

PSAP Grant Program Grant Ranker

View Application--93--Structure & Addressing Adjustment

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: Nelson County

Jurisdictions Served: Nelson

Project Director:

Susan Rorrer
E-911 Coordinator
84 Courthouse Square PO Box 336 Lovingson, VA 22949
(434) 263-7120 (phone)
(434) 263-7004 (fax)
srorrer@nelsoncounty.org

Project Description:

Nelson County is interested in adjusting the structure point locations and associated addressing to the 2007 VBMP imagery and roof prints. Nelson County structure locations were migrated from the existing CADD data as part of the initial GIS / E-911 data development project done in 2005-2006. Successful accomplishment of this project will correct errors in structure point locations and reduce structure address identification confusion for GIS and E-911 users. This adjustment process will insure that the GIS and E-911 data is spatially accurate and easy to use.

Total Project Cost \$44,775.00

Amount Requested: \$35,820.00

Matching Funds: \$8,955.00

Additional Local Funds: \$0.00

Statement of Need:

This project fits into tier 2 and continuity priority 8, Structural Addressing. Structure locations and associated addressing locations are a key data set used by E-911 for locating and responding to emergencies. Nelson County structure locations were migrated from the existing CADD data as part of the initial GIS / E-911 data development project done in 2005-2006. These existing structures were not adjusted to the 2002 imagery due to the number of new structures that were built since 2002 (not on the imagery) and the finite amount of funding available for initial development. Nelson County has since purchased structure planimetrics through the VBMP, however address points and access data have not been adjusted to agree with their location in the orthophotography. Now is the most cost efficient time to adjust

the structures and addressing to their actual locations and roof prints using the 2007 imagery. Completion of this project would allow the County to accurately reflect the location of structures, and addressing and 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 especially since wireless caller location is of reached by determining its location in relation to addressed structures and roof prints.

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 address locations.

Part of Long Term or Strategic Plan?: Yes

Likelihood of Completion Unfunded?: 0%

Other Available Funding Sources?: No

Percent of Grant Funding Requested To Total Funding Cost?: 80%

Is Project Locally Sustainable?: Yes

Comprehensive Project Description:

Successful completion of this project will improve the spatial accuracy of the structures points and addressing by aligning them to the 2007 imagery. This adjustment process will insure that the GIS and E-911 data is spatially accurate. Project Goal: To maintain accurate County structure location roof prints and addresses that can be used by local emergency response and local GIS. Implementation Strategy The implementation strategy is to acquire the 2007 VBMP imagery, determine the structure points that are out of alignment with the structures as shown on the imagery, and update their location to reflect what actually exists. This will be implemented by establishing a pilot area to evaluate and approve the project products and then a full countywide implementation. The effort shall approximately 2 months to fully complete. The resulting efforts shall become and remain part of the County's GIS data which serves a variety of functions, including E-911 dispatch, community development and planning, tax and revenue, economic development, and regional preparedness. Work Plan The work plan consists of the following tasks: Project Kick-off – We will convene a project kick off meeting to confirm expectations with respect to scope schedule and fee. Imagery Acquisition – We will acquire the 2007 imagery from VGIN and load it into our GIS. Structure Location Determination – We will overlay the existing structure points on the 2007 imagery and determine the association of structure point to structure on the imagery. Structure Location Adjustment – Structures that are found to be out of place with respect to the imagery will be moved within the GIS to align with the imagery and roads. ALI Audit – Adjusted structure points and associated addresses will be compared to a current ALI data set to confirm that all County structure addresses conform to and are covered by the ALI. Discrepancies will be investigated in the GIS and if necessary forwarded to the ALI provider for resolution. E-911 Data Feed – The resulting structure point and address data set will be prepared and loaded into the County CAD / Mapping system. This will provide accurate information for E-911 call takers and dispatchers to accurately locate wireless and wire line emergency calls.

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 Budget Attachment

Ongoing Expenses:

No on-going expenses.

Evaluation:

Project Success will be evaluated by assessing the project progress against the defined scope, schedule, milestones, and fee. This will be done by the County project manager.

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 and rooftop data that will overlay the 2007 imagery and road network within their GIS. • The County has a comprehensive, accurate structure and address point and rooftop 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. Data delivery 6. County acceptance 7. Data preparation for E-911 CAD Mapping 8. 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