

PSAP Grant Program Grant Ranker

View Application--96--Appomattox Structure and Access Point 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: Structural addressing (**ADDRESS**)

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 to incorporate new base data, 2007 orthoimagery structure addressing points and access points. This project involves updating the current structure points, access points, and leader lines to accurately display on this new imagery. This update will align structure points to new imagery, as well as correctly place structure points added to the dataset since 2002. This is part of an overall County plan to update their VBMP based addressing centerlines, parcels, address structure points and access points to the 2007 imagery as a vital aid to 911 dispatchers serving their citizens.

Total Project Cost \$25,600.00

Amount Requested: \$20,480.00

Matching Funds: \$5,120.00

Additional Local Funds: \$0.00

Statement of Need:

This project fits into tier 2 and continuity priority 8, Structural Addressing. Structure and associated addressing locations are a key data set used by E-911 for locating and responding to emergencies. It is of vital importance that structure points are correctly placed to aid in CAD Mapping dispatch and emergency response. Completion of this project would allow the County to accurately reflect the location of structures and associated addressing data to enable the PSAP to maintain their service levels to all citizens and businesses.

Project Impact:

This project improves our ability to provide emergency and non-emergency services to the County citizens. It enables us to more accurately locate wireless and wireline emergency calls in relationship to addressed structures and access points.

Consequence of Not Receiving:

The County has some available funding for address 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 structure and access point 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 structure and access point data through local funding to lessen the overall grant request from the state. The structure and access point adjustment project will be completed in six(6) phases: Verifying and Loading Data, Pilot Area Creation, Delivery and Acceptance, Adjusting Point Data and Leaders to the Orthoimagery, Resolving Placement Discrepancies with County, a Quality Control phase to review 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, Verifying and Loading Data This phase of the project will include receiving and verifying the point and leader data and 2006/2007 orthoimagery. Orthoimagery and GIS geometry 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 point and leader 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: Adjusting Structure, Access, and Leader Data to Orthoimagery Adjusting point and leader line data to the orthoimagery will take place in the ArcSDE environment, allowing Specialists ease of use and continuity throughout the County. All 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: Resolve Placement Discrepancies with County Phase 4 involves communicating with the County about various structure points that have no clear placement on the data, and notifying the County about structure and access points that may need to be created. These discrepancies will require resolution with the aid of the County. The anticipated duration of this phase is one week. Phase 5: Quality Control Phase 5 involves quality control of the adjusted points and leaders. A QA/QC Specialist will inspect all data for errors or improvements of the performed work. Topology checks of the points to leaders will also be checked for connectivity. The anticipated duration of this phase is two weeks. Phase 6: Final Delivery and Data Prep Phase 6 involves the creation of a new export files for the structure points, access points, and leader lines in order to match 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, in conjunction with our appointed project manager, plan to use industry standard GIS and mapping software that consumes and produces industry standard data files and formats.

What is the overall relationship of your project to your PSAP or locality's established long-range future plans?:

This project is part of our long-term commitment to improve the accuracy of the structure and addressing information using the VBMP imagery and roads as base data.

How will the equipment purchased will support future technologies for PSAP readiness?:

No equipment will be purchased as part of this project.

Budget and Budget Narrative:

See Attached.

Ongoing Expenses:

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.

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?:

Desired Project Outcomes: • The County has a comprehensive, accurate structure and address point data that will overlay the 2007 imagery and road network within their GIS. • The County has a comprehensive, accurate structure and address point data that will overlay the 2007 imagery and road network within their E-911 mapping system. • The County shall have a single, seamless GIS database that can be leveraged across a number of other County Departments.

What measures will be used to determine outcomes?:

The updated structure points will 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 include: 1. Project Kick-off 2. VBMP Imagery acquisition 3. Pilot area production 4. County Review of pilot data 5. Adjustment of data 6. Resolving data discrepancies 7. Final data prep and delivery

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_Structure_Budget.PDF

Budget Attachment:

Required Tasks	Total Fee	Grant Request	Matching Funds
Receive, Verify, Loading Data	\$ 1,000	\$ 800	\$ 200
Pilot Area Creation, Delivery and Acceptance	\$ 3,200	\$ 2,560	\$ 640
Adjust Points and Leaders to 2006/2007 Imagery	\$ 15,000	\$ 12,000	\$ 3,000
Resolve Placement Discrepancies with County	\$ 3,200	\$ 2,560	\$ 640
QC of Adjustment and Topology	\$ 3,200	\$ 2,560	\$ 640
Final Data Prep and Delivery	\$ 1,000	\$ 800	\$ 200
Total	\$ 25,600	\$ 20,480	\$ 5,120