

Memorandum



Date: November 10, 2016

To: Gary Hartfield, Division Director
Internal Services Department, Small Business Development

From: Milton L. Collins, Division Director 
Miami-Dade Aviation Department, Minority Affairs Division

Subject: Recommendation of Contract Measures
General Special Systems Engineering Services
ISD Project No. E16-MDAD-08

RECOMMENDATION:

This is a request for Small Business Development to proceed with the approval of the recommendation of Contract Measures request for **the General Special Systems Engineering Services, ISD Project No. E16-MDAD-08**. MIA staff have evaluated the subject project and recommends an **SBE A&E Goal of 5%**. (See attached **Service Description breakdown of services to be performed**).

The Term of the Agreement will be for five (5) years. The Contract Estimated Amount will be \$4,000,000.00 for two (2) Professional Services Agreements with a contract estimated amount of \$2,000,000.00 each.

PROJECT DESCRIPTION:

The project involves renovations and improvements of airport special systems, low voltage data, communication and security systems Terminal-wide and miscellaneous code and system related Terminal-wide improvements. Prime consultant must have five (5) years experience designing a combination of terminal cameras, alarms, and/or PA systems at large hub U.S. airports.

SCOPE OF SERVICES FOR SPECIAL SYSSYEMS ENGINEERING SERVICES:

The scope of services to be provided by the selected Engineering firm includes, but is not limited to, site investigations and analyses, special systems planning, engineering studies, special system surveys, conceptual, preliminary and final designs, Construction Management and/or support during implementation.

It is anticipated that the projects will be at the Terminal buildings and other facilities of the Miami International Airport, services will be provided in response to specific and individual tasks assignments in accordance with the terms and conditions of the contract.

The selected Firm should have a thorough knowledge of all Special Systems to include but not limited to Information Technology Infrastructure, MDAD Data Network System, Voice Network System, Wireless Systems, Network Management System, Network Infrastructure Organization, Equipment Rooms, Cable and Asset Management System (CMS), Tenant and Local Exchange Carrier Infrastructure, Public Address System Infrastructure (PASI), Visual Information Display System (VIDS), Visual Paging System, Synchronized Clock System, Telecommunications Premise Distribution System, Common Use Terminal Equipment (CUTE), Cable Television (CATV) System, Card Reader / Security Doors and Related Alarm Systems, Building Management System, Closed Circuit Television (CCTV) &

Recommendation of Contract Measures
General Special Systems Engineering Services
ISD Project No. E16-MDAD-08
Page 2 of 2

Video Surveillance Systems, Voice Radio Communications Systems, Other Public Safety and Security Systems.

The selected Firm should have a thorough knowledge of all relevant building codes and Airport Design Guidelines. It is preferred that the selected firm have a licensed Professional Engineer with a minimum 10 years of special systems consulting services experience, and senior staff that hold the following special systems industry certifications: Registered Communications Distribution Designer (RCDD) or Physical Security Professional (PSP).

The Prime and its Subconsultants shall be obligated to identify and disclose to the County any organizational conflict of interest, or the potential for the same to occur, immediately upon its discovery. The disclosure shall be in writing, addressed to the Contract Manager identified in the contract specifications. The disclosure shall identify the organizational conflict of interest with sufficient detail for the County's analysis and shall propose a method to address the same. Such disclosure shall also be reported to the Office of the Inspector General (OIG) and the Commission on Ethics and Public Trust (COE). The consultant's failure to identify an organizational conflict of interest, or to disclose the same to the County in the manner set forth herein, may be considered a material breach of the contract. Each solicitation shall also require respondents to address the methodology proposed to identify and address any potential organizational conflict of interest, particularly in those instances where the proposer offers to use the same sub-consultants which may be primes or sub-consultants in other Terminal Optimization Program (TOP) contracts where such use is not specifically prohibited by the advance restrictions set forth in this policy. The County will analyze and address potential organizational conflicts of interest on a case-by-case basis, because such conflicts arise in various, and often unique, factual settings. The potential for organizational conflicts of interest, and the methodology offered to prevent organizational conflicts of interest, may be evaluated by the County as a criterion for selection as set forth in the applicable competitive solicitation documents from potential respondents.

Please advise if additional information is needed to complete this process.

Attachments

cc: L. Johnson, SBD
E. Etienne, SBD
P. Hernandez, MDAD
M. Clark-Vincent, MDAD
A. Cordova-Jimenez, MDAD
C. Corrales, MDAD
Project File

MDAD's CONTRACT MEASURES AND ANALYSIS WORKSHEET

To: Gary Hartfield, Division Director
Internal Services Department, Small Business Development

From: Milton L. Collins, Associate Director
Miami-Dade Aviation Department
Minority Affairs Division



PROJECT/CONTRACT TITLE: General Special Systems
Engineering Services

PROJECT/CONTRACT NUMBER: ISD Project No. E16-MDAD-08

DEPARTMENT: Miami Dade Aviation Department

ESTIMATED PROJECT COST: \$4,000,000.00/\$2,000,000.00 per PSA

FUNDING SOURCE: Aviation Revenue Fund, Reserve
Maintenance Funds, Aviation Bond Funds

DESCRIPTION OF PROJECT/BID:

The project involves renovations and improvements of airport special systems, low voltage data, communication and security systems Terminal-wide and miscellaneous code and system related Terminal-wide improvements. Prime consultant must have five (5) years of experience designing a combination of terminal cameras, alarms, and/or PA systems at large hub U.S. airports.

CONTRACT MEASURES RECOMMENDATION:

Measures: 5% SBE-A & E Goal

REASONS FOR RECOMMENDATION:

Analysis of the factors contained in Implementing Order #3-32 for SBE/ Architectural & Engineering Program is appropriate for this contract.

MDAD Recommendation:
Small Business Enterprise (SBE) -
Architectural and Engineering (A&E) Goal

Project Number: **E16-MDAD-08**

Project Title: **General Special Systems**
Engineering Services

Recommended
SBE-A&E Goal: (5%)

SBE-A&E Goal
Breakdown: **12.00 - General Mechanical Engineering (2.5%)**
13.00 - General Electrical Engineering (2.5%)

- (*) **No. of PSA's:** **Two (2)**
- (*) **PSA Base Estimate:** **\$4,000,000.00 / \$2,000,000.00 per PSA**
- (*) **SBE-A&E Goal:** **A 5% SBE-A&E goal is recommended for this project.**



IF "NO" IS CHECKED, PLEASE EXPLAIN:

Some of the projects may be funded from Reserve Maintenance funds which are not included in the CPFS.

		APPROVAL	PRINT NAME	DATE
MDAD Project Manager			TBD	
MDAD Division Chief			Aida Bao-Garciga	7-11-16
MDAD Division Director				
MDAD Assistant Director			Pedro F. Hernandez	7/11/16

CAT. NO.	SERVICE DESCRIPTION *	PRIME CONSULTANT	SUB-CONSULTANT	PERCENT OF TOTAL CONSULTANT FEE
1.00	TRANSPORTATION PLANNING			
	1.01 URBAN AREA AND REGIONAL TRANSPORTATION PLANNING			
	1.02 MASS AND RAPID TRANSIT PLANNING			
	1.03 AVIATION SYSTEMS AND AIRPORT MASTER PLANNING			
	1.04 PORT AND WATERWAY SYSTEMS PLANNING			
2.00	MASS TRANSIT SYSTEMS			
	2.01 MASS TRANSIT PROGRAM (SYSTEMS) MANAGEMENT			
	2.02 MASS TRANSIT FEASIBILITY & TECHNICAL STUDIES			
	2.03 MASS TRANSIT VEHICLE & PROPULSION STUDIES			
	2.04 MASS TRANSIT CONTROLS, COMMUNICATIONS, & INFORMATION SYSTEMS			
	2.05 GENERAL QUALITY ENGINEERING			
	2.06 MASS TRANSIT SAFETY CERTIFICATION FOR SYSTEM ELEMENTS			
3.00	HIGHWAY SYSTEMS			
	3.01 SITE DEVELOPMENT AND PARKING LOT DESIGN			
	3.02 HIGHWAY DESIGN			
	3.02A TUNNEL DESIGN			



	3.03 BRIDGE DESIGN			
	3.04 TRAFFIC ENGINEERING STUDIES			
	3.05 TRAFFIC COUNTS			
	3.06 TRAFFIC CALMING			
	3.07 TRAFFIC SIGNAL TIMING			
	3.08 INTELLIGENT TRANSPORTATION SYSTEMS ANALYSIS, DESIGN, AND IMPLEMENTATION			
	3.09 SIGNING, PAVEMENT MARKING, AND CHANNELIZATION			
	3.10 LIGHTING			
	3.11 SIGNALIZATION			
	3.12 UNDERWATER ENGINEERING INSPECTION			
4.00	AVIATION SYSTEMS			
	4.01 ENGINEERING DESIGN	75		75
	4.02 ARCHITECTURAL DESIGN	15		15
5.00	PORT AND WATERWAY SYSTEMS			
	5.01 ENGINEERING DESIGN			
	5.02 ARCHITECTURAL DESIGN			
	5.03 CRUISE TERMINAL DESIGN			
	5.04 CRUISE TERMINAL EQUIPMENT DESIGN			
	5.05 CARGO TERMINAL DESIGN			
	5.06 CARGO TERMINAL EQUIPMENT DESIGN			
	5.07 SECURITY SYSTEMS			
	5.08 MARINE ENGINEERING DESIGN			
	5.09 ENVIRONMENTAL DESIGN			
	5.10 TRANSPORTATION SYSTEMS DESIGN			
	5.11 CONSTRUCTION MANAGEMENT			
6.00	WATER AND SANITARY SEWER SYSTEMS			
	6.01 WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION SYSTEMS			
	6.02 MAJOR WATER AND SANITARY SEWAGE PUMPING FACILITIES			
	6.03 WATER AND SANITARY SEWAGE TREATMENT PLANTS			
7.00	SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS			
8.00	TELECOMMUNICATION SYSTEMS			



9.00	SOILS, FOUNDATIONS AND MATERIALS TESTING			
	9.01 DRILLING, SUBSURFACE INVESTIGATION AND SEISMOGRAPHIC SERVICES			
	9.02 GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES			
	9.03 CONCRETE AND ASPHALT TESTING SERVICES			
	9.04 NON-DESTRUCTIVE TESTING AND INSPECTIONS			
	9.05 ROOF TESTING AND CONSULTING			
	9.06 MATERIALS TESTING/CONSULTING/TRAINING			
	INDUSTRIAL HYGIENE			
	ASBESTOS			
	AMBIENT AIR			
	BIO-HAZARDOUS			
	OSHA			
10.00	ENVIRONMENTAL ENGINEERING			
	10.01 STORMWATER DRAINAGE DESIGN ENGINEERING SERVICES			
	10.02 GEOLOGY SERVICES			
	10.03 BIOLOGY SERVICES			
	10.04 CHEMISTRY SERVICES			
	10.05 CONTAMINATION ASSESSMENT AND MONITORING			
	10.06 REMEDIAL ACTION PLAN DESIGN			
	10.07 REMEDIAL ACTION PLAN IMPLEMENTATION/OPERATION/MAINTENANCE			
	10.08 PATHOGEN AND CONTAINMENT RISK ANALYSIS			
	10.09 WELLFIELD, GROUNDWATER, AND SURFACE WATER PROTECTION AND MANAGEMENT			
	10.10 COASTAL PROCESSES AND OCEAN ENGINEERING			
11.00	GENERAL STRUCTURAL ENGINEERING			
12.00	GENERAL MECHANICAL ENGINEERING	2.5	2.5	5
13.00	GENERAL ELECTRICAL ENGINEERING	2.5	2.5	5
14.00	ARCHITECTURE			
15.00	SURVEYING AND MAPPING			
	15.01 LAND SURVEYING			
	15.02 AERIAL PHOTOGRAMMETRY			
	15.03 UNDERGROUND UTILITY LOCATION			



	15.04 HYDROGRAPHIC SURVEYS			
16.00	GENERAL CIVIL ENGINEERING			
17.00	ENGINEERING CONSTRUCTION MANAGEMENT			
18.00	ARCHITECTURAL CONSTRUCTION MANAGEMENT			
19.00	VALUE ANALYSIS AND LIFE-CYCLE COSTING			
	19.02 MASS TRANSIT SYSTEMS			
	19.03 HIGHWAY SYSTEMS			
	19.04 AVIATION SYSTEMS			
	19.05 PORT AND WATERWAY SYSTEMS			
	19.06 WATER AND SANITARY SYSTEMS			
	19.07 SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS			
	19.08 TELECOMMUNICATION SYSTEMS			
	19.09 SOILS, FOUNDATIONS, AND MATERIALS TESTING			
	19.10 ENVIRONMENTAL ENGINEERING			
	19.11 GENERAL STRUCTURAL ENGINEERING			
	19.12 GENERAL MECHANICAL ENGINEERING			
	19.13 GENERAL ELECTRICAL ENGINEERING			
	19.14 ARCHITECTURE			
	19.15 GENERAL CIVIL ENGINEERING			
	19.20 LANDSCAPE ARCHITECTURE			
20.00	LANDSCAPE ARCHITECTURE			
21.00	LAND USE PLANNING			
22.00	ADA TITLE II CONSULTANT			
23.00	AVIATION ACOUSTICAL AND LAND USE COMPATIBILITY PLANNING			
24.00	BUILDING PRODUCT EVALUATION SERVICES			
	24.01 PANEL WALLS			
	24.02 EXTERIOR DOORS			
	24.03 ROOFING PRODUCTS			
	24.04 SKYLIGHTS			
	24.05 WINDOWS			
	24.06 SHUTTERS			



MIAMI-DADE COUNTY, FLORIDA

MDAD CONTRACTS ADMINISTRATION

	24.07 STRUCTURAL COMPONENTS			
25.00	AVIATION PLANNING CONSULTANT SERVICES			
26.00	CLAIMS ANALYSIS SERVICES			

*Detailed descriptions of certification categories may be obtained from MDAD Contracts Administration.