

Pre-Bid Meeting

Dedicated Short Range Communication (DSRC) and Automated Traffic Signal
Performance Measures (ATSPM) project

November 8, 2019

Transportation Cabinet Office Building

C109 – 9:00 AM

Attendees:

Shane McKenzie – KYTC CV/AV

David Durman – KYTC Central Office Traffic Operations

Jarrold Stanley – KYTC Research

Ted Swansegar – KYTC Central Office Traffic Operations

Natalia McMillan – KYTC District 7 Traffic Engineer

Jon Whitaker – KYTC District 3 Traffic Engineer

Chris Barrow – WSP

Lorne Smith – Arrow Electric

Michael Dehart – Arrow Electric

Deborah Price – Bluegrass Electric

Terry Metcalf – Bluegrass Electric

Keith Simpson – Davis H. Elliot

Mike Smith – Davis H. Elliot

Meeting:

The meeting began with introductions of each person present and Jarrod Stanley began by moving thru a short presentation about the project. The presentation included:

- An outline of the Main Components of the Project
 - Advanced detection
 - Dedicated Short Range Communication (DSRC) Radios
 - Connected Vehicle Module for Controller
 - System Configuration and Validation
- The Purpose of the project including:
 - Safety – Reduce Crashes (ATSPM & DSRC)
 - Improve Congestion (ATSPM)

- Learn Vehicle to Infrastructure Technology (Both)
- Grow Data and Data Sources for Decision Making (Both)
- Meet Signal Phase and Timing (SPaT) Challenge (DSRC)
- Potential Environmental Impact (ATSPM)
- Illustration that the project has two main goals: DSRC and ATSPM
- Map with deployments of both technologies nationwide
- Illustration of typical DSRC setup
- Wiring Diagram for DSRC, Traffic Controller and Server.
- Photos of DSRC and messages on an on board unit
- List of DSRC applications
- Illustration of ATSPM setup
- ATSPM website from Utah
- ATSPM data chart
- A list of Integrator activities such as:
 - Verify the transmission of DSRC messages.
 - Work with KYTC Staff for the storage of received DSRC messages.
 - Load software on 2070 ATC for ATSPM translation.
 - Create GIS maps for DSRC and ATSPM applications.
 - Work to integrate ATSPM data from ATC (2070) to desktop software for review by KYTC staff.
 - Work with KYTC Staff for the storage of ATSPM data.
- Map of the projects
- Photos of the Cabinets that may need some modifications
- Statement that all communications will be via wireless router
- Copy of the FCC License pre-filed by Jarrod Stanley for the project

After the presentation, the discussion was shifted to questions, for the project, from the perspective contractors. The questions were:

Q: Any concerns with contractor doing field investigation?

A: No. Please reach out to Districts to notify when you plan to investigate.

Q: Of the deployments nationwide, which should be looking at for information?

A: You should probably look at the deployments in Florida, North Carolina but Georgia's deployment is most like Kentucky's.

Q: You mentioned lag time might be an issue for equipment. Given the schedule and liquidated damages clause in the contract, will there be consideration for delay in equipment delivery?

A: Yes. Consideration for extension of time due to extenuating circumstances determined as out of the control of the contractor would begin with the contractor sending a letter explaining the circumstance and requesting time extension to the contract.

Q: Is there a specific software required?

A: The ATSPMs has an open source platform accessible through FHWA's website. Software related to RSUs/OBUs and Connected Vehicle Module for Controller shall be compatible with 2070 ATC controllers and MaxTime controller software.

Q. Will the security credential management system need to be built and is that considered as included in the RSU bid item?

A. Building a security credential management system (SCMS) is not part of this contract. This project intends to successfully send SPaT, MAP and GPS data to/from RSUs. Then verify receipt, proper transmission and translation of Basic Safety messages with portable OBUs. While the SPaT infrastructure proposed does not have vehicles to communicate with at this time, the system will need to be compatible with the National SCMS for future applications.

Q. Are there cabinets that need modified? Are there serial cabinets?

Yes, see contract documents for locations. Additionally, we encourage field visits to assess for new equipment accommodations. Please contact D-7 or D-3 to arrange field visit.

Q. Will there be one point of contact for this project?

A: Yes. The preconstruction meeting for this project will include project management information for all aspects of this project.

Q. Will communications equipment have IP v 4 or IP v 6?











A: The equipment is likely IP v 6. Check with Travis Wagers.

D-3 has a project with a proposed Jan/Feb 2020 letting includes five intersections with signal rebuilding within the limits of this project. Whether or not it is complete, no disruption or conflict is anticipated.

Project No. 121GR19T013-HSIP - Implement ATSPMs and V2I on KY-876 and US -25 in Madison County, Richmond, KY & on US 231 in Warren County, KY

Pre-Bid Meeting - 11/8/2019 - 9:00 AM Eastern Time - KYTC Business Center Room 109

SIGN IN SHEET

	Print Name	Sign In	Affiliation
1	David Durman		KYTC
2	CHRIS BARROW		WSP
3	LORNE SMITH		Arrow
4	Michael Pehart		Arrow
5	KEITH SIMPSON		ELLIOT
6	Michael Smith		DHE
7	Deborah Price		BEC
8	Terry Mervatt		Bluegrass Electrical
9	Jon Whitaker		D.B
10	Ted Wauger		C.O
11	Latrod Stanley		C.O
12	Natalia McMillan		D.T
13	SHANE MCKENNA		C.O
14			
15			