



ADDENDUM NUMBER II
Civil Engineering Services
Revised Scope of Work
Bid #03282013-009

To: All Bidders

From: Sha-Rone Caffie-Reyes, Purchasing and Contracts Manager

Date: April 15, 2013



BDA requests that the Civil Engineering Firm include a Telecommunications Engineering Firm or Individual as part of the team.

**APPENDIX B
REVISED SCOPE OF WORK**

SERVICE REQUIREMENTS:

This RFQ is not related to a specific project. Broadly defined task statements include:

CIVIL ENGINEERING

1. SCOPE OF SERVICES:

- Design and preparation of construction documents and associated subdivision plats for street, drainage, water, sanitary sewer, and telecommunications infrastructure to support proposed parcels for Brooks City-Base;
- Prepare base maps, preliminary layouts, estimates of probable costs and alternatives as requested;
- Prepare engineering designs, calculations, plans, specifications, cost estimate and contract bidding documents;
- Submittal of construction documents, platting and zoning as needed to the City of San Antonio and other required agencies and coordination as required to obtain approval by the City of San Antonio Planning Commission;
- Participate in construction administration as required by SAWS for sanitary sewer and water infrastructure;
- Participate in completing traffic studies, design of roads and infrastructure analysis as required to assist with land planning efforts and the continual design of a "Utility Master Plan" for the BC-B Campus;
- Participate in Civil Design with BDA's design team for site conditions/issues for existing facilities and new development projects sites;
- Preparation of construction documents for signalized intersections;
- Preparation of formal and informal feasibility studies as necessary to assist BDA in responding to development opportunities at Brooks City-Base;
- Attend meetings as required to assist BDA in responding to development opportunities at Brooks City-Base;
- Analysis of existing infrastructure and available capacity to serve proposed development projects;

- Preparation of legal descriptions, exhibits, and surveys;
- Preparation of cost estimates for proposed infrastructure;
- Preparation of flood studies, including FEMA submittals;
- Design and preparation of construction documents for proposed storm water detention facilities;
- Design, preparation of construction documents, and permitting required for recycled water systems;
- Preparation of water system models to address flow and pressure issue between two SAWS services levels;
- Engage appropriate geotechnical, environmental, landscape architects, structural, and MEP sub-consultants as required to complete specific projects;
- Coordinate with City of San Antonio, SAWS, and CPS as required for master planning as well as BDA projects;
- Preparation of appropriate permitting documents detailing compliance with the City of San Antonio 2003 Tree Preservation Ordinance and the 2006 Amendments for Public Projects, as agreed upon by COSA and BDA; the BC-B Tree Preservation Plan; and
- Preparation of periodic project status reports.
- Knowledge of the City of San Antonio's Development Code.

2. Telecommunications Engineering

In unscheduled frequencies, BDA has the requirement to assess the telecommunication elements on campus. The Respondent will be called upon to provide the following types of services:

- Conduct surveys, draft cable, conduit and wiring specifications, and construction drawings for OSP projects. Will follow BICSI standards on all wiring plans;
- Analyze strengths and weaknesses of RFQ responses and Bid proposals from equipment manufacturers, cabling contractors and communication companies to help Civil Engineer make the best selection for Brooks City-Base;
- Work with Civil Engineer and BDA staff to continue implementation of, the Brooks City-Base Telecommunications Master Plan;

- Verify that cable and equipment specifications are followed for all projects; and that test and performance standards meet specified requirements;
- Must have Outside Plant Engineers, Professional Engineers and Registered Communications Distribution Designers on staff;
- Must have experience working on former military installations; and experience with military telecommunications infrastructure records and files;
- Must have the ability to address, and make presentations to, various Boards of Directors, and represent the BDA in meetings with these and other entities;
- Must be independent – not owned by a telecommunications provider or equipment manufacturer;
- Will have experience with: digital loop electronics, central office equipment and customer premise equipment;
- Will have experience engineering and project management of fiber optic networks to include but not limited to: needs analysis, project cost estimates and budget preparation, cable selection (underground, ADSS cable, and buried cable), project management and system inspection / acceptance testing;
- Will have experience engineering and project management of copper cable networks to include but not limited to: needs analysis, project cost estimates and budget preparation, cable selection (underground, buried and aerial), project management system inspection / acceptance testing;
- Will have experience with wireless communications systems and propagation studies to include: microwave communication systems, VHF/UHF, 800 & 900 MHz systems; and will be able to design, engineer and assist with project management and acceptance testing of such systems;
- Will have experience with wireless antenna specifications and location selection;
- Will have experience with CATV systems and designs;
- Shall have survey crews available to support ongoing and future telecommunications projects to include: building cabling for single and multi-tenant, multi-story facilities, wireless communications, fiber optic and copper cable networks; and
- Must have experience negotiating ROW's and easement agreements.