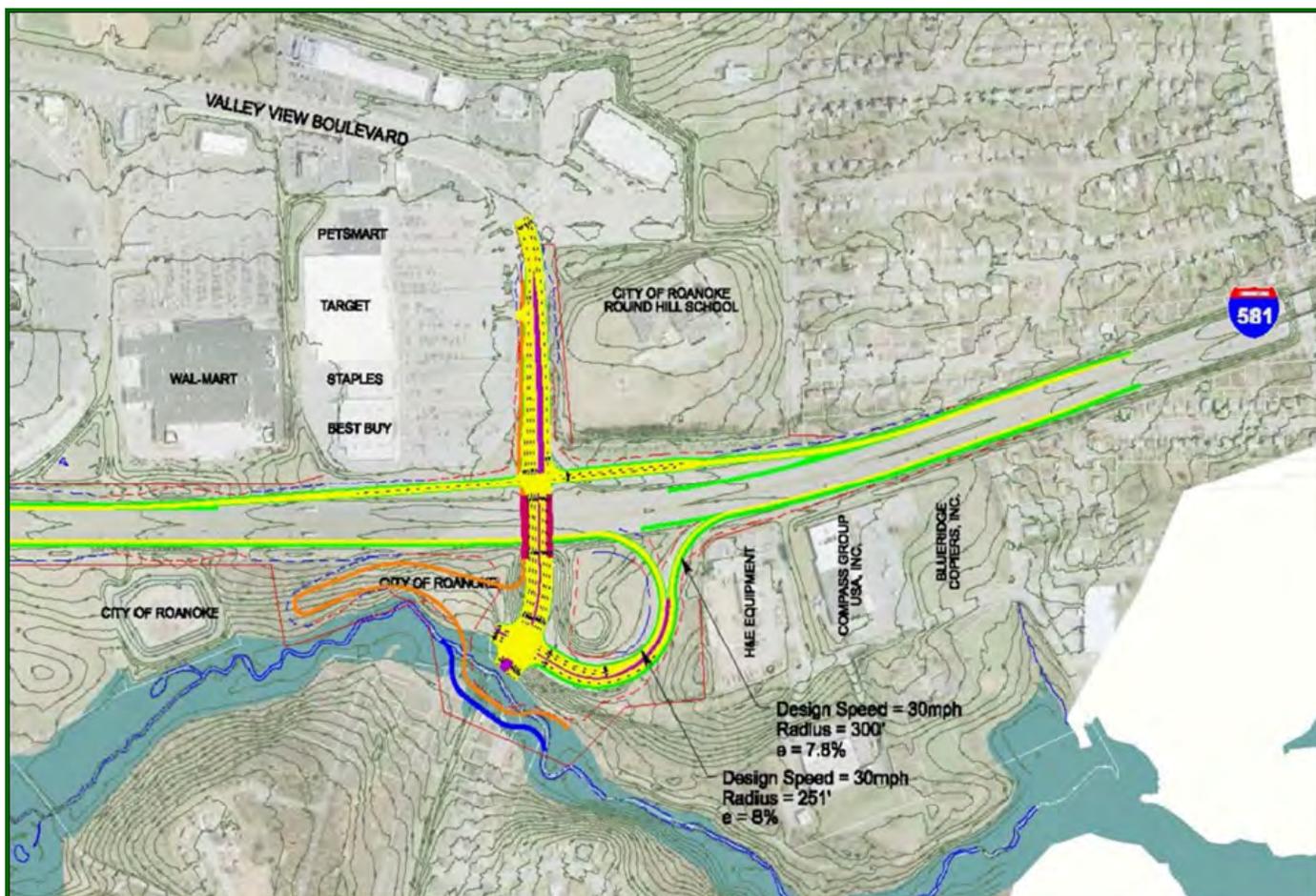




I-581 VALLEY VIEW INTERCHANGE PHASE II

CITY OF ROANOKE, VIRGINIA



STATEMENT OF QUALIFICATIONS

DECEMBER 9, 2011





December 7, 2011

Mr. Joseph A. Clarke, P.E.
Alternate Project Delivery Office
Virginia Department of Transportation
1221 East Broad Street
Main Building, 4th Floor
Richmond, Virginia 23219

RE: Project No. 0581-128-109, P101, RW201, C501, B627
I-581/Valley View Interchange Phase II Design-Build Project
Federal Project No: NH-581-5(035)
Contract ID Number: C00016595DB45
Statement of Qualifications

Dear Mr. Clarke:

W-L Construction & Paving, Inc. (W-L Construction) is pleased to submit this Statement of Qualifications in response to the Virginia Department of Transportation's (VDOT's) Request for Qualifications (RFQ) for the I-581 / Valley View Interchange Phase II design-build project in the City of Roanoke, Virginia.

In order to facilitate the panel's review of this document the W-L Construction team has chosen to highlight important sections where details of our team's past experiences, lessons learned, or innovative approaches can be applied to this project to the advantage of VDOT and the local stakeholders. These areas are highlighted with the stamp to the right to signify our team's *Proven Experience*. The members of the W-L Construction team enjoy longstanding relationships and have a history of successfully working together on many VDOT projects and our team will apply lessons learned from those experiences to the benefit of this project.



Section 3.2.1: Offeror's Representative

W-L Construction's designated official point of contact relative to this Statement of Qualifications is:

Mr. Jerry L. Short, PE, PLS
Vice President/General Manager
P.O. Drawer 927
1484 Highway 107

Chilhowie, VA 24319
Telephone: 276.646.3804
Facsimile: 276.646.8179
E-mail: jshort@w-lconstruction.com

Section 3.2.2: Principal Officer Information

The Design-Build contract would be written to W-L Construction & Paving, Inc. The principal officers are:

Daniel L. Cooperrider – President
Kevin Bragg – Vice President
Jerry L. Short – Vice President
Kenneth M. Taylor – Senior Vice President
Gary P. Hickman – Assistant Secretary
Charlie Brown – Treasurer
John J. Keating – Director

The address / telephone number
for all of the Principals is:
P.O. Drawer 927
1484 Highway 107
Chilhowie, VA 24319
Telephone: 276.646.3804



Section 3.2.3: Corporate Structure

W-L Construction & Paving is a stock corporation and will have sole financial responsibility for the project.

Section 3.2.4: Affiliates and Subsidiaries

W-L Construction is a wholly owned subsidiary of Oldcastle Materials, Inc. and operates within the Mid-Atlantic Division of the company. W-L Construction has no subsidiaries, but has numerous affiliates through its parent company. For a complete list of Oldcastle Materials' divisions and subsidiaries please visit <http://www.oldcastlematerials.com/divisions.htm>. W-L Construction is the only Oldcastle Materials company that bonds work with VDOT and operates in Virginia.

Section 3.2.5: Certification Regarding Debarment

Certification Regarding Debarment Forms for Primary Covered and Lower-Tier Covered Transactions are included in Appendix E.

Section 3.2.6: VDOT Prequalification

W-L Construction is prequalified to do business with VDOT, prequalification number W048. A full-sized copy of their prequalification certificate and a screenshot from VDOT's Scheduling and Contract Division can be found in Appendix A.

Section 3.2.7: Evidence of Bonding

W-L Construction obtains its bonding from Liberty Mutual Surety. Evidence from the surety indicating W-L Construction's ability to obtain a performance and payment bond based on the current estimated contract value is included on Page 5 of the SOQ following the Letter of Submittal.

Section 3.2.8: Professional Services Documentation

The following table indicates registration information for each team member. Each team member is in compliance with the requirements set forth in Section 3.2.8 and subsections 1 through 4, where applicable. The primary team members identified at this stage of the procurement include two Class A contractors, both of whom are registered with DPOR, and seven firms offering professional services. All seven of these firms operate main or branch offices in Virginia. Information meeting the requirements of Section 3.2.8 is included in the tables in the following section, with backup data included in Appendix D:

3.2.8.1 SCC Registration for Each Business			
Registered Name	Registration No.	Type of Corporation	Status
W-L Construction & Paving, Inc. <i>Lead Contractor</i>	0182347-5	Stock Corporation	Active / Good Standing
DLB, Inc. <i>Bridge and Utility Subcontractor</i>	0183420-9	Stock Corporation	Active / Good Standing
A. Morton Thomas and Associates, Inc. <i>Lead Designer / Construction QA</i>	F049431-2	Stock Corporation	Active / Good Standing
Traffic Signals Plus, PLLC <i>Traffic Engineering, Lighting</i>	S299757-7	Limited Liability Company	Active / Good Standing
Diversified Property Services, Inc. <i>ROW</i>	F130410-6	Stock Corporation	Active / Good Standing
Pulsar Advertising, Inc. <i>Public Involvement</i>	F160855-5	Stock Corporation	Active/ Good Standing
AMEC E&I, Inc. <i>Geotechnical Engineering</i>	F060316-9	Stock Corporation	Active/ Good Standing
Athavale, Lystad & Associates, Inc. <i>Structural Engineering</i>	F060584-2	Stock Corporation	Active/ Good Standing
Froehling & Robertson, Inc. <i>QC Testing Services</i>	F027211-2	Stock Corporation	Active/ Good Standing

3.2.8.1 SCC Registration for Each Business

Registered Name	Registration No.	Type of Corporation	Status
Quinn Consulting Services, Inc. <i>QC Services</i>	F492551-7	Stock Corporation	Active/ Good Standing
Harris Miller Miller & Hanson, Inc. <i>Noise Quality and Air Control</i>	F145185-7	Stock Corporation	Active/ Good Standing

3.2.8.2 DPOR Registration for Offices

Business Name	Address	Registration Type	Registration Number	Expiration Date
W-L Construction & Paving, Inc. <i>Contractor</i>	PO Box 927 Chilhowie, VA 24319	Class A Contractor	2701 017666A	01/31/2013
DLB, Inc. <i>Bridge and Utility Subcontractor</i>	PO Box 1239 Hillsville, VA 24343	Class A Contractor	2701 022512A	05/31/2012
A. Morton Thomas and Associates, Inc. <i>Home Office Registration</i>	12750 Twinbrook Pkwy Rockville, MD 20852	ENG LA	0407 003077	12/31/2011
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	135 Highland Drive, PO Box 3008 Lebanon, VA 24266	ENG	0411 000588	02/29/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	10710 Midlothian Turnpike, Suite 202 Richmond, VA 23235	ENG LA	0411 000587	02/29/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	14900 Conference Center Dr., Suite 180 Chantilly, VA 20151	ENG LA	0411 000586	02/29/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	113 Mill Place Parkway Verona, VA 24482	ENG	0411 000589	02/28/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	1530 Breezeport Way, Bldg 4, Suite 300 Suffolk, VA 23435	ENG LA	0411 000693	02/29/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	One Jadip Lane, Suite 111 Fredericksburg, VA 22405	ENG LS	0411 000758	02/29/2012
Traffic Signals Plus, PLLC <i>Home Office Registration</i>	621 French's Store Rd. Cumberland, VA 23040	ENG	0413 000317	12/31/2011
AMEC E&I, Inc. <i>Branch Office Registration</i>	3705 Saunders Avenue Richmond, VA 23227	ENG	0411 000128	02/29/2012
AMEC E&I, Inc. <i>Branch Office Registration</i>	1070 West Main Street, Suite 5 Abingdon, VA 24210	ENG	0411 000523	02/29/2012
Athavale, Lystad & Associates, Inc. <i>Home Office Registration</i>	8180 Greensboro Avenue, #550 McLean, VA 22102	ENG	0407 002804	12/31/2011
Froehling & Robertson, Inc. <i>Home Office Registration</i>	3015 Dumbarton Road Richmond, VA 23228	ENG	0407 000098	12/31/2011
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	22923 Quicksilver Dr, Suite 111 Sterling, VA 20166	ENG	0411 000051	02/29/2012
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	1734 Seibel Drive N.E. Roanoke, VA 24012	ENG	0411 000053	02/29/2012
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	10909 Houser Drive Fredericksburg VA 22408	ENG	0411 000050	02/29/2012
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	W Greenbrier Commerce Park 833 Professional Place Chesapeake, VA 23320	ENG	0411 000049	02/29/2012
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	6181 Rockfish Gap Turnpike Crozet, VA 22932	ENG	0411 000052	02/29/2012

3.2.8.2 DPOR Registration for Offices				
Business Name	Address	Registration Type	Registration Number	Expiration Date
Quinn Consulting Services, Inc. <i>Home Office Registration</i>	4607 Marble Rock Court Chantilly, VA 20151	ENG	0407 003733	12/31/2011

3.2.8.3 DPOR Registration for Key Personnel					
Registered Name	Address	Reg. Type	Registration Number	Expiration Date	Practicing Office
David Covington, PE <i>Design Manager</i>	113 Mill Place Parkway Verona, VA 24482	PE	0402 038235	06/30/2013	Verona, VA
Preston Breeding, PE, CCM <i>Quality Assurance Manager</i>	140 Hilltop Avenue Lebanon, VA 24266	PE	0402 040251	12/31/2012	Fredericksburg, VA
Tweolde A. Iyob, PE <i>Lead Structural Engineer</i>	12720 Autumn Crest Drive Oak Hill, VA 20171	PE	0402 017408	06/30/2013	McLean, VA

3.2.8.4 DPOR Registration for Other Professional Services				
Registered Name	Address	Registration Number	Expiration Date	Practicing Office
Diversified Property Services of VA, Inc <i>Real Estate Appraiser Business</i>	20 E. Timonium Road, Suite 111 Timonium, MD 21093	4008 001190	11/30/2012	Timonium, MD

**Pulsar Advertising, Inc. and HMMH, Inc. do not provide professional services and therefore do not have a DPOR registration.*

Section 3.2.9 – Disadvantage Business Enterprises

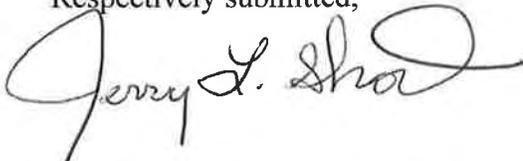
W-L Construction & Paving, Inc. supports the Disadvantaged Business Enterprise program and is committed to achieving or exceeding 16% of the design and construction of this project utilizing the services of organizations certified as Disadvantaged Business Enterprises. Our commitment to meeting the DBE goal of 16% for the project is signified by the signature below.

The team has already identified a number of DBE team members to provide professional services and look forward to reaching out to proven DBE teaming partners for assistance during the construction planning and pricing phase of the project.

Closing

If you have any questions regarding this Statement of Qualifications please contact me at your convenience. We look forward to the next stage of project procurement and continuing to share our experiences with the Department's selection panel.

Respectively submitted,



Mr. Jerry L. Short, P.E., PLS
Vice President/General Manager
W-L Construction & Paving, Inc.



Liberty Mutual Surety

8044 Montgomery Road, Suite 150E
Cincinnati, OH 45236
513 792 1861

November 15, 2011

Virginia Department of Transportation
1401 East Broad St
Richmond, VA 23219

RE: W-L Construction & Paving, Inc.
Valley View Blvd with I-581 / US Route 220 Project in City of Roanoke VA
VDOT estimate \$49,550,000

To whom it may concern:

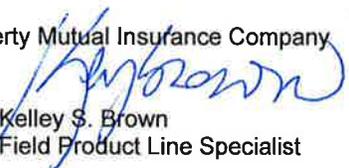
Liberty Mutual Insurance Company with A.M. Best Financial strength Rating of A and financial Size Category of XV is surety for W-L Construction & Paving, Inc. As surety, Liberty will provide a 100% performance bond and a 100% Labor and Materials Payment bond in the amount of the anticipated cost of construction of the captioned project to cover the project and warranty periods on behalf of W-L Construction & Paving, Inc. in the event that such firm be the successful bidder and enter into a contract for this project.

Such approval is conditioned upon applicable underwriting considerations and acceptable contract terms and bond forms, financing and favorable review of current underwriting information at the time of the request for the bonds.

This letter is not an assumption of liability nor is it a bond. It is issued only as a bonding reference requested from us by our client.

Sincerely,

Liberty Mutual Insurance Company

By: 
Kelley S. Brown
Field Product Line Specialist

Section 3.3

Team Structure Analysis

Section 3.3 Offeror's Team Structure

W-L Construction and AMT have collaborated on the selection of all subconsultants and have carefully considered the needs of the project, past experiences with each proposed subconsultant, and the ability of each teaming partner to respond to the needs of the project, including the ability to address known risks as described later in Section 3.5. W-L Construction has considered the qualifications of VDOT SWaM and DBE firms when selecting the team members for this design-build project. The SWaM and DBE status of each team member is indicated on the team's organizational chart on page 8.

Section 3.3.1 Key Personnel

The following individuals will fulfill the roles of Key Personnel:

- **Mr. Jerry Short, PE, PLS** – Design-Build Project Manager (W-L Construction)
- **Mr. Preston Breeding, PE, CCM** – Quality Assurance Manager (AMT)
- **Mr. David Covington, PE** – Design Manager (AMT)
- **Mr. Jess Norman** – Construction Manager (W-L Construction)
- **Mr. Tewolde Iyob, PE** – Lead Structural Engineer (ALA)

Resumes for each of the Key Personnel can be found in Appendix B. The team's Key Personnel all exceed the requirements required to achieve a satisfactory score as outlined in Rating Description 3.3.1 of the RFQ and many personnel warrant consideration for an evaluation score of 5.0 for this section.

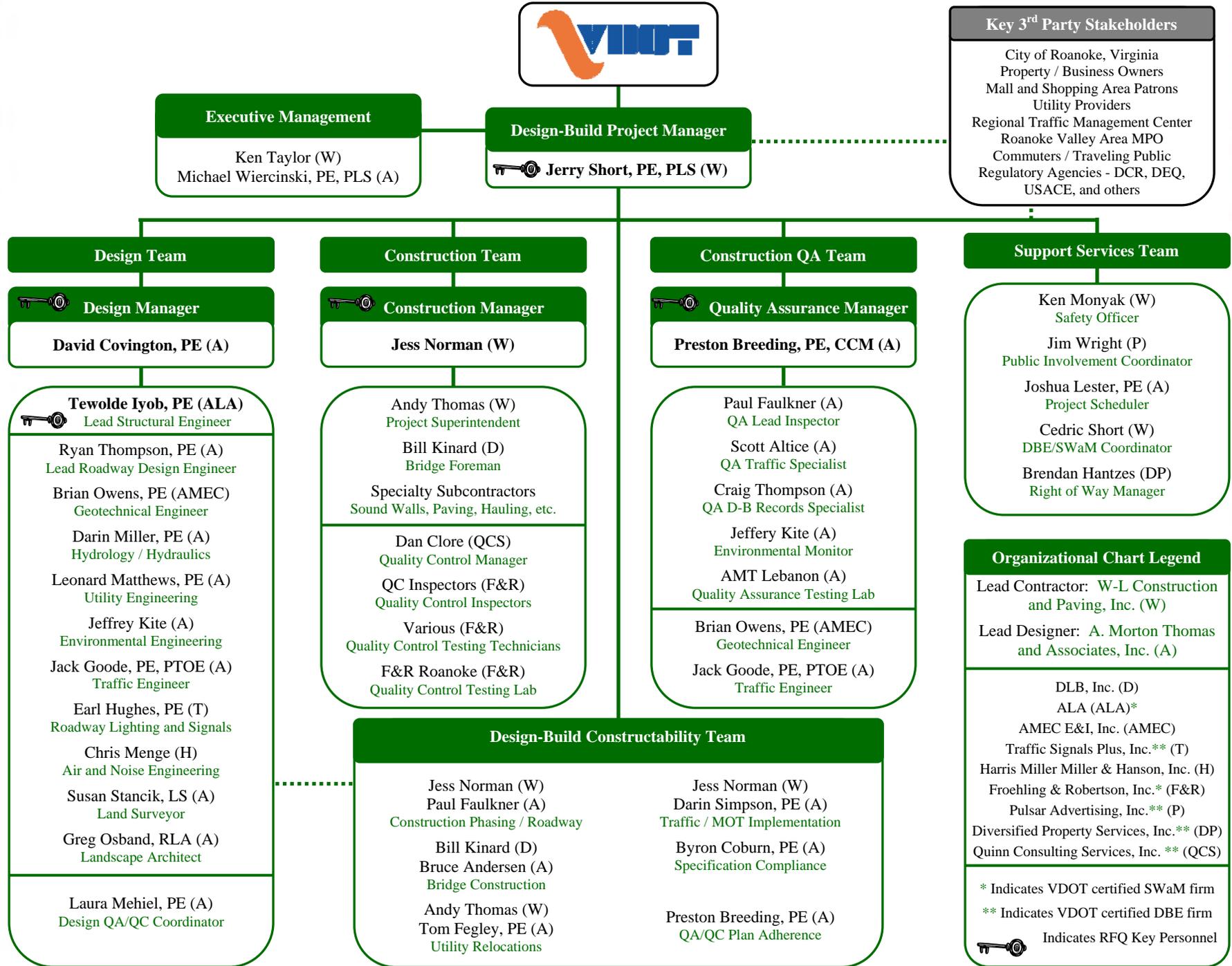
In order to facilitate VDOT's review of the W-L Construction Team Key Personnel we offer the following table summarizing our team's experiences in response to the Evaluation Team's Anchors for Key Personnel.

Key Personnel	Similar Experience	Accountability & Commitment	Demonstrated Applicability of Experience
	Has the Key Personnel served in similar roles on more than one transportation project?	Has Key Personnel demonstrated accountability & professional commitment in similar roles?	Does Key Personnel have previous experience that may be of benefit to the Project?
Design-Build Project Manager Jerry Short, PE, PLS (W-L Construction) 	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Short has served as overall Project Manager for large scale projects including a series of Corridor G projects in West Virginia valued at \$150 million. Mr. Short annually manages over \$100 million in construction contracts.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Short has over 37 years of experience, 26 years with W-L Construction or previously affiliated companies. Mr. Short has risen to the role of Vice-President and is recognized for his leadership within the industry.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Short has managed large construction projects in complex settings which required interaction with many stakeholders, including design-build, I-81 corridor, and City of Roanoke projects.
Quality Assurance Manager Preston Breeding, PE, CCM (AMT) 	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Breeding has served as the QAM, IQM, QCM, and responsible charge engineer for multiple VDOT projects (Lynchburg Culverts, Route 11 Bridge, Route 208 Bypass, Route 208 Bridge, and Route 460 Grundy Phase I, Coalfields Expressway).	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Breeding has over 11 years of similar experience and led the Route 460 Phase I project from start to finish as CEI project manager, developed the team and proposals for the 460 design build project and remains active as the overall AMT project manager for the job.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Breeding has considerable experience leading similar size projects (Route 460 - \$24M), has worked in a downtown setting with highly visible MOT issues (Route 460, Route 11), led major bridge projects (208 Lake Anna), and has considerable design-build experience.

Key Personnel	Similar Experience	Accountability & Commitment	Demonstrated Applicability of Experience
	Has the Key Personnel served in similar roles on more than one transportation project?	Has Key Personnel demonstrated accountability & professional commitment in similar roles?	Does Key Personnel have previous experience that may be of benefit to the Project?
Design Manager David Covington, PE (AMT) 	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Covington served as the Roadway Design Manager for the Route 460 Connector design-build project. Mr. Covington was the Design Manager for the Eisenhower Avenue Widening project with similar traffic and stakeholder concerns as the I-581 project.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Covington led the roadway design effort for the Route 460 project for over 2 years while simultaneously founding CMAA's Central Virginia Chapter and serving as its president.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Covington has demonstrated experience leading VDOT design-build contracts as the Design Manager and Roadway Design Manager, managing complex urban projects (Eisenhower Avenue), and leading constructability reviews for major projects (Route 460).
Construction Manager Jess Norman (W-L Construction) 	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Norman has served as the Construction Manager for many significant projects, including many projects located along I-81, Roanoke area projects, and a similar project located off of I-581.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Norman's career spans 35 years, the last 20 which have been at W-L Construction or previously affiliated companies. Mr. Norman's leadership role on the company's most visible projects is a testament to his commitment and ability as a Construction Manager.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Norman brings many years of experience and lessons learned from similar projects and roles. Mr. Norman's reputation is well recognized by the Salem District staff and the City of Roanoke and his experience on locally challenging projects is an asset to the team.
Lead Structural Engineer Tewelde Iyob, PE (ALA) 	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Iyob has fulfilled similar roles on over 25 major VDOT bridge projects across the Commonwealth. As shown on his resume Mr. Iyob has served as Lead Structural Engineer for five very similar projects, including interstate interchange projects in Virginia.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Iyob has a proven history of seeing projects through completion and is committed to the same goal for this contract. Mr. Iyob has demonstrated experience at all stages of design and typically his projects involve his expertise from the conceptual stage through construction administration.	YES. Evaluation Criteria Exceeded. Score = 5 Mr. Iyob was the Lead Structural Engineer for several similar recent projects including the I-81 TCL, I-495 HOT Lanes, and several I-95 corridor projects. Mr. Iyob's project experiences working with VDOT on interstate crossings brings many lessons learned to the team for this contract.

Section 3.3.2 Organizational Chart and Narrative

The W-L Construction Team's organizational chart is shown on Page 8 of the Statement of Qualifications. The following narrative (continued on page 10) describes the structure of the Team and the individuals included on the Team Organizational Chart. The W-L Construction Team has presented herein an organizational chart that clearly outlines the reporting and functional relationships of the Team's personnel. The Team is led by the Design-Build Project Manager (DBPM), Mr. Jerry Short, PE, PLS. Mr. Short will serve as the primary point of contact for VDOT and will coordinate all project activities. Mr. Short will be



Key 3rd Party Stakeholders

- City of Roanoke, Virginia
- Property / Business Owners
- Mall and Shopping Area Patrons
- Utility Providers
- Regional Traffic Management Center
- Roanoke Valley Area MPO
- Commuters / Traveling Public
- Regulatory Agencies - DCR, DEQ, USACE, and others

Organizational Chart Legend

- Lead Contractor: W-L Construction and Paving, Inc. (W)
- Lead Designer: A. Morton Thomas and Associates, Inc. (A)
- DLB, Inc. (D)
- ALA (ALA)*
- AMEC E&I, Inc. (AMEC)
- Traffic Signals Plus, Inc.** (T)
- Harris Miller Miller & Hanson, Inc. (H)
- Froehling & Robertson, Inc.* (F&R)
- Pulsar Advertising, Inc.** (P)
- Diversified Property Services, Inc.** (DP)
- Quinn Consulting Services, Inc. ** (QCS)

* Indicates VDOT certified SWAm firm
 ** Indicates VDOT certified DBE firm
 Key: Indicates RFQ Key Personnel



assisted by three key individuals leading distinct project areas: Mr. David Covington, PE, Design Manager; Mr. Jess Norman, Construction Manager; and Mr. Preston Breeding, PE, CCM, Quality Assurance Manager (QAM). Each team is discussed in more detail in the following sections.

Design Team – David Covington, PE – Design Manager Reports to DBPM

The Design Manager, Mr. David Covington, PE, will lead the design phase of the project and report directly to the DBPM. The organizational chart also provides detail to the discipline level within each area where the team has identified discipline leaders. The organizational chart includes design QA and QC functions and the team has designated a QA/QC Coordinator who will be responsible for monitoring QA and QC reviews ensuring design elements are properly reviewed and documented in accordance with the QA Plan.

Two of the most striking features of the project design are the structural design and traffic engineering components of the project. The team has strategically selected ALA to provide structural engineering services for the project. *ALA brings over 26 years of design experience to the team and has recently completed significant projects in similar settings within the Salem District.*



AMT will provide traffic engineering design for the project and has selected Jack Goode, PE, PTOE to lead this design element. Mr. Goode has provided traffic engineering services for the \$400 million InterCounty Connector (ICC) design-build project in Montgomery County, Maryland. The ICC project has required evaluation of numerous interchange configurations, traffic forecasting, MOT plan development, and construction monitoring for the effectiveness of traffic control items of work.

The team recognizes that this project poses a series of challenges that will require design specialists at various stages of the project including roadway lighting, signal design, air/noise engineering, and landscape architecture.

Construction Team – Jess Norman – Construction Manager Reports to DBPM

The Construction Manager, Mr. Jess Norman, will lead the construction phase of the project, including directing the Quality Control (QC) Team. On the production side, Mr. Norman will be assisted by the Project Superintendent, Mr. Andy Thomas. Mr. Thomas will direct field crews and subcontractors during the construction of the project. W-L Construction will subcontract the bridge construction and some utility construction activities to DLB. W-L and DLB share a longstanding working relationship and have completed many projects under a similar arrangement. In addition to DLB, W-L Construction anticipates utilizing specialty subcontractors to complete a variety of items including installation of traffic control devices, lighting, signals, sound walls and other traffic safety items. W-L Construction also plans to subcontract asphalt paving operations, hauling, and other miscellaneous items of work. DBE contractors will be given every consideration for these roles in accordance with W-L Construction's DBE commitment as shown in Section 3.2.9.

Mr. Norman will coordinate the QC Team through a dedicated QC Manager, Dan Clore. Mr. Clore will direct QC field technicians, direct laboratory testing, and oversee the QC laboratory testing program. While the Construction Manager does not supervise or direct the Quality Assurance (QA) Team, Mr. Clore will be in constant communication with the QAM during construction to receive feedback on project quality.

Construction QA Team – Preston Breeding, PE – QAM Reports to DBPM

The Construction QA Team will be led by the QAM, Mr. Preston Breeding, PE, CCM. The QAM will report directly to the DBPM and will be responsible for implementation of the project's QA Program. Mr.

Breeding will oversee the QA Inspectors, the Office Engineer, and will direct the QA Testing Program. He will ensure that all testing frequencies are met and the requirements of the QA/QC Plan are fully implemented throughout construction. Mr. Breeding will also participate as a member of the design-build constructability team.

The Geotechnical Engineer for the project will be Mr. Brian Owens, PE. Mr. Owens will play an active role in the roadway design process, as well as QA activities during construction. Mr. Owens will communicate with the QAM during construction and provide periodic field inspection for critical components such as foundations and roadway subgrade. *Mr. Owens and his field representatives will work closely with the QAM to ensure testing and inspection frequencies of geotechnical sensitive items are in compliance with the approved QA/QC Manual.* Similarly, the QA Team will be consulting with the Traffic Engineer, Mr. Jack Goode, PE, PTOE at various stages of construction to ensure the MOT plans are operating effectively.



Support Services Team – Reports to DBPM

A fourth key branch of the W-L Construction team is the Support Services Team, which will include the Safety Officer, Public Involvement Coordinator, Project Scheduler, DBE SWaM Coordinator, and Right of Way Manager. *The W-L Construction Team understands that even the best designed, best executed project will be a failure in the event of a serious accident.* Mr. Ken Monyak, Project Safety Officer who reports directly to the DBPM, will conduct project-wide safety audits, including development and implementation of the project safety plan as required by the design-build contract. The W-L Construction team also recognized the importance of public relations, DBE/SWaM coordination, right of way acquisition, and CPM scheduling and included those positions on the support services team as well.



Several of the team’s personnel will interact directly with VDOT and third parties such as the City of Roanoke, shoppers and mall patrons, utility providers, and the Roanoke Valley Area MPO during various phases of the project. The ROW Manager will be interacting with property owners during the design phase during ROW acquisition. Similarly, the ROW Manager and the Design Manager will work directly with utility providers to assess and coordinate relocation of affected assets. The Design Manager and Environmental Engineer will interact with regulatory agencies and attend the IACM with VDOT staff as needed.

At the project level, the Design Manager, with approval from the DBPM and the VDOT project manager, may interact directly with VDOT L&D personnel to facilitate plan reviews, submittals, and design topic meetings. Similarly, the QAM may be in direct communication with VDOT’s IA and IV teams to coordinate inspections of hold and witness points. The QAM, Construction Manager, or other designated field staff will be in close communication with VDOT’s Regional Traffic Operations Center regarding traffic conditions, backups, accidents, or other effects the project may have on motorists.

In order to facilitate VDOT’s review of this section we offer the following table which summarizes our team’s Significant Strengths in response to the Evaluation Team’s Evaluation Criteria.

Evaluation Criteria / Anchors	Significant Strengths	Location
<p>Organizational structure contains all the positions that are necessary to deliver a project of this type.</p>	<ul style="list-style-type: none"> The W-L Construction team has included all necessary positions to deliver the project including Public Involvement Coordinator, CPM Scheduler, Project Safety Officer, ROW Manager, and DBE/SWaM Coordinator. Specific engineering functions such as environmental, air/noise, traffic, and geotechnical have been identified. 	<p>Org Chart</p>

Evaluation Criteria / Anchors	Significant Strengths	Location
Organizational structure is clearly related to strong management processes with evidence of similar structures from previous successful projects and with well-considered Project-specific enhancements.	<ul style="list-style-type: none"> ▪ Organization chart is clearly structured and led by Key Personnel. ▪ Team presented a clear enhancement in the W-L Construction Constructability Team, including identification of members. ▪ Structure shows importance of Support Services Team. ▪ Executive Management Team consists of leadership of W-L Construction and AMT to stress accountability and dedication. 	Org Chart
Project Leaders, Key Personnel and others are clearly shown and all names match those contained in the Resume Forms.	<ul style="list-style-type: none"> ▪ Leaders, Key Personnel, others clearly shown and match resumes. ▪ Experience of additional critical staff members discussed in narrative, i.e. Traffic Engineer, Geotechnical Engineer, ROW Manager, Safety Officer among others 	Org Chart Appendix B
Lines of responsibility and communication are clear and demonstrate a high level of understanding of interfaces with VDOT and third parties.	<ul style="list-style-type: none"> ▪ Responsibilities are shown, structure is functional and efficient. ▪ Third Parties are identified and linked to main branch of org chart. ▪ Discussion of interface with VDOT in narrative. ▪ Discussion of DM / VDOT L&D relationship in narrative. ▪ Discussion of QAM/VDOT IA/IV relationship in narrative. 	Org Chart Pages 9 – 11
Strong emphasis is placed on links between design and construction teams.	<ul style="list-style-type: none"> ▪ Team provided excellent detail regarding the function, makeup, and importance of constructability team. ▪ Discussed role of Design Manager, Traffic Engineer, and Geotechnical Engineer (specifically) during construction. 	Org Chart Pages 9 – 11
Safety, environmental and QA/QC personnel have prominent positions in the structure with direct reporting lines to senior management.	<ul style="list-style-type: none"> ▪ Project Safety Officer clearly identified and reports to DBPM. ▪ QA/QC personnel clearly identified, prominently displayed, and separate as required by RFQ. ▪ Environmental Monitor identified as part of QA Team. 	Org Chart Pages 9 – 11
There is a clear separation between QA and construction including separation between QA inspection / testing operations and construction QC inspection / testing operations.	<ul style="list-style-type: none"> ▪ QA and QC functions clearly separated for construction. ▪ QA team clearly independent of construction operations. ▪ QA and QC labs identified and separate. ▪ Structure of QA and QC teams clearly identified. ▪ QA team members clearly presented w/attention to areas of risk. 	Org Chart Pages 9 – 11
All Key Personnel; Project Leaders; Quality Assurance and Quality Control functions; and all disciplines are accounted for, including but not limited to, Survey, Roadway, Structural, Geotechnical, Environmental, Hydraulics, Traffic Engineering, Landscaping, ROW, Utilities, and Public Involvement.	<ul style="list-style-type: none"> ▪ All Key Personnel are clearly identified by a key symbol. ▪ All management functions have been addressed. ▪ All disciplines are present including Survey, Roadway, Structural, Geotechnical, Utility, Environmental, Hydraulics, Traffic Engineering, Landscaping, Right of Way, Air & Noise, Public Involvement, and Roadway Lighting. ▪ Design-Build Constructability Team includes all key areas of concern: sequencing, bridge constructability, utilities, traffic, specification compliance, and QA/QC compliance. 	Org Chart Pages 9 – 11
Interface with design/construction teams is thoroughly demonstrated; QC Inspection staff reports to CM; clear distinction between QA/QC functions including testing; interfaces with VDOT and third parties are shown and described.	<ul style="list-style-type: none"> ▪ QC staff reports to Construction Manager ▪ QA and QC clearly distinguished at all levels, including independent testing labs. ▪ Third Parties clearly identified including specifically City Officials, Mall and Shopping Patrons, Utility Owners, Business/Property Owners, Regional Traffic Management Center, Roanoke Valley Area MPO, Commuters/Traveling Public, and Regulatory Agencies. 	Org Chart Pages 9 – 11

Section 3.4

Offeror's Team Structure

Section 3.4 Experience of Offeror's Team

The Team is led by W-L Construction with Lead Designer AMT. Credentials for both firms are included within Section 3.4.1, as well as on the work History Forms that are included in Appendix C and include sufficient detail to allow VDOT to understand the relevant previous experiences of each firm.

Section 3.4.1 Experience of Lead Contractor and Lead Designer



W-L Construction & Paving, Inc. (W-L Construction) has been contracting the construction of heavy civil and asphalt paving projects throughout southwest Virginia since 1968. W-L Construction is a wholly owned subsidiary of Oldcastle Materials, Inc. (Oldcastle), the largest building materials company in North America. W-L Construction and its sister companies make Oldcastle the number one supplier of asphalt and third largest supplier of aggregates in the nation, providing over 44 million tons of asphalt and over 121 million tons of aggregates annually. Each day W-L Construction and its Oldcastle partners are building, rebuilding, repairing, and paving America's highways and bridges. Many of W-L Construction's Oldcastle affiliates nationwide lead and construct large transportation projects, including some of the nation's most challenging design-build projects.

W-L Construction's experience in southwest Virginia has included numerous projects involving roadway widening, interstate ramp reconstruction or modification, utility relocation, and asphalt paving. W-L Construction's projects have also included many sensitive environmental constraints, stream relocations, as well as coordination with stakeholders and permitting agencies. W-L Construction's role on these projects has resulted in recognition of the company as a leader in environmentally sensitive construction practices and has allowed members of the firm's management from the executive level through the field staff to develop strong personal bonds with regional staff at DCR, USACE, and other agencies.

In addition to major interstate modification projects, W-L Construction has completed numerous projects in the City of Roanoke and surrounding counties. Some of W-L Construction's most relevant projects not included in the Work History Form include:

- Hollins Road Widening Project, VDOT Project 0601-080-233,C501,B677. This \$8.3 million roadway widening project included construction of additional lanes and a new single span structure along Hollins Road with traffic volumes exceeding 26,000 vehicles per day. *The project included construction of new traffic signals, a sensitive stream relocation, and significant utility adjustments.* The project was completed on time and on budget.
- I-81 Ramp Modification Project, VDOT. This \$11 million project was completed in the mid-1990's and consisted of ramp modifications, extensions, interstate widening, and paving at various locations between mileposts 1 and 84 along I-81 in the Bristol District. *This project required management of multiple interstate work zones simultaneously, construction of ramps and roadway widening under heavy interstate traffic, and close coordination with the VDOT design team throughout construction.* This project would likely exceed \$40 million in 2011 construction dollars.

W-L Construction maintains the largest construction fleet in southwest Virginia including sufficient traffic control equipment and devices to support up to 20 miles of interstate lane closures, over 600 pieces of heavy construction equipment, and 24 asphalt and aggregate production facilities. W-L Construction employees about 450 trained managers, operators, and laborers during the peak construction season.



A. Morton Thomas and Associates, Inc. (AMT) an *Engineering News Record* (ENR) top 500 Design Firm will serve as the Lead Designer for the project. AMT has been providing comprehensive transportation engineering services including roadway design, hydraulic and hydrologic design, interchange improvement design, traffic



engineering, utility relocation design and structure design, planning, surveying, environmental, landscape architecture, and construction inspection services to state, federal and local governments since 1955. Today, AMT continues the tradition of delivering high quality services and developing long-standing relationships with our clients. With more than 300 employees, AMT's talented engineers, technicians, scientists, surveyors and design staff work closely together to meet the many and varied needs of clients including both the design-build and the design-bid-build delivery methods, throughout the Commonwealth of Virginia; including VDOT.

AMT has a proven track record of providing transportation engineering design services to VDOT with a focus on providing a balance between sound engineering solutions, safety, environmental protection and impact avoidance, aesthetic quality, and economic benefit. AMT is one of the few design firms in Virginia that can boast an established CEI practice in addition to their design engineering capabilities. *This mix of design and construction personnel under one roof allows AMT to conduct detailed constructability reviews for all projects, thereby recognizing potential construction challenges prior to construction.* Examples of typical projects have included projects such as VDOT design-build projects Route 460 Connector Phase I and the Region 2 Project 2 Multiple Culvert Rehabilitation contracts, as well as the Eisenhower Avenue Widening project, and MD 4/Suitland Parkway Interchange Project, some of which are described in the Lead Designer's Work History form in Appendix D.



In order to facilitate VDOT's review of the W-L Construction Team's Work History forms we offer the following table which summarizes our team's Significant Strengths in response to the Evaluation Criteria.

Projects over last 10 years Similar in Scope and Complexity	Evidence of Good Performance / Lessons Learned
All 6 projects (Lead Designer and Lead Contractor) demonstrate <u>significant</u> relevant experience	At least 5 projects (Lead Designer and Lead Contractor) have verifiable evidence of good performance <u>and</u> provide applicable lessons learned.
Contractor #1: Interstate 81 Ramp Improvements	
<ul style="list-style-type: none"> ▪ Interstate 81 project location ▪ Includes ramp reconstruction and modifications ▪ Includes new signal construction at ramps for I-81 ▪ VDOT project 	<ul style="list-style-type: none"> ▪ Project completed ahead of schedule ▪ Met demands of project stakeholders and maintained traffic access to truck stops throughout construction ▪ Lessons learned working with project stakeholders
Contractor #2: Dominion Power Plant Design-Build Project	
<ul style="list-style-type: none"> ▪ Fast paced, design-build project ▪ Required coordination with multiple contractors and specialty subcontractors ▪ Roadway projects funded in part and inspected by VDOT ▪ Similar project budget with W-L Construction's task order budgets exceeding \$25 million 	<ul style="list-style-type: none"> ▪ Task orders continued and nearly doubled due to good performance ▪ Worked accident free throughout construction ▪ Learned valuable lessons regarding coordination of contractors on large projects with close working quarters ▪ Learned to thrive in design-build environment
Contractor #3: Wonju Street Ramp Modification / Colonial Avenue Widening Project	
<ul style="list-style-type: none"> ▪ Ramp modification project on I-581 ▪ Project located in City of Roanoke ▪ Required coordination with similar stakeholders – Towers Mall, City of Roanoke, etc. ▪ Included new traffic signal construction ▪ VDOT project 	<ul style="list-style-type: none"> ▪ Modified project approach to reduce impacts to users and finish project ahead of schedule ▪ Received praise from VDOT and City for working closely with project stakeholders and addressing user needs ▪ Lessons learned in early coordination with project stakeholders such as mall, City, and VDOT
Designer #1: Eisenhower Avenue Improvements	
<ul style="list-style-type: none"> ▪ Significant ROW and utility constraints ▪ Located in City of Alexandria (urban) ▪ Complex MOT planning required ▪ Stakeholder coordination at all stages ▪ VDOT funded project 	<ul style="list-style-type: none"> ▪ AMT received multiple letters of recommendation and appreciation from City Project Managers for design work ▪ Learned lessons regarding balance of stakeholder wants, owner needs, and project financing ▪ Learned lessons of multi-discipline engineering team

Designer #2: Route 460 Connector Phase I Design-Build	
<ul style="list-style-type: none"> ▪ Close coordination between roadway and bridge designers ▪ Design-build delivery method ▪ Significant size project – \$90 million ▪ VDOT project 	<ul style="list-style-type: none"> ▪ AMT received letter of recognition from VDOT PM for work on roadway design ▪ Learned lessons regarding multi-discipline design coordination working closely with structural engineering team on a daily basis
Designer #3: MD4/Suitland Parkway Interchange Project	
<ul style="list-style-type: none"> ▪ Major urban interchange design ▪ Interchange concept studies completed ▪ Extensive MOT and traffic engineering ▪ Includes all major scope items identified for I-581 	<ul style="list-style-type: none"> ▪ AMT recognized for MOT development and led agency-wide discussion of plan development and components at annual MDOT conference ▪ Lessons include stakeholder coordination – regulatory agencies, AAFB, and MOT plans

The W-L Construction Team has been carefully chosen to provide the necessary expertise to successfully design and construct the I-581/Valley View Interchange Improvement project. AMT will lead the design including coordination and review of all subconsultant work for the project. The role and firm history of each subconsultant is included below:



DLB has been in business for over 22 years, operating out of Hillsville, Virginia located in the Salem District. Established in 1987, DLB is a VDOT certified general contractor with diverse and extensive experience in road, bridge, and utility construction. DLB's more than 250 personnel represent a well balanced cross section of the industry, including equal portions seasoned professionals with years of experience to draw upon and young innovators providing fresh views for modern challenges.

In addition to the subcontractor role DLB is fulfilling on the Route 58 PPTA project, DLB also holds two VDOT design-build contracts as the prime contractor: the Region 1 Multiple Culvert Rehabilitation Project 1 and the Region 2 Multiple Culvert Rehabilitation Project 2. DLB is currently completing the \$22 million Route 11 widening project in the City of Salem and a \$1 million streetscape project at the Hershberger Road / I-581 Interchange and bring the project an established local workforce ready to mobilize for work.



Athavale, Lystad and Associates, Inc. (ALA) is a civil and structural engineering consulting firm with offices located in McLean, Virginia and Rockville, Maryland. Founded in 1985, ALA has provided professional services in structural, civil, and hydraulic engineering as well as construction inspection services for transportation related projects to a wide range of public sector clients, including VDOT. The philosophy of the firm is to consistently produce high-quality engineering solutions within the client's budget and schedule. ALA's current staff consists of 48 professional, technical and support personnel over 25% of which are registered Professional Engineers – most with advanced college degrees. Further, ALA has 12 structural engineers on staff, of which 11 are located in the firm's McLean office.



AMEC is an industry leader in engineering, geotechnical, environmental and management consulting services and recently enhanced its architectural and engineering (A/E) capabilities through the acquisition in June 2011 of MACTEC Engineering & Consulting, Inc. AMEC currently has three offices in Virginia (Ashburn, Richmond, and Abingdon). AMEC maintains a strong transportation business practice with a staff of over 600 transportation professionals who currently perform approximately \$100 million of services for transportation projects annually.

Examples of expertise as it relates to the unique challenges of this contract include:

- I-81 Salem District Truck Climbing Lanes
- US 460 Christiansburg Bypass
- US 460 Connector Phase I
- I-495 HOT Lanes
- Smart Highway Bridge
- I-95/I-395/I-495 Springfield Interchange

A woman-owned, Virginia SWaM certified business established in 1881, Froehling & Roberston, Inc. (F&R) is a multidisciplinary engineering firm that provides clients with a full range of services. These services include construction materials testing and environmental and geotechnical engineering. F&R's Roanoke office has more than fifty (50) employees and has been providing engineering services to southwestern Virginia since 1961 and has worked with VDOT on hundreds of project, including providing including QC testing and inspection for the I-81 Truck Climbing Lanes project in the Salem District.



Traffic Signals Plus, PLLC, (TSP), recently formed in August 2010 with an office located in Cumberland County, Virginia. TSP is managed and operated by Earl G. Hughes, PE, PTOE. Mr. Hughes has over 23 years of experience including 15 years with VDOT. Over the 23 year period numerous projects were completed throughout Virginia and other parts of the region including Ohio, Florida, Maryland, New York, Maine and the District of Columbia. TSP provides traffic engineering design services as well as planning and studies. The company also offers services in the areas of traffic signal design, lighting design, maintenance of traffic, work zone safety, traffic simulation, crash analysis and catalog cut/shop drawing review.



Diversified Property Services, Inc. (DPS), a certified DBE, offers a comprehensive, coordinated approach to right of way projects. DPS has had significant success in obtaining right of way contracts led them to establish a permanent, experienced, multi-disciplined team devoted solely to our clients. Today, that team consists of twenty-eight (28) professionals including ROW agents, relocation agents, technicians, appraisers, appraisers, title agents, attorneys and managers. DPS has provided similar services on significant VDOT projects such as the Route 28 PPTA project in NOVA.



Quinn Consulting Services, Inc. (QCS) is a woman owned VDOT-certified WBE/DBE firm that offers construction inspection, and construction management services to federal, state, municipal, and private clients. As a sub-consultant, QCS has supported VDOT district-wide, regional and/or project-specific CEI contracts including in the Salem District.



Pulsar Advertising, Inc. (Pulsar) is the nation's premier agency specializing in transportation, congestion and construction mitigation communications planning, transportation demand management (TDM), marketing, branding, public relations, outreach, and digital communications. Pulsar is proud of the impact they have made in participating in the development of and communicating environmentally sustainable plans, planning for and implementing construction mitigation related communications and assisting with state and local agencies with brand development.



HMMH, Inc. (HMMH) provides a range of consulting services to government and private sector clients related to aviation, highway, rail, transit, bus, industrial, construction, military, recreational, entertainment, and renewable energy projects. HMMH has a nationwide reputation for technical excellence in highway noise and vibration control. Our clients include engineering firms, state departments of transportation, the Federal Highway Administration (FHWA), private land developers, and homeowners. Our innovative solutions include the development of the FHWA's highway noise prediction computer program, the Traffic Noise Model (TNM).

In order to facilitate VDOT's review of this section, we offer the following table which summarizes our team's Significant Strengths in response to the Evaluation Criteria.



Evaluation Criteria	W-L Construction Team Significant Strengths																																																																																																																																																							
<p>Offeror's supply chain management procedures used in the selection of subconsultants and major subcontractors demonstrate a commitment to a transparent process to the selection of subconsultants and major subcontractors that always considers factors other than price such as past performance and capability.</p>	<ul style="list-style-type: none"> DLB chosen as primary subcontractor based on long standing relationship with W-L Construction and AMT. DLB's strengths compliment W-L Construction's strengths. DLB has significant local experience in the Salem District. ALA chosen as subconsultant for structural design based on previous design experience on large interstate interchange projects, extensive in-house structural experience, VDOT respected structural engineering practice, and an established relationship with AMT. AMEC chosen as subconsultant for geotechnical engineering based on previous experience working in the Salem District, working on VDOT design-builds, and work with AMT. F&R chosen for QC testing based on past relationships with W-L Construction and AMT and proximity to project location to allow flexible response to needs. TSP selected based personal relationships between TSP founder and AMT key staff. DPS was selected based on relationships with AMT and VDOT design-build experience. QCS was selected based on successful CEI relationship with AMT. Pulsar was selected based on recent experiences on VDOT projects. TSP, DPS, QCS, and Pulsar were given special consideration as DBE firms. 																																																																																																																																																							
<p>Subconsultants and/or subcontractors included in Detailed Proposal offer material benefits and added value demonstrated by best in class competence or a reputation built over time, evidenced by awards or other commendations.</p>	<ul style="list-style-type: none"> AMEC has best in class reputation (currently ranked 6th in ENR Top 500 engineering firms) ALA and AMEC bring proven VDOT experience. F&R brings most knowledgeable local staff for QC testing. DPS brings proven experience providing similar services for the Route 28 PPTA. Pulsar is nationally recognized for their work in public relations. DLB (structures & utilities) compliments W-L Construction's strength (grade) and key personnel have long standing personal relationships. HMMH is a national leader in air and noise studies and developed the FHWA's noise predication program Traffic Noise Model (TNM). 																																																																																																																																																							
<p>Offeror provides examples of evidence of long-standing good relationships with its subconsultants and major subcontractors from previous successful projects.</p>	<ul style="list-style-type: none"> Experience of W-L Construction Team working together on past projects. W-L Construction and AMT have worked together for over 18 years on VDOT projects. AMT works together daily on multiple projects with ALA, AMEC, QCS, and F&R. W-L and DLB share current teaming relationship on similar projects requiring bridge & grade components. Partners were selected to fill specific areas of expertise and were selected based on past relationships with one or more team members. <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="5">Anchors</th> <th colspan="5">Partners</th> </tr> <tr> <th>W-L</th> <th>AMT</th> <th>DLB</th> <th>ALA</th> <th>AMEC</th> <th>DPS</th> <th>F&R</th> <th>HMMH</th> <th>Pulsar</th> <th>QCS</th> <th>TSP</th> </tr> </thead> <tbody> <tr> <th rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Anchors</th> <th>W-L</th> <td style="background-color: #cccccc;"></td> <td>✓</td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <th>AMT</th> <td>✓</td> <td style="background-color: #cccccc;"></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <th>DLB</th> <td>✓</td> <td>✓</td> <td style="background-color: #cccccc;"></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <th>ALA</th> <td></td> <td>✓</td> <td>✓</td> <td style="background-color: #cccccc;"></td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <th>AMEC</th> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td style="background-color: #cccccc;"></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <th rowspan="6" style="writing-mode: vertical-rl; transform: rotate(180deg);">Partners</th> <th>DPS</th> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td style="background-color: #cccccc;"></td> <td>✓</td> <td></td> <td>✓</td> <td></td> <td>✓</td> </tr> <tr> <th>F&R</th> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td style="background-color: #cccccc;"></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <th>HMMH</th> <td></td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td style="background-color: #cccccc;"></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <th>Pulsar</th> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td style="background-color: #cccccc;"></td> <td>✓</td> <td>✓</td> </tr> <tr> <th>OCS</th> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td style="background-color: #cccccc;"></td> <td></td> </tr> <tr> <th>TSP</th> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td style="background-color: #cccccc;"></td> </tr> </tbody> </table>			Anchors					Partners					W-L	AMT	DLB	ALA	AMEC	DPS	F&R	HMMH	Pulsar	QCS	TSP	Anchors	W-L		✓	✓		✓	✓	✓		✓	✓	✓	AMT	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	DLB	✓	✓		✓	✓	✓	✓		✓	✓	✓	ALA		✓	✓		✓		✓	✓	✓	✓		AMEC	✓	✓	✓	✓			✓	✓	✓	✓	✓	Partners	DPS	✓	✓	✓			✓		✓		✓	F&R	✓	✓	✓	✓	✓			✓	✓	✓	HMMH		✓		✓	✓	✓		✓			Pulsar	✓	✓	✓	✓	✓	✓	✓		✓	✓	OCS	✓	✓	✓	✓	✓	✓	✓	✓			TSP	✓	✓	✓		✓	✓	✓	✓	✓	
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Section 3.5

Project Risk

Section 3.5 Project Risk

The W-L Construction Team has carefully reviewed the scope of work for the I-581 Valley View Interchange Phase II project and visited the project site on multiple occasions. **The team has engaged in multiple discussions of project risk and recognizes that it is valuable to differentiate between project challenges and project risks.** For example, the most obvious feature of the project to our team is the successful management of bicycle, pedestrian and vehicular traffic throughout the course of construction. The W-L Construction Team has deemed this feature to be a *challenge* because the team will be required to meet the clearly defined parameters of the RFP and adhere to established guidelines regarding development of the traffic management plans, work zone setups, etc. Successful management of the traffic will be a significant *challenge* that must be considered when developing the team's preliminary design plans, method of operations, and pricing as it will affect production rates, working hours, and project phasing. Failure to meet project challenges could be defined as a project *risk*, but that determination in itself implies lack of confidence in the design-builder's ability to design and construct the project in accordance with the RFQ and subsequent RFP.

With the mindset of project *risk* being defined as an issue that has the potential to impact the project schedule, budget, or both, the team has identified the three most serious risks facing the design-build team during the course of the project:

1. **Delays from Third Parties** – receipt of the water quality permits to construct the project will likely be on the CPM schedule's critical path and therefore the potential for delays due to regulatory agency reviews would result in an impact the project schedule and budget.
2. **Geotechnical Risks** – the project location is in an area of known karst features and the potential for erratic bedrock elevations, sinkholes, and poor soils exist throughout the footprint of the project, including the foundation location of the planned structure widening.
3. **Negative Public Relations** – if the project receives continual negative publicity due to traffic congestion, environmental impacts, delays, or unplanned lane closures the design-build team could be required to hold additional public meetings, delay traffic switches, or generally slow the project.

The W-L Construction Team will employ the CMAA endorsed approach to risk management through the use of a "Risk Register" which includes a formal list of identified risks, potential impacts to the project, and mitigation strategies for each issue. The team's risk management process has already commenced and will continue throughout planning, design, and construction of the project. A successful risk management process is robust because it must consider project risks throughout all facets of the project's life and delivery processes. Risk management must also be dynamic whereas the team can respond to changes in phases of the project, changes to the scope of work, or changes to the team's approach to completing the scope of work.

The W-L Construction Team will employ a five step risk management approach to the project including the following stages:

1. Identify – identify risks facing the project, determine cause and effect, and categorize risks
2. Assess – assign probability of occurrence, severity of impact, and determine response
3. Analyze – quantify risk severity, determine risk exposure, establish risk tolerance level, and determine risk contingency (**applicable during preliminary design and pricing**)
4. Manage – define response plans and actions, establish ownership of risk, and manage response (**after NTP**)



5. Monitor / Review – monitor/review/update risks, monitor response plans, update risk exposure, analyze trends, and produce reports (**after NTP, during design, during construction**)

The team has reviewed each of the three most critical risks and provided an overview of the team’s approach to risk management with respect to each risk. The team’s approach to steps 3-5 of the Risk Management Plan will be activated following receipt of the RFP and the scope of work is more defined.

Risk No. 1 – Delays from Third Parties

Activities outside those controlled by the design-build team or VDOT are deemed to be under the control of third parties. The project will require water quality permits, design reviews by key stakeholders, and governmental approvals prior to commencement of construction and certain construction milestones.

Identify The team has identified three specific components associated with this area of risk:

1. Delay in the permit application review by the US Army Corps of Engineers;
2. Delay in issuance of project permits this impacting notice to proceed for construction; and
3. Delay by the City of Roanoke in review of design submittals.



Assess The team has assessed the potential impact of each component of Item 1 as shown below:

Risk Issue	Impact Severity	Potential Impact to Project
1A Delay in permit application review	Medium	Delays in review of the permit application could negatively affect the design and overall project schedule. These delays would certainly affect the CPM critical path which would result in a time and money impact to the team. The Team will place emphasis on coordination with District environmental staff to ensure smooth preparation, submittal, and review of the environmental permit for the project. The Team will depend on AMT’s Jeff Kite as a former environmental monitor and engineer with VDOT to ensure success with this task.
1B Delay in receipt of permit for project	High	Delay in receipt of water quality permits would delay a significant portion of the project and adversely affect the project schedule. Delays in permitting would be a direct impact to the start and finish of construction milestones. The Team will allow for ample review time for regulatory agencies in the project schedule and will proactively partner with permitting agencies to answer questions and facilitate their reviews where possible.
1C Delays due to City of Roanoke	Medium	Delays associated with design reviews or other submittals requiring interaction with the City of Roanoke could negatively affect the design and overall project schedule. The Team will include the City of Roanoke as a project partner and will proactively solicit their input on various matters as to keep the project on track to meet the City’s expectations. The Team will rely on the strong personal relationships between the City of Roanoke and the Lead Contractor and Lead Designer from previously completed City projects.



No. 2 – Geotechnical Risks

Because the project is located in an area of known karst terrain the potential for erratic bedrock elevations, sinkholes, and unsuitable soils is higher than that of most projects. There are additional geotechnical concerns associated with the widening of I-581, construction of retaining walls, and potential sound wall foundations throughout the project. Hazardous geotechnical conditions can potentially impact the project schedule and costs due to analysis, redesign, and construction changes.

Identify The team has identified four specific components associated with this area of risk:

1. Erratic bedrock elevations in the area of planned bridge foundations;
2. Erratic bedrock elevations in the area of potential sound walls;



3. Karst features or increased sinkhole formation could impact overall stormwater management, construction techniques, and costs throughout the project; and
4. Soft soil conditions along the planned retaining wall alignment and areas of roadway widening could result in additional undercut, costs of soil improvement, and increased time associated with soil improvement operations.

Assess The team has assessed the potential impact of each component of Item 2 as shown below:

Risk Issue	Impact Severity	Potential Impact to Project
2A Erratic bedrock at bridge location	Medium	Potential karst site conditions will accelerate work during scope validation period, may require additional field sampling, laboratory analysis, and design alternative discussions. With increased effort during design potential still exists for construction cost over runs due to increased pile lengths. The Team will rely on the experience of the AMEC to lead the geotechnical engineering analyses, concentrating on bridge foundations, including work associated with drilled shafts for the center pier. Team will use geophysical studies to compliment traditional techniques. 
2B Erratic bedrock at sound wall location	Medium	Potential for increased cost and time for geotechnical studies associated with sound wall foundations over large linear footprint. Some unknowns given current lack of geotechnical data along sound wall alignment could result in higher contingency during pricing stage. The Team will rely heavily on AMEC’s local knowledge of the geotechnical conditions and specific past experience with sound wall foundation design for the HOT Lanes project. Team will use geophysical studies to compliment traditional techniques.
2C Karst / sinkhole features	Medium	If sinkholes are identified or develop during construction delays will be encountered to develop corrective action, examine impacts on structure/fill/roadway, and review the overall hydrological model for project. The Team will rely on AMEC’s strong geotechnical staff and their depth of experience with similar karst features. The Team will develop standard repair methods and contingency plans for potential situations during construction. Team will use geophysical studies to compliment traditional techniques.
2D Soft soil conditions	Low	Soft soils encountered during construction could result in additional areas of undercut, need for temporary shoring, modified foundation design, etc along alignment of planned retaining wall and roadway widening along southbound I-581. The Team will focus on this area during scope validation and final design to accurately characterize site soils and potential for impacts during construction. The Team will involve the geotechnical engineer during construction to assess actual site conditions allowing faster recognition and resolution of problems due to soft soil conditions.

Risk No. 3 – Negative Public Relations

Some of the most notable challenges facing the project are the potential for severe traffic congestion within the project limits to the point it impacts local businesses, delays in completing the project, and environmental permitting associated with the relocation of Lick Run Creek adjacent to the existing Lick Run Greenway. The construction of this project will be the most visible, highly scrutinized project completed in the Roanoke area in recent memory. Failure to meet the users’ expectations could lead to negative public relations which could adversely affect the design-build team.

Identify The team has identified the three specific risks associated with this area of risk:

1. Severe traffic congestion within the project limits that adversely affects consumers’ abilities to access merchants in and surrounding the Valley View Mall property could result in complaints from public and stakeholders creating the need to reassess plans of operations, phasing, and traffic control setups;
2. Delay to the project completion date that extends the period of time consumers, motorists, and other users are inconvenienced by the construction activities



associated with the project resulting in similar complaints as those noted above; and

3. Involvement of environmental activists or other conservationists in an attempt to delay or otherwise stop the project resulting in public outcry similar to that recently observed in Albemarle County relative to the Route 29 design-build project.

Assess The team has assessed the potential impact of each component of Item 3 as shown below:

Risk Issue	Impact Severity	Potential Impact to Project
3A Bad PR from traffic congestion	Medium	Regardless of the team’s compliance with the requirements of the RFP regarding traffic restrictions, a constant barrage of public complaints, business complaints, stakeholder concerns, or other questions during the course of the project would result in the design-build team re-evaluating plans of operations, accommodating stakeholders requests, and devoting additional resources to the management of the project than required by the contract. The Team will proactively involve local stakeholders in project partnering, has dedicated a public relations specialist to the team, and will work diligently to address public input and suggestions at each step of the project. 
3B Bad PR from project delays	Low	If the project completion date is extended, with or without owner approval, the duration of impacts to users will be increased potentially resulting in public complaints or bad public relations. The Team will consider interim project milestones that would allow opening completed portions of the project as soon as possible to maximize the functionality of the project, improve access to businesses, and decrease delays to users. The Team will work closely with project stakeholders to understand all concerns, address those determined to be most serious, and constantly monitor and re-evaluate additional concerns from stakeholders at each stage of the project.
3C Environmental activists	Low	Because the project involves about 900 linear feet of projected impacts to waters of the US and the project is highly visible, there is the potential for environmental support groups to take a stand against the project and lobby regulatory agencies for more stringent permits. The Team will reach out to identifiable conservation groups, work with local stakeholders, and practice impact avoidance throughout the course of the project to those minimally required to construct the project.

The role of VDOT and other agencies in addressing these risks is noted below:

Risk Item	VDOT or 3 rd Party	Role in Addressing the Risk
1A	VDOT, USACE	VDOT should reciprocate the team’s emphasis on partnering between District environmental staff, design build team members, and permitting agencies. All permitting activities should be a top priority for VDOT as they are for the team. Any potential or actual delays should be communicated immediately to allow contingency plans to be activated.
1B		
1C	VDOT, City of Roanoke	City of Roanoke staff should be advised regarding impacts to design build team’s schedule and importance of timely reviews. VDOT should expedite delivery of submittals to City staff.
2A	VDOT	VDOT should take partnering approach and engage in open communication regarding solutions employed elsewhere within VDOT, provide timely reviews, and coordinate between divisions. VDOT should expedite decision on sound wall scope, provide previous data in area of planned walls, and advise of past construction problems along the I-581 corridor due to karst features.
2B		
2C		
2D	VDOT	VDOT should consider scope validation potential for highly variable geotechnical conditions and be open to team’s findings during this period.
3A	VDOT, City of Roanoke, Project Stakeholders	VDOT, the City of Roanoke, and other project stakeholders should be fully engaged in project partnering, speak openly about concerns regarding construction, clearly convey project desires, and outline expectations of the design-build team. Clear communication of these issues up front will streamline the overall project approach and allow the team to “get it right the first time” with respect to key stakeholder concerns and needs.
3B		
3C		

Appendix A

ATTACHMENT 3.1.2

0581-128-109, P101, RW201, C501, B627

STATEMENT OF QUALIFICATIONS CHECKLIST AND CONTENTS

(Revised December 05, 2011)

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 20-page limit?	SOQ Page Reference
Statement of Qualifications Checklist and Contents	Attachment 3.1.2	Section 3.1.2	no	Appendix A
Acknowledgement of RFQ, Revision and/or Addenda	Attachment 2.10 (Form C-78-RFQ)	Section 2.10	no	Appendix A
Letter of Submittal (on Offeror's letterhead)				
Offeror's point of contact information	NA	Section 3.2.1	yes	1
Authorized Representative's signature	NA	Section 3.2.1	yes	4
Principal officer information	NA	Section 3.2.2	yes	1
Offeror's Corporate Structure	NA	Section 3.2.3	yes	2
Affiliated/subsidiary companies	NA	Section 3.2.4	yes	2
Debarment forms	Attachment 3.2.5(a) Attachment 3.2.5(b)	Section 3.2.5	no	Appendix E
Offeror's VDOT prequalification evidence	NA	Section 3.2.6	no	Appendix A
Evidence of obtaining bonding	NA	Section 3.2.7	yes	5
Professional Services Evidence				
Full size copies of SCC and DPOR registration documentation (appendix)	NA	Section 3.2.8	no	Appendix D

ATTACHMENT 3.1.2

0581-128-109, P101, RW201, C501, B627

STATEMENT OF QUALIFICATIONS CHECKLIST AND CONTENTS

(Revised December 05, 2011)

Statement of Qualifications Component	Form (if any)	RFQ Cross reference	Included within 20-page limit?	SOQ Page Reference
SCC Registration	NA	Section 3.2.8.1	yes	2 – 3
DPOR Registration (Offices)	NA	Section 3.2.8.2	yes	3 – 4
DPOR Registration (Key Personnel)	NA	Section 3.2.8.3	yes	4
DPOR Registration (Non-APELSCIDLA)	NA	Section 3.2.8.4	yes	4
DBE statement within Letter of Submittal confirming Offeror is committed to achieving the required DBE goal	NA	Section 3.2.9	yes	4
Offeror's Team Structure				
Identity of and qualifications of Key Personnel	NA	Section 3.3.1	yes	6
Key Personnel Resume – DB Project Manager	Attachment 3.3.1	Section 3.3.1.1	no	Appendix B
Key Personnel Resume – Quality Assurance Manager	Attachment 3.3.1	Section 3.3.1.2	no	Appendix B
Key Personnel Resume – Design Manager	Attachment 3.3.1	Section 3.3.1.3	no	Appendix B
Key Personnel Resume – Construction Manager	Attachment 3.3.1	Section 3.3.1.4	no	Appendix B
Key Personnel Resume – Lead Structural Engineer	Attachment 3.3.1	Section 3.3.1.5	no	Appendix B
Organizational chart	NA	Section 3.3.2	yes	8
Organizational chart narrative	NA	Section 3.3.2	yes	9 – 11
Experience of Offeror's Team				
Lead Contractor Work History Form	Attachment 3.4.1(a)	Section 3.4	yes	12 – 16
		Section 3.4	no	Appendix C

ATTACHMENT 3.1.2

0581-128-109, P101, RW201, C501, B627

STATEMENT OF QUALIFICATIONS CHECKLIST AND CONTENTS

(Revised December 05, 2011)

Statement of Qualifications Component	Form (if any)	RFQ Cross reference	Included within 20-page limit?	SOQ Page Reference
Lead Designer Work History Form	Attachment 3.4.1(b)	Section 3.4	no	Appendix C
Project Risk				
Identify and discuss three critical risks for the Project	NA	Section 3.5.1	yes	17 – 20

Appendix B

**ATTACHMENT 3.3.1
KEY PERSONNEL RESUME FORM**

Brief Resume of Key Personnel anticipated for the Project.	
a. Name & Title:	Jerry L. Short, PE, PLS Vice President/General Manager
b. Project Assignment:	Design-Build Project Manager
c. Name of Firm with which you are now associated:	W-L Construction & Paving, Inc.
d. Years experience: With this Firm <u>13</u> Years With Other Firms <u>24</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>Vice President/General Manager.....W-L Construction & Paving, Inc.....2009 – Present Vice President Operations.....W-L Construction & Paving, Inc..... 1998 – 2009 Vice President Operations.....Mountain Enterprises, Inc..... 1985 – 1998</p>
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization:	Associate of Science / 1974 / Civil Engineering / University Kentucky-Southeast Community College
f. Active Registration: Year First Registered/ Discipline/VA Registration #:	1984Kentucky Professional Engineer No. 14010 1984West Virginia Professional Engineer No. 10017 1980Kentucky Professional Land Surveyor No. 2370
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 Name:	Alternate Route 58 Widening Projects, Sections E28 and E29
Name of Firm:	W-L Construction & Paving, Inc.
Start Date:	2002
End Date:	2005
Project Role:	Project Manager
Responsibilities:	Mr. Short was responsible for the overall management of two concurrent and adjoining sections of the Route 58 widening program valued at over \$37.3 million. The projects including the new construction of approximately 8 miles of 4-lane roadway in Lee and Wise Counties, Virginia. This included but was not limited to mass grading, drainage, traffic control, box culverts, and paving. Mr. Short also played an instrumental role in procurement of supplies and materials as well as coordinating with property owners, resident project representatives and subcontractors. He had a pivotal role in oversight of crushing operations of the rock cuts to utilize on-site aggregate products as a value engineering concept.

Client/Owner:	Virginia Department of Transportation Mr. Chris V. Blevins, P.E. District Construction Engineer 276.669.6151
Project Name:	Corridor G Widening Program, Route 119
Name of Firm:	Mountain Enterprises, Inc.
Start Date:	1992
End Date	1994
Project Role:	Project Manager
Responsibilities:	Mr. Short was responsible for the overall management of five roadway widening and bridge construction projects included in the Corridor G program with a total construction value of \$150 million. Project work included over 33 million yards of excavation, construction of numerous bridges, and construction of approximately 14 miles of new divided highway. Mr. Short was responsible for overall project management for the projects and directed the work of Mountain Enterprises staff including Bizzack Construction, West Virginia Paving, and other affiliates. He was the point of contact for the West Virginia DOH officials, managed overall project quality, and oversaw a staff of up to 14 during the course of the project. He provided oversight of scheduling and performance of subcontractors and suppliers.
Client/Owner:	West Virginia Department of Highways Mr. Steve Hardin PE Construction Engineer 304-558-3304
Project Name:	Colonial Avenue Improvements and Wonju Street Ramp Upgrades
Name of Firm:	W-L Construction & Paving, Inc.
Start Date:	2008
End Date	2008
Project Role:	Project Manager
Responsibilities:	Mr. Short was responsible for overall management of this \$2.1 million contract for construction of widening, on-ramps, acceleration and deceleration lanes, drainage, and paving near the Towers Mall in Roanoke. This project was located in an urban environment where traffic control was a major focus. He provided oversight to scheduling and performance of all subcontractors and suppliers, as well as coordination with numerous specialty subcontractors.
Client/Owner:	Virginia Department of Transportation Mr. Robbie Williams, PE District Construction Engineer 540.387.5345

Project Name:	Interstate 81 Ramp Upgrade Projects, Exits 77, 80, 126
Name of Firm:	W-L Construction & Paving, Inc.
Start Date:	2008
End Date	2009
Project Role:	Project Manager
Responsibilities:	Mr. Short was responsible for overall management of these contracts valued at a total of \$2.2 million, which included the widening of three northbound off-ramps and two southbound on-ramps to facilitate turning lanes and deceleration lanes on I-81. He provided oversight to scheduling and performance of numerous subcontractors and suppliers and the effectiveness of the crew on site. Two of the projects were located in Wytheville, Virginia where traffic between the I-81 and I-77 corridors was prevalent and required constant attention. Mr. Short was instrumental in coordinating these traffic control measures.
Client/Owner:	Virginia Department of Transportation Mr. Chris V. Blevins, PE District Construction Engineer 276.669.6151
Project Name:	Dominion Coal Fired Plant- Ash Haul Road and Russell Creek Road Projects
Name of Firm:	W-L Construction & Paving, Inc.
Start Date:	2008
End Date	On-going
Project Role:	Project Manager
Responsibilities:	Mr. Short is responsible for project management for a variety of site work tasks at the new coal fired power plant located in Virginia City, Virginia. W-L Construction has completed over \$25 million in work through a number of task orders associated with this \$1.5 billion capital project including construction of multiple roadways, drainage, erosion measures, mass grading, and paving which was performed for The Shaw Corporation. The project is a fast-paced, design-build delivered project requiring close coordination between W-L Construction, The Shaw Corporation, and Dominion Power. This project employs a very strict safety program which W-L Construction was more than capable of meeting with a very proactive program in place themselves.
Client/Owner:	Dominion Power Mr. Charlie Scott Site Director 276.762.2092

**ATTACHMENT 3.3.1
KEY PERSONNEL RESUME FORM**

Brief Resume of Key Personnel anticipated for the Project.																																				
a. Name & Title:	Preston Breeding, PE, CCM, Senior Associate																																			
b. Project Assignment:	Quality Assurance Manager																																			
c. Name of Firm with which you are now associated:	A. Morton Thomas and Associates, Inc.																																			
d. Years experience: With this Firm <u>4</u> Years With Other Firms <u>7</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>AssociateA. Morton Thomas and Associates.....06/2007 – Present Project Controls Engineer.....VDOT 11/2005 – 06/2007 Senior Engineer/Office ManagerMACTEC Engineering & Consulting..... 03/2002 – 11/2005 Graduate FellowMassachusetts Institute of Technology 08/2001 – 03/2002 Staff Geotechnical EngineerS&ME, Inc..... 12/2000 – 08/2001 Engineering Trainee.....FHWA/Eastern Federal Lands..... 08/1997 – 06/1999</p>																																			
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization:	<p>University of Tennessee, Knoxville, TN / Bachelor of Science / 2000 / Civil Engineering MIT, Cambridge, MA / Graduate Engineering Studies / 2001-2002 / Geotechnical Engineering</p>																																			
f. Active Registration: Year First Registered/ Discipline/VA Registration #:	<table border="0"> <tr> <td>2004</td> <td>Virginia</td> <td>Professional Engineer</td> <td>No.</td> <td>40251</td> </tr> <tr> <td>2009</td> <td>North Carolina</td> <td>Professional Engineer</td> <td>No.</td> <td>35567</td> </tr> <tr> <td>2009</td> <td>Tennessee</td> <td>Professional Engineer</td> <td>No.</td> <td>11318</td> </tr> <tr> <td>2009</td> <td>District of Columbia</td> <td>Professional Engineer</td> <td>No.</td> <td>905316</td> </tr> <tr> <td>2009</td> <td>Maryland</td> <td>Professional Engineer</td> <td>No.</td> <td>37199</td> </tr> <tr> <td>2009</td> <td>West Virginia</td> <td>Professional Engineer</td> <td>No.</td> <td>18263</td> </tr> <tr> <td>2011</td> <td>CMAA</td> <td>Certified Construction Manager</td> <td></td> <td></td> </tr> </table>	2004	Virginia	Professional Engineer	No.	40251	2009	North Carolina	Professional Engineer	No.	35567	2009	Tennessee	Professional Engineer	No.	11318	2009	District of Columbia	Professional Engineer	No.	905316	2009	Maryland	Professional Engineer	No.	37199	2009	West Virginia	Professional Engineer	No.	18263	2011	CMAA	Certified Construction Manager		
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Project Name:	Route 460 Widening and Flood Proofing Project																																			
Name of Firm:	A. Morton Thomas and Associates, Inc.																																			
Start Date:	2007																																			
End Date:	2009																																			
Project Role:	CEI Project Manager																																			

Responsibilities: Project was \$24 million, roadway widening and bridge construction project involving excavation of over 1,000,000 cubic yards of rock and construction of two new bridges over Slate Creek. All work was completed under heavy traffic in a historic downtown setting.

Responsible for:

- Day-to-day management of the project, including direction of inspection staff
- Oversight of project Quality Assurance procedures and plan
- Monitoring of Contractor's Quality Control program
- Monitoring of project budget - despite multiple Work Orders, project is on track to finish under contract award amount
- Direction, scheduling, and leading of weekly project progress meetings
- Monitoring Contractor's CPM schedule, including monthly reviews and approvals despite significant 9-month delay at project onset, project was finished ahead of the project completion date
- Coordination of materials testing with District Materials office
- Coordination of shop drawing review
- Drafting all project correspondence for Area Construction Engineer
- Preparing all Work Orders (22 total) for project, including preparation of cost comparisons and FHWA concurrence documentation
- Directing communication with Contractor's on-site and corporate management staff
- Leading project-level partnering efforts to resolve issues at lowest possible level working closely with project designers to develop redesign and creation of project "Green Space" resulting in over \$1 million cost savings to the Department
- Leading VDOT coordination with local officials, including Town of Grundy, USACE, Buchanan IDA, and state and local law enforcement agencies
- Leading efforts to redesign rock cut slopes to provide more constructible slopes in lower-lying shales, thereby reducing long term maintenance by VDOT

Client/Owner: Virginia Department of Transportation
 Lebanon Residency, Bristol District
 Robert Griffith, PE
 Area Construction Engineer
 276.889.7600

Project Name: Coalfields Expressway (PPTA)

Name of Firm: A. Morton Thomas and Associates, Inc.

Start Date: 2008

End Date: 2011

Project Role: Independent Quality Manager

Responsibilities: Project was a PPTA project involving excavation of over 10,000,000 cubic yards of rock to create 2 miles of roadway subgrade through surface mining activities. Project involved use of non-standard practices, placement of durable rock fills up to 400 feet in height using 50-foot lifts, and project completion through a "coal synergy" concept.

Responsibilities: (continued)	<p>Responsible for:</p> <ul style="list-style-type: none"> - Oversight of on-site inspection staff in accordance with details of PPTA oversight agreement Coordination of geotechnical and construction oversight of all construction activities - Development of project-specific documentation, including submission of monthly summary reports - Verification of final slope construction - Verification of permit compliance in accordance with approved Department of Mines, Minerals, and Energy (DMME) permit for surface mining operations. - Coordination with FHWA, DMME, DMLR, OSM, and EPA
Client/Owner:	<p>Virginia Department of Transportation Bristol District Office Jeffrey Powell, PE, PMP CFX Project Manager 276.669.6151</p>

Project Name:	Region 2, Project 2 Multiple Culvert Rehabilitation Project
Name of Firm:	A. Morton Thomas and Associates, Inc.
Start Date:	2009
End Date:	On-going
Project Role:	Quality Assurance Manager
Responsibilities:	<p>Design-Build QAM for rehabilitation of 31 culvert locations in VDOT's Lynchburg District. Work includes installation of steel liners into aging culverts, installation of erosion controls, and use of stream diversions/pump arounds. Responsible for:</p> <ul style="list-style-type: none"> - Developing Design-Build QA/QC Plan – approved second submission - Reviewing plans for compliance with inspection aspects of work, plans, and specs - Coordinating QA inspections of all sites - Review of QC activities for compliance with QA/QC Plan - Maintenance of project records, including daily work reports, materials notebook, and project correspondence - Review of design-builder's monthly progress reports and pay requests for compliance with design-build contract
Client/Owner:	<p>Owner: Virginia Department of Transportation Lynchburg District Todd Bolling, PE VDOT Project Manager 434.856.8255</p> <p>Client: DLB, Inc. John Ralston Design-Build Project Manager 276.728.2137</p>

Project Name:	Route 11 Bridge Replacement
Name of Firm:	A. Morton Thomas and Associates, Inc.
Start Date:	2008
End Date:	2009
Project Role:	Quality Assurance Manager
Responsibilities:	<p>Project includes replacement and widening of bridge along Route 11 near Exit 7 on Interstate 81. Work completed under heavy traffic, with close coordination of local stakeholders.</p> <p>Responsible for:</p> <ul style="list-style-type: none"> - Planning and oversight of QA inspection staff - Overseeing Contractor's QC program - Assisting field staff in resolution of design issues, including grade differences at each tie-in location
Client/Owner:	<p>Owner: City of Bristol, Virginia Tabitha Crowder, PE City Engineer 276.645.7363</p> <p>Client: AECOM Rob Dean, PE Project Manager 540.857.3100</p>
Project Name:	Route 460 Connector, Phase I Design-Build
Name of Firm:	A. Morton Thomas and Associates, Inc.
Start Date:	2009
End Date:	2010
Project Role:	Acting Design-Build Quality Assurance Manager
Responsibilities:	<p>Acting Design-Build QAM for the Route 460 Connector Phase I Design-Build project for VDOT. Permanent QAM was on medical leave for 4 months. Responsible for:</p> <ul style="list-style-type: none"> - Developing Design-Build QA/QC Plan - Review of design-builder's monthly progress reports and pay requests for compliance with design-build contract

Client/Owner:

Owner:

Virginia Department of Transportation

Bristol District

Amanda Cox, PMP

VDOT Program Manager

276.669.6151

**ATTACHMENT 3.3.1
KEY PERSONNEL RESUME FORM**

Brief Resume of Key Personnel anticipated for the Project.	
a. Name & Title:	David Covington, PE, Associate
b. Project Assignment:	Design Manager
c. Name of Firm with which you are now associated:	A. Morton Thomas and Associates, Inc.
d. Years experience: With this Firm <u>3</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.): AssociateA. Morton Thomas and Associates.....07/2007 – Present Senior Transportation Engineer.....Michael Baker Jr., Inc..... 1999 – 07/2007	
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization:	Virginia Polytechnic Institute & State University, Blacksburg, VA / Bachelor of Science / 1998 / Civil Engineering
f. Active Registration: Year First Registered/ Discipline/VA Registration #:	2004Virginia Professional Engineer No. 38235
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 Name:	Eisenhower Avenue
Name of Firm:	A. Morton Thomas and Associates, Inc.
Start Date:	2008
End Date:	On-going
Project Role:	Design Manager
Responsibilities:	Design Manager for the widening of Eisenhower Avenue from a variable lane facility to a six lane divided facility with wide raised median and Gateway Project features such as landscaping, open spaces, wide sidewalks with integral bicycle path, continuous planter boxes, and street lighting. The project includes a wide outside lane that will serve as off peak parking as well as a through travel lane and bus lane during peak volume hours. The project includes numerous right-of-way constraints including existing bridge piers located 1.5 feet from the proposed back of curb, proffered right-of-way, existing buildings, and concurrent development along the project site. The estimated construction cost is \$15,000,000. Responsible for: - Coordinating client meetings and correspondence

Responsibilities: (continued)	<ul style="list-style-type: none"> - Coordinating with developers and concurrent VDOT projects (Beltway ramps) - Management and supervision of designers and subconsultants - Development of roadway design plans using VDOT Microstation and GeoPak design platforms - Managing stormwater and erosion control design - Adherence to all VDOT, FHWA, and City of Alexandria standards and specifications
Client/Owner:	Virginia Department of Transportation/City of Alexandria Lisa Jaatinen Project Manager 703.746.4053
Project Name: US Route 460 Connector Phase I	
Name of Firm:	A. Morton Thomas and Associates, Inc.
Start Date:	2009
End Date:	2011
Project Role: Roadway Design Manager	
Responsibilities:	<p>Roadway Design Manager for the design of a four lane Rural Principal Arterial on new alignment with connections to local routes and local roadway improvements. The design-build project includes three bridges: twin 1,733 foot long cast-in-place hollow box concrete structures crossing Grassy Creek and Route 610 at a maximum height of 267 feet, and a 300 foot long bulb-T girder bridge crossing Hunts Creek. The roadway is cut into steep terrain with benched sideslopes engineered to minimize earthwork and disturbance to the environment. Due to the nature of the project, approximately 2.6 million cubic yards of excavated material is placed in an engineered waste area on the project site. Stormwater management facilities and erosion control features are being designed in order to minimize impacts to sensitive local streams and to control increases in stormwater runoff as a result of the large footprint of the project. The project contract value is \$90,000,000. Responsible for:</p> <ul style="list-style-type: none"> - Development of roadway plans using VDOT Microstation and GeoPak - All roadway design and oversight - Management of drainage, stormwater management, and erosion control design - Development of phased maintenance of traffic and sequence of construction plans - Cost estimating and quantity take-offs - Scheduling and budgeting - Management of subconsultant tasks - Adherence to all VDOT standards and specifications - Attending monthly project meetings and weekly team progress meetings - Management of utility relocation plans
Client/Owner:	Virginia Department of Transportation Bristol District Office Amanda Cox, PMP 276.669.6151

Project Name:	Charles City Road Improvements
Name of Firm:	Michael Baker, Jr., Inc.
Start Date:	2005
End Date:	2007
Project Role:	Deputy Project Manager
Responsibilities:	<p>Deputy Project Manager and Project Engineer for approximately 1.55 miles of roadway widening from two lanes to four lanes with a raised median. The environment is a mixture of industrial, commercial, and residential uses. The project provided many challenges, including coordinating the design of Charles City Road with two future projects (Airport Connector Road and Airport Drive); two CSX railroad crossings; coordination with the Capital Region Airport Commission; and designing around a multitude of existing and future utilities, including overhead electric, gravity sewers, sewer force mains (including a 60" sewer force main), secure fiber-optic lines, water lines, and gas lines. The estimated construction cost is \$12,000,000. Responsible for:</p> <ul style="list-style-type: none"> - Development of roadway plans using VDOT Microstation and GeoPak design platforms - Coordinated client and third-party meetings and correspondence - Managed drainage, stormwater management, and erosion control design - Reviewed and approved third-party designs affecting the project - Cost estimating - Management of subconsultant tasks - Adherence to all VDOT and Henrico County standards and specifications
Client/Owner:	Henrico County Department of Public Works Margaret-Anne Hilliard 804.501.4244
Project Name:	Dan Daniel Memorial Highway (Route 265/29)
Name of Firm:	Michael Baker, Jr., Inc.
Start Date:	2000
End Date:	2002
Project Role:	Design Engineer
Responsibilities:	<p>Design Engineer for complete construction plans consisting of approximately 7 miles of 2-lane widening from an existing 2-lane limited access highway originally built on 4-lane right-of-way. The project was designed to interstate standards and included four bridges and one fully directional interchange. A major challenge of the project included designing a fully enclosed pavement drainage system and extensive storm sewer system with minimal disruption to existing and new utilities. Permanent utility easements were established for all new utilities. The construction cost was \$67,000,000. Responsible for:</p> <ul style="list-style-type: none"> - Development of roadway plans using VDOT Microstation and IGRDS design platforms

Responsibilities: (continued)	<ul style="list-style-type: none"> - Design of a fully enclosed underdrain management system - Design of roadside barriers - Quantity calculations and summaries - Subconsultant supervision - Cost estimating - Adherence to all VDOT standards and specifications
Client/Owner:	Virginia Department of Transportation Lynchburg District Dale Grigg Jr. (Retired) 434.229.2259
Project Name:	I-64 Phase II
Name of Firm:	Michael Baker, Jr., Inc.
Start Date:	1998
End Date:	2007 (Contract terminated due to funding)
Project Role:	Design Engineer
Responsibilities:	<p>Design Engineer for 11.5 kilometers of 6-lane divided interstate highway reconstruction. In conjunction with the reconstruction, responsibilities included the design of one major interchange with collector-distributor roadways and ramps. This design included a major realignment for a new bridge spanning the Elizabeth River. The resulting plans were final design field inspection plans complete with cross-sections and cost estimates. The estimated construction cost was \$200,000,000. Responsible for:</p> <ul style="list-style-type: none"> - Development of roadway design plans using VDOT Microstation - Extensive geometric design of interchange ramps - Roadside barrier design - Cost estimating - Quantity take-offs
Client/Owner:	Virginia Department of Transportation Mary Stanley (Retired) 804.786.6753 (Last known contact)

**ATTACHMENT 3.3.1
KEY PERSONNEL RESUME FORM**

Brief Resume of Key Personnel anticipated for the Project.	
a. Name & Title:	Jess L. Norman, Project Manager / Estimator
b. Project Assignment:	Construction Manager
c. Name of Firm with which you are now associated:	W-L Construction and Paving, Inc.
d. Years experience: With this Firm <u>20</u> Years With Other Firms <u>14</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.):	Construction ManagerW-L Construction and Paving, Inc. 2001 – Present Project Superintendent.....W-L Construction and Paving, Inc.....1991 – 2001
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization:	N/A
f. Active Registration: Year First Registered/ Discipline/VA Registration #:	1978Virginia Class A Contractor..... No.0182347-5
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 Name:	Wonju Street Ramp Improvement and Colonial Avenue Widening Project
Name of Firm:	W-L Construction and Paving, Inc.
Start Date	2007
End Date:	2008
Project Role:	Construction Manager
Responsibilities:	Construction Manager for this \$2.1 million ramp improvement and roadway widening project located in the City of Roanoke. The project included improvements to deceleration lanes and ramp widening along I-581, widening of Colonial Avenue near Towers Mall, and construction of new traffic signals. Mr. Norman was responsible for the production forces, quality control functions, coordination with the city and VDOT, and interaction with project stakeholders. The project is very similar to the planned Valley View Interchange in that it was located off of I-581, involved ramp reconfiguration, included roadway widening, included construction of new traffic signals, and required close coordination with similar project stakeholders (Towers Mall Shopping Center).

Client/Owner:	Virginia Department of Transportation Mr. Pete Senabaugh (Replaced by Robbie Williams, PE) District Construction Engineer 540 387 5345
Project Name:	Merriman Road Roundabout, Roanoke County
Name of Firm:	W-L Construction and Paving, Inc.
Start Date:	2010
End Date	2010
Project Role:	Construction Manager
Responsibilities:	Construction Manager for this \$1.2 million roundabout projected located in Roanoke County. Work included construction of the state's largest roundabout project, under heavy traffic, and with intense scrutiny from project stakeholders. Mr. Norman was responsible for oversight of production forces, quality control functions, interaction with VDOT staff, coordination with county officials, and coordination with the public during construction of this challenging project. The project was completed on time and under budget.
Client/Owner:	Roanoke County, Virginia Mr. George Simpson III, PE Project Manager 540-772-2080
Project Name:	Route 601 Hollins Road Widening Project, Botetourt County
Name of Firm:	W-L Construction and Paving, Inc.
Start Date:	2005
End Date	2007
Project Role:	Construction Manager
Responsibilities:	Construction Manager for this \$8.3 million roadway widening and bridge replacement project in southern Botetourt County. Mr. Norman was responsible for overall construction of the project, coordination of production forces, oversight of quality control functions, interaction with VDOT staff, and coordination with public stakeholders. The project included construction of additional lanes along Hollins Road under traffic with daily traffic volumes in excess of 26,000 vehicles per day. The project also included construction of a new traffic signal with 6 heads and complex control functions, all of which was constructed under traffic. Mr. Norman was responsible for coordination of all site work, including subcontractors for bridge construction, utility relocations, and asphalt paving operations. The project finished ahead of schedule and under the original budget amount.
Client/Owner:	Virginia Department of Transportation Mr. Pete Senabaugh (Replaced by Robbie Williams, PE) Project Manager 540-387-5345

Project Name:	Route 605 Widening Project, Botetourt County
Name of Firm:	W-L Construction and Paving, Inc.
Start Date:	2004
End Date	2005
Project Role:	Construction Manager
Responsibilities:	Construction Manager for this \$1.9 million widening project along Route 605 in Botetourt County. The project included excavation, embankment construction, roadway realignment, erosion and sediment control, grading, and paving operations on this heavily traveled commuter route off of Route 220. Mr. Norman was responsible for the production forces, quality control functions, coordination with VDOT, and interaction with project stakeholders. The project was completed ahead of schedule and under budget.
Client/Owner:	Virginia Department of Transportation Mr. Pete Senabaugh (Replaced by Robbie Williams, PE) Project Manager 540-387-5345
Project Name:	Botetourt County International Parkway
Name of Firm:	W-L Construction and Paving, Inc.
Start Date:	2007
End Date	2008
Project Role:	Construction Manager
Responsibilities:	Construction Manager for this \$1.4 roadway construction project required to provide access to the Botetourt County Industrial Park. The project including construction of 1.2 miles of new roadway cuts and fills, erosion and sediment control, paving, and construction of a double 156 -inch arch pipe. Mr. Norman was responsible for the production forces, quality control functions, coordination with the county, and interaction with project stakeholders. The project was completed ahead of schedule and under budget.
Client/Owner:	Botetourt County, Virginia Mr. Kevin Shearer PE Project Manager 540-473-8135

**ATTACHMENT 3.3.1
KEY PERSONNEL RESUME FORM**

Brief Resume of Key Personnel anticipated for the Project.	
a. Name & Title:	Tewolde Iyob, PE, President
b. Project Assignment:	Lead Structural Engineer
c. Name of Firm with which you are now associated:	Athavale, Lystad & Associates, Inc.
d. Years experience: With this Firm <u>26</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.):	PresidentAthavale, Lystad & Associates, Inc..... 2001 – Present Vice President.....Athavale, Lystad & Associates, Inc.....1985 – 2001
e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization:	George Washington University, Washington, D.C. / Master of Science / 1984 / Structural Engineering Delft Institute, Netherlands / Post Graduate Diploma / 1978 / Hydraulic Engineering Addis Ababa University, Ethiopia / Bachelor of Science / 1976 / Civil Engineering
f. Active Registration: Year First Registered/ Discipline/VA Registration #:	1987Virginia Civil Engineering No. 017408
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 Name:	Braddock Road/I495 Hot Lanes Interchange Design-Build
Name of Firm:	Athavale, Lystad & Associates, Inc.
Start Date:	2008
End Date:	2011
Project Role:	Lead Structural Engineer
Responsibilities:	Final design and construction document preparation for the phased, widened replacement of the Braddock Road Bridge over I-495 to accommodate the reconfigured roadway below for the addition of High Occupancy Toll (HOT) lanes. The construction of the 493-ft long widened replacement bridge on a 30-degree skew was sequenced in three stages. For this project, he also was responsible for the final design and construction documents for the Annandale Pedestrian Bridge over I-495, a new flyover ramp carrying I-495 southbound HOT Lanes traffic to Braddock Road eastbound, and MSE retaining walls required for the Braddock Road interchange with improved I-495.
Client/Owner:	Virginia Department of Transportation 1201 E. Broad Street Richmond, VA James Fariss 804.786.2998

Project Name:	I-81 Truck Climbing Lanes – Route 712 Over I-81 Bridge and Approaches
Name of Firm:	Athavale, Lystad & Associates, Inc.
Start Date:	2010
End Date	2011
Project Role:	Lead Structural Engineer
Responsibilities:	Lead Structural Engineer for the design of the bridge replacement on Route 712 over I-81. The new bridge is two span continuous steel plate girders with total length of 306' and total width of 28' face of rail to face of rail. The bridge was designed using AASHTO LRFD Bridge Design specifications. The girders were detailed as haunched girders for efficient design and cost-saving in steel quantities. The superstructure is supported on a center wall pier and full integral abutments. The project was on a fast-track delivery schedule to meet the contractor's construction schedule. The new bridge was built adjacent to the existing bridge to maintain traffic flow and allow for a single construction phase. Once the new bridge was completed, the traffic was shifted to the new bridge and the existing bridge was removed.
Client/Owner:	Virginia Department of Transportation 1201 E. Broad Street Richmond, VA Todd Stevens 540.332.9047
Project Name:	I-95/US-Route 1 Interchange, Bridges B-629 and B-630
Name of Firm:	Athavale, Lystad & Associates, Inc.
Start Date:	2004
End Date	2008
Project Role:	Lead Structural Engineer
Responsibilities:	Design and preparation of contract documents for two ramp structures carrying traffic from eastbound I-95 to northbound US Route 1. Bridge B-629 is a 180-ft long structure with three spans at 60-ft long each. The structure consists of a reinforced concrete deck on prestressed concrete bulb-tee beams made continuous for live load supported on reinforced concrete pile bents. Geometric challenges included horizontal curve with varying deck width. Bridge B-630 is a 1,750-ft long structure consisting of a reinforced concrete deck on prestressed concrete bulb-tee beams and AASHTO prestressed concrete beams – all made continuous for live load - and continuous curved steel girders. The structure features a reverse horizontal curve with baseline radii as low as 170-ft, and variable deck width. Design and load rating for the concrete beams and steel girders were done using CONSPAN and DESCUS respectively. As ALA's Project Manager, Mr. Iyob was responsible for all structural design, project quality program and construction document preparation.
Client/Owner:	Virginia Department of Transportation 1201 E. Broad Street Richmond, VA Albert Mui, P.E. 703.383.0300

Project Name: Telegraph Road Bridge Widening

Name of Firm: Athavale, Lystad & Associates, Inc.

Start Date: 2008

End Date: 2010

Project Role: Project Manager

Responsibilities: Design and plan preparation for the superstructure replacement and widening of this 550-ft long bridge over CSX Railroad, Metrorail and Mill Road, which spans from Pershing Avenue to Duke Street. The design includes provisions for sequencing of construction to maintain all lanes of traffic throughout the construction period. Mr. Lyob performed an evaluation of the existing bridge to determine the most feasible means of rehabilitating and widening the bridge. Considerations included widening only, widening with deck replacement, and widening with existing superstructure replacement. Evaluation factors included costs and difficulties associated with painting of the existing steel girders over active rail lines, maintenance of traffic and construction sequencing, and fatigue-sensitive details on the existing steel superstructure considering the age of the bridge. Final recommendation was that the existing superstructure be replaced together with the bridge widening. Particular attention was paid to the type and construction method of the foundations adjacent to the active railroad lines. Drilled shafts were utilized to reduce construction time and railroad right-of-way impacts. VIRTIS was used to perform load rating analysis on this bridge. ALA was also responsible for the design of roadway, drainage and retaining wall.

Client/Owner: Virginia Department of Transportation
1201 E. Broad Street
Richmond, VA
Fawaz Saraf
703.329.4078

Project Name: Route 58 Clarksville Bypass

Name of Firm: Athavale, Lystad & Associates, Inc.

Start Date: 2004

End Date: 2005

Project Role: Project Manager

Responsibilities: Design of seven bridges and a curved ramp structure to the Kerr Reservoir Bridge. Three of the bridges were on curved alignments. Four of the bridges were jointless with integral abutments. Two of the bridges carried Route 58 over Norfolk Southern Railroad. The project also involved the design of a 1.75-mile, 4-lane divided section of rural principal arterial highway, and the design of 0.25 miles of urban principal arterial and service roads. Design included horizontal and vertical alignments, storm drainage, erosion control, traffic control, and cross sections. Plans were generated using metric standards, Microstation, and IGRDS. As ALA's Project Manager, Mr. Lyob provided all design and plan preparation oversight and client coordination.

Client/Owner: Virginia Department of Transportation
1201 E. Broad Street
Richmond, VA
Dina Kukreja
804.786.6839

Appendix C

ATTACHMENT 3.5.1(a)

LEAD CONTRACTOR – WORK HISTORY FORM

(LIMIT 1 PAGE PER CONTRACT)

Work by Lead Contractor – Three (3) projects which best illustrates 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
<p>(1) Interstate 81 Ramp Modification Projects</p> <p>Salem and Bristol Districts, Virginia</p> <p>Scope and Complexity Similarities</p> <ul style="list-style-type: none"> VDOT project I-81 project location Ramp widening, signal construction Challenges connecting to existing drainage systems <p>Evidence of Good Performance</p> <ul style="list-style-type: none"> Finished all three locations ahead of schedule Received numerous compliments from residency and stakeholders regarding smooth MOT and coordination of stakeholder concerns <p>Lessons Learned</p> <ul style="list-style-type: none"> Ability to work within tight workzone adjacent to the interstate Coordination of traffic signal subcontractors key to schedule success Importance of coordination with key stakeholders 	<p>These three contracts are located close to the interchange between the I-81/I-77 corridors. They involved the widening of the existing on and off-ramps of I-81 to facilitate turning lanes on the ramps to prevent back-ups onto the interstate. The projects are owned by the Virginia Department of Transportation and W-L Construction was the prime contractor on the projects. W-L Construction set up traffic control along the ramps and then proceeded to widen them with the use of borrow excavation and aggregate stone fills. Each ramp involved widening, drainage, electrical, asphalt pavement and some required guardrail installation. Coordination of trucks and equipment was essential to a successful project and W-L Construction as work zones were constantly addressing interstate traffic concerns. The project required tie-in to existing drainage systems that were poorly mapped and required field modification for nearly every connection. W-L Construction worked closely with the VDOT design team and construction staff members to make the project a success. All three project locations included key stakeholder concerns as each ramp featured a busy truck stop facility that contributed to traffic congestion.</p> <p>Lessons Learned: W-L Construction gained valuable experience working in an interstate setting, completing widening of ramp facilities, and coordinating specialty subcontractors in a small work zone. Coordination with signal subcontractors was essential to maintaining steady flow of traffic on and off of the interstate. It was also a valuable lesson about limitations for stocking materials, equipment use and limitations, and access for stone/asphalt trucks within the narrow confines of a barricaded shoulder.</p>	<p>OWNER:</p> <p>VDOT 2843 Chapman Road Wytheville, VA 24382 Mr. Craig Jones, PE 276.669.6151</p> <p>DESIGN ENGINEER:</p> <p>VDOT 870 Bonham Road Bristol, VA 24201 Dennis Harris, PE 276.669.6151</p>	09/2009	07/2009	\$1,907	\$2,171	\$2,171
							

Work by Lead Contractor – Three (3) projects which best illustrates 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
<p>(2) Dominion Power Plant Virginia City, Virginia</p> <p>Dominion Power & The Shaw Group</p> <p>Scope and Complexity Similarities</p> <ul style="list-style-type: none"> Over \$25 million in projects for the Dominion Power Hybrid energy plant Extremely high safety standards had to be met Design-build project delivery Coordination with dozens of other contractors. Very tight work area with high risk <p>Evidence of Good Performance</p> <ul style="list-style-type: none"> Received multiple new task orders to continue work on site Accident free safety performance <p>Lessons Learned</p> <ul style="list-style-type: none"> Daily and hourly coordination was required to facilitate a successful project of this size with multiple on-site contractors Increased safety awareness drastically affected production rates Lack of coordination by any subcontractor can adversely affect all contractors on site 	<p>The Dominion Power Hybrid Energy plant located in Virginia City, Virginia was started in 2008 and is expected to become operational early in 2012. It is owned by Dominion Power. W-L Construction was the prime contractor for a large portion of the sitework. Work included two road relocations, construction of turn lanes off a divided highway into the plant, storm drainage, electrical, signage/signalization, asphalt paving, and striping for the 200 acre site. Much of this work was performed after construction had commenced on the power plant itself which created tight working conditions and negatively impacted production. Coordination among the various contractors on site was crucial in determining the areas to work in from day-to-day.</p> <p>Lessons Learned:</p> <p>Having so many contractors present on site made it difficult to schedule grading operations while others were also in the same area or in close proximity. The majority of W-L Construction contracts at Virginia City were significantly increased due to the workmanship and production of W-L Construction. The major lesson learned for the project was the reinforcement of the motto that by producing a quality product in a timely manner, contractors can build strong relationships with owners that make both parties anxious to perform additional work with one another.</p> <p>W-L Construction gained valuable insight into working adjacent to other contractors and coordinating with them on an hourly basis. W-L Construction completed the work without any major problems due to coordination or close working quarters.</p>	<p>OWNER & DESIGN ENGINEER:</p> <p>Dominion Power One James River Plaza 701 East Cary Street Richmond, VA 23219 Charlie Scott</p> <p>276.762.2092</p> <p>DESIGN ENGINEER:</p> <p>GAI Consultants 385 East Waterfront Drive Homestead, PA 15120</p> <p>412.476.2000</p>	06/2012	06/2012	\$14,538	\$25,825	\$25,825
							
							

Work by Lead Contractor – Three (3) projects which best illustrates 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
<p>(3) Wonju Street/Colonial Avenue</p> <p>City of Roanoke, Virginia</p> <p>Scope and Complexity Similarities</p> <ul style="list-style-type: none"> Located in Roanoke, VA (urban) Included I-581 ramp reconstruction High traffic count Time was of the essence to finish before holiday traffic increased Impacts to local commuters VDOT project Project adjacent to prominent Roanoke mall <p>Evidence of Good Performance</p> <ul style="list-style-type: none"> Project finished one month before project deadline City officials praised W-L Construction's work and ability to address the needs of project stakeholders and users <p>Lessons Learned</p> <ul style="list-style-type: none"> Coordinating portions of work in traffic in off-peak traffic times made the project more successful while minimizing impacts to users Finding a borrow/waste area close to the project is especially important in an urban project 	<p>W-L Construction was the prime contractor of this urban project in the City of Roanoke. It is located adjacent to the Towers Mall shopping center in the City of Roanoke where traffic was a key aspect of the project. It involved road widening, the construction of deceleration lanes for the ramps, acceleration lanes of the ramps, storm drainage, signalization and signage, curb & gutter, asphalt paving, and striping. W-L Construction chose to use several specialty subcontractors for particular portions of work and coordination with them was key as well to the overall success of the project.</p> <p>Lessons Learned: Working in and around the City of Roanoke was challenging due to the high volume of traffic and needs of project stakeholders such as commercial property owners, City officials, and VDOT. It was evident early in the project execution that work has the potential to impede the normal flow of traffic and had to be scheduled during times of the day that had lower traffic counts. W-L Construction adjusted their plan of operation to avoid peak traffic hours and implement a transitional work shift to maximize productivity while minimizing impacts to users. There was a surplus of material on-site and by implementing a very close waste area, W-L Construction was able to cut down on cost and increase production versus dealing with long haul times that would have occurred in the urban traffic. By implementing a well thought out plan of action, securing a local waste pit, and aggressively managing subcontractors, W-L Construction was able to not only finish on time, but actually completed this challenging project ahead of schedule.</p>	<p>OWNER:</p> <p>VDOT 714 S. Broad Street Salem, VA 24153 Mr. Robbie Williams, PE</p> <p>540.387.5345</p> <p>DESIGN ENGINEER:</p> <p>VDOT 2430 Pine Forest Drive Richmond, VA 23834</p> <p>800.663.4188</p>	10/2008	09/2008	\$1,800	\$2,200	\$2,200
							

ATTACHMENT 3.5.1(b)

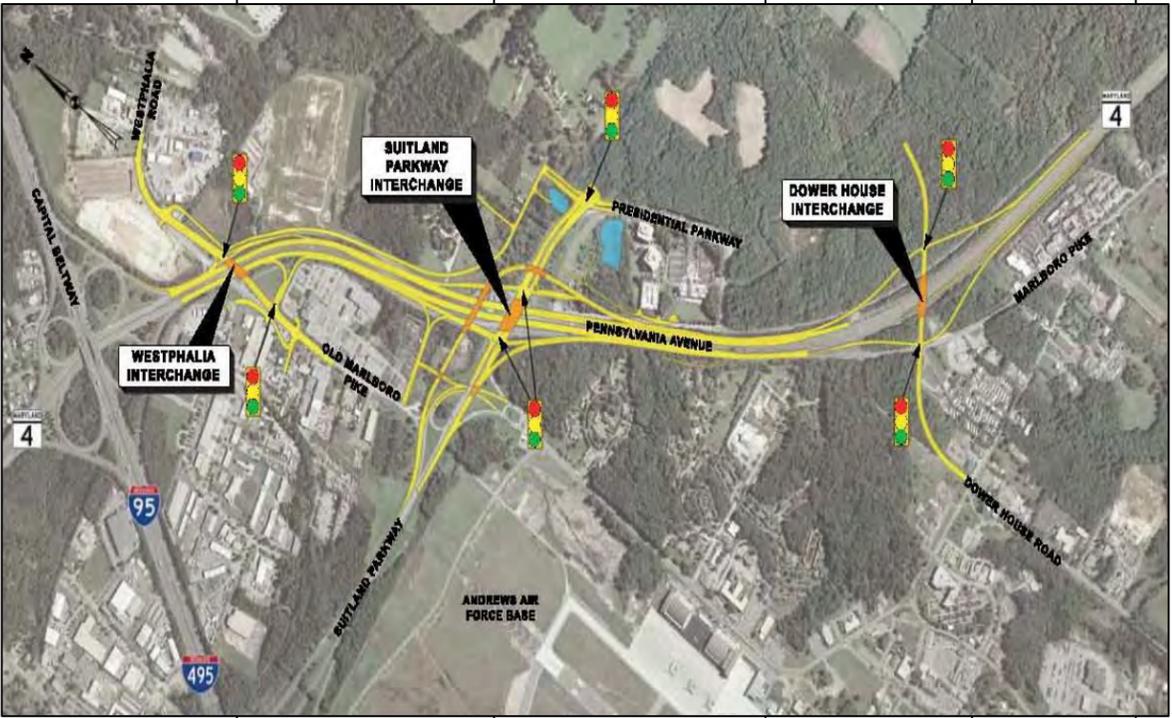
LEAD DESIGNER – WORK HISTORY FORM

(LIMIT 1 PAGE PER CONTRACT)

Work by Lead Contractor – Three (3) projects which best illustrates 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
<p>(1) Eisenhower Avenue Improvements</p> <p>City of Alexandria, Virginia</p> <p>Scope and Complexity Similarities</p> <ul style="list-style-type: none"> Significant ROW and utility constraints Multi-modal transportation considerations Located in City of Alexandria (urban) Complex MOT planning required Stakeholder coordination at all stages VDOT funded project <p>Evidence of Good Performance</p> <ul style="list-style-type: none"> AMT received multiple letters of recommendation and appreciation from City Project Managers for design work <p>Lessons Learned</p> <ul style="list-style-type: none"> Learned lessons regarding balance of stakeholder wants, owner needs, and project financing 	<p>AMT is providing design services for the widening of Eisenhower Avenue from a variable lane facility to a six lane divided facility with wide raised median and Gateway Project features such as extensive landscaping, open public spaces, wide sidewalks with integral bicycle paths, continuous planter boxes, and decorative street lighting. The project includes a wide outside lane on each side of the roadway that will serve as off-peak parking as well as a through travel lane and bus lane during peak volume hours. The project includes extensive right-of-way constraints including existing Metro bridge piers, existing high-elevation buildings, and concurrent development along the corridor. The extensive traffic engineering study encompassed multi-modal transportation such as pedestrian, bicycle, bus, and metro-rail, as well as the overwhelming amount of vehicular traffic entering the corridor from the two new Beltway ramps entering Eisenhower Avenue.</p> <p>Lessons Learned:</p> <p>AMT designers have quickly learned to adapt to ever changing design parameters through their work on the Eisenhower project. AMT designers and the project manager have honed their people skills as they have been required to facilitate meetings where compromises are brokered between competing interests. The project has created multiple challenges posed by a heavily developed urban setting, including specific problems associated with uncertain as-builts for existing utilities, evolving traffic projections, and the interaction with multi-modal transportation types such as pedestrian, bicycle, and public transit.</p>	<p>OWNER: VDOT 2901 Eisenhower Ave. Alexandria, Virginia 22314 Lisa Jaatinen Project Manager</p> <p>703.746.4053</p>	2011	2011	\$1,200 (fee)	\$1,200 (fee)	\$1,200 (fee)
							

Work by Lead Contractor – Three (3) projects which best illustrates 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	
<p>(2) US Route 460 Phase I Design-Build</p> <p>Buchanan County, Virginia</p> <p>Scope and Complexity Similarities</p> <ul style="list-style-type: none"> Close coordination between roadway and bridge designers required Design-build delivery method Significant size project - \$90 million VDOT project <p>Evidence of Good Performance</p> <ul style="list-style-type: none"> AMT received letter of recognition from VDOT PM for work on roadway design <p>Lessons Learned</p> <ul style="list-style-type: none"> Learned lessons regarding multi-discipline design coordination working closely with structural engineering team on a daily basis 	<p>AMT provided highway design of a four lane Rural Principal Arterial on new alignment with connections to local routes and local roadway improvements. The design-build project includes three bridges: twin 1,733 foot long cast-in-place hollow box concrete structures crossing Grassy Creek and Route 610 at a maximum height of 267 feet, and a 300 foot long bulb-T girder bridge crossing Hunts Creek. The roadway is cut into steep terrain with benched sideslopes engineered to minimize earthwork and disturbance to the environment. Due to the nature of the project, approximately 2.6 million cubic yards of excavated material is planned to be placed in an engineered waste area on the project site. Stormwater management facilities and erosion control features are being designed in order to minimize impacts to sensitive local streams and to control increases in stormwater runoff as a result of the large footprint of the project. AMT is providing roadway design and coordinating closely with members of the structural engineering team throughout the project.</p> <p>Lessons Learned:</p> <p>AMT has gained valuable experience working on VDOT's largest active design-build contract. AMT quickly restructured its electronic filing system to improve internal file sharing, access, and review to facilitate extensive QC and QA reviews. AMT designers also learned to extract information from the construction team members who may not normally be fluent in design terminology. AMT also learned to work in a fast paced design environment where multiple designers were advancing concepts concurrently, requiring regular communication and cross-discipline reviews.</p>	<p>OWNER: VDOT 870 Bonham Road Bristol, Virginia 24201 Amanda Cox, PMP Project Manager 276.669.6151</p> <p>CLIENT and CONTRACTOR: Bizzack Construction, LLC 2257 Executive Drive Lexington, Kentucky 40505 Stewart Gaither, PE 859.299.8001</p>	2014	2014	\$1,200 (fee)	\$1,200 (fee)	\$1,200 (fee)	

Work by Lead Contractor – Three (3) projects which best illustrates 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
<p>(3) MD 4/Suitland Parkway Interchange Project</p> <p>Prince George's County, Maryland</p> <p>Scope and Complexity Similarities</p> <ul style="list-style-type: none"> Major urban interchange design Interchange concept studies completed Extensive MOT and traffic engineering MD SHA project (state DOT) <p>Evidence of Good Performance</p> <ul style="list-style-type: none"> AMT, at the request of SHA, presented our approach to the development of the TMP at the annual MDOT Quality Initiative Conference. The TMP for the MD4 project is the largest, most complex plan prepared for a SHA project to date. <p>Lessons Learned</p> <ul style="list-style-type: none"> Lessons include stakeholder coordination – regulatory agencies, AAFB, and MOT plans 	<p>AMT provided interchange design and traffic analysis for the MD 4 corridor and Suitland Parkway Interchange. The scope of services included a Value Engineering study of interchange design developed during the planning process, evaluation of initial traffic volumes including modification for change in forecast year, analysis of the Suitland Parkway Interchange under several different scenarios, including roundabout diamond interchange, flyover ramp and single point urban interchange. AMT developed concept plans for two interchange designs, which included horizontal and vertical alignments, limits of disturbance, proposed right of way, braided ramps, roadway widening and access for industrial district. Additional services included capacity analysis, access studies, roadway geometrics, ROW determination, MOT planning, and project cost estimation.</p> <p>Lessons Learned: AMT has gained valuable experience providing roadway planning, design, traffic analysis and value engineering services to ultimately produce final advertised bid documents for this complex Interchange project. Construction phasing required extensive analysis of MOT alternatives. Each alternative required a Synchro analysis of the entire corridor. Temporary detours were determined after extensive coordination with the County and AAFB. Impacts to rare vegetation required a shift in the entire interchange design. The design was further constrained by AAFB air clearance requirements; NPS roadway and aesthetic design requirements; drainage challenges given depression of MD 4 under Suitland Parkway; timing of developer's construction funding for Westphalia Interchange; and maintaining fire/rescue and transit routes during construction.</p>	<p>OWNER: Maryland State Highway Administration 707 North Calvert Street Baltimore, Maryland 21202 Teri Soos Project Manager</p> <p>410-545-8845</p>	2014	2014	\$3,200 (Fee)	\$3,200 (Fee)	\$3,200 (Fee)
							
							

Appendix D

3.2.8.1 SCC Registration for Each Business

Registered Name	Registration No.	Type of Corporation	Status
W-L Construction & Paving, Inc. <i>Lead Contractor</i>	0182347-5	Stock Corporation	Active / Good Standing
DLB, Inc. <i>Bridge and Utility Subcontractor</i>	0183420-9	Stock Corporation	Active / Good Standing
A. Morton Thomas and Associates, Inc. <i>Lead Designer / Construction QA</i>	F049431-2	Stock Corporation	Active / Good Standing
Traffic Signals Plus, PLLC <i>Traffic Engineering, Lighting</i>	S299757-7	Limited Liability Company	Active / Good Standing
Diversified Property Services, Inc. <i>ROW</i>	F130410-6	Stock Corporation	Active / Good Standing
Pulsar Advertising, Inc. <i>Public Involvement</i>	F160855-5	Stock Corporation	Active/ Good Standing
AMEC E&I, Inc. <i>Geotechnical Engineering</i>	F060316-9	Stock Corporation	Active/ Good Standing
Athavale, Lystad & Associates, Inc. <i>Structural Engineering</i>	F060584-2	Stock Corporation	Active/ Good Standing
Froehling & Robertson, Inc. <i>QC Testing Services</i>	F027211-2	Stock Corporation	Active/ Good Standing
Quinn Consulting Services, Inc. <i>QC Services</i>	F492551-7	Stock Corporation	Active/ Good Standing
Harris Miller Miller & Hanson, Inc. <i>Noise Quality and Air Control</i>	F145185-7	Stock Corporation	Active/ Good Standing



CISM0180

CORPORATE DATA INQUIRY

12/08/11

10:48:03

CORP ID: 0182347 - 5 STATUS: 00 ACTIVE STATUS DATE: 05/05/97
 CORP NAME: W - L CONSTRUCTION & PAVING, INC.

DATE OF CERTIFICATE: 02/09/1978 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: VA VIRGINIA STOCK INDICATOR: S STOCK
 MERGER IND: S SURVIVOR CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: CT CORPORATION SYSTEM

STREET: 4701 COX RD STE 301 AR RTN MAIL:

CITY: GLEN ALLEN STATE : VA ZIP: 23060 6802
 R/A STATUS: 5 B.E. AUTH IN VI EFF. DATE: 12/29/06 LOC : 143
 ACCEPTED AR#: 211 50 1245 DATE: 01/07/11 HENRICO COUNTY
 CURRENT AR#: 211 50 1245 DATE: 01/07/11 STATUS: A ASSESSMENT INDICATOR: 0

YEAR	FEES	PENALTY	INTEREST	TAXES	BALANCE	TOTAL SHARES
12	100.00				100.00	2,000

(Screen Id:/Corp_Data_Inquiry)



Commonwealth of Virginia
State Corporation Commission

Virg

CISM0180

CORPORATE DATA INQUIRY

12/08/11

11:09:50

CORP ID: 0183420 - 9 STATUS: 00 ACTIVE STATUS DATE: 06/29/87
 CORP NAME: DLB, INC.

DATE OF CERTIFICATE: 03/23/1978 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: VA VIRGINIA STOCK INDICATOR: S STOCK
 MERGER IND: CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: DONALD L. BRANSCOME
 DLB, INC.
 STREET: RT 808 EXPANSION DR. AR RTN MAIL:
 P.O. BOX 1239
 CITY: HILLSVILLE STATE : VA ZIP: 24343
 R/A STATUS: 2 OFFICER EFF. DATE: 03/29/93 LOC : 117
 ACCEPTED AR#: 211 50 6779 DATE: 03/31/11 CARROLL COUNTY
 CURRENT AR#: 211 50 6779 DATE: 03/31/11 STATUS: A ASSESSMENT INDICATOR: 0

YEAR	FEES	PENALTY	INTEREST	TAXES	BALANCE	TOTAL SHARES
11	670.00					100,000

 (Screen Id:/Corp_Data_Inquiry)



CISM0180

CORPORATE DATA INQUIRY

12/04/11

16:17:49

CORP ID: F049431 - 2 STATUS: 00 ACTIVE STATUS DATE: 12/15/09
 CORP NAME: THOMAS & ASSOCIATES, INC., A. MORTON

DATE OF CERTIFICATE: 11/26/1997 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: MD MARYLAND STOCK INDICATOR: S STOCK
 MERGER IND: CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: CT CORPORATION SYSTEM

STREET: 4701 COX RD STE 301 AR RTN MAIL:

CITY: GLEN ALLEN STATE : VA ZIP: 23060 6802
 R/A STATUS: 5 B.E. AUTH IN VI EFF. DATE: 01/05/04 LOC : 143
 ACCEPTED AR#: 211 18 3703 DATE: 10/27/11 HENRICO COUNTY
 CURRENT AR#: 211 18 3703 DATE: 10/27/11 STATUS: A ASSESSMENT INDICATOR: 0
 YEAR FEES PENALTY INTEREST TAXES BALANCE TOTAL SHARES
 11 400.00 52,000

(Screen Id:/Corp_Data_Inquiry)



Commonwealth of Virginia State Corporation Commission

Virg

12/01/11

14:55:31

LLCM3220

LLC DATA INQUIRY

LLC ID: S299757 - 7 STATUS: 00 ACTIVE STATUS DATE: 08/03/09
LLC NAME: Traffic Signals Plus, PLLC

DATE OF FILING: 08/03/2009 PERIOD OF DURATION: INDUSTRY CODE: 70

STATE OF FILING: VA VIRGINIA MERGER INDICATOR:

CONVERSION/DOMESTICATION INDICATOR:

P R I N C I P A L O F F I C E A D D R E S S

STREET: 621 FRENCHS STORE RD

CITY: CUMBERLAND STATE: VA ZIP: 23040-0000

R E G I S T E R E D A G E N T I N F O R M A T I O N

R/A NAME: VIRGINIA PROFESSIONAL SERVICES LLC

STREET: 3850 Gaskins Rd., Suite 120

RTN MAIL:

CITY: Richmond STATE: VA ZIP: 23233-0000

R/A STATUS: 5 ENTITY AUTHORIZ EFF DATE: 05/04/11 LOC: 143 HENRICO COUNTY

YEAR	FEES	PENALTY	INTEREST	BALANCE
11	50.00			

(Screen Id:/LLC_Data_Inquiry)



Virg

CISM0180

CORPORATE DATA INQUIRY

05/10/11

11:29:33

CORP ID: F130410 - 6 STATUS: 00 ACTIVE STATUS DATE: 07/01/09
 CORP NAME: DIVERSIFIED PROPERTY SERVICES OF VIRGINIA, INC. (U
 SED IN VA BY: DIVERSIFIED PROPERTY SERVICES, INC.)
 DATE OF CERTIFICATE: 08/05/1997 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: MD MARYLAND STOCK INDICATOR: S STOCK
 MERGER IND: CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: 50.00 MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: BRENDAN R HANTZES

 STREET: 3771 VERMACCHIA DR AR RTN MAIL:

 CITY: CHANTILLY STATE : VA ZIP: 20151
 R/A STATUS: 2 OFFICER EFF. DATE: 08/09/02 LOC : 129
 ACCEPTED AR#: 210 25 5164 DATE: 08/30/10 FAIRFAX COUNTY
 CURRENT AR#: 210 25 5164 DATE: 08/30/10 STATUS: A ASSESSMENT INDICATOR: 0

YEAR	FEES	PENALTY	INTEREST	TAXES	BALANCE	TOTAL SHARES
10	100.00					5,000

(Screen Id:/Corp_Data_Inquiry)



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Corp Name



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State Corporation Commission

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CISM0180

CORPORATE DATA INQUIRY

12/01/11

15:46:56

CORP ID: F060316 - 9 STATUS: 00 ACTIVE STATUS DATE: 07/28/03
 CORP NAME: AMEC E&I, Inc.

DATE OF CERTIFICATE: 07/28/2003 PERIOD OF DURATION: INDUSTRY CODE: 70
 STATE OF INCORPORATION: DE DELAWARE STOCK INDICATOR: S STOCK
 MERGER IND: S SURVIVOR CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: C T CORPORATION SYSTEM

STREET: 4701 COX RD STE 301 AR RTN MAIL:

CITY: GLEN ALLEN STATE : VA ZIP: 23060
 R/A STATUS: 5 B.E. AUTH IN VI EFF. DATE: 07/05/11 LOC : 143
 ACCEPTED AR#: 211 12 7300 DATE: 07/07/11 HENRICO COUNTY
 CURRENT AR#: 211 12 7300 DATE: 07/07/11 STATUS: A ASSESSMENT INDICATOR: 0

YEAR	FEES	PENALTY	INTEREST	TAXES	BALANCE	TOTAL SHARES
11	670.00					100,000

 (Screen Id:/Corp_Data_Inquiry)



CISM0180

CORPORATE DATA INQUIRY

12/08/11

10:22:46

CORP ID: F060584 - 2 STATUS: 00 ACTIVE STATUS DATE: 03/02/89
 CORP NAME: ATHAVALLE, LYSTAD & ASSOCIATES, INC.

DATE OF CERTIFICATE: 03/02/1989 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: MD MARYLAND STOCK INDICATOR: S STOCK
 MERGER IND: CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: REES BROOME PC

STREET: 8133 LEESBURG PIKE 9TH FL AR RTN MAIL:

CITY: VIENNA STATE : VA ZIP: 22182
 R/A STATUS: 5 B.E. AUTH IN VI EFF. DATE: 05/10/07 LOC : 129
 ACCEPTED AR#: 211 03 3821 DATE: 01/31/11 FAIRFAX COUNTY
 CURRENT AR#: 211 03 3821 DATE: 01/31/11 STATUS: A ASSESSMENT INDICATOR: 0

YEAR	FEES	PENALTY	INTEREST	TAXES	BALANCE	TOTAL SHARES
11	100.00					1,000

(Screen Id:/Corp_Data_Inquiry)

Commonwealth OF Virginia



State Corporation Commission

I Certify the Following from the Records of the Commission:

FROEHLING & ROBERTSON, INCORPORATED, (Entity ID# 0027211-2), is a stock corporation existing under and by virtue of the laws of Virginia, and is in good standing.

The date of incorporation is October 11, 1924.

Nothing more is hereby certified.



*Signed and Sealed at Richmond on this Date:
August 13, 2009*

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



Commonwealth of Virginia
State Corporation Commission

Virg

CISM0180

CORPORATE DATA INQUIRY

12/05/11

16:47:21

CORP ID: F145185 - 7 STATUS: 00 ACTIVE STATUS DATE: 01/31/06
 CORP NAME: Harris Miller Miller & Hanson Inc.

DATE OF CERTIFICATE: 12/06/2000 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: MA MASSACHUSETTS STOCK INDICATOR: S STOCK
 MERGER IND: CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: 600.00 MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: CT CORPORATION SYSTEM

STREET: 4701 COX RD STE 301 AR RTN MAIL:

CITY: GLEN ALLEN STATE : VA ZIP: 23060 6802
 R/A STATUS: 5 B.E. AUTH IN VI EFF. DATE: 01/05/04 LOC : 143
 ACCEPTED AR#: 210 29 0044 DATE: 11/01/10 HENRICO COUNTY
 CURRENT AR#: 210 29 0044 DATE: 11/01/10 STATUS: A ASSESSMENT INDICATOR: 0

YEAR	FEES	PENALTY	INTEREST	TAXES	BALANCE	TOTAL SHARES
11	1,700.00					300,000

 (Screen Id:/Corp_Data_Inquiry)

3.2.8.2 DPOR Registration for Offices

Business Name	Address	Registration Type	Registration Number	Expiration Date
W-L Construction & Paving, Inc. <i>Contractor</i>	PO Box 927 Chilhowie, VA 24319	Class A Contractor	2701 017666A	01/31/2013
DLB, Inc. <i>Bridge and Utility Subcontractor</i>	PO Box 1239 Hillsville, VA 24343	Class A Contractor	2701 022512A	05/31/2012
A. Morton Thomas and Associates, Inc. <i>Home Office Registration</i>	12750 Twinbrook Pkwy Rockville, MD 20852	ENG LA	0407 003077	12/31/2011
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	135 Highland Drive, PO Box 3008 Lebanon, VA 24266	ENG	0411 000588	02/29/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	10710 Midlothian Turnpike, Suite 202 Richmond, VA 23235	ENG LA	0411 000587	02/29/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	14900 Conference Center Dr., Suite 180 Chantilly, VA 20151	ENG LA	0411 000586	02/29/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	113 Mill Place Parkway Verona, VA 24482	ENG	0411 000589	02/28/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	1530 Breezeport Way, Bldg 4, Suite 300 Suffolk, VA 23435	ENG LA	0411 000693	02/29/2012
A. Morton Thomas and Associates, Inc. <i>Branch Office Registration</i>	One Jadip Lane, Suite 111 Fredericksburg, VA 22405	ENG LS	0411 000758	02/29/2012
Traffic Signals Plus, PLLC <i>Home Office Registration</i>	621 French's Store Rd. Cumberland, VA 23040	ENG	0413 000317	12/31/2011
AMEC E&I, Inc. <i>Branch Office Registration</i>	3705 Saunders Avenue Richmond, VA 23227	ENG	0411 000128	02/29/2012
AMEC E&I, Inc. <i>Branch Office Registration</i>	1070 West Main Street, Suite 5 Abingdon, VA 24210	ENG	0411 000523	02/29/2012
Athavale, Lystad & Associates, Inc. <i>Home Office Registration</i>	8180 Greensboro Avenue, #550 McLean, VA 22102	ENG	0407 002804	12/31/2011
Froehling & Robertson, Inc. <i>Home Office Registration</i>	3015 Dumbarton Road Richmond, VA 23228	ENG	0407 000098	12/31/2011
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	22923 Quicksilver Dr, Suite 111 Sterling, VA 20166	ENG	0411 000051	02/29/2012
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	1734 Seibel Drive N.E. Roanoke, VA 24012	ENG	0411 000053	02/29/2012
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	10909 Houser Drive Fredericksburg VA 22408	ENG	0411 000050	02/29/2012
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	W Greenbrier Commerce Park 833 Professional Place Chesapeake, VA 23320	ENG	0411 000049	02/29/2012
Froehling & Robertson, Inc. <i>Branch Office Registration</i>	6181 Rockfish Gap Turnpike Crozet, VA 22932	ENG	0411 000052	02/29/2012
Quinn Consulting Services, Inc. <i>Home Office Registration</i>	4607 Marble Rock Court Chantilly, VA 20151	ENG	0407 003733	12/31/2011



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About DPOR

Contractor Business License

Contractor Business License	
BUSINESS NAME:	W-L CONSTRUCTION & PAVING INC
TRADING NAME:	
ADDRESS:	1484 HWY 107 CHILHOWIE, VA 24319-0000
BUSINESS TYPE:	CORPORATION
CLASS OF LICENSE:	A
CLASSIFICATIONS/SPECIALTIES:	HIGHWAY / HEAVY
REGISTRATION NO:	2701017666
INITIAL CERTIFICATION DATE:	APRIL 13, 1978
EXPIRATION DATE:	JANUARY 31, 2013

Open Complaints: None

"Open Complaints" reflect only those complaints for which a departmental investigation has determined that sufficient evidence exists to establish probable cause of a violation of the law or regulations. Only those cases that have proceeded through an investigation to the adjudication stage are displayed.

State law prohibits the disclosure of any information about open complaints[\[Code of Virginia Section 54.1-108\]](#). Members of the public may review official records and obtain copies only after a complaint investigation is closed.

Closed Complaints: None

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION

COMMONWEALTH OF VIRGINIA

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

EXPIRES ON
05-31-2012

NUMBER
2701 022512A

BOARD FOR CONTRACTORS
CLASS A CONTRACTORS LICENSE

D L B INC

PO BOX 1239
HILLSVILLE VA 24343

CLASSIFICATIONS HVA PLB ELE GFC BLD
H/H



Gordon N. Dixon
Gordon N. Dixon, Director

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

EXPIRES ON
02-29-2012

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

NUMBER
0411000586

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

PROFESSIONS: LA, LS, ENG

A MORTON THOMAS AND ASSOCIATES INC
14900 CONFERENCE CENTER DR STE 180
CHANTILLY, VA 20151



Jerry W. DeBoer
Jerry W. DeBoer, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APESCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000586 EXPIRES: 02-29-2012
PROFESSIONS: LA, LS, ENG
A MORTON THOMAS AND ASSOCIATES INC
14900 CONFERENCE CENTER DR STE 180
CHANTILLY, VA 20151



(FOLD)

(DETACH HERE)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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(8/08)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

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

EXPIRES ON

02-29-2012

NUMBER

0411000758

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

PROFESSIONS: ENG, LS

A MORTON THOMAS AND ASSOCIATES INC
ONE JADIP LANE
SUITE 111
FREDERICKSBURG, VA 22405



Gordon N. Dixon
Gordon N. Dixon, Director

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(DETACH HERE)

COMMONWEALTH OF VIRGINIA

BOARD FOR APPLSCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000758 EXPIRES: 02-29-2012
PROFESSIONS: ENG, LS
A MORTON THOMAS AND ASSOCIATES INC
ONE JADIP LANE
SUITE 111
FREDERICKSBURG, VA 22405



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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

EXPIRES ON

02-29-2012

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

NUMBER

0411000588

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

PROFESSIONS: ENG

A MORTON THOMAS AND ASSOCIATES INC
135 HIGHLAND DRIVE
LEBANON, VA 24266



Jan W. DeBoer
Jan W DeBoer Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APPLSCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000588 EXPIRES: 02-29-2012
PROFESSIONS: ENG

A MORTON THOMAS AND ASSOCIATES INC
135 HIGHLAND DRIVE
LEBANON, VA 24266



(DETACH HERE)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

fold

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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
02-29-2012

NUMBER
0411000587

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

PROFESSIONS: ENG, LA

A MORTON THOMAS AND ASSOCIATES INC
10710 MIDLOTHIAN TNPK STE 202
RICHMOND, VA 23235



Gordon N. Dixon
Gordon N. Dixon, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR AP/LS/CID/LA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000587 EXPIRES: 02-29-2012
PROFESSIONS: ENG, LA

A MORTON THOMAS AND ASSOCIATES INC
10710 MIDLOTHIAN TNPK STE 202
RICHMOND, VA 23235



1001

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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COMMONWEALTH OF VIRGINIA

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: 1 (804) 367-8500

EXPIRES ON

12-31-2011

NUMBER

0407003077

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

PROFESSIONS: LA, ENG, LS

A MORTON THOMAS AND ASSOCIATES INC
12750 TWINBROOK PARKWAY
ROCKVILLE, MD 20852



Jay W. DeBoer
Jay W. DeBoer, Director

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COMMONWEALTH OF VIRGINIA

BOARD FOR APPLSCIDLA
BUSINESS ENTITY REGISTRATION
NUMBER: 0407003077 EXPIRES: 12-31-2011
PROFESSIONS: LA, ENG, LS
A MORTON THOMAS AND ASSOCIATES INC
12750 TWINBROOK PARKWAY
ROCKVILLE, MD 20852



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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

EXPIRES ON

02-29-2012

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: 1 (804) 367-8500

NUMBER

0411000693

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

PROFESSIONS: LS, ENG, LA

A MORTON THOMAS AND ASSOCIATES INC
1530 BREEZEPORT WAY, BUILDING 4
SUITE 300
SUFFOLK, VA 23435



Jay W. DeBoer
Jay W. DeBoer, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APPLSCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000693 EXPIRES: 02-29-2012
PROFESSIONS: LS, ENG, LA
A MORTON THOMAS AND ASSOCIATES INC
1530 BREEZEPORT WAY, BUILDING 4
SUITE 300
SUFFOLK, VA 23435



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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

EXPIRES ON
02-29-2012

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

NUMBER
0411000589

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

PROFESSIONS: ENG

A MORTON THOMAS AND ASSOCIATES INC
113 MILL PLACE PKWY
UNIT 107
VERONA, VA 24482



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
12-31-2011

NUMBER
0413000317

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
PROFESSIONAL LIMITED LIABILITY COMPANY

PROFESSIONS: ENG

TRAFFIC SIGNALS PLUS PLLC
621 FRENCH'S STORE RD
CUMBERLAND, VA 23040



Jay W. DeFoe
Jay W. DeFoe, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APELSCIDLA
PROFESSIONAL LIMITED LIABILITY COMPANY
NUMBER: 0413000317 EXPIRES: 12-31-2011
PROFESSIONS: ENG



TRAFFIC SIGNALS PLUS PLLC
621 FRENCH'S STORE RD
CUMBERLAND, VA 23040

(DETACH HERE)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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

EXPIRES ON
02-29-2012

NUMBER
0411000128

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 BRANCH OFFICE REGISTRATION

PROFESSIONS: ENG

AMEC E&I INC
3705 SAUNDERS AVE
RICHMOND, VA 23227



Gordon N. Dixon
Gordon N. Dixon, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APELSCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000128 EXPIRES: 02-29-2012
PROFESSIONS: ENG
AMEC E&I INC
3705 SAUNDERS AVE
RICHMOND, VA 23227



(DETACH HERE)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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COMMONWEALTH OF VIRGINIA

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

EXPIRES ON

02-29-2012

NUMBER

0411000523

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

PROFESSIONS: ENG

AMEC E&I INC
1070 WEST MAIN ST.
SUITE 5
ABINGDON, VA 24210



Gordon N. Dixon
Gordon N. Dixon, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APESCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000523 EXPIRES: 02-29-2012
PROFESSIONS: ENG
AMEC E&I INC
1070 WEST MAIN ST.
SUITE 5
ABINGDON, VA 24210



(FOLD)

(DETACH HERE)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

EXPIRES ON
12-31-2011

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: 1 (804) 367-8500

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



Jan W. DeBoer
Jan W. DeBoer, Director

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COMMONWEALTH OF VIRGINIA**

EXPIRES ON

12-31-2011

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: 1 (804) 367-8500

NUMBER

0407000098

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

PROFESSIONS: ENG

**FROEHLING & ROBERTSON, INC
3015 DUMBARTON ROAD
RICHMOND, VA 23228**



John W. DeBoer
John W. DeBoer, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APPELSCIDLA
BUSINESS ENTITY REGISTRATION
NUMBER: 0407000098 EXPIRES: 12-31-2011
PROFESSIONS: ENG
FROEHLING & ROBERTSON, INC
3015 DUMBARTON ROAD
RICHMOND, VA 23228



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COMMONWEALTH OF VIRGINIA

EXPIRES ON

02-29-2012

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

NUMBER

0411000051

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

BUSINESS ENTITY BRANCH OFFICE REGISTRATION

PROFESSIONS: ENG

FROEHLING & ROBERTSON, INC
22923 QUICKSILVER DR STE 111
STERLING, VA 20166



James W. DeBoer
James W. DeBoer, Director

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COMMONWEALTH OF VIRGINIA

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BOARD FOR APPLSCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000051 EXPIRES: 02-29-2012
PROFESSIONS: ENG
FROEHLING & ROBERTSON, INC
22923 QUICKSILVER DR STE 111
STERLING, VA 20166



DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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COMMONWEALTH OF VIRGINIA

EXPIRES ON
02-29-2012

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: 1 (804) 367-8500

NUMBER
0411000053

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

PROFESSIONS: ENG

FROEHLING ROBERTSON INC
1734 SEIBEL DR N E
ROANOKE, VA 24012



James W. DeBorja
James W. DeBorja, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APPELSCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000053 EXPIRES: 02-29-2012
PROFESSIONS: ENG
FROEHLING ROBERTSON INC
1734 SEIBEL DR N E
ROANOKE, VA 24012



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10010 (8/08) 707169-8/1

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COMMONWEALTH OF VIRGINIA

EXPIRES ON

02-29-2012

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

NUMBER

0411000050

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

PROFESSIONS: ENG

FROEHLING & ROBERTSON, INC
10909 HOUSER DR
FREDERICKSBURG, VA 22408



James W. DeBoer
James W. DeBoer, Director

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COMMONWEALTH OF VIRGINIA

EXPIRES ON

02-29-2012

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

NUMBER

0411000049

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

BUSINESS ENTITY BRANCH OFFICE REGISTRATION

PROFESSIONS: ENG

FROEHLING & ROBERTSON, INC
W GREENBRIER COMMERCE PARK
833 PROFESSIONAL PLACE
CHESAPEAKE, VA 23320



Jan W. DeBorja
Jan W DeBorja Director

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COMMONWEALTH OF VIRGINIA

EXPIRES ON
02-29-2012

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

NUMBER
0411000052

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

PROFESSIONS: ENG

FROEHLING & ROBERTSON, INC
6181 ROCKFISH GAP TURNPIKE
CROZET, VA 22932



James W. DeBorja
Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APESCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411000052 EXPIRES: 02-29-2012
PROFESSIONS: ENG
FROEHLING & ROBERTSON, INC
6181 ROCKFISH GAP TURNPIKE
CROZET, VA 22932



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COMMONWEALTH OF VIRGINIA

EXPIRES ON

12-31-2011

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

NUMBER

0407003733

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

PROFESSIONS: ENG

QUINN CONSULTING SERVICES INC
4607 MARBLE ROCK COURT
CHANTILLY, VA 20151



Jay W. DeBoer
Jay W. DeBoer, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APESCIDLA
BUSINESS ENTITY REGISTRATION
NUMBER: 0407003733 EXPIRES: 12-31-2011
PROFESSIONS: ENG
QUINN CONSULTING SERVICES INC
4607 MARBLE ROCK COURT
CHANTILLY, VA 20151



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DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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3.2.8.3 DPOR Registration for Key Personnel

Registered Name	Address	Reg. Type	Registration Number	Expiration Date	Practicing Office
David Covington, PE <i>Design Manager</i>	113 Mill Place Parkway Verona, VA 24482	PE	0402 038235	06/30/2013	Verona, VA
Preston Breeding, PE, CCM <i>Quality Assurance Manager</i>	140 Hilltop Avenue Lebanon, VA 24266	PE	0402 040251	12/31/2012	Fredericksburg, VA
Tweolde A. Iyob, PE <i>Lead Structural Engineer</i>	12720 Autumn Crest Drive Oak Hill, VA 20171	PE	0402 017408	06/30/2013	McLean, VA

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

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

EXPIRES ON

06-30-2013

NUMBER

0402038235

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

DAVID WALTER COVINGTON
A.MORTON THOMAS & ASSOCIATES,INC
113 MILL PLACE PARKWAY
UNIT 107
VERONA, VA 24482



Gordon N. Dixon
Gordon N. Dixon, Director

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

EXPIRES ON

12-31-2012

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

NUMBER

0402040251

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

PRESTON EDWARD BREEDING
140 HILLTOP AVE
LEBANON, VA 24266



Gordon N. Dixon
Gordon N. Dixon, Director

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(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APPEALS
PROFESSIONAL ENGINEER LICENSE
NUMBER: 0402040251 EXPIRES: 12-31-2012

PRESTON EDWARD BREEDING
140 HILLTOP AVE
LEBANON, VA 24266



DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

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COMMONWEALTH OF VIRGINIA

EXPIRES ON
06-30-2013

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

NUMBER
0402017408

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

TEWOLDE A. IYOB
12720 AUTUMN CREST DRIVE
OAK HILL, VA 20171



Gordon N. Dixon
Gordon N. Dixon, Director

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(SEE REVERSE SIDE FOR NAME AND/OR ADDRESS CHANGE)

(POCKET CARD)

COMMONWEALTH OF VIRGINIA

BOARD FOR APELSCIDLA
PROFESSIONAL ENGINEER LICENSE
NUMBER: 0402017408 EXPIRES: 06-30-2013

TEWOLDE A. IYOB
12720 AUTUMN CREST DRIVE
OAK HILL, VA 20171



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9960 Mayland Dr., Suite 400, Richmond, VA 23233

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3.2.8.4 DPOR Registration for Other Professional Services

Registered Name	Address	Registration Number	Expiration Date	Practicing Office
Diversified Property Services of VA, Inc <i>Real Estate Appraiser Business</i>	20 E. Timonium Road, Suite 111 Timonium, MD 21093	4008 001190	11/30/2012	Timonium, MD

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

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

EXPIRES ON

11-30-2012

NUMBER

4008 001190

REAL ESTATE APPRAISER BOARD
BUSINESS REGISTRATION

DIVERSIFIED PROPERTY SERVICES OF VIRGINIA INC
20 E TIMONIUM ROAD SUITE 111
TIMONIUM MD 21093 0000



Gordon N. Dixon
Gordon N. Dixon, Director

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COMMONWEALTH OF VIRGINIA

REAL ESTATE APPRAISER BOARD
BUSINESS REGISTRATION

NUMBER: 4008 001190 EXPIRES: 11-30-2012

DIVERSIFIED PROPERTY SERVICES OF VIRGINIA INC

20 E TIMONIUM ROAD SUITE 111

TIMONIUM MD 21093 0000



DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
9960 Mayland Dr., Suite 400, Richmond, VA 23233

ALTERATION OF THIS DOCUMENT, USE AFTER EXPIRATION, OR USE BY PERSONS OR FIRMS OTHER THAN THOSE NAMED MAY RESULT IN CRIMINAL PROSECUTION UNDER THE CODE OF VIRGINIA.

(8/08)

Appendix E

ATTACHMENT NO. 3.2.5(a)

**CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS**

Project No.: 0581-128-109, P101, RW201, C501, B627

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 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.

Jerry D. Shanon 12/07/2011 Vice President/General Manager
Signature Date Title

W-L Construction & Paving, Inc.
Name of Firm

ATTACHMENT NO. 3.2.5(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0581-128-109, P101, RW201, C501, B627

- 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.

J. N. Ralut 12/5/11 Vice President of Field Operations
Signature Date Title

DLB, Inc.
Name of Firm

ATTACHMENT NO. 3.2.5(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0581-128-109, P101, RW201, C501, B627

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Earl J. Johns 12/05/11 Managing Member
Signature Date Title

Traffic Signals Plus, PLLC
Name of Firm

ATTACHMENT NO. 3.2.5(b)

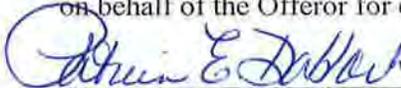
**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

Project No.: 0581-128-109, P101, RW201, C501, B627

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	12/5/2011	President
Signature	Date	Title

Diversified Property Services, Inc.

Name of Firm

ATTACHMENT NO. 3.2.5(b)

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LOWER TIER COVERED TRANSACTIONS**

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James Allington 12/2/11
Signature Date

PRINCIPAL / REGIONAL DIRECTOR
Title

PULSAR ADVERTISING

Name of Firm

ATTACHMENT NO. 3.2.5(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

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B. D. L. 12/5/2011 PRINCIPAL
Signature Date Title

AMEC E&I, INC
Name of Firm

ATTACHMENT NO. 3.2.5(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

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<u>Todd Iyob</u>	<u>12/5/11</u>	<u>President</u>
Signature	Date	Title

Athavale, Lystad & Associates, Inc.
Name of Firm

ATTACHMENT NO. 3.2.5(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

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	JAMES H. KIRBY	11/30/2011	PRESIDENT
Signature	Date		Title
FROENLING & ROBERTSON, INC.			
Name of Firm			

ATTACHMENT NO. 3.2.5(b)

**CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS**

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	December 5, 2011	President
Signature	Date	Title
Quinn Consulting Services, Inc.		
Name of Firm		

ATTACHMENT NO. 3.2.5(b)

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LOWER TIER COVERED TRANSACTIONS**

Project No.: 0581-128-109, P101, RW201, C501, B627

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Signature

Date

December 6, 2011

Christopher W. Menge, Senior Vice President

Title

Harris Miller Miller & Hanson Inc.

Name of Firm