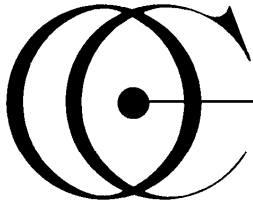


Request for Bid
for
Fiber Optic Cabling Route
at
Plamann Park

Due Date: December 4, 2013

Mandatory Site Visit – November 20, 2013 (see Section 2.0 for details)



OUTAGAMIE COUNTY

410 S. WALNUT ST. APPLETON, WISCONSIN 54911
ADMINISTRATION BUILDING

FINANCIAL SERVICES

PHONE (920) 832-1680

LEGAL NOTICE

Notice is hereby given that Outagamie County, Wisconsin is seeking Sealed Bids for a fiber optic cabling route at Plamann Park. There will be one mandatory site visit on November 20th at 8:30 a.m. (see Bid Section 2.0 for details)

Bids will be received until 2:00 p.m. CT, December 4, 2013 in the Purchasing Department. All bids received will be documented and publicly read at that time. Bids received or tendered after that time and date will not be accepted. Actual receipt is required by said time; deposit in the mail is insufficient. Facsimile or email copies will not be accepted.

All bids must be contained in a sealed envelope which is Bid-Fiber Optic Cabling. Said instructions and specifications are posted online at www.outagamie.org located under Bids & Proposals.

Award of the contract to the successful bidder shall be based upon the bid determined most advantageous to the county after evaluating the specific criteria requested. Bidders must remain firm once submitted and may not be withdrawn for a period of sixty days, subject to provisions for correction of errors in the bid as contained in §66.0901, Wisconsin Statutes, Outagamie County Ordinance, and Administrative Rules.

Nicole Schoultz
Purchasing Coordinator

1.0 **Introduction and Background**

Outagamie County's MIS Department is seeking a Contractor to install an outdoor fiber optic route at Plamann Park (1375 E Broadway Dr, Appleton).

2.0 **Mandatory Pre-Bid Site Visit**

There will be on mandatory pre-bid/site survey meeting on Wednesday November 20th at 8:30 a.m. If the vendor does not attend the conference, then the vendor will not be allowed to respond to the bid. Because of space allocations, only two representatives from each vendor will be allowed to attend. The contractors will be required to sign in to verify attendance. Subcontractors will not be allowed to represent the bidding contractor. An employee of the firm planning to bid must attend. The second person can be a subcontractor. The location of the meeting will be the Plamann Parks Department Main Office (see map).

3.0 **Project Description**

See attached map for a rough layout of the requested route.

3.1 **General**

- 3.1.1 Drawings and general provisions of Contract, including General and Supplementary Conditions, apply to work of this section.
- 3.1.2 The successful bidder (contractor) will provide all labor, materials, tools, equipment and incidentals required to make ready for use a complete and properly operating Premise Distribution System (PDS) to serve as a vehicle for transport of voice and data signals.
- 3.1.3 The work provided under this contract document shall include all labor, materials, permits, inspections and re-inspection fees, tools, equipment, transportation, insurance, temporary protection, temporary lighting, supervision and incidental items essential for a properly installed and operating PDS, even though not specifically mentioned or indicated but which are usually provided or are essential for a properly operating PDS.
- 3.1.4 All drawings are diagrammatic and are not intended to show exact locations of handholes, conduit runs, junction boxes, riser details, MDF/IDF to the station locations, etc. The exact locations are to be provided to and accepted by the owner prior to construction starting. Obtain in the field all information relevant to the installation of the PDS. In case of interference(s) with other trades, proceed as directed by the Project Manager to provide a completed PDS in an acceptable manner.
- 3.1.5 The contractor shall check all site drawings and existing site conditions before bidding and advise the Project Manager of any discrepancies prior to the bid.
- 3.1.6 The word "PROVIDE" where used in this contract document shall mean: Furnish, install, mount, connect, protect, test, complete and make ready for operation. The word "INSTALL" shall mean: The same as provide with the exception of furnish.

- 3.1.7 This contract document describes the very minimum requirements that must be met for an acceptable installation.
 - 3.1.8 The contractor will give all notices, file all plans, pay all fees, and obtain all permits and approvals from the authorities having jurisdiction. Include all fees in the bid package.
 - 3.1.9 Notify the Telecommunication Coordinator of any discrepancies found during construction of the project and do not proceed with that portion of the project, until written statement is received from the Project Manager providing clear directions. If a conflict exists between the contract documents and any applicable code or standard, the most stringent requirement shall be included for this project. The Project Manager shall make the decision regarding questionable areas of conflict.
 - 3.1.10 Coordinate final equipment locations with the Project Manager. Drawings will be submitted with the bid proposal showing the layout of the material to be installed. Provide coordination with the Project Manager during construction as required for installation in a neat workmanlike manner.
- 3.2 Scope of Work
 - 3.2.1 This project shall be weather dependent. It is Outagamie County's desire to complete installation in spring of 2014. The work shall be completed by June 6, 2014.
 - 3.2.2 Contractor shall provide the fiber optic cable routes between specified sites. The contractor shall secure all the materials necessary to provide cable routes as stated in this RFP. This project will involve underground installations. EIA/TIA standards are to be maintained at all times.
- 3.3 Routes
 - 3.3.1 The routes are to be approved by the Outagamie County Project Manager. The Outagamie County Project Manager must give final route approval. The entire fiber optic cable network will have the proper slack built-in to the design for restoration and splicing. After consulting with Diggers Hotline, routes may have to be modified slightly. All routes shall be marked with fiber cable warning markers identifying AAMFON as the owner along with 920-993-7062 as the number to call.
 - 3.3.2 Notify the Outagamie County Project Manager of all dates & times when underground and fiber termination work is occurring.
- 3.4 Route A
 - 3.4.1 The awarded bidder shall review the route and specify all handhole locations with Outagamie County's Project Manager before beginning installation.
 - 3.4.2 Provide a 12 strand singlemode fiber optic cable from the A1 point handhole (figure 1) to the Plamann Park Office A2 Telecommunication Closet location (figure 1).

- 3.4.3 A singlemode fiber optic cable splice tray exists in a handhole at A1. At A1 fusion splice the first two strands (blue, orange) of the newly run fiber optic cable to two existing un-terminated strands which should be strands 9 & 10. You will need to open up an existing splice case in the handhole to terminate to strands 9 & 10. All splicing and restoration coils will be placed in handholes.
- 3.4.4 At the Plamann Park Office building, one 2" Rigid conduit shall be run up the south exterior wall. Install a pull box on both the outside and inside of the building penetration.
- 3.4.5 At the Plamann Park Office building terminate all 12 fiber optic cable strands. Use Panduit's FRME1U Fiber Enclosure. Use two Panduit FAP3WBUDSCZ single mode SC fiber adapter panels. Terminate the Fiber with singlemode SC connectors using fusion splicing with Panduit Pigtailed (F9B3-NM1Y) and the proper Panduit splice trays (FOSMF – this splice tray will hold up to 24 fusion splices).

3.5 Fiber Optic Cable

- 3.5.1 All fiber optic cable shall be OS1 singlemode inside/ outside plant rated, all dielectric, rated for both aerial and underground installation. This must be installed in a protective duct. Use Panduit fiber optic cable part #FSCR912Y (12 strand), or the General Cable equal.
- 3.5.2 Follow proper bending radius for all cabling installations. Install properly sized pull boxes as needed.

3.6 Reference Standards

- 3.6.1 UL Underwriter's Laboratories, Inc.
- 3.6.2 NEC National Electric Code
- 3.6.3 NFPA National Fire Protection Association
- 3.6.4 NEMA National Electric Manufacturers Association
- 3.6.5 ASTM American Society for Testing and Materials
- 3.6.6 IEEE Institute of Electrical and Electronic Engineers
- 3.6.7 ANSI American National Standards Institute, Inc.
- 3.6.8 BICSI Building Industry Consultants Service International
- 3.6.9 EIA/TIA Electronic / Telecommunications Industry Association
- 3.6.10 All Federal, State, County and City laws, codes and standards apply
- 3.6.11 All work shall be performed under the latest edition of the above standards, available at the time of bidding. All references to a PDS within the above standards shall be in effect as having been written within this contract document.

3.7 Splicing

- 3.7.1 Splicing of the single mode fiber optic cable main segment shall be kept to a minimum.

3.8 Underground Installation

3.8.1 Trenching/Boring

3.8.1.1 All underground installation is to be trenched, bored or plowed.

Any paved areas are to be bored. Existing services must be exposed to prevent the possibility of accidental damage. Exposed areas shall be restored with asphalt or concrete as applicable. All locates from Diggers Hotline shall be coordinated by vendor.

3.9 Restoration

3.9.1 All areas shall be raked and seeded

3.10 Innerduct

3.10.1 All underground fiber optic cable shall be placed inside 2" innerduct.

3.11 Handholes

3.11.1 All splicing and restoration coils will be placed in handholes. Handholes shall meet the EIA/TIA specifications for placement and size. All handhole locations shall be marked with fiber optic cable warning markers. Handholes are to be placed at 90 degree turns or a maximum of 250' apart. A handhole shall be placed 1 to 3 ft from the exterior wall of all building entrances, due to the 90 degree turn that the conduit will make to enter the building. All handholes shall be enclosed consisting of a base at the bottom. Handholes shall have a minimum 24" x 36" opening.

3.12 Tracers

3.1.12 Provide #12 ground wire for tracers. Install this wire on the outside of all underground innerduct and conduit installations.

3.13 Depth

3.13.1 All underground cabling shall be a minimum of 36" underground

3.14 Inside Building

3.14.1 The vendor shall provide Outagamie County with the entry point into each building.

3.15 Testing

3.15.1 Pre-Installation

3.15.1.1 All fiber optic strands shall be pre-tested with an Optical Time Domain Reflectometer to verify integrity. Provide test results in electronic format (PDF) to the Outagamie County project manager.

3.15.2 Final Testing

- 3.15.2.1 Fiber optic cable shall be tested for insertion loss by following the EIA/TIA Annex H Optical Fiber Link Performance Testing specification.
- 3.15.2.2 The first two spliced strands (blue & orange) shall be tested with an OTDR. The strands shall be tested from the Plamann Park Office Telecommunication Closet to the Morgan building Telecommunication Closet, and from the Plamann Park Telecommunication Closet to the Outagamie County Data Center.
- 3.15.2.3 Test 6 singlemode strands from the Plamann Center to Appleton North High School. These strands run through the existing splice box that will be opened up. If testing reveals that the strands have been damaged in the splice box, repair the strands and retest.

3.16 As Built Documentation

- 3.16.1 Vendor shall provide Outagamie County's Project Manager with as built drawings showing accurate cable paths provided in electronic format. Drawings shall be created in an electronic format for ArcGIS version 10.2. The underground installations shall have specific measurements needed for Diggers Hotline to accurately plot the underground fiber optic cable.
- 3.16.2 Drawings shall list footage between handholes.

3.17 Warranty

- 3.17.1 The Vendor shall provide a 15-year product warranty to Outagamie County. Warranty shall state that the installed cable system will be free of defects and will meet or exceed the requirements of the applicable EIA/TIA standards for a period of 15 years. Warranty repairs shall cover all material and labor. If The Vendor procures equipment or materials under the Contract, The Vendor shall obtain for the benefit of The Customer equipment and materials warranties against defects in materials and workmanship to the extent such warranties are reasonably obtainable. The Vendor shall pass along to The Customer any additional warranties offered by the manufacturers, at no additional costs to The Customer, should said warranties extend beyond the period specified herein. This warranty shall in no manner cover equipment that has been damaged or rendered unserviceable due to negligence, misuse, acts of vandalism, or tampering by The Customer or anyone other than employees or agents of The Vendor. The Vendor's obligation under its warranty is limited to the cost of repair of the warranted item or replacement thereof, at The Vendor's option. Insurance covering said equipment from damage or loss is to be borne by The Vendor until full acceptance of equipment and services.

4.0 Insurance & Indemnification

The awarded Contractor must comply with the limits as set forth in Attachment A.

5.0 References

Include a minimum of three and maximum of five references with your bid of similar size projects completed within the last five years. Include the company name, location, contact name and phone number.

6.0 Contacts

Technical Specifications / Site Information

Tim Tanglin

Telecommunications Coordinator, Outagamie County MIS Department

(920)832-1530

Tim.Tanglin@Outagamie.org

Bidding & Purchasing Procedures & Information

Nicole Schoultz

Outagamie County Purchasing Coordinator

(920) 832-6083

Nicole.Schoultz@Outagamie.org

7.0 Clarification and/or Revisions to the Specifications and Requirements

Bidder must examine the documents carefully and before submitting a Bid, may request from the County's contact person(s) additional information or clarification. A Bidder's failure to request additional information or clarification shall preclude the Bidder from subsequently claiming any ambiguity, inconsistency, or error.

The County will issue responses to inquiries and any other corrections or amendments it deems necessary in written addendum prior to the Bid due date. Bidders should rely only on the representations, statements or explanations that are contained in this document and any written addendum to this document. Where there appears to be a conflict between the document and any addendum issued, the last addendum issued will prevail.

It is the Bidder's responsibility to assure receipt of all addenda, which will be posted on the County's website at www.outagamie.org under Bids & Proposals. Upon posting, such addenda shall become part of the document and binding on Bidder(s).

8.0 Restrictions

The contractor cannot block any service roads and entrances to the facility without consent from authorized personnel. This also applies to shutdown of any utilities e.g. electrical, plumbing, sewer, telephone. Security and authorized personnel will be restricted.

9.0 County Reservation

- a. This bid request does not commit Outagamie County to make an award or to pay any costs incurred in the preparation of a proposal in response to this bid.
- b. The bid will become part of Outagamie County's files without any obligation on Outagamie County's part.
- c. The bid shall not offer any gratuities, favors, or anything of monetary value to any official or employee of Outagamie County for any purpose.
- d. The vendor shall report to Outagamie County any manufacturer product price reductions, model changes, and product substitutions. No substitutions are allowed without prior approval from Outagamie County.
- e. Outagamie County has the sole discretion and reserves the right to cancel this bid and to reject any and all bids received prior to award, to waive any or all informalities and or irregularities, or to re-advertise with either an identical or revised specification.
- f. Outagamie County reserves the right to request clarifications for any bid.

10.0 Closing Date

Sealed bids will be received up to 2:00 p.m. CT December 4, 2013 and will be publically read at that time.

Bids could be mailed or dropped off to –
Outagamie County Purchasing
Attn: Nicole Schoultz
410 S Walnut St (4th Floor)
Appleton, WI 54911

The envelope containing your bid shall be marked Bid – Fiber Optic Cabling. Any bid or unsolicited amendments received after the closing date and time will not be considered.

11.0 Facsimile or Email of Bids

Facsimile or email bids are not acceptable.

12.0 Method of Procurement

The method for this procurement is competitive sealed bid, pursuant to §66.0901 and Chapter 22 and 50 of the Outagamie County Code of Ordinances. After submission of the written bid, qualified bidders may be requested to make an oral presentation to a committee responsible for making final recommendations. The process allows for confidential negotiations and revisions with the lowest responsive/responsible contractor.

OUTAGAMIE COUNTY BID FORM
Fiber Optic Cabling

Bid Due: 2:00 p.m. CT December 4, 2013

Send or Deliver Bids To: Outagamie County Purchasing
Attn: Nicole Schoultz
410 S Walnut St
Appleton, WI 54911

LUMP-SUM BASE BID PRICE \$ _____

Include references as requested in Section 5.0

If any addendum(s) are issued note the addendum number and date beside each

Addendum _____ **Date** _____

Addendum _____ **Date** _____

Firm Name: _____

Authorized Signature: _____

Print name: _____

Title: _____

Date: _____

Address: _____

Phone/Fax: _____

E-mail: _____