

#1410238846 APPENDIX A TECHNICAL SPECIFICATIONS

General Engineering Services Fiber Optic Route Design and Engineering in the Transmission and Distribution

1. SCOPE OF WORK

The purpose of this solicitation is for JEA to solicit Proposals from companies for General Engineering Services – Fiber Optic Route Design and Engineering- Transmission and Distribution. (the “Work” or “Services”).

The scope of continuing engineering services for this contract includes JEA seeking services of experienced design/engineering firms that possess technical expertise in the operations, maintenance, and new construction of small to large fiber builds for municipal electric utilities. The work will consist primarily of Capital and O&M projects or tasks that are planned or developed throughout the course of a three (3) year contract period. It is expected that the Consultant will have the expertise and resources to provide all of these services, and sufficient staff must be available in order to respond within forty-eight (48) hours in an emergency and within three (3) to four (4) days for routine requests.

JEA intends to award up to one (1) continuing service contracts for the work. This will be a three (3) year contract with one (1) option to renew for an additional one (1) year. The work is generally described as performing engineering and design services as requested from time to time by JEA for which the estimated construction cost of each individual project does not exceed \$2,000,000.00 or the professional service fees for an individual study do not exceed \$200,000.00 as set forth in Florida Statutes Section 287.055, known as the Consultants' Competitive Negotiation Act (CCNA).

JEA FIBER OPTIC CABLE Standards— Latest version

https://www.jea.com/Engineering_and_Construction/Electric_Reference_Materials/

Underground Distribution Construction Standards—February 2005 Edition or latest version https://www.jea.com/Engineering_and_Construction/Electric_Reference_Materials/Underground_Electric_Distribution_Standards/

Overhead Distribution Construction Standards – Latest version

https://www.jea.com/Engineering_and_Construction/Electric_Reference_Materials/Overhead_Electric_Distribution_Standards/

The work to be performed under this Agreement shall consist primarily of, but not necessarily be limited to, the following work scopes:

1. Analyze, design and engineer fiber routes proposed by JEA

- 1.2 JEA criteria for fiber builds is build on Transmission first, distribution second and underground when needed.
2. Provide FDOT, RR and city permitting required to construct fiber optic communications cable. Permit packages issued to JEA for processing.
3. The work will include 30%, 60%, 90%, & 100% package submittals and construction support as required.
- 3.2
4. Splicing diagrams will be provided by JEA and shall be included in the Company design packages, with locations noted on the drawings.
5. Provide Construction drawing details in CAD and PDF format per JEA specifications.
6. Company will produce As-Builds from the construction contractor redlines for final document.
7. Attend design meetings every two weeks or as requested for status updates with JEA's Project Management.
8. Existing underground facilities identified on the drawings when new underground construction is designed. This need is to demonstrate the proposed route is buildable per design and to provide info to construction contractor. Depths and exact location is not required.
9. Underground routes will include a verifiable running line. If a running line shows 10ft off Right of way then there needs to be a marking in the right of way that the contractor can reference.
10. A company resource will be responsible on site to pull existing transmission or distribution drawings of proposed routes. If no maps are available then the engineering firm will create drawings for the fiber design.
11. Provide materials list detailing all materials required to construct project.
12. Assist with emergency work where fast-track engineering activities are required such as: FDOT road move projects and restoration efforts.