

## **EXHIBIT "A"**

### **Scope of Services**

The bridge master plan shall consist of individual structural evaluation reports for the City's 52 bridges. These reports shall be consistent with the applicable professional standard of care to identify and quantify the deficiencies of the bridge and recommend whether the bridge structure requires repair, rehabilitation or replacement. Report assessment and recommendations shall be in compliance with the imposed guidelines set in the latest edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction. The final report shall also include construction cost estimates for:

- a) Repair
- b) Rehabilitation
- c) Replacement as applicable

All reports shall bear the seal and signature of a Professional Engineer, licensed in the state of Florida. This request for qualifications (RFQ) is subject to the requirements of the Consultants' Competitive Negotiations Act (CCNA) as required by Florida Statutes 287.055.

### **General Information:**

This master plan will enable the City of Fort Lauderdale to assess, fund and schedule the proper rehabilitation or replacement proposed plan for City bridges, and also assess the status of the channel under each bridge for possible scouring.

### **Scope of Services**

For all following items, assessment and inspection personnel shall consist of:

- (1) Commercial rated divers with dive tender
- (1) Rescue diver/supervisor/communication.
- (1) Florida Licensed Engineer specialized in bridge.
- (1) CADD Technician

All associated equipment and procedures shall meet or exceed Army corps of

Engineers, OSHA standards and shall comply with the Association of Diving Contractors.

Communication equipment shall enable supervisor and City inspector/engineer to see underwater inspection and communicate with the diver during inspection at any time. On completion of inspection, contractor shall provide detailed reports including and not limited to video and written reports.

CONSULTANT will be required to execute the following work scopes:

**Item #1: DIVING INSPECTION WITHOUT BOAT**

Furnish all labor, material, and fully equipped diver (no boat) to perform diving inspection at all bridge locations. Mobilization and demobilization from the job site shall be included. Inspection time shall start after diving equipment is operational landside and diver enters the water as agreed by the City inspector. Inspection time shall end as soon as the diver exits the water as agreed by the City inspector. Under this scope of work, CONSULTANT shall inspect condition of existing scouring under bridge bulkheads, substructure concrete piles.

**Item #2: DIVING INSPECTION WITH BOAT**

Furnish all labor, material, and fully equipped diver including boat or barge (including docking fees, gas fees and operator with a valid license) to perform inspection at all bridge locations. Mobilization and demobilization from the job site are included. Inspection time shall start after diving equipment is operational and diver enters the water as agreed by the City inspector. Inspection time shall end as soon as the diver exits the water as agreed by the City inspector. Under this scope of work, CONSULTANT shall inspect condition of existing scouring under bridge bulkheads, substructure concrete piles.

**Item #3: VISUAL INSPECTION AND RECOMMENDATION**

CONSULTANT shall inspect all components of the bridges from superstructure to substructure including and not limited to both approach slabs.

CONSULTANT shall indicate all deficiencies encountered during inspection of the bridge components.

Deficiencies include cracks, concrete spall and exposed concrete reinforcement

Cracks

Cracks shall measured in terms of width length and if possible depth.

Location of

Cracks shall be shown on a schematic sketch for both superstructure and substructure.

Concrete spalls

All concrete spalls shall be measured in terms of volume. Location of concrete spalls shall be shown on a schematic sketch for both superstructure and substructure.

Exposed reinforcement

CONSULTANT shall measure the length of exposed reinforcement. Location of all exposed reinforcement shall be shown on a schematic sketch. CONSULTANT shall also provide the amount of section loss due to corrosion for all exposed reinforcement.

**Item #4: REPORTS**

CONSULTANT shall submit a detailed report of all structural deficiencies as indicated in items #1, #2 or #3 of the scope of work as requested/required. Report for each structure shall include and not be limited to: locations and measurements of all deficiencies, pictures, videos, as well as recommendation for repair, rehabilitation or complete replacement of structure including associated costs. Report shall be signed and sealed by a registered professional engineer in the state of Florida. Three (3) copies of the reports shall be provided to the City of Fort Lauderdale.

**SILENCE OF SPECIFICATIONS:**

The apparent silence of the foregoing specifications as to any detail or omission for it as a detailed description, concerning any specific shall be regarded as meaning that only the best commercial practices are to prevail and that only materials and workmanship of first quality are to be used. All interpretations of these specifications shall be made upon the basis of this statement.