



COMMONWEALTH of VIRGINIA

Commonwealth Transportation Board

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Chairman

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Agenda item # 8

RESOLUTION OF THE COMMONWEALTH TRANSPORTATION BOARD

September 21, 2016

MOTION

**Made By: Ms. Valentine, Seconded By: Ms. DeTuncq
Action: Motion Carried, Unanimously**

Title: Statewide Advanced Traffic Management Systems (ATMS) Contract Award

WHEREAS, VDOT currently operates five regional Transportation Operations Centers (TOCs) throughout the state, utilizing the Q-Free Open Roads OpenTMS system in its Salem, Staunton, Northern Virginia and Richmond TOCs, and the Kapsch DYNAC system in its Hampton Roads TOC; and

WHEREAS, each TOC monitors and manages traffic and disseminates real-time traffic/roadway conditions to the traveling public, supporting agencies and media outlets, with maintenance for the existing systems currently provided under two Transportation Operations Technology Support Services (TOTSS) contracts that expire in September 2016; and

WHEREAS, in order to promote efficiency, improve communication, and enhance consistency, VDOT proposes to consolidate all of its transportation operational systems into a single statewide ATMS that will be available to all of VDOT's TOCs, providing TOC interoperability, reducing the number of systems and infrastructure, and allowing for critical technology upgrades needed to improve and enhance current functionality and integration; and

WHEREAS, VDOT has determined that Open Roads Consulting, Inc. dba Q-Free, a Virginia Corporation, (hereinafter "Q-Free") is currently the only practically available provider of the software upgrades and consulting services needed to maintain existing operations while simultaneously consolidating functions, eliminating legacy systems, and enhancing operational capabilities; and

WHEREAS, VDOT recommends award of the Contract for this Project to Q-Free as a sole source provider of software and consulting services, subject to the contingencies set out below; and

WHEREAS, Commonwealth Transportation Board (CTB) approval of this contract is required by § 33.2-209 of the *Code of Virginia* as a contract for "...construction, maintenance, and improvement of the highways comprising systems of state highways...in excess of \$5 million..."

NOW, THEREFORE, BE IT RESOLVED, that the CTB hereby concurs with VDOT's recommendation and hereby agrees to award the Contract for this Project to Q-Free, subject to the following:

- (1) VITA approval is received for the sole source procurement.
- (2) Agreement between the Commissioner and Q-Free on final terms and conditions for the contract.

BE IT FURTHER RESOLVED, by the CTB, that the Commissioner of Highways, or his designee, is granted the authority to execute the Contract and all other documents necessary to effectuate the award of this Contract to Q-Free once these conditions have been met.

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CTB Decision Brief

Statewide **Advanced Traffic Management Systems (ATMS)** **Contract Award**

Issue: The Virginia Department of Transportation (VDOT) seeks to consolidate the transportation management systems at its five Transportation Operations Centers (TOCs) and other statewide systems into one, consolidated statewide management system. After a failed attempt by its contractor in 2013 to accomplish this task, VDOT has identified a solution that involves a sole source procurement for software and IT consulting services under a single contract with Open Roads Consulting, Inc. dba Q-Free with a total value of approximately \$25.8 Million. VDOT is seeking Commonwealth Transportation Board (CTB) approval of the contract award pursuant to § 33.2-209 of the *Code of Virginia*.

Facts: VDOT currently operates five regional TOCs throughout the state. Four of the TOCs operate on the Q-Free Open Roads OpenTMS system, which is an Advanced Traffic Management System (ATMS) customized to meet the specific needs of each TOC. The Hampton Roads TOC uses the Kapsch DYNAC system. Currently, each TOC monitors and manages traffic and disseminates real time traffic/roadway conditions to the traveling public, supporting agencies and media outlets. Services to maintain the existing systems are currently provided under two Transportation Operations Technology Support Services (TOTSS) contracts, one with Q-Free, and one with Kapsch. Both are sole-source contracts that expire in September 2016.

Over the past 15 years, VDOT has invested millions of dollars customizing the existing Open Roads suite of products to meet VDOT's specific needs at four of its TOCs, and provide statewide systems that report roadway conditions, manage requested lane closures, collect transportation-related information from 911 dispatch centers and deliver information to VDOT's 511 traveler information service. In order to promote efficiency, improve communication and enhance consistency, VDOT proposes to consolidate all of its regional and statewide transportation operational systems into one statewide ATMS that will be available to all of VDOT's TOCs. This consolidation will provide for TOC interoperability, reduce the number of systems and infrastructure, and allow for critical technology upgrades needed to improve and enhance current functionality and integration.

In fact, several of the customized programs created for VDOT will either be integrated into or replaced by the upgraded, statewide version of the Open Roads software, allowing all TOCs to utilize these capabilities from a single, hosted solution. This enables a consistent approach to training and operations across all five TOCs and will allow for the functionality of all traffic devices across the Commonwealth. The capability of the ATMS to interface or integrate with traffic devices, such as the Afton Mountain Fog System and other roadway systems and sensors, is of particular importance to public safety. There are over four thousand traffic devices that currently interface or integrate with the existing software applications.

In 2013, VDOT signed a contract that included provision of a new Statewide ATMS. The proposal in that contract was to combine all of the TOCs onto a consolidated platform utilizing the iNET system from Delcan. Neither the contractor nor its subcontractor was able to successfully deliver the ATMS and the contract was eventually terminated. One critical failure of the new system was the inability to successfully interface with key traffic devices around the state.

Q-Free has developed the suite of existing custom systems through a methodical systems engineering process to identify and address Virginia's unique transportation operations needs. Under the proposed contract, all of the individual elements that currently comprise the Open Roads suite of products will be combined into a single, statewide system benefitting the entire Commonwealth. Furthermore, additionally needed functionality will be included to meet the current needs of VDOT. Ultimately, this contract will allow the TOTSS contracts to expire as all services will be provided through the new statewide ATMS contract.

Experience gained from the previous solicitation and the experience with the previous contract makes it clear that utilization of a contractor offering a different system at this point in the evolution of the ATMS is likely to lead to interruptions of service in critical traffic control devices as well as significant costs for a new contractor to learn VDOT's requirements for its existing systems. Based on these considerations, VDOT has determined that Q-Free is currently the only practically available provider of the software upgrades and consulting services needed to maintain existing operations while simultaneously consolidating functions, eliminating legacy systems and enhancing operational capabilities.

For this reason, VDOT has pursued this contract as a sole source procurement. VDOT is currently seeking VITA approval for the sole source procurement.

All work under this agreement will be performed during an initial four-year term under the terms of the contract as currently drafted. While negotiations are continuing with the contractor, it is not anticipated that there will be any significant changes in the final contract. CTB approval of this contract is required by § 33.2-209 of the *Code of Virginia* as a contract for "...construction, maintenance, and improvement of the highways comprising systems of state highways...in excess of \$5 million..." The total value of the proposed contract with Q-Free is \$25,782,347.

Recommendation: It is recommended that the CTB authorize the Commissioner to execute the contract with Q-Free once negotiations are final and VITA approval is received.

Action Required by CTB: The CTB will be presented with a resolution for a formal vote.

Result, if Approved: The Commonwealth Transportation Commissioner will enter into an agreement with Q-Free as presented above.

Public Comments/Reactions: None solicited.