

Request For Qualifications
State Project No. 0064-964-110, P101, C501,
B610-B614, B617, B616, D601-D606
Federal Project No.: NH-064-2(150)
November 15, 2012



I-64 Widening and Route 623 Interchange Improvements

Goochland County and Henrico County, VA



In Association with:
AECOM Technical Services, Inc.
Athavale, Lystad & Associates, Inc.
CES Consulting, LLC
EBA Engineering, Inc.
InfraMap Corp.
NXL Construction Services, Inc.
Schnabel Engineering Consultants, Inc.
Siddall, Inc.
ECS Mid-Atlantic, LLC



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

3.2 Letter of Submittal





615 Church Street, Lynchburg, Virginia 24504
P. O. Box P-7000, Lynchburg, Virginia 24505
Tel: (434) 845-0301 Fax: (434) 845-0306

3.2 Letter of Submittal

November 15, 2012

Commonwealth of Virginia
Virginia Department of Transportation
Central Office Mail Center
Loading Dock Entrance
1401 East Broad Street
Richmond, VA 23219
Attention: Brenda L. Williams

Re: **Statement of Qualifications for:**
I-64 Widening and Route 623 Interchange Improvements
Goochland County and Henrico County, Virginia
State Project No.: 0064-964-110, P101, C501, B610-B614, B617, B616, D601-D606
Federal Project No.: NH-064-2(150) Contract ID Number: C00070542DB55

Dear Ms. Williams:

W. C. English, Inc. (English) is pleased to submit the enclosed Statement of Qualifications to design and build 4.5 miles of widening of I-64 and the Interchange Improvements on Rt. 623 in Goochland and Henrico Counties, Virginia. The statement that follows details the English team's structure and experience, QA/QC approach, and project controls such as safety, maintenance of traffic to minimize the impact to the travelling public, environmental stewardship, scheduling, and cost

The Design-Build Team will be led by English and supported by a team of experienced and qualified consultant partners that we feel is the best fit for this design-build project in Goochland and Henrico Counties. Our Team consists of:

- **W. C. English**, Lead Contractor
- **AECOM**, Lead Engineer
- **Schnabel Engineering Consultants**, Geotechnical, Quality Assurance Testing Lab
- **Athavale Lystad, & Associates**, Structures design (*a VDOT certified DBE*)
- **EBA Engineering**, Construction Quality Control
- **CES Consulting**, Construction Quality Assurance
- **NXL**, Surveying (*a VDOT certified DBE*)
- **Siddall**, Public Involvement
- **InfraMap**, Subsurface Utility Engineering
- **ECS Mid-Atlantic**, Construction Quality Control Testing Lab

English’s experience in highway and bridge construction for this project is unparalleled: we successfully complete an average volume of roadway work of more than \$100M per year. Over the last 30 years, English has completed over 30 highway and bridge projects for VDOT. English maintains a staff of more than 400 employees, forming construction and support teams under the leadership of 120 tenured personnel, who have served on as many as 40 concurrent projects. In support of our qualifications we emphasize the following:

Local Experience involving I-64. English built two projects that fall within the limits of this project. One was the North Gayton Road project that passes over I-64, and the other was the Rt. 295 Flyover including the Pouncey Tract bridge replacement, and the outside widenings of I-64. English also built the Gaskins Road / I64 Interchange and the Route 288 / I64 Interchange. Having completed these projects, English has construction experience in this area and understands the issue and challenges associated with the project as well as extensive knowledge of the soil types and the rock locations in the area which may require a large amount of undercutting for this project as well as the possible rock excavation. No other design build team will have the extensive experience within the project limits.

Interstate widening experience. English has a significant amount of Interstate widening experience in Virginia:

- I-81 Truck Climbing Lanes (7.1 miles), Rockbridge County
- I-95 Atlee-Elmont Interchange Improvements
- I-95 from Caroline to Stafford Counties (6 separate projects)
- I-64 / I-295 Interchange and Ramp/Bridge improvements
- I-64 / Gaskins Interchange and Ramps/ Bridge improvements
- I-64 / Rte. 288 Interchange and Ramps
- I-64 / Mallory St. Interchange
- I-64 Widening Chesapeake
- I-64 / I-264 / I-44 Barry Robertson Flyover Virginia Beach
- I-44 Widening Virginia Beach (3 separate projects)
- I-66 Widening Prince William County
- I-81 Widening Bristol Va.
- I-81 Widening from I-77 North to I-77 South Wytheville

Richmond area Design-Build experience. Our experience includes Route 288 in Richmond, for which English, as part of the design-build group with APAC, performed excavation, grading, and storm drainage work, and Route 895-Pocahontas Parkway in Richmond, for which English, as a contractor to FD/MK, built the eight-mile roadway section of this project, which included 14 bridges and the toll plaza. North Gayton Road a design build for Henrico County where English constructed over two miles of roadway to include bridge construction over I-64 and two new arch culverts. English also completed the construction of the design build rest area in New Kent County.

Experienced Management Team. Mr. Judson Dalton, our D-B Project Manager has a wealth of management experience, including serving as Design Build Project Manager for the North Gayton Road project over I-64. Mr. Dalton, Mr. Dickerson (Principal-in-Charge) and Mr. Hodge (Design Manager) have worked together through the years, most recently on the I-81 Truck Climbing Lane

widening in Rockbridge County. The addition of Avtar Singh, P.E. as the QAM with his vast experience has only increased the strength of the English team.

English and AECOM experience working together. Through the years, English and AECOM have worked together on the design and construction of 8 highway/bridge projects in Virginia, three of which were design-build projects. These projects include the I-81 Design Build Team of Star Solutions, the I-81 Truck Climbing Lanes in Rockbridge County, and the North Gayton Road project for Henrico County, Virginia. Working together on these projects has given us the experience and knowledge needed to provide a compatible and proven team that will deliver a successful project with the quality that is expected by VDOT and the citizens of Virginia. Our other team members have worked with us before, not just the companies but the very personnel, and have the same philosophy which adds to the value of our team

As requested in section 3.2 of the RFQ, the English team offers the following information:

3.2.1 Principal Officer of the Legal Entity with whom a Design-Build Contract with VDOT Would Be Written

Wilson L. Dickerson, Jr., PE (Senior Vice President) is the principal officer of W.C. English, Incorporated the legal entity with whom a design-build contract with VDOT will be written.

3.2.2 Point of Contact

Judson H. Dalton (Design Build Project Manager) is the official representative and point of contact for the English team relative to this SOQ. His contact information is listed below.

W. C. English, Incorporated
615 Church Street
Lynchburg, VA 24505
Phone: 434-845-0301
Fax: 434-845-0306
Email: jdalton@englishconst.com

3.2.3 Principle Officer

Wilson L. Dickerson, Jr., PE (Senior Vice President)
W. C. English, Incorporated
615 Church Street
Lynchburg, VA 24505
Phone: 434-845-0301
Fax: 434-845-0306
Email: wdickerson@englishconst.com

3.2.4 Offeror's Organizational Structure

English is structured as a corporation and is not a limited liability company, joint venture, or any form of partnership. English will undertake the financial responsibility for this design-build project, provide the required bonding, and accept the risks and liabilities for the performance of the work. English has no liability limitations.

3.2.5 Lead Contractor: W. C. English, Incorporated
Lead Designer: AECOM

3.2.6 Affiliated and/or Subsidiary Companies of the Offeror

See Attachment 3.2.6 in the Appendix

3.2.7 Certification Regarding Debarment Form(s)

See Attachment 3.2.7(a) and Attachment 3.2.7(b) in the Appendix

3.2.8 Contractor VDOT Prequalification

W. C. English, Incorporated certification number is E009 and is an active prequalified contractor to do business with VDOT. A copy of certificate is in the Appendix.

3.2.9 Bonding Capacity

English carries the ability to bond single projects up to \$125,000,000 and aggregate bonding limits are \$500,000,000. Please find a letter from Travelers Casualty & Surety Company regarding English’s bonding capability in the Appendix.

3.2.10 Evidence of Offeror’s Registration with Virginia Department of Professional and Occupational Regulation, Virginia State Corporation Commission, and Virginia Professional Registrations for Key Personnel

See Attachment 3.2.10 in the appendix

3.2.11 Disadvantaged Business Enterprises

English is fully committed to meeting and/or exceeding the *ten percent* DBE participation goal during the design and construction of the project.



**Wilson L. Dickerson, Jr., PE
Senior Vice President**

Our team is 100 percent committed to delivering a successful quality project to VDOT on-time and on-budget. *Our knowledge and experience in this region offer understanding of subsurface conditions and the traffic volumes that will be maintained allowing us to properly staff and understand the requirements of the project. We have a history of being competitive on bid build and design build projects and our resources are strategically staged throughout the Richmond area allowing us to offer a very competitive proposal.* If you have any questions or need further information, please contact me.

Respectfully submitted,

W. C. English, Incorporated



**Wilson L. Dickerson, Jr., PE
Senior Vice President**



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

3.3 Offeror's Team Structure

3.3 OFFEROR'S
TEAM STRUCTURE



3.3 Offeror's Team Structure

3.3.1 Key Personnel

We have built a team to ensure that this project and the associated risks will be effectively managed through our personnel's experience, competence and accountability. This belief is founded in the successful design-build delivery by our Key Personnel and is outlined on the resumes in the Appendix. English and AECOM strongly believe that we are the right team for this project and following are some key aspects of our team structure.

Design-Build Project Manager: Judson Dalton (English) will be responsible for the success of the overall project, including design, construction quality management, and contract administration. He has been a project manager with English since 2008 and has managed numerous transportation projects involving earthwork, structures, concrete and asphalt paving, utilities, and storm drainage. His most recent project was the \$38 million North Gayton Road project in Henrico County, VA under traffic and in interstate I-64.

Quality Assurance Manager (QAM): Avtar Singh, PE, CCM, PMP (CES) has over 17 years in the industry and has worked on a wide variety of projects. He is a consulting construction manager in charge of multiple paving contracts for Fairfax Maintenance. He manages a staff of inspectors that ensure that all work is completed per VDOT contract and specifications, all work is inspected, tested and documented per VDOT processes and that all material testing of all installed work is carried out per VDOT Materials section guidelines. Mr. Singh provides construction solutions to field issues; draft all project correspondence, work orders and day to day project management.

Design Manager (DM): Scott Hodge, PE (AECOM) has over 32 years of experience in the project management, preliminary and final design for highway and bridge projects. His experience also includes preliminary highway and railroad designs; location studies and environmental impact statement oversight; final rural and urban highway designs. Mr. Hodge has managed and been an integral part of the design of interstate and rural projects on I-81, I-77, Route 1, and Route 11. In addition, he has managed and designed complex urban projects in the cities of Petersburg, Virginia Beach, Newport News, and Roanoke. Mr. Hodge has additional experience in surveying, plat descriptions, site layouts, and rights-of-way. He is currently the Design Manager for the I-81 Truck Climbing Lane project in Rockbridge County.

Construction Manager: John Moore (English) has been in construction industry for over 40 years working as a senior construction manager and superintendent on projects mainly in the Richmond, VA area. He has tremendous skills in managing and supervising complex projects with high traffic volumes. He brings to the English team a strong knowledge with large and challenging projects being completed on time and within budget.



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

3.3.2 Organizational Chart

The following organizational chart illustrates the reporting and functional structure of the English Team for the design, construction, and quality assurance management for the I-64 / Rt. 623 project.

I-64 Widening and Route 623 Interchange Improvements



The chart shows both the functional reporting relationships among the English Team and clearly demonstrates the Design-Build Project Manager (DBPM), Judson Dalton, is, in the end, responsible for the projects successful completion. He will report directly to the VDOT project manager and will serve as the single point of contact for VDOT from submission of this SOQ until final acceptance. Mr. Dalton will have the authority to act for English on all project related matters.

This organization structure is similar to the organization structure successfully utilized by English on the I-81 Truck Climbing Lanes design-build project and the North Gayton Road Design Build project. Lines of communication are clear and lead through the DM, CM and QAM, all reporting to the DBPM. “Firewalls” are established by the DBPM between the QA organization and the rest of the team.

Judson Dalton, our designated DBPM and primary point of contact with VDOT, leads the English Team. Our Quality Assurance Manager (QAM), Mr. Avtar Singh, PE, CCM, PMP is a designated key staff individual, responsible for independent QA oversight of all design and construction activities which will include the monitoring of the QC program. Another independent firm, EBA, will be performing Quality Control for construction. Thus, there is clear separation between the QA and QC inspection and testing services for construction. The QAM will report directly to the DBPM and will have the authority to stop all work not meeting contract requirements. This critical position also ensures VDOT maintains the intended oversight of the design-build project, while still providing a strong link back to the DBPM who is ultimately responsible for quality. Our DBPM is supported by a team of design and construction professionals perfectly suited to deliver this multi-faceted project on time and on budget. Key staff members Scott Hodge, our Design Manager (DM), and John Moore, our Construction Manager (CM), report directly to our DBPM. Maintaining direct lines of communication between these individuals, the construction and design teams, and the DBPM is critical to the team’s success.

During designs, our DBPM and CM will work closely with the DM and his team to insure designs are compatible and constructible design meetings will be held as often as necessary but at a minimum once a month, with VDOT’s representative invited to attend, to review issues as the designs progress. There will often be multiple meetings per month.

These professionals will provide the necessary coordination and consultation to all third parties including permitting and review agencies and private utility companies on a monthly basis and/or as required. This core team of design and construction management professionals provides our DBPM with the depth of staff and expertise ensuring leadership and compliance oversight of the project.

Our Construction Team is led by our Construction Manager, John Moore. He will have the overall responsibility of day-to-day operations for the project including but not limited to, safety, environmental compliance, traffic control and will report directly to the DBPM. Mr. Moore has the authority to stop all work not meeting contract requirements, and to act for English on all daily operations matters related to the project. The Team’s Construction Superintendents and the QC Manager, Mr. Kenneth Shirley, reports directly to the CM ensuring construction and quality control work collaboratively, as depicted in the organization chart. The construction superintendents are responsible for oversight of English crews and any subcontractors on the project. The QC Manager oversees the QC effort, including inspection and testing.

Management of Project Time is an extremely important element of a project. Detailed planning and scheduling and the subsequent management of the schedule is the best way to manage the risk associated

with completing the project on-time. Without a detailed and effective schedule, there are unknown risks that could result in late completion. Thus, the English team has developed a highly effective Project Controls Approach to ensure the project is finished on-time and to provide VDOT the opportunity to be proactive in maintaining the schedule. In order to meet or exceed the Project Schedule, the English team brings very experienced competent personnel with the authority to make decisions regarding schedule recovery should slippages be identified. In addition, these competent personnel bring with them proven means and methods by which the Design-build team will use to plan and control the work. Our team's highly effective project controls approach administered by our experienced competent personnel will give our team and VDOT the opportunity to act prior to a schedule delay thus, keeping the project on-time.





I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

3.4 Experience of Offeror's Team



3.4 Experience of Offeror’s Team

3.4.1 Over the years, English and AECOM have had experience working together on previous design-build projects. Some of these projects consist of I-81 Design Build Team of Star Solutions, the I-81 Truck Climbing Lanes in Rockbridge County, and the North Gayton Road project for Henrico County, Virginia. Working together on these projects has given us the experience and knowledge needed to provide a compatible and proven team that will deliver a successful project with the quality that is expected by VDOT and the citizens of Virginia. Our other team members have worked with us before, not just the companies but the very personnel, and have the same philosophy which adds to the value of our team.

With English’s Design Build experience, we understand the process and how to work as a partner with VDOT. Each team member had proven experience as shown on the work history forms found in the attachments. English is extremely experienced in Interstate Widening projects, as previously listed dealing with high traffic volumes, lane shifts and lane closures

All of our experience as contractors and as designer as well as our history working together provide for great experience for all aspects of this Design Build project.

The English team is uniquely qualified to design and build this project due to its extensive experience not only within the project limits, the Richmond District and throughout the state. We also come to the table with a 25 year history working together with AECOM professionals. Combining these attributes with our extensive resources and our longstanding relationships with subcontractors, vendors, and suppliers in this region will guarantee our competitiveness on this project.





I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

3.5 Project Risks

3.5 Project Risks

Maintenance of Traffic:

A critical risk and challenge will be to allow the traveling public that consists of Average Daily Traffic (ADT) of 48,315 vehicles with a substantial amount of truck traffic being approximately 13% of the total daily volume, to pass through a construction zone approximately 4.52 miles long with traffic barrier running along the median continuously in both the east and west bound lanes of I-64, with periodic traffic shifts to accommodate the phasing of the project as well as the widening and reconstruction of the I-64 Bridges B-616 and B-617 over Tuckahoe Creek.



The risk could impact both the cost and the schedule of the project if not appropriately identified and handled properly during the design and construction phasing creating a situation that is reactionary and not proactive. One example is the ramp from east bound I-64 to south bound Route 288. A large amount of traffic in the project corridor uses Route 288 especially during peak traffic hours. Shifting traffic to the newly widened inside of the east bound I-64 bridge will require a transition length that may have an impact on how the traveling public will access Route 288 South. Traffic may need to be split earlier to the outside for Route 288 traffic than the beginning of the transition of I-64 east bound traffic to the newly widened bridge structure in order to avoid unnecessary build up and overlay to get those Route 288 vehicles on to the facility they need. All build up and overlay would have to be placed utilizing additional traffic control and lane closures and ultimately have to be removed and should be avoided during the design phase. This unnecessary build up and overlay will increase cost and add additional activities to the schedule that could, with proper planning be eliminated.

To mitigate this risk we will develop a MOT plan that will provide continuity of traffic movement and construction access to the site while ensuring the safety of motorists and workers. To help minimize the disruption to traffic, the existing lanes of traffic will remain open during construction. The travel lanes will be shifted to allow for the widening of the interstate, but it is important that all travel lanes remain open during construction. Appropriate traffic switches, lane closures, and transitions will be designed and constructed utilizing as much of the existing pavement as possible without the cost and schedule impacts of unneeded build up and overlay.

The approach to MOT must maintain balance between existing conditions, the construction plan and schedule, with considerations of public safety and convenience being paramount. The MOT plan will be monitored on a continuing basis and appropriate corrective actions will be taken to improve MOT performance as needed. Critical parameters in the MOT approach are:

- Existing conditions (traffic levels and peak volumes)
- Construction plan (construction area requirements, lay-



down area requirements, construction related traffic requirements)

- Time Restrictions (peak hours, holidays, and special events)
- Public communication (meetings, signs, message boards, website, and VDOT 511)
- MOT plan (work segments, work sequencing, striping and signage)

Maintenance of traffic (MOT) is based on the premise of guiding the traveling public safely through an active construction project by eliminating or minimizing the impact on traffic in the corridor.



During development of traffic control plans, we will solicit input from VDOT, local governments, community groups, emergency services, and all other stakeholders. The public will be notified prior to and during construction of the changes to the traffic patterns and construction activities. To keep the public informed we will use a combination of public notices, a project specific web site, prevalent social media, and public meetings.

Culvert Construction:

The Box Culvert construction for this project is riddled with possible risk. There are environmental concerns, possible foundation issues, stream flow control dynamics, constructability restraints, and possible footprint/permit as well as right-of-way issues which will all have to be managed appropriately and in concert with one another during design and construction. Several existing culverts will require extensions and/or replacements due to the widening of I-64 along this project. A 48” RCP culvert will require an extension just east of the Route 622 Bridge at the beginning of the project. A triple box culvert for a stream west of Route 623 will need to be connected in the median area. A double 42” RCP culvert will need to be connected in the median for a small stream just east of the Route 623 on and off ramp connections. I-64 Bridges B-616 and B-617 over Tuckahoe Creek will need to be widened. Little Tuckahoe Creek will require quadruple box culvert extensions inside the median area.

The environmental and foundation issues are normal to the industry and can be handled with little or no impact to the cost or schedule of the project. Several of these streams are live and will require protection and innovative techniques to maintain stream flow during construction activities. Box culvert foundations will probably be located in rock and require additional geotechnical investigations and analysis to determine foundation requirements.

The stream flow control, constructability, and footprint/permit issues will create a critical risk that if not planned for and managed properly could have major impacts to the cost and the schedule of the project. The risk is critical because it will be an early item in the schedule and if not managed appropriately could have major impacts to the logical ties to later activities possibly the entire project if the permit is delayed. For example, the box culvert construction at approximately station 536+00(+/-) where we are going to connect two existing box culverts creates issues for stream flow control during



construction. Phasing will have to be established to handle the water passing through the boxes during the construction. The water will have to be diverted to only one of the existing three barrels while the construction of the other two takes place. Then the water will have to be diverted back to the newly constructed barrels while the final section is built. The diversion of this water is the risk that will take the most consideration. The diversion of this water will have to take place upstream from the actual construction possibly outside of the anticipated footprint and the permitted area of this project on the north side of the West Bound Lanes, which makes this risk critical because of its possible impact to the permit and the right-of-way. Once the box culvert extension length or connections are determined, the permit sketches will be created for approval.

The impacts of this would affect the acquisition or modification to the permit and possibly create needed right-of-way acquisition for temporary easements. This would create devastating impacts to the project schedule delaying certain phases of the project if not identified during the proposal phase and handled properly during the design phase.



Mitigation of this risk will again have to start during the proposal phase of this project appropriately identifying possible impacts to the permit and right-of-way due to the construction of this box. True mitigation will be to engineer or create a way to construct the box without creating this impact or knowing that this impact is a foregone conclusion and planning appropriately for the necessary steps needed to work through all the requirements that this box culvert construction will require. Then the design phase with erosion and sediment control plans will be utilized to protect designated sensitive areas based on environmental permitting requirements. Finally, during the construction phase with erosion control devices will be installed for the project being continuously monitored and properly maintained throughout construction to ensure that no silt leaves the project. AECOM and W.C. English successfully permitted and constructed two crossings of the 100-year floodplain of a Little Tuckahoe tributary immediately upstream of the Little Tuckahoe Creek for the recently completed North Gayton Road Extension project.

Impacts to Existing Structures:



Impacts to existing structures will be very important during the risk analysis for this project. There are five existing bridge structures that cross over I64 within the project limits. Widening to the median in each direction will possibly encroach on the median piers on the Route 623 bridge, the median piers foundations and possibly the stems of the two bridges for

Route 288. The other two bridge structures both the newly constructed North Gayton Road bridge and the Pouncey Tract Road bridge appear to have no potential impact from this project. Impacts to the bridges listed above are critical because their impact will have detrimental effect on the project and could include high cost implications having to modify these



existing structures or to engineer ways to protect and avoid any alterations to the structures themselves. The scheduling impacts could be catastrophic because all intentions will be to avoid any construction to, or for the protection of the structures. Mitigating the impacts late in the design phase or during the construction would have an adverse impact to the schedule because it was not appropriately anticipated.

Mitigating strategies for these possible structure impacts will have to start during the proposal process and the design phase allowing appropriate understanding of the possible impacts to these structures and the likelihood of actual conflicts. The bridge piers for the Route 623 structure will have to be analyzed for clearance and either reconstructed or protected with an appropriate barrier. The piers for the Route 288 bridges will have to be analyzed to ensure that any possible fill placed on their foundations and possibly on the stems will have no impact on the structural integrity of those two structures and if it does, engineering design and analysis will have to create a cost effective solution to retain the fills from the piers eliminating the impact. The key to mitigating this issue is to understand its possibility and plan for it by working around it.





I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

Appendix - SOQ Checklist

ATTACHMENT 3.1.2

Addendum No. 1

Project: 0064-964-110, P101, C501, RW201

STATEMENT OF QUALIFICATIONS CHECKLIST AND CONTENTS

Offerors shall furnish a copy of this Statement of Qualifications (SOQ) Checklist, with the page references added, with the Statement of Qualifications.

Statement of Qualifications Component	Form (if any)	RFQ Cross reference	Included within 15-page limit?	SOQ Page Reference
Statement of Qualifications Checklist and Contents	Attachment 3.1.2	Section 3.1.2	no	A1-A3
Acknowledgement of RFQ, Revision and/or Addenda	Attachment 2.10 (Form C-78-RFQ)	Section 2.10	no	A4
Letter of Submittal (on Offeror's letterhead)				
Authorized Representative's signature	NA	Section 3.2.1	yes	3-4
Offeror's point of contact information	NA	Section 3.2.2	yes	3
Principal officer information	NA	Section 3.2.3	yes	3
Offeror's Corporate Structure	NA	Section 3.2.4	yes	3
Identity of Lead Contractor and Lead Designer	NA	Section 3.2.5	yes	3
Affiliated/subsidiary companies	Attachment 3.2.6	Section 3.2.6	no	A5
Debarment forms	Attachment 3.2.7(a) Attachment 3.2.7(b)	Section 3.2.7	no	A6-A15
Offeror's VDOT prequalification evidence	NA	Section 3.2.8	no	A16
Evidence of obtaining bonding	NA	Section 3.2.9	no	A17-A19

ATTACHMENT 3.1.2

Addendum No. 1

Project: 0064-964-110, P101, C501, RW201

STATEMENT OF QUALIFICATIONS CHECKLIST AND CONTENTS

Statement of Qualifications Component	Form (if any)	RFQ Cross reference	Included within 15-page limit?	SOQ Page Reference
Full size copies of SCC and DPOR registration documentation (appendix)	NA	Section 3.2.10	no	A20-A50
SCC Registration	3.2.10	Section 3.2.10.1	no	A22-A43
DPOR Registration (Offices)	3.2.10	Section 3.2.10.2	no	A44-A49
DPOR Registration (Key Personnel)	3.2.10	Section 3.2.10.3	no	A50
DPOR Registration (Non-APELSCIDLA)	3.2.10	Section 3.2.10.4	no	NA
DBE statement within Letter of Submittal confirming Offeror is committed to achieving the required DBE goal	NA	Section 3.2.11	yes	4
Offeror's Team Structure				
Identity of and qualifications of Key Personnel	NA	Section 3.3.1	yes	5
Key Personnel Resume – DB Project Manager	Attachment 3.3.1	Section 3.3.1.1	no	A51-A52
Key Personnel Resume – Quality Assurance Manager	Attachment 3.3.1	Section 3.3.1.2	no	A53-A54
Key Personnel Resume – Design Manager	Attachment 3.3.1	Section 3.3.1.3	no	A55-A56
Key Personnel Resume – Construction Manager	Attachment 3.3.1	Section 3.3.1.4	no	A57-A58
Organizational chart	NA	Section 3.3.2	yes	6
Organizational chart narrative	NA	Section 3.3.2	yes	7

ATTACHMENT 3.1.2

Addendum No. 1

Project: 0064-964-110, P101, C501, RW201

STATEMENT OF QUALIFICATIONS CHECKLIST AND CONTENTS

Statement of Qualifications Component	Form (if any)	RFQ Cross reference	Included within 15-page limit?	SOQ Page Reference
Experience of Offeror's Team				
Lead Contractor Work History Form	Attachment 3.4.1(a)	Section 3.4	no	A59-A61
Lead Designer Work History Form	Attachment 3.4.1(b)	Section 3.4	no	A62-A64
Project Risk				
Identify and discuss three critical risks for the Project	NA	Section 3.5.1	yes	10-13



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

Appendix - Form C-78-RFQ

APPENDIX -
FORM C-78-RFQ



ATTACHMENT 2.10

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

RFQ NO. C00070542DB55
PROJECT NO.: 0064-964-110, P101, C501, RW201

ACKNOWLEDGEMENT OF RFQ, REVISION AND/OR ADDENDA

Acknowledgement shall be made of receipt of the Request for Qualifications (RFQ) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Statement of Qualifications (SOQ) submission date shown herein. Failure to include this acknowledgement in the SOQ may result in the rejection of your SOQ.

By signing this Attachment 2.10, the Offeror acknowledges receipt of the RFQ and/or following revisions and/or addenda to the RFQ for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of RFQ 09/25/2012
(Date)
2. Cover letter of Addendum #1 - 11/01/2012
(Date)
3. Cover letter of _____
(Date)


SIGNATURE

11/15/12
DATE



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

Appendix - Affiliated & Subsidiary Companies

APPENDIX - AFFILIATED
& SUBSIDIARY COMPANIES



ATTACHMENT 3.2.6

State Project No. 0064-964-110, P101, C501, RW201

Affiliated and Subsidiary Companies of the Offeror

Offerors shall complete the table and include the addresses of affiliates or subsidiary companies as applicable. By completing this table, Offerors certify that all affiliated and subsidiary companies of the Offeror are listed.

- The Offeror does not have any affiliated or subsidiary companies.
- Affiliated and/or subsidiary companies of the Offeror are listed below.

Relationship with Offeror (Affiliate or Subsidiary)	Full Legal Name	Address
Shared Management & Related Ownership	English Construction Company, Inc.	PO Box P-7000, Lynchburg, VA 24505
Shared Management & Related Ownership	Counts & Dobyns	37 Leland Rd, Rustburg, VA 24588
90% Ownership	Thomas Bros., LLC	494 Glenmore Drive, Salem, VA 24153
100% Ownership	Lee Construction Company of the Carolinas, Inc.	PO Box 7667, Charlotte, NC 28241
100% Ownership	MCC Acquisition, LC	PO Box 568, South Boston, VA 24592
Beverley E. Dalton (Sole stockholder of W. C. English, Incorporated) and A. Douglas Dalton, Jr., (stockholder of English Construction Company) own 99.15%	Adams Construction Company	PO Box 12627, Roanoke, VA 24027



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

Appendix - Debarment Forms

APPENDIX -
DEBARMENT FORMS



ATTACHMENT NO. 3.2.7(a)

**CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and

d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.


Signature

November 15, 2012
Date

Wilson L. Dickerson, Jr., PE
Senior Vice President
Title

W. C. English, Incorporated
Name of Firm

ATTACHMENT NO. 3.2.7(b)

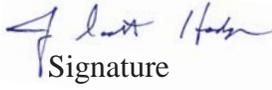
**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

November 6, 2012

Date

Senior Vice President

Title

AECOM Technical Services, Inc.

Name of Firm

ATTACHMENT NO. 3.2.7(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	November 5, 2012	President
Signature	Date	Title

Athavale, Lystad & Associates, Inc.
Name of Firm

ATTACHMENT NO. 3.2.7(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Gu. Khadher 11/06/12 VICE-PRESIDENT
Signature Date Title

CES CONSULTING LLC
Name of Firm

ATTACHMENT NO. 3.2.7(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Kimberly G. Prochly November 2, 2012 First Executive Vice President
Signature Date Title

EBA Engineering, Inc.
Name of Firm

ATTACHMENT NO. 3.2.5(b)

CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: A DESIGN-BUILD PROJECT
I-64 Widening and Route 623 Interchange Improvements

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

November 5, 2012

Date

Vice President Business Development

Title

InfraMap Corp.

Name of Firm

ATTACHMENT NO. 3.2.7(b)

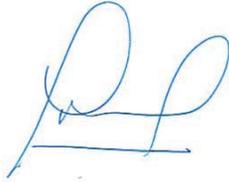
**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

November 7, 2012

Date

President

Title

NXL Construction Services, Inc.

Name of Firm

ATTACHMENT NO. 3.2.7(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

<u>Edward G. Drakos</u>	<u>11-01-12</u>	<u>Principal</u>
Signature	Date	Title

Schnabel Engineering Consultants, Inc.
Name of Firm

ATTACHMENT NO. 3.2.7(b)

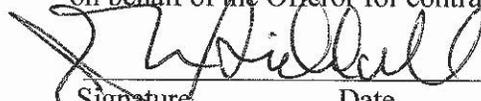
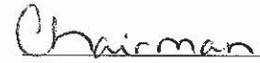
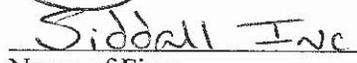
**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

 _____ Signature	 _____ Date	 _____ Title
 _____ Name of Firm		

ATTACHMENT NO. 3.2.7(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0064-964-110, P101, C501, RW201

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	October 18, 2012	Vice President
Signature	Date	Title
ECS Mid-Atlantic, LLC		
Name of Firm		



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

Appendix - VDOT Prequalification Certificate





COMMONWEALTH OF VIRGINIA



CERTIFICATE OF QUALIFICATION

W. C. ENGLISH, INCORPORATED

Vendor Number: **E009**

In accordance with the Regulations of the Virginia Department of Transportation, you are hereby notified that the following Rating and Classifications have been assigned to your firm:

Prequalified

Work Classes: GRADING; MAJOR STRUCTURES; MINOR STRUCTURES

Issue Date: 04/30/2012

This Rating and Classification will Expire: 04/30/2013

Suzanne H. Lucas
Suzanne FR Lucas Prequalification Officer

Don E. Sillies
Don E. Sillies, State Contract Officer



**I-64 Widening and Route 623 Interchange Improvements
Goochland County and Henrico County, Virginia**

Appendix - Surety Letter





St. Paul Travelers Bond
300 Arboretum Parkway, #390
Richmond, VA 23236
Phone: (877) 828-4140
Fax: (804) 330-6880

November 15, 2012

Commonwealth of Virginia
Department of Transportation (VDOT)
1401 East Broad Street
Richmond, Virginia 23219
Attention: Brenda L. Williams

REF: REQUEST FOR QUALIFICATIONS A DESIGN-BUILD PROJECT

I-64 Widening and Route 623 Interchange Improvements
From: 0.99 Miles West of Route 623 (WB – Route 622, EB – Route 623)
To: 0.38 Miles West Route 271 (Pouncey Tract Road) in Short Pump
Goochland County and Henrico County, Virginia
State Project No.: 0064-964-110, P101, C501, B610-B614, B617, B616, D601-D606
Federal Project No.: NH-064-2(150)
Contract ID Number: C00070542DB55

To Whom It May Concern:

W. C. English, Incorporated has been a valued client of Travelers Casualty and Surety Company of America for over sixty years. During that time, we have maintained a working line of surety credit and have supported single bond requests up to the \$125,000,000. range and aggregate programs up to the \$500,000,000. range. These levels reflect our history with this client; however, they are not to be construed as limits. Given W. C. English, Incorporated extensive experience and financial strength, we are certainly prepared to consider requests well in excess of these levels.

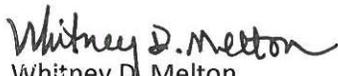
W. C. English, Incorporated is capable of obtaining a 100% Performance Bond and 100% Labor and Materials Payment Bond in the amount of the anticipated cost of construction and said bonds will cover the Project and any warranty periods on behalf of the Contractor, in the event that such firm be the successful bidder and enter into a contract for this project.

Travelers Casualty and Surety Company of America is licensed to transact surety business in all 50 states and is listed on the United States Department of Treasury list of acceptable surety companies. Travelers Casualty and Surety Company of America carries an A.M. Best rating of A+ and has a Financial Size Category of XV. The information contained in this letter is valid for a period of three (3) months from date of this letter.

Please feel free to contact us if you have any questions.

Sincerely,

TRAVELERS CASUALTY & SURETY COMPANY OF AMERICA


Whitney D. Melton
Attorney-in-Fact

WDM/sll
Power of Attorney Attached

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 213509

Certificate No. 004666563

KNOW ALL MEN BY THESE PRESENTS: That St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company and St. Paul Mercury Insurance Company are corporations duly organized under the laws of the State of Minnesota, that Farmington Casualty Company, Travelers Casualty and Surety Company, and Travelers Casualty and Surety Company of America are corporations duly organized under the laws of the State of Connecticut, that United States Fidelity and Guaranty Company is a corporation duly organized under the laws of the State of Maryland, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Whitney D. Melton, and Frances M. Saunders

of the City of Altavista, State of Virginia, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

22nd

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this December 2011 day of

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
George W. Thompson, Senior Vice President

On this the 22nd day of December, 2011, before me personally appeared George W. Thompson, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

58440-6-11Printed in U.S.A.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 15th day of November, 2012.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

Appendix - SCC & DPOR Information Tables

APPENDIX -
SCC & DPOR



ATTACHMENT 3.2.10
State Project No. 0064-964-110, P101, C501, RW201

SCC and DPOR Information

Offerors shall complete the table and include the required state registration and licensure information. By completing this table, Offerors certify that their team complies with the requirements set forth in Section 3.2.10 and that all businesses and individuals listed are active and in good standing.

Business Name	SCC Information (3.2.10.1)			DPOR Information (3.2.10.2)			
	SCC Number	SCC Type of Corporation	SCC Status	DPOR Registered Address	DPOR Registration Type	DPOR Registration Number	DPOR Expiration Date
W. C. English, Inc.	00689448	Corporation	Active	615 Church Street, Lynchburg, VA 24504	Business/ Contractor (Class A)	2701003331	4-30-2014
AECOM Technical Services, Inc.	F1078502	Corporation	Active	4840 Cox Road, Glen Allen, VA 23060	Business	0407003153	12-31-2013
AECOM Technical Services, Inc.	F1078502	Corporation	Active	1315 Franklin Road, Roanoke, VA 24016	Business	0411000681	2-28-2014
AECOM Technical Services, Inc.	F1078502	Corporation	Active	440 Monticello Ave., Norfolk, VA 23510	Business	0411000679	2-28-2014
Athavale, Lystad & Associates, Inc.	F0605842	Corporation	Active	8180 Greensboro Drive, #550, McLean, VA 22102	Business	0407002804	12-31-2013
NXL Construction Co., Inc.	03497427	Corporation	Active	114 E Cary St. Suite 200, Richmond, VA 23219	Business	0407003031	12-31-2013
Schnabel Engineering Consultants, Inc.	07126741	Corporation	Active	One Cary Street, Richmond, VA 23220	Business	0411000700	2-28-2014
InfraMap Corp.	F1055252	Corporation	Active	10365 Cedar Lane, Glen Allen, VA 23059	Business	0407003343	12-31-2013
Siddal, Inc.	01619022	Corporation	Active	NA	NA	NA	NA
CES Consulting, LLC	S3416007	Limited Liability Company	Active	15709 Spyglass Hill Loop, Gainesville, VA 20155	Business	0407005783	12-31-2013
EBA Engineering, Inc.	F1239005	Corporation	Active	714 Westwood Office Park, Fredericksburg, VA 22401	Business	0411000871	2-28-2014
ECS Mid-Atlantic, LLC	S1208216	Limited Liability Company	Active	2119-D North Hamilton St, Richmond, VA 23230	Business	0411000384	2-28-2014

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF THE
STATE CORPORATION COMMISSION

CITY OF RICHMOND

April 6, 1954

NOTICE OF ISSUING AND CERTIFICATION OF
charter of W. C. English, Incorporated

to be recorded in the office of the State Corporation Commission
and where necessary certified to the clerk of the proper court
for recording in his office.

Papers covering the above specified application having
been duly considered by the Commission, and it being found that
all the requirements of law have been complied with, the
Commission has this day ordered the same to be admitted to record
in this office.

Enclosed herewith you will find receipt of the
State Corporation Commission for charter fee (if any required on
this application), \$5.00 for costs in this office, and recording
fee. Where necessary to be recorded by a court clerk, such
clerk will receipt to you direct for his fee.

Your attention is called to blanks and circulars pre-
pared by the Commission and enclosed herewith for the use of
the corporation, as specified below in paragraphs against which
is marked upon the margin the typewritten letter "X":

X { A blank prepared under the provisions of Section
167 of the Constitution of Virginia and Section
13-97, Code of Virginia, 1950, upon which a state-
ment of the financial plan of stock to be issued
should be made and lodged with the Commission, and
acknowledgment thereof received by the corporation
from the Commission, before any stock is actually
issued.

X { A blank for report pursuant to Sections 13-9, and
13-32 Code of Virginia, 1950, with the law printed
upon the back of the blank, requiring same to be
made to the Commission upon the organization of the
corporation, and within thirty days after the time
appointed for the election of officers and direc-
tors, annually thereafter. This report must be filed
as soon as the corporation is organized, whether the
officers or directors, as shown in the charter, are
changed or not.

{ There is also enclosed Circular No. 5, giving in
full Section 13-12, Code of Virginia, 1950, and where
all officers and directors of the corporation, as
shown in the charter, are non-residents of the city
or county in which the principal office of the cor-
poration is to be located, blanks in duplicate are
also enclosed for the written power of attorney re-
quired to be executed and filed in accordance with
the above mentioned section before the corporation
commences business.

Mr. W. Barney Arthur
Attorney at Law
Altavista, Virginia



Clerk of the Commission.

CERTIFICATE OF INCORPORATION
 OF
 W. C. ENGLISH, INCORPORATED

To The State Corporation Commission
 Commonwealth of Virginia

This is to certify that we, the undersigned, desire to, and hereby do associate to establish a corporation, under the provisions and subject to the requirements of the law for such cases made and provided, and we, by this our certificate of incorporation set forth as follows:

(a) The name of the corporation is to be W. C. English, Incorporated.

(b) The principal office in this State is to be in Altavista, Campbell County.

(c) The purposes for which it is formed are as follows:

- (1) To make, enter into, perform and carry out contracts for building, erecting, improving, constructing, altering, repairing, decorating, finishing and furnishing houses, buildings, warehouses, store-rooms, edifices, works, roads, tenements and structures of every kind and description; to carry on in all their respective branches the businesses of builders, contractors, decorators and such other trades and businesses as pertain or are connected with the general business of building and construction.
- (2) To take over, acquire, purchase, own, sell, lease, hire, hold, control, manage, maintain and operate quarries, brick-yards, lime-kilns, refineries, asphalt, cement and plaster mills, lumber yards, timber lands, saw mills, glass, metal and woodworking plants, pulp and paper mills, furnaces, factories and establishments for the manufacture, preparation and production of building supplies, material, furnishings, decorations and furniture; and to buy, sell and generally deal in and with all such articles and materials.
- (3) To buy, sell, exchange, mortgage, lease, improve, farm, manage, operate, build, construct, maintain, or otherwise dispose of any property, real or personal, of all kinds and descriptions; to make and obtain loans upon real estate, improved and unimproved, and to take mortgages and assignments of mortgages upon the same, and to supervise, manage, and protect such property and loans, and all interests and claims affecting the same.
- (4) To carry on and conduct a general contracting business, including the constructing, enlarging, repairing, remodeling or otherwise engaging in any work upon buildings, roads, side walks, water lines, power lines, highways, bridges, or manufacturing plants; and to engage in iron, steel, wood, brick, concrete, stone, cement, masonry and earth construction, and to execute contracts or to receive assignments of contracts therefor, or relating thereto; also to manufacture and furnish the building materials and supplies connected herewith.

(5) To do all and everything necessary, suitable and proper for the accomplishment of any of the purposes or attainment of any of the objects or the furtherance of any of the powers hereinbefore mentioned, either alone or in association with any other corporations, firms or individuals, and to do every other act or acts, thing or things, incidental or appurtenant to or growing out of or connected with the aforesaid business or powers or any part or parts thereof, provided the same be not inconsistent with the laws under which this corporation is organized.

(d) The capital stock of the corporation is to consist of no par value shares, the maximum number of shares to be issued is to be one hundred and fifty (150), and the minimum number of shares to be issued is to be fifty (50).

(e) The period for the duration of the corporation is unlimited.

(f) The names and residences of the officers and directors who unless sooner changed by the stockholders, are for the first year to manage the affairs of the corporation, are as follows:

<u>OFFICERS</u>	<u>OFFICES</u>	<u>RESIDENCES</u>
W. Curtis English	President	Altavista, Va.
Louise T. English	Vice-President	Altavista, Va.
Helen F. Myers	Secretary-Treasurer	Altavista, Va.

<u>DIRECTORS</u>	<u>RESIDENCES</u>
W. Curtis English	Altavista, Va.
Louise T. English	Altavista, Va.
Helen F. Myers	Altavista, Va.

(g) The amount of real estate to which its holdings at any time are to be limited is 1000 acres.

Given under our hands this ___ day of _____, 1954.

W. English

STATE OF VIRGINIA,

COUNTY OF CAMPBELL, to-wit:

I, _____, a Notary Public of and for the County and State aforesaid, do certify that W. CURTIS ENGLISH, LOUISE T. ENGLISH and HELEN F. MYERS, whose names are signed to the writing above, bearing date on the ___ day of _____, 1954, have acknowledged the same before me in Campbell County.

Given under my hand this ___ day of _____, 1954.

My commission expires _____.

Notary Public



Commonwealth of Virginia
State Corporation Commission

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Business Entities

UCC or Tax Liens

Court Services

Additional Services

W. C. ENGLISH, INCORPORATED

General

SCC ID: 00689448
Entity Type: Corporation
Jurisdiction of Formation: VA
Date of Formation/Registration: 4/6/1954
Status: Active
Shares Authorized: 6000

Principal Office

615 CHURCH STREET
PO BOX P7000
LYNCHBURG VA24505

Registered Agent/Registered Office

JAMES P KENT JR
525 7TH STREET
ALTAVISTA VA 24517
CAMPBELL COUNTY 115
Status: Active
Effective Date: 3/15/2005

Commonwealth OF Virginia



State Corporation Commission

CERTIFICATE OF GOOD STANDING

I Certify the Following from the Records of the Commission:

That AECOM Technical Services, Inc., a corporation incorporated under the law of California, is authorized to transact business in the Commonwealth of Virginia;

That it obtained a certificate of authority to transact business in Virginia from the Commission on July 2, 1991; and

That the corporation is in good standing in the Commonwealth of Virginia as of the date set forth below.

Nothing more is hereby certified.



Signed and Sealed at Richmond on this Date:

June 4, 2012

Joel H. Peck

Joel H. Peck, Clerk of the Commission



Commonwealth of Virginia
State Corporation Commission

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Business Entities

UCC or Tax Liens

Court Services

Additional Services

AECOM Technical Services, Inc.

General

SCC ID: F1078502
Entity Type: Foreign Corporation
Jurisdiction of Formation: CA
Date of Formation/Registration: 7/2/1991
Status: Active
Shares Authorized: 2500

Principal Office

515 S. FLOWER ST.
SUITE 1050
LOS ANGELES CA90071

Registered Agent/Registered Office

CT CORPORATION SYSTEM
4701 COX RD STE 301
GLEN ALLEN VA 23060
HENRICO COUNTY 143
Status: Active
Effective Date: 1/5/2004

Commonwealth of Virginia



State Corporation Commission

I Certify the Following from the Records of the Commission:

ATHAVALA, LYSTAD & ASSOCIATES, INC., a corporation existing under the laws of MARYLAND, holds a certificate of authority to transact business in Virginia, and is in good standing.

The certificate was issued on March 02, 1989.

Nothing more is hereby certified.



*Signed and Sealed at Richmond on this Date:
August 24, 2009*

Joel H. Peck

Joel H. Peck, Clerk of the Commission



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 - Additional Services**

ATHAVALLE, LYSTAD & ASSOCIATES, INC.

General

SCC ID: F0605842
Entity Type: Foreign Corporation
Jurisdiction of Formation: MD
Date of Formation/Registration: 3/2/1989
Status: Active
Shares Authorized: 1000

Principal Office

8180 GREENSBORO DR STE 550
MCLEAN VA22102

Registered Agent/Registered Office

REES BROOME, PC
1900 GALLOWS RD STE 700
TYSONS CORNER VA 22182
FAIRFAX COUNTY 129
Status: Active
Effective Date: 9/1/2012

Commonwealth of Virginia



STATE CORPORATION COMMISSION

Richmond, October 14, 2010

This is to certify that the certificate of organization of

**Construction Engineering & Scheduling Consulting
Engineers, PLC**

*was this day issued and admitted to record in this office and that
the said limited liability company is authorized to transact its
business subject to all Virginia laws applicable to the company
and its business. Effective date: October 14, 2010*



State Corporation Commission

Attest:

Joel H. Beck
Clerk of the Commission



Commonwealth of Virginia
State Corporation Commission

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- Court Services**
- Additional Services**

CES Consulting, LLC

General

SCC ID: S3416007
Entity Type: Limited Liability Company
Jurisdiction of Formation: VA
Date of Formation/Registration: 10/14/2010
Status: Active

Principal Office

5771 JANNEYS MILL
HAYMARKET VA20169

Registered Agent/Registered Office

AVTAR SINGH
15709 SPYGLASS HILL LOOP
GAINESVILLE VA 20155
PRINCE WILLIAM COUNTY 176
Status: Active
Effective Date: 12/28/2011

Commonwealth of Virginia



STATE CORPORATION COMMISSION

Richmond, January 2, 1996

This is to certify that a certificate of authority to transact business in Virginia was this day issued and admitted to record in this office for

EBA Engineering, Inc.

a corporation organized under the laws of MARYLAND
and that the said corporation is authorized to transact business in Virginia, subject to all Virginia laws applicable to the corporation and its business.



State Corporation Commission

Attest:

William J. Bridge

Clerk of the Commission



Commonwealth of Virginia
State Corporation Commission

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- Court Services**
- Additional Services**

EBA Engineering, Inc.

General

SCC ID: F1239005
Entity Type: Foreign Corporation
Jurisdiction of Formation: MD
Date of Formation/Registration: 10/22/1997
Status: Active
Shares Authorized: 1000000

Principal Office

4813 SETON DRIVE
BALTIMORE MD21215

Registered Agent/Registered Office

CT CORPORATION SYSTEM
4701 COX RD STE 301
GLEN ALLEN VA 23060
HENRICO COUNTY 143
Status: Active
Effective Date: 1/5/2004

Commonwealth OF Virginia



State Corporation Commission

I Certify the Following from the Records of the Commission:

InfraMap Corp., a corporation incorporated under the laws of DELAWARE is authorized to transact business in Virginia and is in good standing. It obtained a certificate of authority from the Commission on October 22, 1990.

Nothing more is hereby certified.



*Signed and Sealed at Richmond on this Date:
August 19, 2010*

Joel H. Peck

Joel H. Peck, Clerk of the Commission



Commonwealth of Virginia
State Corporation Commission

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Business Entities

UCC or Tax Liens

Court Services

Additional Services

InfraMap Corp.

General

SCC ID: F1055252
Entity Type: Foreign Corporation
Jurisdiction of Formation: DE
Date of Formation/Registration: 10/22/1990
Status: Active
Shares Authorized: 1500

Principal Office

10365 CEDAR LANE
GLEN ALLEN VA23059

Registered Agent/Registered Office

PAUL HAYES
10365 CEDAR LANE
GLEN ALLEN VA 23059
HANOVER COUNTY 142
Status: Active
Effective Date: 9/4/1998

Commonwealth of Virginia



State Corporation Commission

I Certify the Following from the Records of the Commission:

A duly attested copy of a certificate setting forth that NXL Construction Co., Inc. conducts business in Virginia under the assumed or fictitious name of NXL CONSTRUCTION SERVICES, INC. was filed in the Clerk's Office of the Commission on September 16, 1992.

Nothing more is hereby certified.



*Signed and Sealed at Richmond on this Date:
July 29, 2009*

Joel H. Peck
Joel H. Peck, Clerk of the Commission



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NXL Construction Co., Inc.

General

SCC ID: 03497427
Entity Type: Corporation
Jurisdiction of Formation: VA
Date of Formation/Registration: 11/17/1989
Status: Active
Shares Authorized: 5000

Principal Office

114 E CARY STREET SUITE 200
RICHMOND VA23219

Registered Agent/Registered Office

NICOMEDES L DE LEON
9606 GEORGE'S BLUFF RD
RICHMOND VA 23229
HENRICO COUNTY 143
Status: Active
Effective Date: 10/8/1998

Commonwealth of Virginia



State Corporation Commission

I Certify the Following from the Records of the Commission:

Schnabel Engineering Consultants, Inc. is a corporation existing under and by virtue of the laws of Virginia, and is in good standing.

The date of incorporation is August 12, 2009.

Nothing more is hereby certified.



*Signed and Sealed at Richmond on this Date:
November 17, 2009*

Joel H. Peck
Joel H. Peck, Clerk of the Commission



Commonwealth of Virginia
State Corporation Commission

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- Additional Services**

Schnabel Engineering Consultants, Inc.

General

SCC ID: 07126741
Entity Type: Corporation
Jurisdiction of Formation: VA
Date of Formation/Registration: 8/12/2009
Status: Active
Shares Authorized: 10000

Principal Office

1054 TECHNOLOGY PARK DR
GLEN ALLEN VA23059

Registered Agent/Registered Office

CT CORPORATION SYSTEM
4701 COX RD STE 301
GLEN ALLEN VA 23060
HENRICO COUNTY 143
Status: Active
Effective Date: 6/16/2011

Commonwealth of Virginia



State Corporation Commission

I Certify the Following from the Records of the Commission:

Siddall, Inc. is a corporation existing under and by virtue of the laws of Virginia, and is in good standing.

The date of incorporation is September 30, 1975.

I further certify that the following is a list of all documents constituting the charter of Siddall, Inc. as of this date.

ARTICLES OF INCORPORATION	September 30, 1975
ARTICLES OF AMENDMENT	January 09, 1976
ARTICLES OF AMENDMENT	October 18, 1984
ARTICLES OF MERGER	March 30, 1988
ARTICLES OF AMENDMENT	August 10, 1998
ARTICLES OF AMENDMENT	February 26, 2001

Nothing more is hereby certified

*Signed and Sealed at Richmond on this Date:
May 10, 2001*



Joel H. Peck
Joel H. Peck, Clerk of the Commission



Commonwealth of Virginia
State Corporation Commission

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 - Additional Services**

Siddall, Inc.

General

SCC ID: 01619022
Entity Type: Corporation
Jurisdiction of Formation: VA
Date of Formation/Registration: 9/30/1975
Status: Active
Shares Authorized: 150000

Principal Office

830 E MAIN STREET 24TH FLOOR
RICHMOND VA23219

Registered Agent/Registered Office

BETTINA A RODA
ONE CAPITOL SQ
830 E MAIN ST 24TH FL
RICHMOND VA 23219
RICHMOND CITY 216
Status: Active
Effective Date: 8/2/2005

Commonwealth of Virginia



STATE CORPORATION COMMISSION

Richmond, April 16, 2004

This is to certify that the certificate of organization of

**Engineering Consulting Services - Mid-Atlantic,
LLC**

was this day issued and admitted to record in this office and that the said limited liability company is authorized to transact its business subject to all Virginia laws applicable to the company and its business. Effective date: April 16, 2004



State Corporation Commission

Attest:

Joel H. Peck
Clerk of the Commission



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- Court Services**
- Additional Services**

ECS - Mid-Atlantic, LLC

General

SCC ID: S1208216
Entity Type: Limited Liability Company
Jurisdiction of Formation: VA
Date of Formation/Registration: 4/16/2004
Status: Active

Principal Office

14026 THUNDERBOLT PL STE 100
CHANTILLY VA20151

Registered Agent/Registered Office

JAMES A ECKERT
14026 THUNDERBOLT PL STE 100
CHANTILLY VA 20151
FAIRFAX COUNTY 129
Status: Active
Effective Date: 4/16/2004

**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA**

EXPIRES ON
04-30-2014

NUMBER
2701003331

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

BOARD FOR CONTRACTORS
CLASS A CONTRACTOR
CLASSIFICATIONS BLD H/H

W C ENGLISH INC
PO BOX P-7000
LYNCHBURG, VA 24505



Gordon N. Dixon
Gordon N. Dixon, Director

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**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA**

EXPIRES ON
12-31-2013

NUMBER
0407003153

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY REGISTRATION

PROFESSIONS: ENG

AECOM TECHNICAL SERVICES INC
4840 COX ROAD
GLEN ALLEN, VA 23060



Gordon N. Dixon
Gordon N. Dixon, Director

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**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA**
9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

**EXPIRES ON
02-28-2014**

**NUMBER
0411000681**

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY BRANCH OFFICE REGISTRATION

PROFESSIONS: LS, ENG

AECOM TECHNICAL SERVICES INC
1315 FRANKLIN ROAD, SW
ROANOKE, VA 24016



Gordon N. Dixon, Director

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**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA**
9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

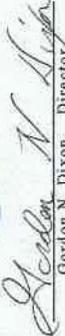
**EXPIRES ON
02-28-2014**

**NUMBER
0411000679**

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY BRANCH OFFICE REGISTRATION

PROFESSIONS: ENG, ARC

AECOM TECHNICAL SERVICES INC
1500 WELLS FARGO CENTER
440 MONTICELLO AVE
NORFOLK, VA 23510



Gordon N. Dixon, Director

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION

COMMONWEALTH OF VIRGINIA

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2013

NUMBER
0407002804

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY REGISTRATION

PROFESSIONS: ENG

ATHAVALLE, LYSTAD AND ASSOCIATES INC
8180 GREENSBORO DRIVE
#550
MCLEAN, VA 22102



Gordon N. Dixon
Gordon N. Dixon, Director

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION

COMMONWEALTH OF VIRGINIA

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2013

NUMBER
0407005783

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY REGISTRATION

PROFESSIONS: ENG

CES CONSULTING LLC
15709 SPYGLASS HILL LOOP
GAINESVILLE, VA 20155



Gordon N. Dixon
Gordon N. Dixon, Director

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**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA**

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
02-28-2014

NUMBER
0411000871

**BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY BRANCH OFFICE REGISTRATION**

PROFESSIONS: ENG

EBA ENGINEERING INC
714 WESTWOOD OFFICE PARK
FREDERICKSBURG, VA 22401



Gordon N. Dixon
Gordon N. Dixon, Director

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**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA**

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2013

NUMBER
0407003343

**BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY REGISTRATION**

PROFESSIONS: ENG, LS

INFRAMAP CORP
10365 CEDAR LANE
GLEN ALLEN, VA 23059



Gordon N. Dixon
Gordon N. Dixon, Director

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION

COMMONWEALTH OF VIRGINIA

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2013

NUMBER
0407003031

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY REGISTRATION

PROFESSIONS: ENG, LS

NXL CONSTRUCTION CO INC
NXL CONSTRUCTION SERVICES INC
114 E CARY ST STE 200
RICHMOND, VA 23219



Gordon N. Dixon
Gordon N. Dixon, Director

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION

COMMONWEALTH OF VIRGINIA

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

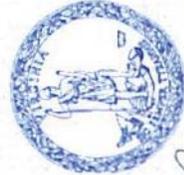
EXPIRES ON
02-28-2014

NUMBER
0411000700

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY BRANCH OFFICE REGISTRATION

PROFESSIONS: ENG

SCHNABEL ENGINEERING CONSULTANTS, INC
ONE CARY STREET
RICHMOND, VA 23220



Gordon N. Dixon
Gordon N. Dixon, Director

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION

COMMONWEALTH OF VIRGINIA

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
02-28-2014

NUMBER
0411000384

**BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS**

PROFESSIONS: ENG

BUSINESS ENTITY BRANCH OFFICE REGISTRATION

**ECS MID-ATLANTIC LLC
2119-D NORTH HAMILTON ST
RICHMOND, VA 23230**



Gordon N. Dixon
Gordon N. Dixon, Director

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**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA**
9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
07-31-2013

NUMBER
0402015755

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
PROFESSIONAL ENGINEER LICENSE

JACK SCOTT HODGE
2021 CANTLE LANE
ROANOKE, VA 24018



Gordon N. Dixon
Gordon N. Dixon, Director

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**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA**
9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
01-31-2013

NUMBER
0402035169

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
PROFESSIONAL ENGINEER LICENSE

AVTAR SINGH
15709 SPYGLASS HILL LOOP
GAINESVILLE, VA 20155



Gordon N. Dixon
Gordon N. Dixon, Director

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I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

Appendix - Key Personnel Resumes Forms

APPENDIX - KEY
PERSONNEL RESUMES



ATTACHMENT 3.3.1

KEY PERSONNEL RESUME FORM

Brief Resume of Key Personnel anticipated for the Project.
a. Name & Title: Judson H. Dalton, Project Manager
b. Project Assignment: Design-Build Project Manager
c. Name of Firm with which you are now associated: W. C. English, Incorporated
d. Years experience: With this Firm <u>10</u> Years With Other Firms <u>0</u> Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen(15) years. (NOTE: If you have less than 15 years of experience, please list all of your experience for those years you have worked.): 2001 – 2002..... Grade Checker/Foreman.....W. C. English, Incorporated 2003 – 2004..... Asst. Construction Manager.....W. C. English, Incorporated 2005 – 2006Construction Manager.....W. C. English, Incorporated 2007.....Asst. Construction.....W. C. English, Incorporated 2008 – Present.....Project Manager.....W. C. English, Incorporated
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization: Bachelor of Arts – Randolph Macon College 2001, Business & Economics
f. Active Registration: Year First Registered/ Discipline/VA Registration #: LEED Certification #10382156
g. Document the extent and depth of your experience and qualifications relevant to the Project. 1. <i>Note your specific responsibilities and authorities for each assignment, not those of the firm.</i> 2. <i>Note whether experience is with current firm or with other firm.</i> 3. <i>Provide beginning and end dates for each assignment.</i> (List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.) <u>Project:</u> North Gayton Rd., Richmond, VA - Project consists of the design and construction of 8,000' of divided highway from Rt. 250 to Pouncey Tract Road including 2 conspans and 1 bridge across I-64. It also includes rebuilding 1000' of Shady Grove Rd form Pouncey Tract to Twin Hickory. <u>Name of Firm:</u> W. C. English, Incorporated <u>Start Date:</u> 2007 (design phase) 2009 (construction phase) <u>Finish Date:</u> 2012 <u>Project Role:</u> Design Build Project Manager <u>Responsibilities:</u> Supervise personnel/equipment usage for self -performed work, coordinate subcontractors, coordinate private utility relocations, coordinate right-of-way acquisition, coordinate permit requirements, coordinate all QA/QC requirements and personnel and application, plan/coordinate project progress meetings, plan events with owner, inspectors, and engineers. <u>Project:</u> APM Terminals, Portsmouth, VA - 260 Acre site development for a container handling facility which includes excavation, storm piping, water, sewer, electrical, stone, asphalt and concrete paving and a rail system for cranes. <u>Name of Firm:</u> W. C. English, Incorporated <u>Start Date:</u> 2005 <u>Finish Date:</u> 2007 <u>Project Role:</u> Construction Manager <u>Responsibilities:</u> Supervise personnel/equipment usage for self-performed work, coordinate subcontractors, plan/coordinate project progress meetings, plan/coordinate with inspectors and engineers. W. C. English was the prime contractor for APM Terminals.

- g. Document the extent and depth of your experience and qualifications relevant to the Project.
- a. *Note your specific responsibilities and authorities for each assignment, not those of the firm.*
 - b. *Note whether experience is with current firm or with other firm.*
 - c. *Provide beginning and end dates for each assignment.*

(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.) (CONTINUED)

Project: Cowan Blvd., Fredericksburg, VA - The project extends the roadway in both directions as a four-lane divided highway connecting to Jefferson Davis Highway (US-1 Bypass) to the east and Carl D. Silver Parkway to the west. The work was done in three separate sections:

- From the intersection of Central Park Boulevard and Carl D. Silver Parkway
- In the median of I-95 building the bridge in both directions
- On Cowan Boulevard from I-95 to Route 1

The project had 194,000 CY of excavation, a major bridge across I-95, a large conspan with a pedestrian trail and bridge, and two signalized intersections. It also included replacing a 12-inch water line which paralleled the roadway. English also had to work with an elementary school adjacent to the project to provide proper and safe access for the students.

Name of Firm: W. C. English, Incorporated

Start Date: 2002 **Finish Date:** 2005

Project Role: Assistant Construction Managert

Responsibilities: Supervise personnel/equipment usage for self-performed work, coordinate subcontractors, plan/coordinate project progress meetings, plan events with DOT inspectors and engineers. W. C. English was the prime contractor for VDOT.

Project: 895 Connector Project, Henrico County, VA - This was the first PPTA project initiated in the State of Virginia and had a very aggressive schedule. English’s work consisted of building eight miles of roadway which had ten major drainage structures, 3,200,000 CY of grading, 450,000 tons of stone and asphalt, and 14 bridges with 1,260,000 SF of MSE Walls. English was responsible for rebuilding the interchange of Chippenham Parkway (Route 150) and I-95 to include the connection with the 895 connector, and then continuing the 895 connector to the tie-in with Route 295.

Name of Firm: W. C. English, Incorporated

Start Date: 1998 **Finish Date:** 2002

Project Role: Grade Checker/Foreman

Responsibilities: Supervise personnel/equipment usage for self-performed work, coordinate subcontractors. W. C. English was a subcontractor for FD/MK who was the prime contractor for VDOT.

ATTACHMENT 3.3.1

KEY PERSONNEL RESUME FORM

Brief Resume of Key Personnel anticipated for the Project.	
a. Name & Title:	Avtar Singh, PE, CCM, PMP – Quality Assurance Manager
b. Project Assignment:	Quality Assurance Manager
c. Name of Firm with which you are now associated:	CES Consulting, LLC
d. Years experience: With this Firm <u>2</u> Years With Other Firms <u>17</u> Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen(15) years. (NOTE: If you have less than 15 years of experience, please list all of your experience for those years you have worked.):	<p><u>CES Consulting LLC, Construction Manager</u> (December 2010 to Present) Consulting construction manager in charge of multiple paving contracts for Fairfax Maintenance. Manage staff of inspectors, ensure that all work is completed per VDOT contract and specifications, ensure all work is inspected, tested and documented per VDOT processes. Ensure that all material testing of all installed work is carried out per VDOT Materials section guidelines. Provide construction solutions to field issues; draft all project correspondence, work orders and day to day project management.</p> <p><u>VDOT, Responsible Charge Engineer</u> (January 2005 to December 2010) Provide “Responsible Charge” authority as defined under Virginia Law (over 25 projects and over \$230 million in construction contracts). Provide professional bridge and highway engineering guidance during construction and design of numerous projects, technical solutions to design problems. Review bridge/highway contract plans for constructability methods and specifications. Review contractor engineering submittals and schedules for logic, resources and compliance with VDOT specifications and standard design guidelines. Provide management, mentoring and training to VDOT managers and inspectors on construction management, safety, environmental, and bridge/highway inspection. Continual reviews of processes to ensure necessary changes are made to ensure quality inspection, testing and documentation. Provide lessons learned (design and contract) to designers to prevent similar issues re-surfacing on future projects.</p> <p><u>NXL Construction Service, Project Engineer</u> (August 1998 to December 2004) Carried out project management, field inspections, responsible charge professional engineering services, construction contract management and training to project teams to meet scope, budget and schedule on multiple projects throughout the Commonwealth. Reviewed contract plans for constructability methods and modifications. Provided construction solutions to mitigate multiple construction conflicts. Reviewed shop drawings for compliance with VDOT specifications. Reviewed schedule for logic, resources, constructability and carry out schedule impact analysis. Responsible for drafting all project correspondence & ongoing project status. Reviewed contractor claims and work orders, drafted and maintained project documentation for claims as required by VDOT/FHWA specs. Developed delay impact analysis on delay issues on project</p>
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization:	<p>Bachelor of Science in Civil Engineering, Queen’s University, Canada, 1992 Master of Science in Civil Engineering, Queen’s University, Canada, 1994 Master’s Certificate in Project Management, George Washington University, 2007</p>
f. Active Registration: Year First Registered/ Discipline/VA Registration #:	<p>Professional engineer, 2001, Civil engineering, #0402035169 Certified Construction Manager, 2011, #A2127 Project Management Professional, PMI, 2009, #519508</p>
g. Document the extent and depth of your experience and qualifications relevant to the Project.	<p>1. <i>Note your specific responsibilities and authorities for each assignment, not those of the firm.</i> 2. <i>Note whether experience is with current firm or with other firm.</i> 3. <i>Provide beginning and end dates for each assignment.</i> (List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.)</p>

- g. Document the extent and depth of your experience and qualifications relevant to the Project.
 - a. *Note your specific responsibilities and authorities for each assignment, not those of the firm.*
 - b. *Note whether experience is with current firm or with other firm.*
 - c. *Provide beginning and end dates for each assignment.*

(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.) (CONTINUED)

Project: NOVA District – Fairfax County Plant Mix Program

Name of Firm: CES Consulting

Start Date: September 2011 **Finish Date:** Present

Project Role: Construction Manager

Responsibilities: Working as the construction manager in charge of delivering the \$60+ million plant mix program (7 projects) in Fairfax County. As consultant construction manager, he is tasked to ensure that all projects are constructed as per the contract documents, ensure that all VDOT and FHWA processes are followed, inspection documentation and payments are made correctly, ensure that all inspection and testing of materials were carried out per VDOT Materials processes, coordinate IAS testing, all project documentation is CQIP ready at all times, negotiate and resolve issues and work orders arising on projects (specs, quantities, deficient work, etc.) as well as handling all stakeholder concerns. He is managing 23 consultant inspectors and 5 VDOT inspection staff to ensure that all projects are adequately staffed and are projects are inspected as per ACE expectations. For projects that are finishing, he is responsible to ensure that all projects are closed out within district recommended timeline and all payments are properly accounted for. For projects ongoing, he is responsible to ensure that all SItEmanager diaries are accurate and pay items are thoroughly documented, estimates reconciled and paid promptly.

Project: I-66 HOV Widening from 234 Bypass to Route 29 – Prince William County, VA.

Name of Firm: VDOT

Start Date: November 2006 **Finish Date:** August 2010

Project Role: Responsible Charge Engineer

Responsibilities: Widening of 2.8 miles of I-66 with the construction of 2 new lanes each direction and the construction of 5 new bridges over Route 29 along with storm sewer, waterline, lighting and TMS work. Project was valued at \$75.8 million. The project was completed on time and on budget while reconstructing three new bridges that only had to be retrofitted. As the Responsible Charge Engineer at VDOT my responsibilities included: provide constructability reviews, risk analysis and assessments, value engineering reviews and authoring contract special provisions and review contract documents prior to advertisement. Managed a CEI budget of \$14.6 million and staff of over 20; ensure that all inspection and testing of materials were carried out per VDOT Materials processes, coordinate IAS testing, serve as technical source for field and design issues; partner with the contractor to speed up delivery of project through widespread use of traffic detours and multiple ramp closures; review and negotiate change orders to build new bridges and work with design engineers to expedite design (construction was allowed to proceed prior to full design plans as part of partnering approach between contractor, owner and designer); schedule analysis and review and final project closeout.

Project: I-66 HOV Widening from 234 Business to 234 Bypass – Prince William County, VA.

Name of Firm: VDOT

Start Date: July 2005 **Finish Date:** September 2006

Project Role: Responsible Charge Engineer

Responsibilities: Widening of 3.7 miles of I-66 with the construction of 2 new lanes each direction; project had major earthwork, utilities, drainage and bridge construction. Project was valued at \$34 million dollars. As the Responsible Charge Engineer at VDOT my responsibilities included: responsible for day to day management of CEI team; ensure that all inspection and testing of materials were carried out per VDOT Materials processes, coordinate IAS testing, serve as technical source for field and design issues; worked with the contractor in the field to allow major detours and closing of I-66 at night as part of solution to mitigate delay claims and expedite work; ensured compliance with all VDOT and FHWA processes and procedures; after project closeout, reviewed/resolved multiple claims submitted by contractor. Provided special provision revisions based on lessons learned from project.

Project: Route 234 Corridor Widening (Multiple projects) – Prince William County, VA.

Name of Firm: VDOT

Start Date: July 2005 **Finish Date:** July 2007

Project Role: Responsible Charge Engineer

Responsibilities: Construction/widening of Route 234 from Country Club to Purcell Lane, projects valued at \$21 million, \$19 million and \$15 million. **As the Responsible Charge Engineer at VDOT my responsibilities included:** day to day management of projects and CEI staff, ensure that all inspection and testing of materials were carried out per VDOT Materials processes, coordinate IAS testing, review contractor schedules and claims, provide technical solutions to field and design issues, review contracts and recommend amendments as necessary. All projects successfully delivered on time and under budget. Successfully addressed citizen information requests and concerns through HOA meetings, community forums with local PWC district supervisor and local press outreach.

ATTACHMENT 3.3.1

KEY PERSONNEL RESUME FORM

Brief Resume of Key Personnel anticipated for the Project.
a. Name & Title: J. Scott Hodge, PE , Senior Project Manager
b. Project Assignment: Design Manager
c. Name of Firm with which you are now associated: AECOM
d. Years experience: With this Firm <u>23</u> Years With Other Firms <u>9</u> Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen(15) years. (NOTE: If you have less than 15 years of experience, please list all of your experience for those years you have worked.): AECOM – Project Manager - Mr. Hodge is experienced in the project management, preliminary and final site layouts for bridge and highway projects. His experience also includes preliminary highway and railroad designs; location studies and environmental impact statement oversight; final rural and urban highway designs; final passenger and freight railroad designs; design/build projects; and industrial park layout and infrastructure design. Mr. Hodge has additional experience in surveying, plat descriptions, site layouts, and rights-of-way. He is currently the Design Manager for the I-81 Truck Climbing Lane project in Rockbridge County.
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization: Virginia Military Institute/BS/1980/Civil Engineering
f. Active Registration: Year First Registered/ Discipline/VA Registration #: 1985/Professional Engineer/015755
g. Document the extent and depth of your experience and qualifications relevant to the Project. 1. <i>Note your specific responsibilities and authorities for each assignment, not those of the firm.</i> 2. <i>Note whether experience is with current firm or with other firm.</i> 3. <i>Provide beginning and end dates for each assignment.</i> (List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.) Project: Piedmont Drive / Robertson Bridge, Danville, VA. Name of Firm: AECOM Start Date: 2006 Finish Date: 2009 Project Role: Principal-In-Charge Responsibilities: AECOM was responsible for coordinating all aspects of the roadway and bridge design services for the replacement of the Robertson Bridge and approach roadways. AECOM provided utility coordination, traffic data collection, traffic analysis, traffic signal plans, lighting plans, landscaping plans, bicycle and pedestrian facility design, and public involvement. The design schedule was accelerated by six month to utilize ARRA (Stimulus) funding. Project: I-81 Truck Climbing Lanes Design-Build, Rockbridge County, VA. Name of Firm: AECOM Start Date: 2009 Finish Date: 2013 Project Role: Design Manager Responsibilities: Provided roadway design, bridge design, and drainage design, which included plans for storm sewer systems, erosion and sediment control, temporary drainage, and stormwater management for the northbound 7.1 miles of highway. The overall project included construction of the truck climbing lane, replacement of three bridges, improvement of existing I-81 northbound left and right shoulders, upgrading all guardrails, guardrail transitions and end treatments to meet current standards, and the EPS fill and retaining walls required for bridge structures.

- g. Document the extent and depth of your experience and qualifications relevant to the Project.
 - a. *Note your specific responsibilities and authorities for each assignment, not those of the firm.*
 - b. *Note whether experience is with current firm or with other firm.*
 - c. *Provide beginning and end dates for each assignment.*

(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.) (CONTINUED)

Project: [Route 11, 220, & 220A Access Management Project at I- 81, Exit 150, Botetourt County, VA.](#)

Name of Firm: AECOM

Start Date: 2008 **Finish Date:** 2014

Project Role: Project Manager

Responsibilities: For Phase I, AECOM provided the alternative development of multiple alternatives for evaluation to solve the current and future issues at the Exit 150 interchange to I-81 and it's interfere with Route 11 and it's intersection with Route 220. Alternative development and evaluation included coordination of traffic modeling, preliminary drainage design and application of access management criteria. The final product is an alternative evaluation report with a recommended preferred alternative for use in an Interchange Modification Report. For Phase II, AECOM is providing final design for the approved alternative to include roadway design, drainage design, erosion and sediment control, stormwater management, traffic signal plans, lighting plans, landscaping plans, public involvement and the design of a hybrid roundabout.

Project: [Warwick Boulevard – Route 60, Newport News, VA.](#)

Name of Firm: AECOM

Start Date: 2004 **Finish Date:** 2008

Project Role: Senior Engineer

Responsibilities: Roadway design for 2.2 miles of 6-lane highway and the relocation of Shoe Lane, including location study, public information meetings, drainage design, and construction sequence/traffic control. Coordinated utility relocations, permanent pavement marking, lighting and signalization plans.

Project: [Laskin Road Phase II & 30th Street Gateway, Virginia Beach, VA.](#)

Name of Firm: AECOM

Start Date: 2004 **Finish Date:** 2008

Project Role: Project Manager

Responsibilities: Road construction plans for 0.7 miles, drainage design, right-of-way plans, public hearing, utility coordination, bulkhead design, environmental mitigation and permitting, streetscape, geotechnical investigation and landscape design for three blocks of complex urban roadway.

ATTACHMENT 3.3.1

KEY PERSONNEL RESUME FORM

Brief Resume of Key Personnel anticipated for the Project.
a. Name & Title: John Moore, Project Superintendent
b. Project Assignment: Construction Manager
c. Name of Firm with which you are now associated: W. C. English, Incorporated
d. Years experience: With this Firm <u>29</u> Years With Other Firms <u>11</u> Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen (15) years. (NOTE: If you have less than 15 years of experience, please list all of your experience for those years you have worked.): 2001- Present..... Construction Manager..... W. C. English, Incorporated 1999-2001..... Grade SuperintendentBranch Highways, Inc. Roanoke, VA 1998-1999..... Grade SuperintendentMoore Brothers Co., Inc., Verona, VA 1980-1997.....Grade Superintendent.....English Companies, Lynchburg, VA 1972-1980..... Grade SuperintendentCentral Contracting Co., Richmond, VA
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization:
f. Active Registration: Year First Registered/ Discipline/VA Registration #: ESCC VDOT – Certification #2480C expires: 6/11/15; VDOT Flagger expires: 3/31/13; WZTC expired 6/20/12 but will be recertified prior to work commencing.
g. Document the extent and depth of your experience and qualifications relevant to the Project. 1. <i>Note your specific responsibilities and authorities for each assignment, not those of the firm.</i> 2. <i>Note whether experience is with current firm or with other firm.</i> 3. <i>Provide beginning and end dates for each assignment.</i> (List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.) Project: North Gayton Road, Richmond, VA - Project consisted of the design and construction of 8,000' of divided highway from Rt. 250 to Pouncey Tract Road including 2 conspans and 1 bridge across I-64. It also includes rebuilding 1000' of Shady Grove Rd from Pouncey Tract to Twin Hickory. Name of Firm: English Start Date: 2009 Finish Date: 2012 Project Role: Construction Manger Responsibilities: Supervise personnel/equipment usage, coordinate subcontractors, plan/coordinate project progress meetings, plan/coordinate events with inspectors and engineers) Project: 64/295 Flyover Interchange, Henrico County, VA - This project consisted of the reconstruction of the I64/295 interchange in Henrico County. The 2.52 mile project involved a 2-lane flyover ramp for traffic movement from Eastbound I-64 to Eastbound I-295. It also relocated and widened the ramp from Westbound I-295 to Westbound I-64; widened I-64 to the East and West of I-295; and widened a section of Pouncey Tract Road. Name of Firm: English Start Date: 2006 Finish Date: 2009 Project Role: Construction Manger Responsibilities: Supervise personnel/equipment usage, coordinate subcontractors, plan/coordinate project progress meetings, plan/coordinate with DOT inspectors and engineers)

- g. Document the extent and depth of your experience and qualifications relevant to the Project.
 - a. *Note your specific responsibilities and authorities for each assignment, not those of the firm.*
 - b. *Note whether experience is with current firm or with other firm.*
 - c. *Provide beginning and end dates for each assignment.*

(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.) (CONTINUED)

Project: **Cosby Road High School (Site Package), Chesterfield County, VA** - Site work consisting of 290,000 yards of excavation, 6,500 feet of storm drain, 7,000 feet of water, 4,500 of gravity sewer, 19,000 feet of curb & gutter for the construction of a 257,000 square-foot high school and associated athletic fields.

Name of Firm: English

Start Date: 2004 **Finish Date:** 2006

Project Role: Project Grade Superintendent

Responsibilities: Supervise personnel/equipment usage, coordinate subcontractors, plan/coordinate project progress meetings, plan/coordinate events with inspectors and engineers)

Project: **Virginia Rt. 288 Interchange, Goochland County, VA** - As part of the design-build group with APAC-Virginia, W. C. English, Inc. performed the grading work on Route 288 from I-64 Interchange to Route 250-Broad Street in Goochland County. This \$7 million 1.4-mile segment included over one million cubic yards of grading on the main line and the acceleration and deceleration ramps for the three level interchange between I-64 and VA-288. English completed base stone and storm drainage on this section in order for APAC to complete the pavement. This portion of the work was completed well ahead of schedule, even with Virginia experiencing one of the wettest years in recorded history

Name of Firm: English

Start Date: 2001 **Finish Date:** 2004

Project Role: Project Grade Superintendent

Responsibilities: Supervise personnel/equipment usage, coordinate subcontractors, plan/coordinate project progress meetings, plan/coordinate events with General Contractor, DOT inspectors and engineers)



I-64 Widening and Route 623 Interchange Improvements Goochland County and Henrico County, Virginia

Appendix - Work History Forms

APPENDIX -
WORK HISTORY FORMS



ATTACHMENT NO. 3.4.1(a)
LEAD CONTRACTOR—WORK HISTORY FORM
(LIMIT 1 PAGE PER PROJECT)

ENGLISH

Since 1909

Work by Lead Contractor—three (3) projects which best illustrate current qualifications relevant to this Project.

a. Project Name & Location	b. Name of the prime design consulting firm responsible for the overall project design.	c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities.		d. Contract Completion Date (Original)	e. Contract Completion Date (Actual or Estimated)	f. Estimated Value (in Thousands)		
						Original Contract Value	Final or Estimated Contract Value	Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.
(1) North Gayton Road Extension Design-Build <i>Henrico County, VA</i>	AECOM	Henrico County, PO Box 90755 Henrico, VA 23273	Mr. Rob Tieman, PE Phone: 804.501.5985 Email: tie@co.henrico.va.us	2012	2012	\$38,600	\$38,050	\$38,050

b. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on this Project, so the relevancy of the work can be considered accordingly.

Since this was a Design-Build project with Henrico County, English was responsible for the designs, permitting, ROW acquisition, and construction including QA/QC.

The extension of North Gayton Road begins at the intersection of West Broad Street and existing Gayton Road, crosses Interstate 64 and proceeds on new alignment to the intersection of Pouncey Tract Road and Shady Grove Road. The project continues across Pouncey Tract Road where it terminates at the intersection of Shady Grove Road and Twin Hickory Drive. The total project length is estimated to be 2.10 miles.

Some of the project highlights include the construction of two arch culverts allowing the relocation of Bacova Road to accommodate the phasing of the bridge construction that occupies the footprint of the old Bacova Road alignment. Extensive traffic control and phasing were required to construct the widening of Shady Grove Road as well as the bridge construction over I-64. Poor soils were present throughout the project and under cutting these materials became a major component of the grading operation on the project.

Project Similarities: Traffic control on I-64, roadway widening along Shady Grove Road, interstate bridge construction, grading within the limited access, signal modifications and similar soil conditions.



ATTACHMENT NO. 3.4.1(a)
LEAD CONTRACTOR—WORK HISTORY FORM
(LIMIT 1 PAGE PER PROJECT)

ENGLISH

Since 1909

Work by Lead Contractor—three (3) projects which best illustrate current qualifications relevant to this Project.

a. Project Name & Location	b. Name of the prime design consulting firm responsible for the overall project design.	c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities.		d. Contract Completion Date (Original)	e. Contract Completion Date (Actual or Estimated)	f. Estimated Value (in Thousands)		
						Original Contract Value	Final or Estimated Contract Value	Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.
(2) I-64/I-295 Flyover Interchange <i>Henrico County, VA</i>	AECOM	VDOT 1401 East Broad Street Richmond, VA 23219	Mr. Ray Johnston Phone: 804.786.1630 Email: m.johnston@vdot.virginia.gov	2009	May 2009	\$49,000	\$50,000	\$50,000

b. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on this Project, so the relevancy of the work can be considered accordingly.

This project consisted of the reconstruction of the I-64/295 interchange in Henrico County. The 2.52 mile project involved a 2-lane flyover ramp for traffic movement from Eastbound I-64 to Eastbound I-295. It also relocated and widened the ramp from Westbound I-295 to Westbound I-64; widened I-64 to the East and West of I-295; and widened a section of Pouncey Tract Road.

English's responsibilities included building two new bridges: The 1,765' long flyover bridge and the 338' long Pouncey Tract Road overpass of I-64. The existing I-295 bridge over I-64 was also rehabilitated as part of this project.

Other responsibilities included approximately 150,000 CY of regular excavation and 70,000 CY of borrow excavation, as well as grading, drainage, asphalt paving, sound walls, retaining walls and signals.

English was also responsible for the partial demolition of I-295 over I-64.

Maintenance of Traffic on I-64 and I-295 throughout the life of the project was a major consideration and it played in on nearly all construction operations.



The increase in the final contract value was constituted by owner directed changes that were part of increases in scope.

Scope and Complexity: This project is of similar scope and complexity as it involves interstate intersection rehabilitation. In addition, Maintenance of Traffic was critical to the success of this project. Both projects also include a major bridge rehabilitation/replacement and bridge demolition. The Pouncey Tract Bridge is structurally very similar to the structures proposed on I-64 Widening and Route 623 Interchange Improvements.

Successful Delivery: This project was delivered successfully within the contract time. The overall project was staged in a way to minimize traffic disruptions and this goal was met.

Good Performance: The good performance on this project is evidenced by the fact English received a bonus on this project for the high quality of the rideability of the bridge deck. VDOT's own testing showed where English exceeded expectations.

Project Similarities: *This project has extensive widening on I-64 on both the East and West Bound lanes with a great deal of under cutting due to poor and saturated soils in the area. It also included interstate bridge and box culvert construction as well as substantial traffic control for all aspects of the grading and bridge operations.*



ATTACHMENT NO. 3.4.1(a)
LEAD CONTRACTOR—WORK HISTORY FORM
(LIMIT 1 PAGE PER PROJECT)

ENGLISH

Since 1909

Work by Lead Contractor—three (3) projects which best illustrate current qualifications relevant to this Project.

a. Project Name & Location	b. Name of the prime design consulting firm responsible for the overall project design.	c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities.		d. Contract Completion Date (Original)	e. Contract Completion Date (Actual or Estimated)	f. Estimated Value (in Thousands)		
						Original Contract Value	Final or Estimated Contract Value	Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.
(3) Atlee Elmont Interchange <i>Ashland, VA</i>	VDOT Designers	VDOT 1401 East Broad Street Richmond, VA 23219	Mr. John Williams Phone: 804.786.1630 Email: j.williams@vdot.virginia.gov	2005	2005	\$42,228	\$42,228	\$42,228

b. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on this Project, so the relevancy of the work can be considered accordingly.

The project consisted of building a major interchange at Atlee/Elmont which included nine (9) new bridges, one (1) bridge widening, 964,000 CY of excavation, asphalt paving, and box culvert extensions, MSE Walls, and T-walls new interchange relocations for the Atlee Station Road over I-95, as well as incorporating eight (8) new on and off ramps. Relocation / improvements of Lakeridge Parkway (Route 623), Sliding Hill Road (Route 656), Route 1, and Leadbetter Road (Route 637). It also included storm, water and sewer work. English built all of the bridges and graded the project with its own forces.

The issues that make this project unique include: Two (2) large structures are being built over I-95 while more than 150,000 vehicles a day are traveling underneath; four (4) structures are being built over environmentally sensitive Liking Hole Creek; two (2) structures are being built over a flood plain and Stony Run Creek; and one (1) structure is being widened over environmentally sensitive Chickahominy River.

Traffic control was also a major issue with the work in and over I-95 and the tie-ins on Rt. 1, Sliding Hill Road and Atlee Station Road. English handled this themselves with the assistance of the state police.

Project Similarities: This project included interstate widening on I-95 and bridge construction. At the intersection of I-95 and I-295 traffic control was a major component of this project not only on the interstates but on Route 1 as well.



ATTACHMENT NO. 3.4.1(b)
LEAD DESIGNER—WORK HISTORY FORM
(LIMIT 1 PAGE PER PROJECT)



Work by Lead Designer—three (3) projects which best illustrate current qualifications relevant to this Project.

a. Project Name & Location	b. Name of the prime/general contractor responsible for overall construction of the project.	c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities.	d. Construction Contract Completion Date (Original)	e. Construction Contract Completion Date (Actual or Estimated)	f. Estimated Value (in Thousands)			
					Construction Contract Value (Original)	Construction Contract Value (Actual) or Estimated	Design Fee for the Work Performed by the Firm identified as the Lead Designer for this procurement.	
(1) North Gayton Road Extension Design-Build <i>Henrico County, VA</i>	W. C. English, Inc.	Henrico County, PO Box 90755 Henrico, VA 23273	Mr. Rob Tieman, PE Phone: 804.501.5985 Email: tie@co.henrico.va.us	2012	2012	\$38,600	\$38,050	\$38,050

b. Narrative describing the Work Performed by the Firm identified as the Lead Designer for this procurement. Include the office location(s) where the design work was performed and whether the firm was the prime designer or a subconsultant.



Project Challenges: This PPTA project is on an accelerated schedule. Design began in October 2007. Construction, including all Right-of-Way acquisition, utility relocation, and environmental permitting is expected to be completed by April 2012. Midway through the project, the US Army Corps of Engineers modified its requirements for Permit application, requiring the Team to move from a General Permit to an Individual Permit.

Community Involvement: The Team prepared for the County's use all presentation boards and Powerpoint® presentations for two Citizen's Information Meetings and one Public Hearing. AECOM also assisted the Client in responding to questions received as part of the Public Participation process.

Project Description: As part of a PPTA agreement with W.C. English, Inc, AECOM is coordinating a multi-discipline in-house design team, subconsultants, and vendors to provide design services, complete Right-of-Way services and Construction Engineering and Inspection Services for this 2.2-mile major collector facility. Engineering tasks include roadway, traffic, signalization, bridge, geotechnical,

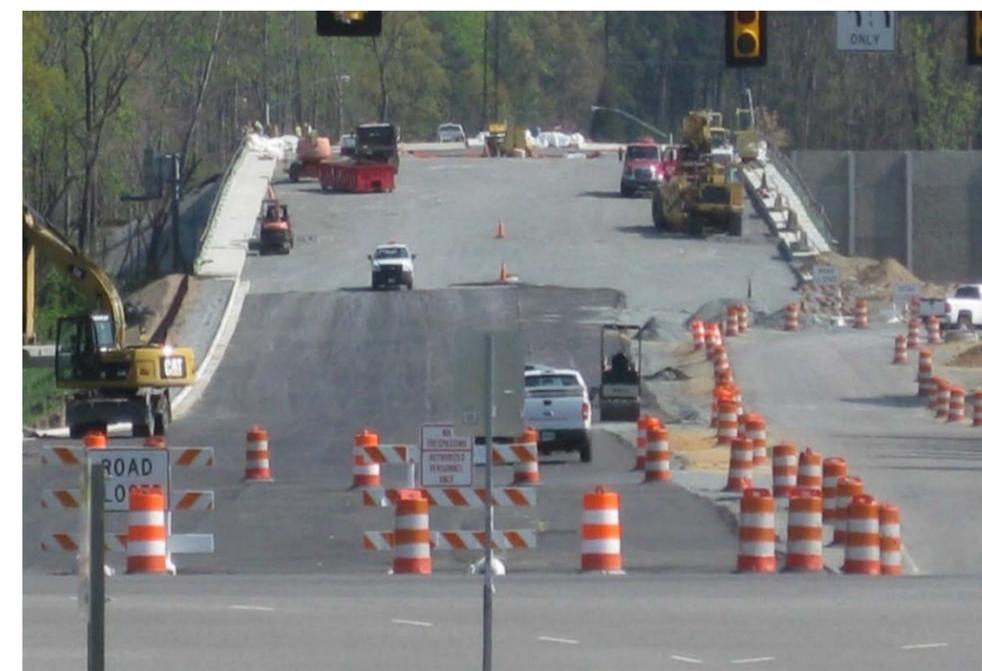
water resources, and water/sewer design as well as environmental permitting, and utility relocation coordination. Subconsultant services include field traffic services, ground and aerial survey, underground utility location, environmental and cultural resources support, traffic engineering support, structure design support, geotechnical drilling and laboratory services, and public involvement support with the County.

The roadway typical section varies from four to six lanes with a 14-foot median and transitions through two major intersections requiring extensive redesign of signalization, and three minor intersections. The alignment begins at West Broad Street just west of Short Pump Mall, proceeds north crossing I-64, then turns to the northwest, traversing undeveloped property to an intersection with Pouncey Tract Road and Shady Grove Road. As part of this project, a segment of Shady Grove Road from Pouncey Tract Road to Twin Hickory Road will be upgraded from a two-lane facility to a four-lane facility with a median. Approximately 73 parcels will be affected, including 6 family relocations.

Structures work includes design of a two-span continuous hybrid plate girder bridge, multiple MSE walls, and two precast arch structures. Environmental work included wetlands delineation, cultural resources survey, HAZMAT survey, and Joint Permit Application. Water resources work included enclosed storm sewer design, open channel drainage design, H&HA for arch structures at the Tributary to Little Tuckahoe Creek, detailed and complex E&S Control plan, and adequate outfall at numerous locations.

Monthly schedule maintenance/support is tracked using Primavera® and regular coordination meetings with client and county are performed. AECOM coordinated and prepared all presentation materials for two Citizen Information Meetings and the public hearing, including preparation of Powerpoint® presentations.

Project Similarities: *Maintenance of Traffic along I-64 (same location as I-64/Route 623 project) associated with bridge construction, subsurface foundation conditions and constrained access for grading activities. Environmental permitting and construction sequencing required to maintain live stream flow during box culvert construction activities.*



ATTACHMENT NO. 3.4.1(b)
LEAD DESIGNER—WORK HISTORY FORM
(LIMIT 1 PAGE PER PROJECT)



Work by Lead Designer—three (3) projects which best illustrate current qualifications relevant to this Project.

a. Project Name & Location	b. Name of the prime/general contractor responsible for overall construction of the project.	c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities.	d. Construction Contract Completion Date (Original)	e. Construction Contract Completion Date (Actual or Estimated)	f. Estimated Value (in Thousands)			
					Construction Contract Value (Original)	Construction Contract Value (Actual) or Estimated	Design Fee for the Work Performed by the Firm identified as the Lead Designer for this procurement.	
(2) I-64/I-295 Flyover Interchange <i>Henrico County, VA</i>	<i>Please see detailed narrative below.</i>	VDOT 1401 East Broad Street Richmond, VA 23219	Mr. Andrew Zickler, PE Phone: 804.371.2776 Email: andy.zickler@vdot.virginia.gov	2009	2009	\$68,000	\$67,000	\$1,645

b. Narrative describing the Work Performed by the Firm identified as the Lead Designer for this procurement. Include the office location(s) where the design work was performed and whether the firm was the prime designer or a subconsultant.

AECOM provided preliminary and final design engineering services for this reconstructed cloverleaf interchange. The project was the final section in the interstate level bypass for the surrounding Richmond, VA metropolitan area from I-95 south to I-64 west to I-295 north. It included a complex, multi-level system-to-system interchange.

This portion of the construction project was a major component in the overall bypass construction which will open the western and southern portions of the metropolitan area to economic development.

Ramp F was a 1,765 ft. curved flyover ramp consisting of three continuous unit spans. The span lengths vary from 114 ft. to 193 ft. Ramp D is a 787 ft. curved flyover ramp consisting of two continuous unit spans. The span lengths varied from 127 ft. to 177 ft. Both ramps required integral straddle bents over the existing I-64 roadways. Staged construction over both interstates were critical components of the overall design.

Two bridge alternatives, steel plate girders and precast concrete segmental box girders, were evaluated during the preliminary design phase to determine the most viable and economical solution. The final design phase developed the steel plate girder alternate. AECOM also provided construction support services (Stage III) to DOT.

Project Similarities: Maintenance of Traffic along I-64 (same location as I-64/Route 623 project) associated with bridge construction, subsurface foundation conditions and constrained access for grading activities. Interstate roadway construction associated with widening of both eastbound and westbound lanes for I-64 (same location as I-64/Route 623 project), including undercut subsurface soil conditions.



ATTACHMENT NO. 3.4.1(b)
LEAD DESIGNER—WORK HISTORY FORM
(LIMIT 1 PAGE PER PROJECT)



Work by Lead Designer—three (3) projects which best illustrate current qualifications relevant to this Project.

a. Project Name & Location	b. Narrative describing nature of Firm's Responsibilities	c. Client/Owner/Project Manager who can verify Firm's responsibilities. Include address and current phone number.	d. Contract Completion Date (Original)	e. Contract Completion Date (Actual or Estimated)	f. Estimated Value (in Thousands)			
					Original Contract Value	Final or Estimated Contract Value	Dollar Value of Work for Which Firm Was/Is Responsible	
(3) Piedmont Drive / Robertson Bridge <i>Danville, VA</i>	<i>Please see detailed narrative below.</i>	VDOT 4219 Campbell Avenue Lynchburg, VA 24501	Mr. Renard Yeatts Phone: 434.856.8258 Email: renard.yeatts@vdot.virginia.gov	2009	2009	\$30,300	\$28,000	\$28,000

b. Narrative describing nature of Firm's Responsibilities

The Robertson Bridge in the City of Danville is a critical link in the local transportation network. This two lane bridge has served the City well, carrying about 20,000 vehicles on a typical day. However, its age and design do not accommodate a much needed widening to alleviate the traffic backups that occur on a daily basis due to traffic volumes that exceed the capacity. Therefore, the City of Danville and the Virginia Department of Transportation (VDOT) wanted to replace this bridge.

AECOM is provided professional services for the design of the replacement of the existing two-lane Piedmont Drive (Robertson Bridge) over Dan River with a five-lane median divided facility with a shared-use path. The new facility was built on the alignment / location of the existing bridge. AECOM also designed the intersections of Piedmont Drive / Memorial Drive and Memorial Drive/Park Avenue on the south side of the Dan River.

AECOM provided the following services:

- Study of Bridge Alternatives
- Bridge Design
- Staged Construction Details
- Approach Roadway Plans
- Maintenance of Traffic
- Aesthetic Enhancements
- Computer Renderings
- Citizen Information Meetings
- Public Hearings
- ROW Plans
- Environmental Permitting
- Drainage & Stormwater Management
- Traffic Analysis
- Sign Design
- Roadway Lighting
- Hydraulic Analysis
- Landscaping Utility Design
- Coordination with Localities



Project Similarities: Staged bridge construction with associated phased maintenance of traffic, signal modifications, public involvement and mayor utility coordination.

The English Advantage...

**Local Experience Involving I-64
Interstate Widening Experience
Richmond Area Design-Build Experience
Experienced Management Team
English & AECOM Experience Working Together**



ENGLISH

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