

# **Request for Proposal**

## **Dillon School District Three**

### **Telecommunications Cabling for Latta High School New 200 Wing**

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Erate Year 23-24

Erate 470 Application # 230012887

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Updated 2/8/2023 to Reflect Addendum 1

## **INTRODUCTION**

The following document contains the cabling requirements for Latta High School in Dillon School District Three. The contractor shall be responsible for providing a complete, functional system including all necessary components, whether included in this specification or not. The system may consist of fiber cabling, fiber terminations, copper cabling, connectors and interconnect/patching equipment, wiring blocks, cable management devices, communications outlets, distribution taps, inner-duct, conduit, equipment racks/cabinets, patch cables, and any other materials, equipment or labor necessary to meet the requirements within this document. The contractor shall provide all testing and documentation upon completion of the installation, as stated herein prior to system acceptance.

### **1. GENERAL BACKGROUND**

The cabling system will support voice, video and data applications within the facility.

This document describes the system requirements to be met in the proposals of the telecommunications cabling vendors to secure under contract all materials, design, engineering, installation, supervision and training services for the structured cabling system.

### **2. TERMS AND CONDITIONS OF PROPOSALS**

This is an invitation to submit a proposal based on the materials, systems and equipment described in this document.

All proposals must be submitted in accordance with the specifications and information contained herein, as well as with any addenda, if required, issued by the purchaser.

Consideration other than cost alone, but with cost as the single most weighted factor, will be used in making the determination of the successful contractor. The evaluation matrix is included on the last page of this document.

### **3. Instructions to the Proposer**

Proposals shall be valid and other factors such as material and labor rate increases during the duration of this project must be taken into account. Vendors should be aware that this is an Erate funded project and that pricing should reflect the noted timeframe for installation.

The Proposer must possess a SPIN Number for the Erate program and provide it in the proposal.

The Proposer shall consider the nature and amount of work to be done as well as the difficulties involved in its proper execution.

**The Proposal shall include all costs deemed necessary to cover all contingencies essential to the installation of the specified system.**

**Total cost for installation materials, labor project management, permit fees, sales tax and other miscellaneous items must be listed separately.**

**A complete materials list, including description, manufacturer, part number, quantity, unit price and total price must also be included. This is required as we will have to submit this item list with cost along with our erate application.**

**All products and materials shall be new, clean, free of defects and free of damage and corrosion.**

**Where discrepancies are found during the proposal creation process, the most stringent requirements must be included in the proposal response.**

**Any cost encountered, which is not specifically itemized in the proposal, shall not be incurred unless specifically agreed upon, in writing.**

**No additional compensation will be allowed for extra work incurred on the part of the Contractor due to the proposers' failure to notice any existing condition, which may cause the additional labor.**

**Proposal responses shall be concise following the format and numbering of this specification. Items not requiring responses shall be acknowledged by the proposer as being understood.**

**The Proposer must notify the Purchaser as soon as detected any omissions or errors in the specification so corrective addenda may be issued. Such notification must be received by the Purchaser, at least (10) days prior to the date for receipt of bids.**

**The proposal deadline is 3:00 PM on February 16<sup>th</sup>, 2023. Proposals will be accepted via hand delivery, mail, fax or email as long as they arrive before the deadline and contain all the proper items.**

**Proposals received after this time will not be considered.**

Any vendor interested in submitting a proposal must make an onsite visit. An onsite visit is scheduled for 10am on February 2<sup>nd</sup>. All interested vendors are urged to attend this meeting if at all possible. Any discrepancies, corrections and/or clarifications needing to be addressed will be vetted in this forum for the benefit of all parties. If you absolutely cannot attend this meeting but are still interested in participating in this project then call Robert McIntyre, Director of Technology of Dillon School District 3 and discuss other dates for possible visits.

**Inquiries and requests for clarifications should be submitted to Robert McIntyre, Director of Technology for Dillon School District 3. Any clarifications that need to be addressed will be appended to the RFP as an addendum and reposted to the**

district website at <http://www.dillon3.k12.sc.us/erate.html>. Also, any vendors having contacted the district will be notified via email that an addendum was made and what it was so that all vendors are on a level playing field.

#### **4. RIGHTS OF THE PURCHASER**

The Purchaser reserves the right to purchase ALL or PART of the cabling materials and hardware needed for the project. Due to unforeseen remodeling and/or programming changes and how they coincide with erate funding timelines the scale of the project may have to be adjusted but this is unanticipated at the moment.

Receipt of a proposal response does not obligate the Purchaser to pay any expenses incurred by the proposer in preparation of the proposal response or obligate the Purchaser in any other respect.

The Purchaser reserves the right to modify the specifications contained in the RFP anytime during the RFP period.

Only changes issued as an addendum will be binding upon the Purchaser. No verbal instructions or interpretations of requirements shall be accepted.

#### **5. SCHEDULE OF EVENTS**

The schedule outlines significant dates and timelines for the project so the contractor can be aware of the circumstances of the project.

<b>EVENT</b>	<b>DATE</b>
Release of this RFP	1/11/2023
Scheduled Onsite Visit	2/2/2023 at 10am, Dillon 3 Board Room 205 King St, Latta, SC 29565
Proposal Due	2/16/2023 3:00PM

**Contract Award** We will try to award a contract by February 24<sup>th</sup> if possible but reserve the right to take more time as needed to make the best decision.

#### **6. RESPONSIBILITIES**

##### **Customer Responsibilities:**

Dillon School District Three is responsible for the following:

- We will allow the contractor's employees free access to the premises and facilities at all reasonable hours during the installation.

- We will be available for inspections when notified by the contractor that the equipment or any part thereof is ready for acceptance.

### **Contractor Responsibilities & Qualifications:**

The winning contractor is responsible for the following:

- Providing all supervision, labor, tools, equipment, materials, transportation, erection, construction, unloading, inspection and inventory housing. Must also return spare material as specified.
- Furnishing and installing materials for the structured cabling system unless specific provisioning or installation of materials is denoted in this RFP.
- Vendor must provide a SPIN Number for the Erate program.
- Promptly repairing all damage to the building due to carelessness of contractor employees and exercising reasonable care to avoid any damage to the building. Reporting to Dillon School District Three any damage to the building that may exist or may occur during the contractor's occupancy of the building.
- Installing the wire, cable and hardware in accordance with the specifications outlined herein.
- Conducting tests and inspections as specified post-installation.
- Promptly correcting all defects for which contractor is responsible as determined by Dillon School District Three.
- Coordinating all work with Dillon School District Three representative before the commencement of the installation.
- Removing all tools, equipment, rubbish and debris from the premises and leaving the premises clean and neat upon completion of the work.
- Abiding by the safety and security rules in force on the work site per local and governmental regulation.
- Following industry standard installation practices and as defined in this RFP.
- Personnel knowledgeable in local, state, province and national codes and regulations. All work shall comply with the latest revision of the codes or regulations. When conflict exists between local or national codes or regulations, the most stringent codes or regulations shall be followed.
- Personnel trained and certified in fiber optic cabling, splicing, termination and

testing techniques. Personnel must have experience using a light meter and OTDR.

- Personnel trained in the installation of pathways and support for housing horizontal and backbone cabling.
- The contractor must have a minimum of one (1) Registered Communications Distribution Design (RCDD) either on staff or contracted. The RCDD shall provide approval on the design, installation, and documentation of this communications system.
- The contractor shall not subcontract data cabling, termination or testing.

## **7. SYSTEM REQUIREMENTS**

### **Backbone Cabling:**

1. One fiber run is required in this project. It will be a minimum of 12 strands and connect the LHS MDF to the LHS New Wing 200 IDF.
2. All fiber installed will be **single mode** 50-micron multimode OM3 or OM4 capable of handling 10Gb speeds to at least 500 meters.
3. All fiber connections are to be LC.
4. All fiber runs should utilize armored fiber as to eliminate the need for using innerduct.

### **Horizontal Cabling:**

1. A total of 168 drops will be installed. There will be 16 drops per classroom for 10 classrooms. In each classroom four of those drops will be in the ceiling and the other 12 will be in three locations on the classroom walls. Four drops will be located in the ceiling above the hallway intersection. The remaining four drops will be run from the gym IDF to the video platform in the gymnasium.
2. The drops in the gym will not need patch panels as the existing patch panels have room to accommodate these four additional drops. In the gymnasium the cabling will need to be enclosed in **emt** rigid conduit in the spaces where it runs along the walls.
3. The MDF has existing 7' racks for fiber terminations to be installed. The new IDF in the 200 wing will need a new 7' rack to be installed.
4. There is existing cable tray to be utilized in the hallways and the locations for the drops going in the walls already have conduit and boxes in place.
5. All cabling shall meet the requirements published in the specifications for TIA/EIA 568B and all cable can be non-plenum.

6. All copper cable shall be Category 6A capable of supporting 10GBase-T for 100 meters.
7. Each faceplate shall be stainless and all must be the same. All jacks are to be blue.
8. Copper cable for wall mount jacks is to be blue color and copper cabling for ceiling mounted drops is to be white to make for easy identification.
9. Horizontal wire management shall be installed between every 48 ports. Vertical wire managers shall be installed on both sides and center(s) of racks.

## **9. Installation Requirements**

In order for unshielded twisted pair cabling infrastructure to deliver high speed performance, it is manufactured to very tight specifications. Consequently, to maintain the unshielded twisted pair cabling system performance proper installation practices must be followed. Listed below are some requirements that shall be followed:

- The cable jacket on UTP shall only be stripped back the minimum required to terminate to connecting hardware.
- Cable management panels shall be used when terminating cable.
- Maximum cable lengths shall not be exceeded.
- All horizontal runs, moves, adds, and changes must be documented. Permanent link test results must be provided.
- Any undocumented penetrations must be preapproved by the District. Any penetrating item (i.e., riser slots and sleeves, cables, conduit, cable tray, and raceways, etc.) shall be properly firestopped.

## **10. Labeling and Documentation**

- All cabling must be labeled as per the district's requirements. The cabling contractor will consult with district personnel during the project to determine the best labeling methodology to use.
- Labels will be affixed to ceiling grid indicating locations and info for all in-ceiling drops.
- Test documentation shall be provided at project completion.
- As-built documents will be provided at the conclusion of the project which contain a map of the school and indicate the location of each drop with its corresponding

patch panel and number.

## 11. Testing and Certification

### Testing

- Testing of cabling shall be performed and any discrepancies addressed before final inspection.
- Test results should indicate that all cabling passes the minimum specs outlined earlier in the document. Specifically, all fiber should be capable of handling 10Gb speeds for at least 500 meters. All copper should support 10GBase-T out to 100 meters.

### Workmanship

- Components of the premise distribution system shall be installed in a neat orderly manner consistent with the best data installation practices. Wiring color codes shall be strictly observed and termination shall be uniform throughout.

### Inspection

- Ongoing inspections shall be performed during construction by Dillon School District Three personnel. All work shall be performed in a high quality craftsman manner and the overall appearance shall be clean, neat and orderly.

### Warranty

- Upon successful completion of the installation and subsequent testing by the installer, Dillon School District Three shall be provided with a warranty certificate registering the installation. The installation requires a minimum 15 year warranty.

## 12. Final Acceptance

- Completion of the installation, final inspections and receipt of the test validation will constitute acceptance of the system.

## 13. Evaluation

- Evaluation of the proposals will be based on the following criteria.

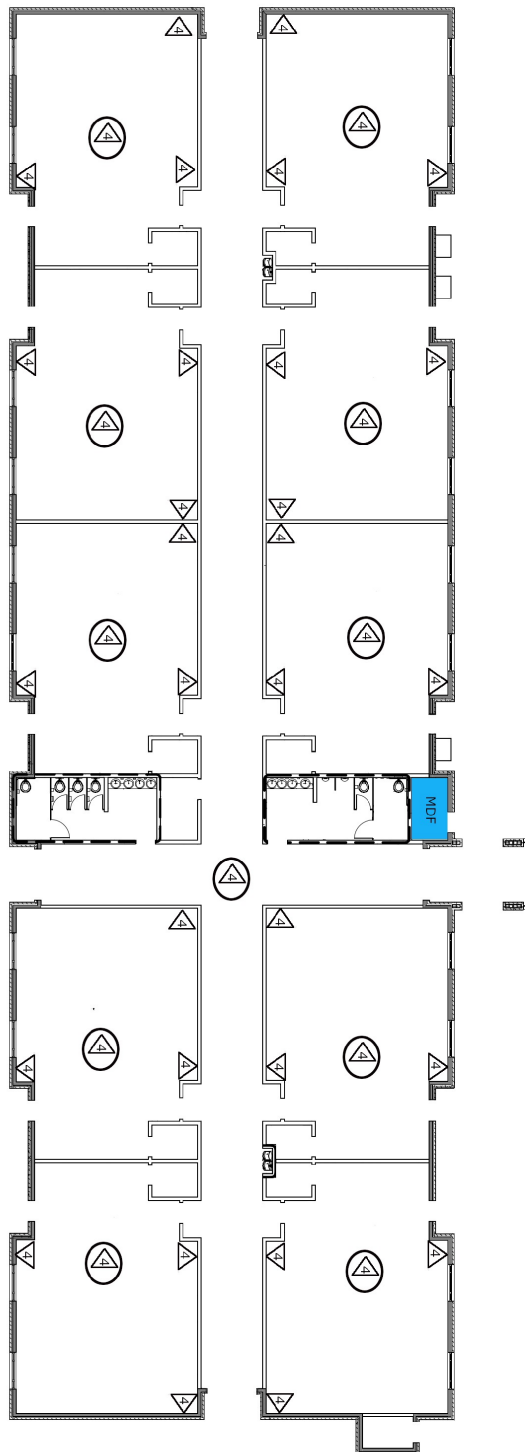
FACTOR	WEIGHT
Price of eligible products and services	70%
Prior vendor experience/References	10%
Qualifications of personnel	10%
Proximity of service provider	10%
<b>TOTAL</b>	<b>100%</b>



The floor plan shows the second floor layout. At the top left is room 127 Kopituk. To its right are the Art Room Jordan and the Weight Room. Further right is the Gym Lobby. The central and largest area is the Gymnasium. A purple line indicates the path of the video booth, starting from the bottom left, moving right, then up, then right again, ending near the Video Booth. A small blue box labeled 'IDF' is located on the left side of the Gymnasium. A green box labeled 'Video Booth' is located on the right side of the Gymnasium.

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## Appendix 2



Location of 164 drops in LHS new 200 wing.

## **Addendum 1**

1. Only single mode fiber will be used in the project instead of multimode. *Page 6*
2. EMT can be used in the gymnasium for the runs to the crows nest instead of Rigid. It just can't be PVC or anything like PVC that will bend, sway or otherwise droop to look "bad" in the future. *Page 6*