



Fiber Installation Cabling Phase II

(Submission deadline is 5 p.m. CDT on September 8, 2020)

Purpose

The purpose of this request for proposal (RFP) is to invite prospective vendors to submit a proposal to supply a Fiber Optic Cabling Solution to Colby Community College in Phase II of the CCC network update. The RFP provides vendors with an overview, project timeline, scope of work and specifications required. This work will include but is not limited to, the physical installation of fiber optic pathways; schedule 40 2" minimum, fiber optic cables, cable management, cable organizer, cable trays, splicing, termination, and enclosures to support the campus network infrastructure.

Overview

Phase I of the network update included installation of four IDF's – 24 pair 48 strand single mode OS2 G.625 armored fiber in 2019. Phase II will include the continuation of installing and splicing fiber 48 strand Riser Rated Fiber Cable to deliver connectivity originating at the H.F. Davis memorial Library MDF to eight additional buildings.

Project Timeline

The following is a tentative schedule that will apply to this RFP, but may change in accordance with the organization's needs or unforeseen circumstances. Changes will be communicated by email to all invited bidders.

Issuance of RFP	August 6, 2020
Questions/Inquiries Due	August 31, 2020
RFP Closes	September 8, 2020
Complete Initial Evaluation	September 11, 2020
Final Award Notification	September 22, 2020
Project Completion Deadline	December 15, 2020

Scope of Work, Specification and Requirements

Vendor's responsibilities must include the following: To install a total of 14 IDF's in Phase II – 24 pair 48 strand single mode OS2 G.625 armored fiber or equivalent from Main Building Distribution Frames (MDF) to each IDF terminated into an OS2 single mode straight SC rack enclosure. All terminations will need test post terminals at both ends as follows:

- Living Center North (4 IDF'S)
- Living Center East (4 IDF'S)
- Embree Hall (2 IDF'S)
- Health Science Building (1 IDF)
- Thomas Hall (1 IDF)
- Agricultural and Vet-Tech (1 IDF)
- Gym (1 IDF)
- Cultural Arts Center (1 IDF)

The vendor shall be responsible for: placement of cable, attachment cable to support devices within the underground structures, pole lines, the placement of conduit, the furnishings of fiber optic splice closures and installation of termination hardware.

Functional Requirements

- This installation must carry 10GB transport traffic per pair with the capability to increase to 100GB per pair for future growth.
- Minimum fiber count per run should be 48 (24 pair)
- All fiber links should conform to industry direct burial standards and include either in or outside jacket locate wire.
- All runs should be clearly marked at terminus with labeling on both ends for individual strands with preapproval of labeling by Colby Community College.
- All links should be terminated with SC UPC straight connectors with fan-out kits.
- All links should be tested and verified for 10GB connectivity and documentation provided for outlining attenuation in all runs.
- All fiber links must support single-mode laser-based 10GbE and 40GbE industry specifications

Engagement Methodology

- All work should be performed with existing infrastructure in place and without disruption to current wire plant.
- Work may need to defer scheduling to cause minimal interruption to standard college business processes and events.
- Where necessary, additional conduit and burial may be required per cable plant map included in this document.

Quality Assurance

- Provide written definition of warranty for installation work and for manufacturer's warranty on components installed.

Budget & Estimated Pricing

All vendors must fill out the following cost breakdown for the implementation of their solution for Colby Community College's project as described in this RFP. Costs should be identified as either capital or non-capital in nature. The vendor must agree to keep these prices valid for 45 days as of September 8, 2020.

Hardware: List, describe, and record the cost of each piece of hardware that is required to optimally implement the proposed solution.

Installation: Describe any labor, equipment, supplies, or other costs associated with installing your proposed solution. Describe plans to coordinate and/or gather utility locates in the event that additional conduit and burial be required.

Integration: Describe any labor, equipment, supplies, or other costs associated with

Maintenance: Describe and cost out any other ongoing costs associated with the operation and maintenance of your proposed solution.

Documentation & Training: If there are fees associated with your user or technical documentation, list them here.

Warranty: Include a detail warranty

Project Management: If there are project management fees associated with your proposed software, list and describe them here. **Miscellaneous:** List and describe any other costs associated with your proposed software solution.

Exclusions

Any project exclusions or any portion of the proposal that cannot be provided must be disclosed in an area labeled exclusions.

Communication

Verbal communication shall not be effective unless formally confirmed in writing by a specified procurement official in charge of managing this RFP process. In no case shall verbal communication govern over written communication.

Vendors' Inquiries. Applicable terms and conditions herein shall govern communications and inquiries between Colby Community College and vendors as they relate to this RFP. Inquiries, questions, and requests for clarification related to this RFP are to be directed electronically by submitting an e-mail to the Vice President of Business Affairs, Carolyn Kasdorf at following address:

carolyn.kasdorf@colbycc.edu

- Errors and omissions in this RFP and enhancements: Vendors shall bring to Colby Community College any discrepancies, errors, or omissions that may exist within this RFP. With respect to this RFP, vendors shall recommend to Colby Community College any enhancements that might be in the best interests of Colby Community College. These recommendations must be submitted in writing and be received prior to August 31, 2020.
- Inquiries about technical interpretations must be submitted electronically and be received prior to August 31, 2020.
- Inquiries for clarifications/information that will not require addenda may be submitted verbally to the buyer named above at any time during this process.
- Verbal and/or written presentations and pre-award negotiations under this RFP.
- Colby Community College will make a good-faith effort to provide a written response to each question or request for clarification that requires addenda within 5 business days. All questions, answers, and addenda will be shared with all recipients.
- Colby Community College will not respond to any questions or requests for clarification that require addenda, if received by Colby Community College after August 31, 2020. All pertinent RFP information including any addenda and other answers to submitted questions will be posted to our Website only. The URL for the Projects included in the vendor page, under "Active RFPs" at Colby Community College is:

<https://www.colbycc.edu/about/vendors/>

Proposal Submission

Proposals will be received to the Vice President of Business Affairs, Carolyn Kasdorf, carolyn.kasdorf@colbycc.edu, until 5:00 pm CST on September 8, 2020. Electronic submissions via email will be accepted or submission can be mailed to 1255 S Range, Colby, KS 67701 Attention: Carolyn Kasdorf.

Vendors are required to prepare and submit, at their own cost, one signed original proposal. Submission must include the Vendor's full response including all attachments, product services and specifications. Electronic submission must be PDF or Microsoft Word format.

Selection and Notification

The Board meeting will be held on Monday, September 21, 2020, to select a vendor. The selected vendor will be notified after approval has been received from the Board of Trustees.

Statement of Disclosure

The board reserves the right to reject any or all bids, to accept that bid which appears to be in the best interest of the college, to waive any informalities in any part of any bid, and to reject any or all bids received after the date and time specified. Any bid may be withdrawn prior to the scheduled time for the opening of bids. The bidder to whom the award is made may be required to enter into a written contract with the college and provide a performance or public works bond as required by law or the Board of Trustees (where applicable).

Question	Answer
What type of racks, trays, and enclosures do you want per location?	We would prefer to have 19 inch rack mountable
Is it a total of 14 or 15 IDF's to be installed? Written says 14 but when listed out the count comes to 15.	We need all 14 IDF's to be installed as per the listed count. Embree Hall only has one IDF on the second floor maintenance room.
Cable plant map -- states included in RFP but it isn't -- can we get this?	The College was unable to obtain a cable plant map before the publication of the RFP and this was to be removed from the document but did not. The statement should read: "Where necessary, additional conduit and burial may be required."
Living North and East -- are the (IDF'S) inside rackmount or outside enclosure?	<p>Living Center North will utilize the existing inside rackount located on the second floor in the maintenance closet.</p> <p>Living Center East will need exterior pedestal mount similar to what is currently deployed in Living Center North. We are moving all IDF's at that location exterior to the restrooms for more manageable maintenance. We will purchase exterior cabinets for those locations.</p>
Where is the IDF located in Hines Hall?	The IDF is located on the East wall ground floor maintenance closet.
Will CCC provide the desired placement depth for cable and/or conduit?	We do not have a true desired depth but a standard 30" would be a sufficient depth.
Will CCC be supplying the patch panels for the MDFs or do you want those quoted?	We would request the 19 inch SC UPC fiber patch panels to be quoted from the vendor as part of the termination.
Will CCC be able to clear enough room in the conduit coming from the tunnel into the Health & Science bldg?	We will remove the existing rj11 telco cables from the conduit to allow for the pathway.
Does CCC really want all of the costs associated with the project broken out and itemized?	As best as possible in order for records and to review general materials.
If the campus closes due to Covid-19 or for any other reason, will S&T be able to access the campus and facilities in order to complete the project?	Yes, the campus would be accessible for construction but might require more communication and scheduling.
If the campus closes, will the project deadline still be December 15, 2020, or will it be placed on hold until the campus reopens?	The deadline should not be affected by campus closure.
Is there one or two IDF's in Embree Hall?	Embree has one IDF.

Question	Answer
Can all of the IDF's be fed with a 12 count fiber?	<p>We would prefer the following minimal layout:</p> <ul style="list-style-type: none"> Living Center North (1 IDF'S) 24 count with testing of existing fiber that feeds other IDF's to see if it supports the new Ruckus 10G optics Living Center East (1 IDF'S) 24 count with testing of existing fiber that feeds other IDF's to see if it supports the new Ruckus 10G optics Embree Hall (1 IDF) 24 count with testing of existing fiber that feeds other IDF's to see if it supports the new Ruckus 10G optics Health Science Building (1 IDF) 24 count Thomas Hall (1 IDF) 24 count Agricultural and Vet-Tech (1 IDF) 24 count Gym (1 IDF) 24 count Cultural Arts Center (1 IDF) 24 count
Can S&T place a 12 count fiber to each of the structures listed in the RFP instead of a 48 count fiber with a 50% fill capacity (6 each)? We will feed the six structures on the north part of the build with a 48 count cable using a splice kit placed in a flush mount handhole. We will feed the 5 structures on the south part of the build with a 48 count fiber and kit and flush mount handhole as well. We will feed Thomas Hall, Health & Science, and the Gym with a 12 count fiber running through the tunnel and existing infrastructure.	With 12 count 50% fill that only allows us to have three SFP's working and our minimal configuration would be four SFP's. This would not allow for future growth and flexibility over the next 25 years with existing LAN SFP+. We would want to utilize 12 count 100% fill that would allow us 6 separate physical networks across the LAN from any location.
Can we use 1.25" interduct where applicable or does it all need to be 2" throughout the build?	We don't have a preference between 2" or 1.25" interduct