PSAP Grant Program Grant Ranker

View Application--88--Appomattox Centerline Update

Grant Period: 2009

Tier: Replacement of non-vendor supported wireless E-911 equipment or service to enable primary PSAP to maintain current service levels to the general public (**NON-VENDOR SUPPORTED**)
Grant Program: Continuity and Consolidation **Grant Type:** Individual PSAP
Priority: RCL maintenance (**RCL**)

Primary PSAP Applicants:	Appomattox County
Jurisdictions Served:	Appomattox

Project Director:
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Project Description:
Appomattox County intends to update their current CAD mapping data to incorporate new 2007 orthoimagery and centerline data. This project involves updating the current centerline geometry to accurately display on the 2007 imagery. The County has been updating centerlines using information provided by plats, and citizens. This update project will align existing centerlines and updates to the 2007 imagery. This is part of an overall County plan to update their CAD and GIS data to the 2007 imagery as a vital aid to 911 dispatchers serving their citizens.

Total Project Cost	$19,600.00
Amount Requested:	$15,680.00
Matching Funds:	$3,920.00
Additional Local Funds:	$0.00

Statement of Need:
This project falls under Funding Tier 2 and continuity priority 4, RCL Maintenance. Road updates are done using the best available source information which is typically subdivision or road plans, and citizen information. As-built alignment changes can be most effectively determined through comparing GIS/E-911 road data with new imagery. These roads can then be adjusted to insure that location information can be accurately provided by dispatchers to emergency responders. Completion of this project would allow the County to accurately reflect the location of all roads, structures, and addressing to enable the PSAP to maintain their service levels to all citizens and businesses.

Project Impact:
This project improves the County's ability to provide emergency and non-emergency services to the County citizens. This project will enable us to more accurately locate wireless and wireline emergency calls in relationship to roads and surrounding features.

Consequence of Not Receiving:
The County has some available funding for road maintenance, but lacks the in-house time and expertise to perform this project. If this funding is not received, the County will not have a GIS or E-911 with accurate road locations.

Part of Long Term or Strategic Plan?: Yes
Likelihood of Completion Unfunded?: 0%
Other Available Funding Sources?: Yes
Percent of Grant Funding Requested To Total Funding Cost?: 80%
Is Project Locally Sustainable?: Yes

Comprehensive Project Description:
The County plans to update its GIS and E-911 data to the 2007 orthoimagery in its continuing effort to provide the highest quality emergency services to County citizens. The County will conflate all associated annotation to the centerline data through local funding to lessen the overall grant request from the state. The centerline adjustment project will be completed in five(5) phases: Verifying and Loading Data, Pilot Area Creation, Delivery and Acceptance, Aligning Centerline Data to the Orthoimagery, a Quality Control phase to review centerline adjustments and correct topology, and Final Delivery and Data Prep. The anticipated duration of the parcel project will be approximately three months from kick off to completion. Phase 1: Receiving, Verifiying and Loading Data This phase of the project will include receiving and verifying the centerline data and 2006/2007 orthoimagery. Orthoimagery and centerline data will be loaded into an Enterprise geodatabase platform for viewing and editing environment. The anticipated duration of Phase 1 is one week. Phase 2: Pilot Area Creation, Delivery and Acceptance The phase will involve establishing a pilot area of within the County for the initial centerline adjustment. Once this pilot delivery is complete, the County will have the opportunity to review and comment on the data. Once pilot area data is agreed upon, work will continue on Phase 3. The anticipated duration of this phase is three weeks. Phase 3: Aligning Centerline Data to Orthoimagery Aligning centerline data to the orthoimagery will take place in the ArcSDE environment, allowing Specialists ease of use and continuity throughout the County. All centerline data will be visually inspected by Specialists with immediate focus on areas of development since 2002. Any discrepancies or adjustments that need County involvement will also be dealt with in this phase. The anticipated duration of this phase is six weeks. Phase 4 Quality Control Phase 4 involves quality control of the adjusted centerlines. A QA/QC Specialist will inspect all centerline data for errors or improvements of the performed work. Topology checks of the centerline geometry will also be performed to rule out overlapping geometry, duplication, dangle errors, multi-part segments, and other geometric errors that hinder connectivity. These issues will be addressed to ensure a quality product. The anticipated duration of this phase is two weeks. Phase 5: Final Delivery and Data Prep Phase 5 involves the creation of a new centerline export file matching the requirements of the CAD mapping system in use by the County. The anticipated duration of this phase is one week.

What type of interface or compatibility solution will be used between existing equipment and/or software and that which you intend to purchase?:
The County does not intend to purchase equipment or software.

What is the overall relationship of your project to your PSAP or locality's established long-range future plans?:
This project is part of the County's long-term commitment to improve response capability through establishment of a common base data set using the VBMP imagery and roads. As the County has already invested in migrating to the VBMP data at the time of its initial addressing project, it is important to continue investing in maintaining the data to the VBMP as it evolves.

How will the equipment purchased will support future technologies for PSAP readiness?:
Not applicable.

Budget and Budget Narrative:
See Attached.

Ongoing Expenses:
The County intends to maintain the centerline data through local funding associated with the County's emergency operations.

Evaluation:
The County intends to perpetuate the results of the project through a combination of general funds and funding associated with the operation of the County's emergency operations.

What are the short term, intermediate, and/or long-term outcomes desired for this project?:
The anticipated outcome of this project is that the County has an accurate road centerline network that will overlay the 2007 imagery within their GIS and E-911 CAD Mapping system. The County will also be able to provide updates to the VBMP RCL program that will be used for regional response.

What measures will be used to determine outcomes?:
Success measurement will be defined in terms of achieving the desired functionality within the established project timeframe and fee. Specific functional requirements are: VBMP Adjustment – Location of parcels that overlay the location as shown on the 2007 imagery within the accuracy standards for the given area (1"=200' and 1"=100' scale mapping standards). Successful implementation will be defined in terms of project milestones and final project deliverables. Project milestones for VBMP Adjustment will include: 1. Project Kick-off 2. VBMP Imagery acquisition 3. Pilot area production 4. County Review and Acceptance of pilot data 5. Final data delivery and Acceptance

How will data be collected and how will evaluations be conducted?:
Evaluation data will be collected throughout the project as specific milestones are achieved. The data sources will include regular project status reports, milestone testing and acceptance documents, and final project acceptance documents.

How will data be presented?:
As part of the overall project, a Project Management Document shall be developed that incorporates each stage of the project, and provides an audit trail associated with final outcomes, final project metrics, and achievement of specific project deliverables.

Attachments

Appomattox_Centerline_Budget.PDF

Budget Attachment:

	Proposed Project Fee			
Phase	**Required Tasks**	**Total Fee**	**Grant Request**	**Matching Funds**
1	Receiving, Verifying, and Loading Data	$ 500	$ 400	$ 80
2	Pilot Area Creation, Delivery and Acceptance	$ 2,000	$ 1,600	$ 320
3	Aligning Centerline Data to Orthoimagery	$ 10,500	$ 8,400	$ 1,680
4	Quality Control	$ 6,100	$ 4,880	$ 976
5	Final Delivery	$ 500	$ 400	$ 80
		$ 19,600	$ 15,680	$ 3920