville, North Carolina

**CLIENT** Shuller Ferris Lindstrom & Associates

### DUKE UNIVERSITY TERRY SANFORD INSTITUTE OF PUBLIC POLICY

The cost of this project was about \$13M with a beautiful exterior design that fit well with the gothic theme throughout Duke's Campus. Further, the building has five levels and a central atrium that extends through each level. The scope of service was to perform a detailed cost estimate at the end of the design development phase.

**LOCATION** Durham, North Carolina

**CLIENT** Duke University



*Photo Credit: Duke University*

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# WATER / WASTEWATER

## Project Listing



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### BROWN AND WILLIAMS WATER RECLAMATION FACILITY

This \$18.9M project consisted of providing professional engineering to perform inspection services during the construction activities relating to the construction of a finished water pump station and wash-water handling facilities and electrical improvements to the facility. Lead based paint abatement and storm-water improvements were also performed. BREE provided an engineer to inspect construction activities, process construction documents, coordinate meetings and communication between the Engineer and the Contractor, attend construction progress meetings, and keep daily reports.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC

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### NORTH DURHAM WATER RECLAMATION FACILITY

This \$9.9M project consisted of providing professional engineering to perform inspection services during the activities related to the construction of a sixth aeration tank, a new ultraviolet disinfection facility, and structural repairs to the primary treatment facility. BREE provided a qualified field technician, as well as an engineer, to inspect construction activities, perform document control, manage the communication between the owner and the client, attend construction progress meetings, and keep an official record of progress.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC



Photo Credit: Hazen and Sawyer

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### LITTLE RIVER DAM

This \$275K project consisted of engineering services for the design and installation of an isolation/shut-off valve and pipeline enclosure structure at the reservoir and two backup generators for pumps located at the Brown Water Treatment Plant. The project included design, state and/or federal regulatory approvals, preparation of cost estimates for project budget, preparation of construction documents, handling by the Engineer of the bid phase and construction administrative services. BREE provided construction inspection and observation services for this project.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC



# WATER / WASTEWATER

## Project Listing



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### CITY OF DURHAM TEER QUARRY RAW WATER STORAGE FACILITY

This \$15.5M project converted an abandoned stone quarry in northern Durham into a raw water storage facility to improve the reliability of the water treatment system. The project work included provision of engineering services necessary to improve reliability of the water treatment system and included developing specifications for electrical power generators and in water supply pipeline improvements. BREE prepared an Engineer's Opinion of Probable Cost for the preliminary design of the Teer Quarry Raw Water Storage Facility. The costs included two pumping options: constant speed pumping and variable speed pumping.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** CDM

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### SLUDGE PAD CANOPY FOR NORTH DURHAM WATER RECLAMATION FACILITY

This \$2M project consisted of providing professional engineering to perform inspection services during the construction activities relating to the installation of two biosolid storage pad covers and the repair of expansion material and concrete cracks. BREE provided an engineer to inspect construction activities, file construction documents, ensure accurate updates were being communicated between the Engineer and the Contractor, attend construction progress meetings, and maintain daily records.



Photo Credit: Hazen and Sawyer

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC

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### ULTRAVIOLET REPLACEMENT AT THE NORTH DURHAM RECLAMATION FACILITY

This project consisted of providing professional engineering services during the construction phase of the UV replacement. BREE provided an engineer to oversee construction activities, control construction documents, organize schedules and information relayed between the Engineer and the Contractor, attend construction progress meetings, and issue daily reports.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC

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## **BY SERVICE TYPE**

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Construction Engineering Inspection (CEI), Compliance,  
Cost Estimating, Data Collection/Public Involvement

# CONSTRUCTION ENGINEERING & INSPECTION



## Project Listing

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### NC TURNPIKE AUTHORITY TRIANGLE EXPRESS U-4763B

This \$738M Design-Build construction project was fast paced and schedule driven. The construction consisted of grading, drainage, paving, structures, guardrail, signing, signals, ITS, and toll technology. BREE provided qualified trained and certified Transportation Technicians II to perform erosion control inspections, ensure permit compliance on a daily basis, prepare daily reports, attend required meetings, and perform technician level contract and construction administrative functions. Further, BREE ensured that erosion plans were im-



Photo Credit: North Carolina DOT

plemented and current plans were maintained and updated with appropriate approvals. BREE also ensured the permit compliance by the Design-Build Team— reviewing waste and borrow pits, and other activities as needed to proactively mitigate all erosion and permit issues.

**LOCATION** Wake County  
**OWNER** NC Turnpike Authority  
**CLIENT** Mulkey, Inc.

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### PREVENTATIVE MAINTENANCE/EMERGENCY REPAIR ON HIGHWAY STRUCTURES

For this \$14M project, BREE provided project management and construction engineering and inspections services for DDOT. The project scope included developing plans for roadway design which involved several locations for resurfacing, reconstruction, and upgrading (substandard streets with asphalt or no curbs). Further, BREE provided management support and related services for the construction of bridge and roadway projects, inspection and coordination of bridge and/or roadway projects during the construction phase, and overseeing of the construction activities to ensure that the quality of materials and workmanship met or exceeded the District's standards. BREE maintained accurate records of field measurements, materials, documentations, and payments to ensure the project was being built according to the plans and specifications. BREE kept the Contracting Officer fully informed of any technical or contractual difficulties encountered during the performance period and advised the Agency Chief Contracting Officer of any potential problem areas under the contract.

**LOCATION** Washington, DC  
**OWNER** District of Columbia DOT  
**CLIENT** Legion Design, Campbell & Associates Chartered

*Contact us for a copy of our complete capabilities statement, inclusive of the many projects BREE & Associates, Inc. has participated on and the respective services provided: Robert Lancaster, [bree@breeassociates.com](mailto:bree@breeassociates.com)*

# CONSTRUCTION ENGINEERING & INSPECTION

## Project Listing



### AMERICAN TOBACCO TRAIL

This \$7.5M project consisted of a section of the trail that was approximately 4.1 miles from NC 54 to the Chatham County line that included the construction of a minimum 10-ft wide bridge from rail-to-rail over I-40. BREE provided a civil engineer for construction oversight of the installation of the erosion control devices as well as asphalt paving of the trail. Daily reports were provided to the contract managers and approved pay items were entered into Primavera and PDRAX.

**LOCATION** Durham, NC

**OWNER** City of Durham

**CLIENT** PB Americas, Inc.



Photo Credit: Triangle Trails

### CITY OF DURHAM STREET REPAIR AND RESURFACING — ST-228, ST-226

#### ST-228

For this \$2.5M project, BREE performed investigations of necessary asphalt pavement repair areas on identified city streets in advance of the asphalt and concrete pavement/utility repairs that were needed. The investigation included a tabulation noting location and physical limits of areas recommended for each street repair. Recommendations for the pavement repairs and estimated quantities associated with the repairs were computed and provided to the City of Durham. Areas of special concern to the planned repairs, traffic patterns, or other factors were identified and included in the summary. Alternative pavement restoration efforts or procedures were provided for streets that required extensive work not suitable for repair or resurfacing.

#### ST-226

For this \$3.8M project, BREE provided qualified transportation technicians to investigate, inspect, and evaluate streets to determine the extent of necessary asphalt and concrete pavement/utility repairs that were needed. During construction, BREE provided construction management and quality assurance services to ensure the work was performed to contract specifications. BREE was also responsible for performing construction, engineering, and inspection services; field materials testing; maintaining reports for each test accomplished; the preparation of daily inspectors' reports; and technician level contract and construction administrative functions.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Greenhorne & O'Mara, Inc.

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# CONSTRUCTION ENGINEERING & INSPECTION

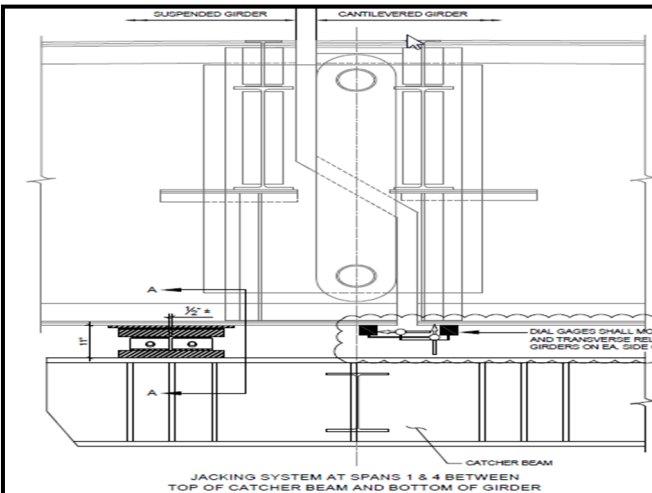
## Project Listing



**KENILWORTH AVENUE-DOOR REPAIR**



**WHITEHURST FREEWAY PROJECT-REPAIR TO COLUMN**



**CHAIN BRIDGE -TYPICAL JACKING PROCEDURE**



**CHAIN BRIDGE-TEMPORARY SUPPORT AT SPAN 8**



**CHAIN BRIDGE-STRAIN GAUGES INSTALLED**



**BRIDGE 40-1 35<sup>TH</sup> ST. OVER NORTH CAPITOL STREET**

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# COMPLIANCE & SUPPORT SERVICES

## Project Listing

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### VDOT NOVA GEC MEGA PROJECTS PROGRAM MANAGEMENT

This \$1.4B project was for the construction of 14 miles of new HOT lanes on I-495. BREE's scope of work for this project was to provide technical consulting and compliance support to the VDOTGEC Team. BREE conducted compliance reviews to ensure that federal and state labor regulations were being observed throughout the performance of the work, and that records were being properly prepared to document the results. These



Photo Credit: Virginia DOT

reviews included but were not limited to certified payroll, Davis Bacon interviews, and EEO policies. BREE also monitored the performance of DBE/SWaMs once on-site in order to assist them in meeting the technical and schedule requirements of the project. Further, BREE provided assistance in evaluating design-build plans and quantity take-off.

**LOCATION** Alexandria, VA  
**OWNER** Virginia Department of Transportation  
**CLIENT** ATCS, CH2M Hill Joint Venture

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### NCDOT PROFESSIONAL SERVICES PROGRAM

BREE was a professional consultant for NC Department of Transportation (NCDOT) Contractual Services Unit in the administration of NCDOT's Contractor Opportunity Program. BREE provided professional services to NCDOT to facilitate and strengthen the development and expansion of DBE certified firms by addressing the needs of minority, women, and disadvantaged owned firms. The scope of work included the development and maintenance of programs, facilitating effective communication with customers, designing and implementing efficient processes, pre-employment and prequalification checks (that included on-site visits, job site visits, and reference checks), the development of project-specific minority participation goals, designing new programs, the implementation of new programs, goal compliance activities/tasks, and program management assistance on an as-needed basis for NCDOT. BREE also provided technical assistance and training to DBE certified firms such as: management services that included coaching, business assessments, business plan development, responding to claims, managing staff in the field, and reviewing financial records.

**LOCATION** Statewide  
**CLIENT** Summit Consulting  
**OWNER** North Carolina Department of Transportation

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# COMPLIANCE & SUPPORT SERVICES

## Project Listing

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### 11TH STREET BRIDGES REPLACEMENT PROJECT SUPPORT SERVICES

BREE provided DBE Field Support and Project Close-Out Services on the 11<sup>th</sup> Street Bridge Project. This included field and office support advisory services for the Contractor's Disadvantaged Business Enterprise (DBE) subcontractors and to assisted HNTB in the project close-out. This was achieved by BREE's personnel working with HNTB field and office personnel, attending weekly Contractor QA/QC meetings, and performing field assessments. The purpose of the project was to facilitate growth and development of DBE



Photo Credit: District DOT

firms, so they are successful on this project as well as future work opportunities. Daily Field Inspection Reports documented the Contractor's DBE subcontractors operations, manpower, and equipment associated with the scope of work. Weekly Summary Reports were provided by DBE subcontractors as well as report updates regarding the project close-out.

**LOCATION** Alexandria, VA

**OWNER** Virginia Department of Transportation

**CLIENT** ATCS, CH2M Hill Joint Venture

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### VDOT BUSINESS OPPORTUNITY WORKFORCE DEVELOPMENT (BOWD)

BREE provided technical assistance and training to certified DBE firms. BREE was committed to ensuring that VDOT successfully attained its goals in developing strategies in order to increase the DBE skills that are essential to effectively manage a competitive business, and for increased participation in VDOT work. Our services included but were not limited to computerized accounting/finances; job cost accounting system; estimating, bidding, and proposal preparation; construction management project/technical assistance; marketing; technical/technology assistance, and cost benefit analysis/business planning. BREE provided a cost estimating seminar for small DBE's at a VDOT quarterly meeting as well as provided various levels of Quick-Books training to small DBE's giving them an understanding of the importance of job costing and tracking expenses. Furthermore, BREE also developed a separate cost estimating workshop for truckers because their cost structure is different than typical construction trades.

**LOCATION** Virginia—Statewide

**CLIENT** Virginia Department of Transportation

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# COST ESTIMATING

## Project Listing



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### 11TH STREET BRIDGES REPLACEMENT

This project is DDOT's largest project and the District's first Design-Build-to-Budget procurement approach. The total project is \$300M and Phase II is \$90M— On Phase II, BREE provided independent cost estimates. On each of the cost estimates and the final adjustment, BREE performed reviews, quantity calculations, research, and a pricing analysis. Finally, BREE provided DBE Field Support and Project Close-Out Services.



Photo Credit: District DOT

This support included field and office assistance advisory services for the Contractor's Disadvantaged Business Enterprise (DBE) subcontractors and assisting HNTB in the project close-out.

**LOCATION** Washington, DC

**OWNER** District of Columbia DOT

**CLIENT** HNTB Corporation

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### ANACOSTIA WATERFRONT INITIATIVE

The 30-year, \$10B Anacostia Waterfront Initiative (AWI) is intended to transform the entire southeastern sector of Washington, DC, with special emphasis placed on the development and revitalization of the Anacostia



Photo Credit: FHWA

riverfront. BREE prepared cost estimating services for Segment 2 (Suitland Parkway I-295 and Segment 3 (S. Capital Street Corridor). The services were construction cost estimating, review, quantity calculations, research, pricing, analysis, and preparation of a cost report.

**LOCATION** Washington, DC

**OWNER** District of Columbia DOT

**CLIENT** CH2M Hill, Inc.

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### CITY OF DURHAM BUNDLED CAPITAL PROJECTS

In association with Skanska on this \$20M project, BREE provided Construction Manager-At-Risk Services that consisted of pre-construction phase services that include cost estimating, value engineering, scheduling, construction administration, and inspections for projects such as the City Hall, Civic Center, and Carolina Theater. Other services included claims analysis and avoidance, permitting, and coordination of regulatory requirements.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Skanska USA Building Inc.

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# COST ESTIMATING

## Project Listing



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### RAGSDALE HIGH SCHOOL ADDITION AND RENOVATION

For this \$33M addition/renovation, BREE provided cost estimating services during the site work that included a detailed quantity take-off and pricing for site completion including subcontractor input for schematic estimate, DD estimate, and CD estimate deliverable for each GMP. The project consisted of an 80,000 sq. ft. addition as well as renovations to the existing buildings and playfields. The new construction included a media center, main gym, Autism Wing, and administration area.



*Photo Credit: Balfour*

**LOCATION** Greensboro, North Carolina

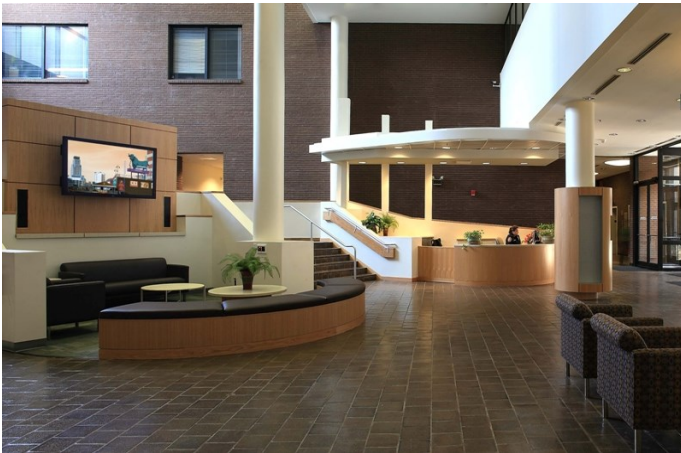
**OWNER** Guilford County School

**CLIENT** DH Griffin Construction Co., LLC/  
Balfour Beatty Joint Venture

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### CITY OF DURHAM CITY HALL COMPLEX RENOVATIONS

This \$4M project consisted of providing professional services for space allocation programming, preparation of construction documents, bidding, and construction administration for the renovations to City Hall. The scope of services also included a detailed cost estimate to ensure that the work could be accomplished within budget. BREE provided cost estimating services at the Design/Development, 95% Construction Documents and 100% Construction Documents phases.



*Photo Credit: Roughton Nickelson Deluca*

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Roughton Nickelson Deluca Architects, PA

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### FIRE STATION #9

BREE provided cost estimating services during the schematic, design development, and construction document phases of design with an estimated construction budget of \$1M to \$2M. This 7,000 to 8,000 square feet, single-story, three-truck bay building included separate accommodations for eight firefighters per shift, weight room, captain's office, dining room, kitchen, automatic sprinkler system, and a solar hot water system.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham/

**CLIENT** Garner & Brown Architects, PA



# DATA COLLECTION & PUBLIC INVOLVEMENT

## Project Listing



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### NC 50 CORRIDOR STUDY



The study area for this NC 50 Corridor project was the from I-540 in Wake County and NC 56 in downtown Creedmoor in Granville County. The area covered approximately 15 miles of roadway and traverses in both rural and urban settings. The study was to look for transportation improvements along NC 50 suitable for implementation at the local and state level that improved transportation

mobility and traffic safety along the corridor; to preserve the residential and rural nature of the corridor while supporting regional economic development; and to support activities to protect recreation, water quality, and the environment in Falls Lake. BREE conducted six turning moving counts during AM and PM peak travel periods at six intersections to calibrate the traffic design services studies. BREE provided technicians to collect the data in 15-minutes increments. The study was performed in JAMAR software and converted to a spreadsheet format.

**LOCATION** Wake/Granville Counties, North Carolina  
**OWNER** NC CAMPO  
**CLIENT** Kimley-Horn and Associates, Inc.

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### COMPREHENSIVE OPERATIONAL ANALYSIS

BREE assisted in the \$7.5M Comprehensive Operational Analysis (COA) of the Durham Area Transportation Authority (DATA) fixed route bus service and identified improvement measures. BREE identified the participants, dates, and locations for the kickoff, public, and stakeholder meetings and events as well as assisted with the logistical arrangements. BREE led the development of a public involvement plan for the project working with DATA/Triangle Transit staff. BREE also facilitated the Sounding Board Meetings and identified and documented the public and stakeholder involvement strategy findings.

**LOCATION** Durham, North Carolina  
**OWNER** City of Durham  
**CLIENT** PB Americas, Inc.

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# DATA COLLECTION & PUBLIC INVOLVEMENT

## Project Listing



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### TRIANGLE TRANSIT AUTHORITY PROGRAM MANAGEMENT

BREE worked in partnership to provide public involvement support for this Triangle Transit Authority \$7.2M project. BREE provided outreach, facilitation, and coordination to the clients for the projects regarding land use, transportation, capital improvements programming, and sustainability research. BREE also assisted with the development and implementation of the Public Information Plan that included material and database development, public information, steering, and stakeholder meetings and coordination.

<b>LOCATION</b>	Raleigh, NC
<b>OWNER</b>	Triangle Transit Authority
<b>CLIENT</b>	URS Corporation

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### NORTH CAROLINA AIRPORT SYSTEM PLAN STUDY (NCASP)

The purpose of this task was to implement a communication program to solicit input concerning North Carolina's statement airport system from active pilots. A pilot user on-line survey format was developed to allow for exporting the responses for analysis. The data was reviewed and updates were made to reflect today's standards, requirements, technological advances, and expectations. The project team was provided with a draft of the review. Once finalized, an on-line version was designed on SurveyMonkey. Coordination was made with appropriate agencies including AOPA, NBA, and NCAA.

<b>LOCATION</b>	Raleigh-Durham Airport, North Carolina
<b>OWNER</b>	North Carolina Department of Transportation
<b>CLIENT</b>	PB Americas, Inc.

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### CITY OF DURHAM APEX STREET CONNECTION

BREE's scope of service included public information and involvement coordination via execution of two neighborhood meetings according to the City of Durham specifications. BREE was responsible for all contact and information dissemination efforts in the surrounding community. BREE also coordinated and verified the relocation of conflicting utilities on the project site. Included in this task was contacting and communicating with the utilities companies and providing all needed information to them.

<b>LOCATION</b>	Durham, North Carolina
<b>OWNER</b>	City of Durham
<b>CLIENT</b>	The Louis Berger Group, Inc.