

# Abstract

## [LINK TO PAPER](#)

### **GIS Developed Benchmark Control Network for Harris County, Texas**

**Track:** Surveying

**Author(s):** Elle Anderson, Brandon Grimm

The Harris County Flood Control District established a benchmark control network of more than 1,700 monuments to assist in the development of an updated Flood Insurance Study to a 2000 datum. The network will assist 35 communities in the administration of floodplain ordinances and serve as control for construction projects. Monuments were located based on the FEMA criteria of one every stream mile or per 2 square miles of floodplain. Existing networks owned by cities, TxDOT, subsidence districts, U.S. Army Corps, and others were analyzed. Where holes were found, an aerial analysis of bridge locations to meet the criteria developed suitable locations.

#### **Elle Anderson**

Brown & Gay Engineers, Inc.

Public Works

11490 Westheimer

Suite 700

Houston , TX 77077

USA

**Phone:** (281) 558-8700

**Fax:** (281) 558-9701

**E-mail:** [eanderson@browngay.com](mailto:eanderson@browngay.com)

#### **Brandon Grimm**

Brown & Gay Engineers, Inc.

Public Works

11490 Westheimer

Suite 700

Houston 77077

USA

**Phone:** (281) 558-8700

**Fax:** (281) 558-9701

**E-mail:** [bgrimm@browngay.com](mailto:bgrimm@browngay.com)