



**CITY OF NEW BRAUNFELS
REQUEST FOR PROPOSALS**

PROJECT:
GIS for Asset Management

BACKGROUND

The City of New Braunfels is part of the Texas Hill Country. Founded in 1845 by German settlers, New Braunfels is known for its old world heritage and small town Texas charm, which is an impressive feat, considering the population has grown to 57,740 per the 2010 Census. The long list of attractions in the City of New Braunfels includes places such as the cool waters of the Guadalupe and Comal Rivers, Gruene Historic District, Downtown New Braunfels, and Schlitterbahn. With an ever-growing number of residents and visitors, the City is faced with challenges as it attempts to keep its infrastructure up with demands. One way of effectively managing infrastructure is to utilize an asset management system. Fortunately, the City of New Braunfels has a site license with Accela (Esri partner and provider of GIS-infused government applications), and the plan is to implement the asset management module in conjunction with the City's enterprise GIS to help inventory, maintain, and model the municipality's infrastructure. The Parks and Recreation Department has been selected to be the pilot of this implementation.

PRELIMINARY SCOPE OF WORK

The City of New Braunfels is requesting proposals for collaboration with Texas State University GIS students for services to consult with the City's GIS division and members of the parks and recreation staff to begin the first phase of a GIS-based asset management implementation for the City. This work includes a formal needs assessment involving interviews of parks and recreation staff to understand the categories of work routinely performed and identifying the various types of assets. Based upon these findings, it is expected that a GIS schema will be designed to serve as the structure for inventorying this asset information. Spatial (location) and aspatial (attribute) data will be collected as part of this inventory to build the requisite GIS layers. From there, students will have the opportunity to work directly with the City's GIS Analyst / Accela Administrator to take the newly created GIS features and synchronize them with Accela's asset management. The final component of this project will be more analytical in nature, giving consideration to the quality of the existing and desired asset infrastructure, and drafting preliminary reports/dashboards for management.

LEARNING OUTCOMES AND GOALS

- Students will gain real-world applied GIS experience working with a municipal government.
- Students will gain experience working with ArcGIS Desktop Advanced 10.1 and ArcGIS for Server 10.1.
- Students will be exposed to Accela, a computerized maintenance management system, which is used for asset management, work orders, inspections, etc. and is tightly integrated with GIS (*no previous experience required*).
- Data collection will involve a variety of techniques, including field verification, GPS, and digitizing over aerials.
- Students will need to consider what attribute information should be captured within the GIS database, Accela, or both, and Venn diagrams should be constructed for capturing this information following the needs assessment with City staff.
- Students will see how GIS and Accela are very flexible, whereby almost anything could be treated as an asset. As such, data will be collected for a variety of features, such as trees, mowing areas, restrooms, playgrounds, sport courts, park signage, drinking fountains, trash receptacles, building facilities, landscape maintenance, etc.
- Students will be challenged analytically by helping the City evaluate the effectiveness of the distribution of assets and the quality of the infrastructure, identifying which areas are under-served by assets, and helping the City be able to quantify how much work and funds these assets require.

POINTS OF CONTACT

WILLIAM FLYNN
GIS Analyst / Accela Administrator
451 South Castell Avenue
New Braunfels, Texas 78130
wflynn@nbtexas.org
(830) 221-4339

GREG BROWN
GIS Coordinator
451 South Castell Avenue
New Braunfels, Texas 78130
gbrown@nbtexas.org
(830) 221-4337

KELLY EBY
Urban Forester
110 Golf Course Road
New Braunfels, TX 78130
keby@nbtexas.org
(830) 221-4359