

PSAP Grant Program Grant Ranker

View Application--104--E911 GIS Data Development

Grant Period: 2010

Tier: Strengthen current equipment and service delivery capability by upgrading existing wireless E-911 related equipment or services (**STRENGTHEN**)

Grant Program: Continuity and Consolidation **Grant Type:** Individual PSAP

Priority: GIS: high priority (refer to GIS-related Grant Request Prioritization Matrix for a description of GIS projects that would have a high funding priority) (**GIS HIGH PRIORITY**)

Primary PSAP Applicants: Caroline County

Jurisdictions Served: Bowling Green, Town of

Project Director:

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Project Description:

Total Project Cost \$97,000.00

Amount Requested: \$97,000.00

Statement of Need:

Caroline County has begun the first phase of GIS development, including the creation of a GIS strategic plan that will identify long term mapping needs for the County. The County is just starting to develop its GIS database and is a late adopter of the mapping technology. Funding for the County's overall effort is limited and a PSAP grant will provide the County with resources to both address data requirements in for its emergency services staff while meeting data needs for the entire County. Development of this data is a critical part of the County's overall enterprise GIS data development efforts.

Comprehensive Project Description:

In 2004, Caroline County conducted an IT Needs Assessment and prioritized the development of GIS as part of its long term IT goals. The County has obtained funding for a number of GIS-related tasks and intends to use the PSAP grant to realize the integration of its Enterprise GIS data with its Computer Aided Dispatch. The PSAP grant will allow the County to build on existing spatial 911-related data and develop a complete set of MSAG compliant 911 data layers, including road centerlines and site addresses. The timeline for the project is nine months from the award of the grant and it includes field verification of County roads, site addresses and the development of a building footprint layer related, to be used for dispatch purposes. All data will be developed in ESRI's standard Geodatabase format and will become part of the County's

enterprise GIS. The road centerline database design will be based on the VGIN road centerline design standard. The road centerline effort will also start with best available sources for current road network information including, but not limited to, hard copy maps, computer aided dispatch files, and VGIN Road Centerline program files, to build a County-wide centerline dataset. The County will work to assure accurate network topology, connectivity and directionality, modeling one-way streets and divided highways as well as overpasses and ramp systems. Perhaps as critical and valuable to the County as a complete and validated centerline network is an accurate and reliable site address dataset. The project will start with best available sources for site address information, including but not limited to hard copy maps, computer aided dispatch files, and parcel boundary / CAMA files to create point locations for each addressed structure. The project will also derive County-wide building footprints, either as primary structures only, or as all structures to a minimum size (such as 100 square feet). After building footprints are created, site addresses will be associated with each corresponding structure footprint.

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

Data developed under the project will support PSAP readiness by allowing the County to accurately locate all addresses in the County. This data is critical for PSAP readiness, as it provides first responders with the information they need during a crisis. Accurate, reliable road centerline network information is critical to departments and agencies throughout the County, particularly Emergency Services. Site address data serves as a valuable supplement to centerlines by identifying the actual location of addressed structures, which can vary widely from the interpolated locations assigned by geocoding software, particularly in rural areas. Building footprints will provide the County with an understanding of where each structure is located and the characteristics of the building where an incident is occurring.

Budget and Budget Narrative:

The total planned expenditures for the task items identified in the project are as follows: Road Centerline Development: \$36,000 Site Address Data Development: \$42,000 Building Footprint Development: \$19,000

Evaluation:

As part of its Enterprise GIS efforts, the County is developing a GIS Strategic Plan. One of the goals of the plan is to measure the effectiveness of the County's first phase of GIS development, which includes the development of the data layers identified in the grant. Since the primary goal is to provide an interoperable mapping environment for the County's GIS data, one key evaluation measurement will be the success the County sees with maintaining one set of GIS data, for use in a variety of business systems.

Attachments