

ATTACHMENT XI-F

ATTACHMENT XI-F: Internal Fiber

Recommended Action: Move to approve the request for Internal Fiber upgrades from Code Red Security for \$7,380

Recommended Action: Approve as presented.

We are requesting approval for internal fiber from Code Red Security. The project will upgrade all internal uplinks (intra-building) to 10 GB fiber. It will also replace aging fiber and help to future-proof the district.

Benefits to district: Increase data transmission capacity between internal switches. Standardize all uplinks on same physical medium. Help to future-proof the district.

Current uplinks are 1 GB fiber or 1 GB copper and was designed before 1:1. (Working fine so far, however.) This would upgrade all internal links to 10 GB and fiber, which will standardize the experience for the end user and help to future proof the district. More and more teaching tools are moving online.

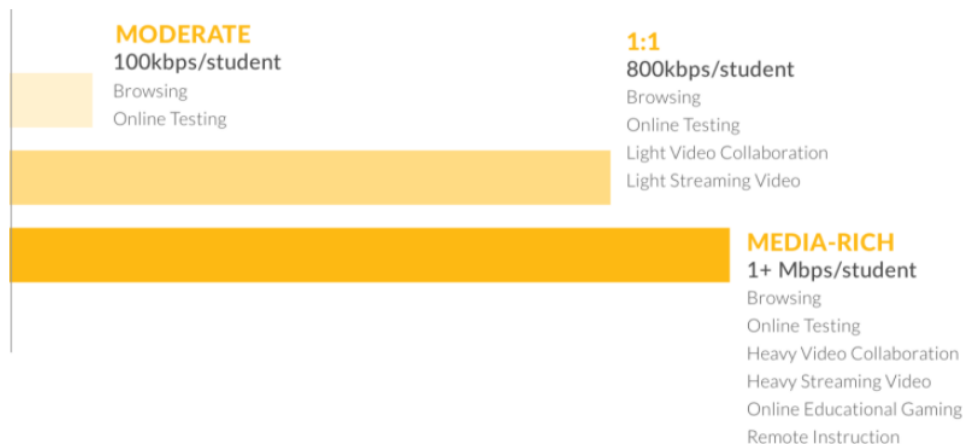
Price: \$24,600

Our Price with E-Rate: \$7,380

FCC Guidelines Student Bandwidth Goals

<https://www.educationsuperhighway.org/upgrade/types-of-fiber-services/k-12-bandwidth-goals/>

Based on the FCC goals and common practice in the field, we see the following bandwidth profiles based on technology use.



FCC Bandwidth Goals

BROADBAND ACCESS FOR TEACHING, LEARNING AND SCHOOL OPERATIONS	2014-2015 SCHOOL YEAR TARGET	2020-2021 SCHOOL YEAR TARGET
An external Internet connection to the Internet Service Provider (ISP)	At least 100 kbps per student	At least 1 Mbps per student
Internal Wide Area Network (WAN) connections from the district to each school and among schools within the district	At least 1 Mbps student	At least 10 Mbps per student

Media Rich 1:1 goal 2020-2021. Most educational software is becoming more and more media rich.

1600

Megabyte per second

=

1.6

Gigabyte per second

Formula divide the data transfer rate value by 1000

Based on 1600 students

NORTH BOONE 2021 ERATE USAC FCC E-RATE CATEGORY 2

BID/RFP RESPONSE



Prepared for:



North Boone School District 200
Poplar Grove, IL

Prepared by:

John Mesich, Senior Project Manager



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USAC Service Provider Identification Number (SPIN): 143049878

Proposal # 2021QP-00713 Rev.A1

March 2, 2021

USAC FCC CATEGORY 2 E-RATE NETWORK INFRASTRUCTURE & INSTALLATION – TECHNOLOGY INFRASTRUCTURE (INTERNAL CONNECTIONS)

Thank you for the opportunity for us to bid on this project for you. Please see the following pages for full information on this RFP Response.

1. Project Background and Description Overview

The goal of this project is to deliver installation of cabling associated with IT equipment into several facilities within the district, including **FIBER OPTIC CABLING**.

We have developed our response based on:

- Thorough review of building plans and documents provided by the Schools
- Internal review of photographs of the facility
- Site visits by CRS personnel
- Email and phone correspondence with the District to clarify information
- Thorough review of products available to achieve these objectives, based upon previous experience in designing, installing, and deploying similar systems.
- Review of both USAC FCC E-Rate Category 2 requirements as well as other requirements provided by the school.

2. Project Scope

Our scope of work breaks out as follows:

CAPRON ELEMENTARY SCHOOL:

- CRS will furnish and install (1) new **12-Strand OM4 Armored Fiber Runs**, including patch panels and associated LC patch panels at each termination point.

POPLAR GROVE ELEMENTARY SCHOOL:

- CRS will furnish and install (2) new **12-Strand OM4 Armored Fiber Runs**, including patch panels and associated LC patch panels at each termination point.

NORTH BOONE HIGH SCHOOL:

- CRS will furnish and install (2) new **12-Strand OM4 Armored Fiber Runs**, including patch panels and associated LC patch panels at each termination point.

NORTH BOONE MIDDLE SCHOOL:

- CRS will furnish and install (2) new **12-Strand OM4 Armored Fiber Runs**, including patch panels and associated LC patch panels at each termination point.

3. Inclusions (includes part numbers below)

- (7) new runs of **OM4 Fiber Optic Backbone Cabling**, including all termination hardware
- Ancillary conduit/wire mold, fire stop systems, J-hooks, mounting hardware, etc.
- All labor to install, configure, and test the system
- All Jack Faceplates, Patch Panels, and Cables will be labeled with Brady electronic labels
- Travel and lodging expenses, if required
- CRS will warranty the installation for a period of one (1) year
- CRS will turn over all Cable Certification Results for Copper and/or Fiber runs to the Customer

4. Specific Exclusions from Scope

The following items and/or services are specifically excluded from this project, and are not included:

- Customer will be responsible for coordinating access badges/keys for CRS personnel and subcontractors, as may be required in the course of this project, while working on-site.
- Rack space must be made available in existing District-owned racks to allow for patch panels to be installed into each rack. Rack screws shall also be provided by the District to match existing.

5. Warranty

- All work performed by CRS will carry a 1-year warranty for installation parts and labor. After this time, the Customer may elect to enter into an Annual Service Agreement with CRS, which covers troubleshooting, diagnostics, and repair labor after the 1-year period has elapsed. CRS shall be the point of contact for all warranty issues. Warranty service will be performed during normal business hours. Damage to, or failure of the system due to occurrences or events outside the control of contracting parties, including, but not limited to acts of nature, theft, fire, vandalism, water, abuse, misuse, accidents, damage, or work performed by others is not covered.
- All equipment installed within the scope of this project will carry the original manufacturer's warranty, and all relevant documentation regarding such warranties will be provided to the District by CRS as part of the final Binder delivered to the Customer upon project completion.
- Any extended warranties desired on equipment shall be the sole cost and at the discretion of Customer.

6. Assumptions

- Work is to be completed during normal business hours, M-F
- CRS may be willing to work longer days than 8 hours, if the building is available to do so.
- If awarded, CRS would like to schedule this work as early in the allowable E-Rate funding year.

7. Discounted Schedule Option

- **CRS offers a full 5% Overall Project Discount on work scheduled, performed, and completed between April 1st and May 31st. (Ensure this complies with your E-Rate filing/signing schedule).**
- If you would like to take advantage of this discount option, please fill in the corresponding line on the signature page below. Work must be scheduled for completion within this timeframe to apply. If work is rescheduled later due to customer needs, the discount will be forfeited.
- ALL CRS E-Rate work is First Contracted, First Scheduled, in that order only.
- CRS staff IS working during the COVID-19 situation.

8. Required Submission Details

Pursuant to the Bid documents, we hereby submit the following:

- USAC Service Provider Identification Number (SPIN) number for Code Red Security is **143049878**
- References of previous Code Red Security E-Rate customers available upon request/attached
- **THIS CONTRACT MAY BE CONTINGENT UPON E-RATE FUNDING AVAILABILITY (FCDN LETTER).**
- **CRS to pay Prevailing Wage (PW), if/as required, for Boone County, IL**

9. Pricing

E-Rate Eligible Items/Services:

(Note: Each Line INCLUDES Installation, Setup, Programming, & Initial Warranty):

CAPRON ELEMENTARY SCHOOL:

Qty 1	12 Strand OM4 Armored Fiber Run, LC-LC	\$2,000 EA	\$2,000
Qty 1	Fiber Installation Labor	\$1,300 EA	\$1,300
CAPRON ELEMENTARY SCHOOL (Total):			\$3,300

POPLAR GROVE ELEMENTARY SCHOOL:

Qty 2	12 Strand OM4 Armored Fiber Run, LC-LC	\$2,000 EA	\$4,000
Qty 2	Fiber Installation Labor	\$1,300 EA	\$2,600
POPLAR GROVE ELEMENTARY SCHOOL (Total):			\$6,600

NORTH BOONE HIGH SCHOOL:

Qty 2	12 Strand OM4 Armored Fiber Run, LC-LC	\$2,000 EA	\$4,000
Qty 2	Fiber Installation Labor	\$1,300 EA	\$2,600
NORTH BOONE HIGH SCHOOL (Total):			\$6,600

NORTH BOONE MIDDLE SCHOOL:

Qty 2	12 Strand OM4 Armored Fiber Run, LC-LC	\$2,000 EA	\$4,000
Qty 2	Fiber Installation Labor	\$1,300 EA	\$2,600
NORTH BOONE MIDDLE SCHOOL (Total):			\$6,600

2021 CABLING PROJECT GRAND TOTAL:

\$23,100

(plus sales tax, if applicable)

10. Optional Individual Add-Ons/Upgrades:

Patch Cable, Fiber Optic, OM3/4, 3 Meters, LC Connectors

ADD \$14 EA.

Patch Cable, Fiber Optic, SM, 3 Meters, LC Connectors

ADD \$14 EA.

Remove/Demo Existing Fiber Run (includes cut out old cable, remove rack trays)

ADD \$300 / RUN

11. Approvals and Signatures

APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

Options Selected: _____

Early Schedule Discount Approved (5%): _____

Total Approved Amount (\$): _____

Accepted By (printed): _____

Title: _____

Date: _____

Signature: _____

Project Acceptance:

This page must be signed and then faxed or emailed to your CRS representative **along with a signed Contract**, your agency's **Purchase Order**, and **down payment**, if applicable, to initiate this project.

A CRS Standard Purchase Agreement has already been drafted and attached to this document for your convenience, should you choose to move forward with this work.

Payment Terms:

NET 30 DAYS / DIRECT PROGRESS BILLING / (BEAR)

Sales Tax will be collected on the Final Invoice (if applicable).

Please email your representative, John Mesich, at: **john@coderedsecurity.com** with any questions regarding initiating this project, as well as to schedule this work. First Signed, First Scheduled.

Proposal Submitted by:

_____ (CRS Representative)

CONTRACT FOR PURCHASE OF GOODS AND/OR SERVICES

This Purchase Agreement is made and entered into on _____ day of _____, 20____

BETWEEN

NORTH BOONE SCHOOL DISTRICT 200, an organization having its Primary Office at **6248 NORTH BOONE SCHOOL RD, POPLAR GROVE, IL 61065**, represented by its Superintendent and/or Purchase Committee (here in after called **THE PURCHASER** which term shall include its successors and assigns) on the one Part.

AND

CODE RED SECURITY LLC, a Vendor having its office at **1817 HIGHLAND DR #1136, GRAFTON, WI 53024** (here in after called **THE SUPPLIER** which term shall include successors and assigns) on the other Part.

Whereas **NORTH BOONE SCHOOL DISTRICT 200** maintains Information Technology and building site systems and facilities for the **NORTH BOONE SCHOOL DISTRICT 200** in **POPLAR GROVE, IL**,

And whereas THE PURCHASER is willing to purchase **SUPPLIES AND PROFESSIONAL SERVICES FOR NEW DATA INFRASTRUCTURE CABLING, SUPPLIES, AND PROFESSIONAL TESTING AND INSTALLATION SERVICES OF SAID CABLING AND DEVICES**, for the purposes mentioned above.

And whereas for this purpose THE PURCHASER desires to appoint a Supplier to supply **(7) NEW RUNS OF OM4 12 STRAND ARMORED FIBER OPTIC BACKBONE CABLING; ALONG WITH ON-SITE INSTALLATION, COMMISSIONING, AND TESTING.**

And whereas THE SUPPLIER expresses their desire to enter into an agreement with THE PURCHASER for the job fully described in Schedule-A.

NOW THIS DEED OF AGREEMENT WITNESS THE TERMS AND CONDITIONS AS FOLLOWS:

1. That the Agreement shall come into force immediately and shall remain valid until the final completion of the job or cancelled by THE PURCHASER. THE SUPPLIER will not order materials until contract is signed.
2. That the materials and installation services more specifically described in Schedule-A shall be supplied and performed by THE SUPPLIER as part of the cost of this contract.
3. That THE CUSTOMER reserves the right to change their specified delivery site for any reasonable reason.
4. That the quality and quantity of the materials shall be as per specification given by THE CUSTOMER as well as manufacturer specifications submitted by THE SUPPLIER and hereby approved by THE PURCHASER.
5. **Providing a written Purchase Order or emailed Notice to Proceed by THE CUSTOMER readily assumes that THE CUSTOMER has identified and secured funding necessary to complete the project.**
6. That THE PURCHASER, upon identification of funding sources for this project, will submit a **WRITTEN PURCHASE ORDER** to THE SUPPLIER, and upon date of receipt of said **PURCHASE ORDER**, the **PURCHASE ORDER's** account numbers/funding sources will take precedence over any mentioned in this document.

7. That THE PURCHASER's representative(s) shall inspect the goods at THE PURCHASER's main office of operations, and reserves the right to reject any goods if the representative(s) considers those to be inferior quality to the approved specification sheets.
8. That the goods rejected by the representative(s) of THE CUSTOMER due to defects in material workmanship or installation shall be replaced by THE SUPPLIER without additional cost to THE PURCHASER.
9. That the hereby mutually agreeable cost to supply all necessary materials and installation will be **\$23,100 (TWENTY-THREE-THOUSAND, ONE-HUNDRED DOLLARS (USD))**, described specifically in Schedule - A and payable by THE CUSTOMER to THE SUPPLIER upon completion of this contract. Materials shall be invoiced upon delivery to THE PURCHASER's facilities, and the Labor will be invoiced upon full completion and testing of the systems and this testing data provided to THE CUSTOMER by THE SUPPLIER.
10. That the custom duty, VAT or other Taxes and cost of transportation, or any other incidental charges, if required in connection of the delivery of goods shall be borne by THE SUPPLIER.
11. That upon delivery of items, and again upon completion of the project and final testing/acceptance, the Payment shall be made by THE CUSTOMER from **NORTH BOONE SCHOOL DISTRICT 200**'s office in US Currency totaling **(\$23,100)** through A/C payee Check(s) upon on production and submission of invoice(s) along with personal inspection by THE PURCHASER's staff confirming receipt of goods by THE PURCHASER's Representative(s) at site.
12. THE CUSTOMER agrees that THE SUPPLIER may terminate the contract with no further liability to THE SUPPLIER, in the event THE CUSTOMER breaches the payment terms set forth herein.
13. **Unless otherwise specified in writing, THE CUSTOMER shall pay all invoices within Thirty (30) days of the date shown on the Invoice.** A monthly service charge of 8.0 percent (or the greatest amount allowed by state law, whichever is higher) is payable on all overdue balances. Payments will be credited first to late payment charges and next to the unpaid balance. THE CUSTOMER shall be responsible for any and all collection or legal fees necessitated by lateness or default in payment, in addition to the overdue balance.
14. Reasonable accommodations will be made by THE SUPPLIER to allow for THE CUSTOMER to process invoices through their standard procedures, including awaiting Board Approval at Monthly Board Meetings, thereby delaying the issuance of a payment check to THE SUPPLIER by a reasonable timeframe, due to this process and procedure in place by THE CUSTOMER. THE SUPPLIER may check in with THE CUSTOMER during this period for status of the payment. If reasonable excuse is given, as long as a Signed Contract and signed Purchase Order are on file, THE SUPPLIER will waive all interest and late charges in #13, unless the delay or excuse exceeds 60 calendar days after the date on the invoice.
15. (reserved)
16. (reserved)
17. Any party commencing against the other party any legal proceeding (including any tort claim) arising out of this agreement must bring that proceeding in the State or Federal courts in or nearest the county of OZAUKKEE in the State of WISCONSIN. Each party hereby consents to the exclusive personal jurisdiction and venue of the State or Federal courts in or nearest the county of OZAUKKEE in the State of WISCONSIN. Each party hereby waives any claim that any a legal proceeding brought in accordance with this paragraph has been brought in an inconvenient forum or that the venue of that proceeding is improper.

18. THE CUSTOMER waives any and all of its rights to interpose any claims, deductions, setoffs or counterclaims of any nature in any dispute with respect to the Agreement. Any claims, deductions, setoffs or counterclaims must be brought as a separate action subject to the choice of law, forum selection and jurisdictional waiver provisions of this agreement.

19. **That THE CUSTOMER shall allow for Partial Payment (Progress Billing) for running bill DIRECTLY from THE SUPPLIER throughout the project performance period.**

20. That THE CUSTOMER shall pay directly to THE SUPPLIER for the entire cost of this contract, upon completion, and in the terms specified herein in Section #11, and shall then separately utilize this documentation to collect any available rebates, reimbursements, or deposits from other grants, Customers/end-users, or available funding sources, at THE PURCHASER's own timeframe and effort. Regardless of payment status by the actual end-user, the entire balance of this contract is still due, within the payment terms herein specified, to THE SUPPLIER by whomever signs this contract as THE CUSTOMER. AT NO TIME and under NO circumstances will THE SUPPLIER deem it acceptable or allow for THE CUSTOMER to delay payment to THE SUPPLIER while they are attempting to collect funding from other sources. Standard late fees and interest will be assessed, per policy, and action taken, if required.

21. That if THE SUPPLIER shall in any manner neglect or fail to carry on the work or performance of the terms of the Agreement with due diligence or violates any of the terms of this Agreement THE CUSTOMER shall be entitled to cancel The Agreement without damages, except for actual cost of special order items. This Special Order items clause applies regardless of #25.

22. **Force Majeure.** In the event that either party is prevented from performing or is unable to perform any of its obligations under this Agreement (other than a payment obligation) due to any act of God, acts or decrees of governmental or military bodies, fire, casualty, flood, earthquake, war, strike, lockout, epidemic, pandemic, quarantine, destruction of production facilities, riot, insurrection, materials unavailability, or any other cause beyond the reasonable control of the party invoking this section (collectively, a "Force Majeure"), and if such party shall have used its commercially reasonable efforts to mitigate its effects, such party shall give prompt written notice to the other party, its performance shall be excused, and the time for the performance shall be extended for the period of delay or inability to perform due to such occurrences. Regardless of the excuse of Force Majeure, if such party is not able to perform within ninety (90) days after such event, the other party may terminate the Agreement.

23. That the **PAYMENT TERMS of this contract shall be as follows, and are non-negotiable: 100% of the Total Contract value to be paid NET 30 TERMS upon completion of each phase of the project** (substantial completion date). Standard late fees and interest will be assessed, per policy, and action taken, if required, under #13. **Accommodation for Government payment procedures may be allowed under #14.**

24. That all CRS summer projects are scheduled on a 'first contracted, first scheduled' priority basis.

25. **THIS CONTRACT MAY BE CONTINGENT UPON E-RATE FUNDING AVAILABILITY (FCDN LETTER).**

26. **CRS to pay Prevailing Wage (PW), if/as required, for Boone County, IL**

SCHEDULE - A

CAPRON ELEMENTARY SCHOOL (1 FIBER) (Total):	\$3,300
POPLAR GROVE ELEMENTARY SCHOOL (2 FIBERS) (Total):	\$6,600
NORTH BOONE HIGH SCHOOL (2 FIBERS) (Total):	\$6,600
NORTH BOONE MIDDLE SCHOOL (2 FIBERS) (Total):	\$6,600

2021 CABLING PROJECT GRAND TOTAL:	\$23,100
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CONTRACT ACCEPTANCE AND SIGNATURES

BETWEEN

CODE RED SECURITY LLC

AND

NORTH BOONE SCHOOL DISTRICT 200

(E-RATE CABLING)

As an authorized agent of our respective agency, we hereby agree to all terms within this Purchase Agreement in the preceding pages, and agree to Execute this Agreement by Signing below:

Signed on the _____ day of _____ for and on behalf of the Supplier and Purchaser as follows:

SUPPLIER

CODE RED SECURITY LLC

By:

1.....

Printed:.....

Title:.....

2.....

Printed:.....

Title:.....

3.....

Printed:.....

Title:.....

PURCHASER

NORTH BOONE SCHOOL DISTRICT 200

By:

1.....

Printed:.....

Title:.....

2.....

Printed:.....

Title:.....

3.....

Printed:.....

Title:.....

(Please initial each page)